

----- BRANCH AUTO_CANCEL_SCAN -----

commit 19920d034561783c83728f9c19a5968487ffdf5 (HEAD, origin/develop, auto-cancel-scan)

Author: Ankit Daftery <ankitdaf@gmail.com>

Date: Tue Jul 17 19:32:51 2012 +0530

Fixes #99

```
diff --git a/source/src/ca/idi/tekla/ime/TeclaIME.java b/source/src/ca/idi/tekla/ime/TeclaIME.java
index 59d9cce..57004d2 100644
--- a/source/src/ca/idi/tekla/ime/TeclaIME.java
+++ b/source/src/ca/idi/tekla/ime/TeclaIME.java
@@ -821,7 +821,7 @@ public class TeclaIME extends InputMethodService
     changeKeyboardMode();
     break;
     case TeclaKeyboardView.KEYCODE_STEP_OUT:
-    TeclaApp.highlighter.stepOut();
+    TeclaApp.highlighter.externalstepOut();
     if (TeclaApp.DEBUG) Log.d(TeclaApp.TAG, CLASS_TAG + "Hidden key.Stepping out...");
     break;
     default:
diff --git a/source/src/ca/idi/tekla/util/Highlighter.java b/source/src/ca/idi/tekla/util/Highlighter.java
index 2c98907..0729e68 100644
--- a/source/src/ca/idi/tekla/util/Highlighter.java
+++ b/source/src/ca/idi/tekla/util/Highlighter.java
@@ -229,6 +229,24 @@ public class Highlighter {

};

+ /*
+  * Runnable used to step out with hidden key
+  */
+ public void externalstepOut()
+ {
+     Runnable mScanRunnable = new Runnable() {
+
+         public void run() {
+             mInactiveScans = 0;
+             pauseSelfScanning();
+             stepOut();
+             resumeSelfScanning();
+             Log.d(TeclaApp.TAG, CLASS_TAG + "Hidden Key pressed");
+         }
+     };
+     mHandler.postDelayed(mScanRunnable, TeclaApp.persistence.getScanDelay());
+ }
+
+ /**
+  * Runnable used only to start auto scan. It resets highlighting before calling the self scanning
+  * methods.
+  */
```

commit e1b0b589e22f931608389d3e004b36822f5acbb1

Author: Ankit Daftery <ankitdaf@gmail.com>

Date: Fri Jul 13 20:33:25 2012 +0530

Fixed crash caused by empty keyLabel, affects #20

```
diff --git a/source/res/xml/kbd_alpha.xml b/source/res/xml/kbd_alpha.xml
index 3d22fb1..82a4695 100644
--- a/source/res/xml/kbd_alpha.xml
+++ b/source/res/xml/kbd_alpha.xml
@@ -52,7 +52,7 @@
     android:keyLabel="j" />
     <Key
         android:codes="-7"
-        android:keyLabel=""
+        android:keyLabel=" "
         android:keyWidth="0%p" />
     </Row>
     <Row android:keyboardMode="@+id/mode_normal" >
@@ -80,7 +80,7 @@
     <Key
```

```
        android:codes="-7"
        android:keyEdgeFlags="right"
-       android:keyLabel=""
+       android:keyLabel=" "
        android:keyWidth="0%p" />
</Row>
<Row android:keyboardMode="@+id/mode_voice" >
@@ -108,7 +108,7 @@
    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-       android:keyLabel=""
+       android:keyLabel=" "
        android:keyWidth="0%p" />
    </Row>
<Row android:keyboardMode="@+id/mode_variants" >
@@ -140,7 +140,7 @@
    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-       android:keyLabel=""
+       android:keyLabel=" "
        android:keyWidth="0%p" />
    </Row>
<Row>
@@ -174,7 +174,7 @@
    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-       android:keyLabel=""
+       android:keyLabel=" "
        android:keyWidth="0%p" />
    </Row>
<Row>
@@ -212,7 +212,7 @@
    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-       android:keyLabel=""
+       android:keyLabel=" "
        android:keyWidth="0%p" />
    </Row>
<Row>
@@ -255,7 +255,7 @@
    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-       android:keyLabel=""
+       android:keyLabel=" "
        android:keyWidth="0%p" />
    </Row>
<Row>
@@ -293,7 +293,7 @@
    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-       android:keyLabel=""
+       android:keyLabel=" "
        android:keyWidth="0%p" />
    </Row>
```

```
diff --git a/source/res/xml/kbd_alpha_voice_variants.xml b/source/res/xml/kbd_alpha_voice_variants.xml
index 098b163..be8730a 100644
```

```
--- a/source/res/xml/kbd_alpha_voice_variants.xml
+++ b/source/res/xml/kbd_alpha_voice_variants.xml
```

```
@@ -52,7 +52,7 @@
```

```
    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-       android:keyLabel=""
+       android:keyLabel=" "
        android:keyWidth="0%p" />
    </Row>
```

```

<Row>
@@ -84,7 +84,7 @@
    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-       android:keyLabel=""
+       android:keyLabel=" "
        android:keyWidth="0%p" />
    </Row>
    <Row>
@@ -118,7 +118,7 @@
    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-       android:keyLabel=""
+       android:keyLabel=" "
        android:keyWidth="0%p" />
    </Row>
    <Row android:rowEdgeFlags="bottom" >
@@ -159,7 +159,7 @@
    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-       android:keyLabel=""
+       android:keyLabel=" "
        android:keyWidth="0%p" />
    </Row>

diff --git a/source/res/xml/kbd_azerty.xml b/source/res/xml/kbd_azerty.xml
index e54f231..21268ab 100644
--- a/source/res/xml/kbd_azerty.xml
+++ b/source/res/xml/kbd_azerty.xml
@@ -54,7 +54,7 @@
        android:popupCharacters="@string/alternates_for_o"
    />
    <Key android:codes="112" android:keyLabel="p"/>
-   <Key android:codes="-7" android:keyEdgeFlags="right" android:keyLabel="" android:keyWidth="0%p"
/>
+   <Key android:codes="-7" android:keyEdgeFlags="right" android:keyLabel=" " android:keyWidth="0%p"
/>
    </Row>

    <Row>
@@ -71,7 +71,7 @@
    <Key android:codes="107" android:keyLabel="k"/>
    <Key android:codes="108" android:keyLabel="l"/>
    <Key android:codes="109" android:keyLabel="m"/>
-   <Key android:codes="-7" android:keyEdgeFlags="right" android:keyLabel="" android:keyWidth="0%p"
/>
+   <Key android:codes="-7" android:keyEdgeFlags="right" android:keyLabel=" " android:keyWidth="0%p"
/>
    </Row>

    <Row>
@@ -96,7 +96,7 @@
        android:keyWidth="15%p"
        android:iconPreview="@drawable/sym_keyboard_feedback_delete"
        android:isRepeatable="true"/>
-   <Key android:codes="-7" android:keyEdgeFlags="right" android:keyLabel="" android:keyWidth="0%p"
/>
+   <Key android:codes="-7" android:keyEdgeFlags="right" android:keyLabel=" " android:keyWidth="0%p"
/>
    </Row><Row
        android:keyboardMode="@+id/mode_normal"
        android:rowEdgeFlags="bottom" >
@@ -129,7 +129,7 @@
    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-       android:keyLabel=""
+       android:keyLabel=" "
        android:keyWidth="0%p" />
    </Row>

```

```
<Row
@@ -169,7 +169,7 @@
  <Key
    android:codes="-7"
    android:keyEdgeFlags="right"
-   android:keyLabel=""
+   android:keyLabel=" "
    android:keyWidth="0%p" />
</Row>
```

```
diff --git a/source/res/xml/kbd_qwerty.xml b/source/res/xml/kbd_qwerty.xml
index ecc2b5e..981ea3f 100644
```

```
--- a/source/res/xml/kbd_qwerty.xml
+++ b/source/res/xml/kbd_qwerty.xml
@@ -72,7 +72,7 @@
```

```
  <Key
    android:codes="-7"
    android:keyEdgeFlags="right"
-   android:keyLabel=""
+   android:keyLabel=" "
    android:keyWidth="0%p" />
</Row>
<Row>
```

```
@@ -118,7 +118,7 @@
  <Key
    android:codes="-7"
    android:keyEdgeFlags="right"
-   android:keyLabel=""
+   android:keyLabel=" "
    android:keyWidth="0%p" />
</Row>
<Row>
```

```
@@ -166,7 +166,7 @@
  <Key
    android:codes="-7"
    android:keyEdgeFlags="right"
-   android:keyLabel=""
+   android:keyLabel=" "
    android:keyWidth="0%p" />
</Row>
<Row>
```

```
@@ -206,7 +206,7 @@
  <Key
    android:codes="-7"
    android:keyEdgeFlags="right"
-   android:keyLabel=""
+   android:keyLabel=" "
    android:keyWidth="0%p" />
</Row>
<Row>
```

```
@@ -251,7 +251,7 @@
  <Key
    android:codes="-7"
    android:keyEdgeFlags="right"
-   android:keyLabel=""
+   android:keyLabel=" "
    android:keyWidth="0%p" />
</Row>
<Row>
```

```
@@ -296,7 +296,7 @@
  <Key
    android:codes="-7"
    android:keyEdgeFlags="right"
-   android:keyLabel=""
+   android:keyLabel=" "
    android:keyWidth="0%p" />
</Row>
<Row>
```

```
@@ -337,7 +337,7 @@
  <Key
    android:codes="-7"
    android:keyEdgeFlags="right"
-   android:keyLabel=""
```

```
+         android:keyLabel=" "
+         android:keyWidth="0%p" />
</Row>
```

```
diff --git a/source/res/xml/kbd_qwerty_variants.xml b/source/res/xml/kbd_qwerty_variants.xml
index a7cf173..99a3e22 100644
```

```
--- a/source/res/xml/kbd_qwerty_variants.xml
+++ b/source/res/xml/kbd_qwerty_variants.xml
@@ -72,7 +72,7 @@
```

```
    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-       android:keyLabel=""
+       android:keyLabel=" "
        android:keyWidth="0%p" />
</Row>
<Row>
```

```
@@ -122,7 +122,7 @@
```

```
    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-       android:keyLabel=""
+       android:keyLabel=" "
        android:keyWidth="0%p" />
</Row>
<Row>
```

```
@@ -170,7 +170,7 @@
```

```
    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-       android:keyLabel=""
+       android:keyLabel=" "
        android:keyWidth="0%p" />
</Row>
<Row>
```

```
@@ -210,7 +210,7 @@
```

```
    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-       android:keyLabel=""
+       android:keyLabel=" "
        android:keyWidth="0%p" />
</Row>
<Row>
```

```
@@ -255,7 +255,7 @@
```

```
    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-       android:keyLabel=""
+       android:keyLabel=" "
        android:keyWidth="0%p" />
</Row>
<Row>
```

```
@@ -300,7 +300,7 @@
```

```
    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-       android:keyLabel=""
+       android:keyLabel=" "
        android:keyWidth="0%p" />
</Row>
<Row>
```

```
@@ -341,7 +341,7 @@
```

```
    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-       android:keyLabel=""
+       android:keyLabel=" "
        android:keyWidth="0%p" />
</Row>
```

```
diff --git a/source/res/xml/kbd_qwerty_voice.xml b/source/res/xml/kbd_qwerty_voice.xml
index e8258e1..8e7391b 100755
```

```

--- a/source/res/xml/kbd_qwerty_voice.xml
+++ b/source/res/xml/kbd_qwerty_voice.xml
@@ -72,7 +72,7 @@
     <Key
         android:codes="-7"
         android:keyEdgeFlags="right"
-         android:keyLabel=""
+         android:keyLabel=" "
         android:keyWidth="0%p" />
</Row>
<Row>
@@ -118,7 +118,7 @@
     <Key
         android:codes="-7"
         android:keyEdgeFlags="right"
-         android:keyLabel=""
+         android:keyLabel=" "
         android:keyWidth="0%p" />
</Row>
<Row>
@@ -166,7 +166,7 @@
     <Key
         android:codes="-7"
         android:keyEdgeFlags="right"
-         android:keyLabel=""
+         android:keyLabel=" "
         android:keyWidth="0%p" />
</Row>
<Row>
@@ -211,7 +211,7 @@
     <Key
         android:codes="-7"
         android:keyEdgeFlags="right"
-         android:keyLabel=""
+         android:keyLabel=" "
         android:keyWidth="0%p" />
</Row>
<Row>
@@ -260,7 +260,7 @@
     <Key
         android:codes="-7"
         android:keyEdgeFlags="right"
-         android:keyLabel=""
+         android:keyLabel=" "
         android:keyWidth="0%p" />
</Row>
<Row>
@@ -310,7 +310,7 @@
     <Key
         android:codes="-7"
         android:keyEdgeFlags="right"
-         android:keyLabel=""
+         android:keyLabel=" "
         android:keyWidth="0%p" />
</Row>
<Row>
@@ -355,7 +355,7 @@
     <Key
         android:codes="-7"
         android:keyEdgeFlags="right"
-         android:keyLabel=""
+         android:keyLabel=" "
         android:keyWidth="0%p" />
</Row>

```

```

diff --git a/source/res/xml/kbd_qwerty_voice_variants.xml b/source/res/xml/kbd_qwerty_voice_variants.xml
index 9a91ddc..ab44564 100755
--- a/source/res/xml/kbd_qwerty_voice_variants.xml
+++ b/source/res/xml/kbd_qwerty_voice_variants.xml
@@ -72,7 +72,7 @@
     <Key
         android:codes="-7"
         android:keyEdgeFlags="right"

```

```

-         android:keyLabel=""
+         android:keyLabel=" "
        android:keyWidth="0%p" />
    </Row>
    <Row>
@@ -122,7 +122,7 @@
        <Key
            android:codes="-7"
            android:keyEdgeFlags="right"
-         android:keyLabel=""
+         android:keyLabel=" "
            android:keyWidth="0%p" />
    </Row>
    <Row>
@@ -170,7 +170,7 @@
        <Key
            android:codes="-7"
            android:keyEdgeFlags="right"
-         android:keyLabel=""
+         android:keyLabel=" "
            android:keyWidth="0%p" />
    </Row>
    <Row>
@@ -215,7 +215,7 @@
        <Key
            android:codes="-7"
            android:keyEdgeFlags="right"
-         android:keyLabel=""
+         android:keyLabel=" "
            android:keyWidth="0%p" />
    </Row>
    <Row>
@@ -264,7 +264,7 @@
        <Key
            android:codes="-7"
            android:keyEdgeFlags="right"
-         android:keyLabel=""
+         android:keyLabel=" "
            android:keyWidth="0%p" />
    </Row>
    <Row>
@@ -314,7 +314,7 @@
        <Key
            android:codes="-7"
            android:keyEdgeFlags="right"
-         android:keyLabel=""
+         android:keyLabel=" "
            android:keyWidth="0%p" />
    </Row>
    <Row>
@@ -359,7 +359,7 @@
        <Key
            android:codes="-7"
            android:keyEdgeFlags="right"
-         android:keyLabel=""
+         android:keyLabel=" "
            android:keyWidth="0%p" />
    </Row>

```

```
diff --git a/source/res/xml/kbd_symbols.xml b/source/res/xml/kbd_symbols.xml
```

```
index a585b14..3366ec4 100755
```

```
--- a/source/res/xml/kbd_symbols.xml
```

```
+++ b/source/res/xml/kbd_symbols.xml
```

```
@@ -67,10 +67,14 @@
```

```

        android:keyLabel="9" />
    <Key
        android:codes="48"
-         android:keyEdgeFlags="right"
        android:keyLabel="0"
        android:popupCharacters=""
        android:popupKeyboard="@xml/kbd_popup_template" />
+     <Key
+         android:codes="-7"

```

```

+         android:keyEdgeFlags="right"
+         android:keyLabel=" "
+         android:keyWidth="0%p" />
</Row>
<Row>
  <Key
@@ -114,10 +118,15 @@
    android:popupKeyboard="@xml/kbd_popup_template" />
  <Key
    android:codes="41"
-    android:keyEdgeFlags="right"
+
    android:keyLabel=")"
    android:popupCharacters="]]>"
    android:popupKeyboard="@xml/kbd_popup_template" />
+  <Key
+    android:codes="-7"
+    android:keyEdgeFlags="right"
+    android:keyLabel=" "
+    android:keyWidth="0%p" />
</Row>
<Row>
  <Key
@@ -160,9 +169,13 @@
    android:codes="-5"
    android:iconPreview="@drawable/sym_keyboard_feedback_delete"
-    android:isRepeatable="true"
-    android:keyEdgeFlags="right"
+    android:keyIcon="@drawable/sym_keyboard_delete"
    android:keyWidth="15%p" />
+  <Key
+    android:codes="-7"
+    android:keyEdgeFlags="right"
+    android:keyLabel=" "
+    android:keyWidth="0%p" />
</Row>
<Row android:rowEdgeFlags="bottom" >
  <Key
@@ -194,9 +207,13 @@
  <Key
    android:codes="10"
    android:iconPreview="@drawable/sym_keyboard_feedback_return"
-    android:keyEdgeFlags="right"
+    android:keyIcon="@drawable/sym_keyboard_return"
    android:keyWidth="20%p" />
+  <Key
+    android:codes="-7"
+    android:keyEdgeFlags="right"
+    android:keyLabel=" "
+    android:keyWidth="0%p" />
</Row>
</Keyboard>
\ No newline at end of file
diff --git a/source/res/xml/kbd_symbols_shift.xml b/source/res/xml/kbd_symbols_shift.xml
index 62683c9..3996cf5 100755
--- a/source/res/xml/kbd_symbols_shift.xml
+++ b/source/res/xml/kbd_symbols_shift.xml
@@ -40,8 +40,8 @@
  <Key android:keyLabel="x" />
  <Key android:keyLabel="{ " />
  <Key
-    android:keyEdgeFlags="right"
+    android:keyLabel="}" />
+  <Key android:codes="-7" android:keyEdgeFlags="right" android:keyLabel=" " android:keyWidth="0%p"
/>
</Row>
<Row>
  <Key
@@ -62,8 +62,8 @@
    android:popupKeyboard="@xml/kbd_popup_template" />
  <Key android:keyLabel="[" />
  <Key

```



```

-         android:keyEdgeFlags="right"
          android:keyLabel="j" />
+<Key android:codes="-7" android:keyEdgeFlags="right" android:keyLabel=" " android:keyWidth="0%p" />
  </Row>
  <Row>
    <Key
@@ -93,9 +93,9 @@
      android:codes="-5"
      android:iconPreview="@drawable/sym_keyboard_feedback_delete"
      android:isRepeatable="true"
-     android:keyEdgeFlags="right"
      android:keyIcon="@drawable/sym_keyboard_delete"
      android:keyWidth="15%p" />
+<Key android:codes="-7" android:keyEdgeFlags="right" android:keyLabel=" " android:keyWidth="0%p" />
  </Row>
  <Row android:rowEdgeFlags="bottom" >
    <Key
@@ -124,10 +124,10 @@
      android:keyWidth="10%p" />
    <Key
      android:codes="10"
-     android:keyEdgeFlags="right"
      android:iconPreview="@drawable/sym_keyboard_feedback_return"
      android:keyIcon="@drawable/sym_keyboard_return"
      android:keyWidth="20%p" />
+<Key android:codes="-7" android:keyEdgeFlags="right" android:keyLabel=" " android:keyWidth="0%p" />
  </Row>

</Keyboard>
\ No newline at end of file

```

```

commit a6694e10f5fcb9400381c25897f26995005e5812
Author: Ankit Daftery <ankitdaf@gmail.com>
Date: Fri Jul 13 19:56:03 2012 +0530

```

Added invisible stepping out, should fully fix #20

```

diff --git a/source/res/xml/kbd_alpha.xml b/source/res/xml/kbd_alpha.xml
index 10c982b..3d22fb1 100644
--- a/source/res/xml/kbd_alpha.xml
+++ b/source/res/xml/kbd_alpha.xml
@@ -50,6 +50,10 @@
     <Key
       android:keyEdgeFlags="right"
       android:keyLabel="j" />
+     <Key
+       android:codes="-7"
+       android:keyLabel=""
+       android:keyWidth="0%p" />
   </Row>
   <Row android:keyboardMode="@+id/mode_normal" >
     <Key
@@ -70,10 +74,14 @@
     <Key android:keyLabel="q" />
     <Key android:keyLabel="r" />
     <Key
-     android:keyEdgeFlags="right"
     android:keyLabel="s"
     android:popupCharacters="@string/alternates_for_s"
     android:popupKeyboard="@xml/kbd_popup_template" />
+     <Key
+     android:codes="-7"
+     android:keyEdgeFlags="right"
+     android:keyLabel=""
+     android:keyWidth="0%p" />
   </Row>
   <Row android:keyboardMode="@+id/mode_voice" >
     <Key
@@ -94,10 +102,14 @@
     <Key android:keyLabel="q" />
     <Key android:keyLabel="r" />
     <Key
-     android:keyEdgeFlags="right"

```

```

        android:keyLabel="s"
        android:popupCharacters="@string/alternates_for_s"
        android:popupKeyboard="@xml/kbd_popup_template" />
+       <Key
+         android:codes="-7"
+         android:keyEdgeFlags="right"
+         android:keyLabel=""
+         android:keyWidth="0%p" />
</Row>
<Row android:keyboardMode="@+id/mode_variants" >
  <Key
@@ -124,8 +136,12 @@
    android:codes="@integer/key_variants"
    android:isModifier="true"
    android:isSticky="true"
-    android:keyEdgeFlags="right"
    android:keyLabel="á" />
+   <Key
+     android:codes="-7"
+     android:keyEdgeFlags="right"
+     android:keyLabel=""
+     android:keyWidth="0%p" />
</Row>
<Row>
  <Key
@@ -153,9 +169,13 @@
    android:codes="-5"
    android:iconPreview="@drawable/sym_keyboard_feedback_delete"
-    android:isRepeatable="true"
    android:keyEdgeFlags="right"
-    android:keyIcon="@drawable/sym_keyboard_delete"
    android:keyWidth="15%p" />
+   <Key
+     android:codes="-7"
+     android:keyEdgeFlags="right"
+     android:keyLabel=""
+     android:keyWidth="0%p" />
</Row>
<Row
    android:keyboardMode="@+id/mode_normal"
@@ -187,9 +207,13 @@
  <Key
    android:codes="10"
    android:iconPreview="@drawable/sym_keyboard_feedback_return"
-    android:keyEdgeFlags="right"
    android:keyIcon="@drawable/sym_keyboard_return"
    android:keyWidth="20%p" />
+   <Key
+     android:codes="-7"
+     android:keyEdgeFlags="right"
+     android:keyLabel=""
+     android:keyWidth="0%p" />
</Row>
<Row
    android:keyboardMode="@+id/mode_voice"
@@ -226,9 +250,13 @@
  <Key
    android:codes="@integer/key_voice"
    android:iconPreview="@drawable/sym_keyboard_feedback_mic"
-    android:keyEdgeFlags="right"
    android:keyIcon="@drawable/sym_keyboard_mic"
    android:keyWidth="13%p" />
+   <Key
+     android:codes="-7"
+     android:keyEdgeFlags="right"
+     android:keyLabel=""
+     android:keyWidth="0%p" />
</Row>
<Row
    android:keyboardMode="@+id/mode_variants"
@@ -260,9 +288,13 @@
  <Key
    android:codes="10"

```

```

        android:iconPreview="@drawable/sym_keyboard_feedback_return"
-       android:keyEdgeFlags="right"
        android:keyIcon="@drawable/sym_keyboard_return"
        android:keyWidth="20%p" />
+       <Key
+       android:codes="-7"
+       android:keyEdgeFlags="right"
+       android:keyLabel=""
+       android:keyWidth="0%p" />
</Row>

</Keyboard>
\ No newline at end of file
diff --git a/source/res/xml/kbd_alpha_voice_variants.xml b/source/res/xml/kbd_alpha_voice_variants.xml
index a86c81a..098b163 100644
--- a/source/res/xml/kbd_alpha_voice_variants.xml
+++ b/source/res/xml/kbd_alpha_voice_variants.xml
@@ -48,8 +48,12 @@
        android:popupCharacters="@string/alternates_for_i"
        android:popupKeyboard="@xml/kbd_popup_template" />
-       <Key
-       android:keyEdgeFlags="right"
-       android:keyLabel="j" />
+       <Key
+       android:codes="-7"
+       android:keyEdgeFlags="right"
+       android:keyLabel=""
+       android:keyWidth="0%p" />
</Row>
<Row>
  <Key
@@ -76,8 +80,12 @@
        android:codes="@integer/key_variants"
        android:isModifier="true"
        android:isSticky="true"
-       android:keyEdgeFlags="right"
-       android:keyLabel="áž" />
+       <Key
+       android:codes="-7"
+       android:keyEdgeFlags="right"
+       android:keyLabel=""
+       android:keyWidth="0%p" />
</Row>
<Row>
  <Key
@@ -105,9 +113,13 @@
        android:codes="-5"
        android:iconPreview="@drawable/sym_keyboard_feedback_delete"
        android:isRepeatable="true"
-       android:keyEdgeFlags="right"
-       android:keyIcon="@drawable/sym_keyboard_delete"
-       android:keyWidth="15%p" />
+       <Key
+       android:codes="-7"
+       android:keyEdgeFlags="right"
+       android:keyLabel=""
+       android:keyWidth="0%p" />
</Row>
<Row android:rowEdgeFlags="bottom" >
  <Key
@@ -142,9 +154,13 @@
  <Key
        android:codes="@integer/key_voice"
        android:iconPreview="@drawable/sym_keyboard_feedback_mic"
-       android:keyEdgeFlags="right"
-       android:keyIcon="@drawable/sym_keyboard_mic"
-       android:keyWidth="13%p" />
+       <Key
+       android:codes="-7"
+       android:keyEdgeFlags="right"
+       android:keyLabel=""
+       android:keyWidth="0%p" />
</Row>

```

```

</Keyboard>
\ No newline at end of file
diff --git a/source/res/xml/kbd_azerty.xml b/source/res/xml/kbd_azerty.xml
index 01d3be8..e54f231 100644
--- a/source/res/xml/kbd_azerty.xml
+++ b/source/res/xml/kbd_azerty.xml
@@ -53,7 +53,8 @@
         android:popupKeyboard="@xml/kbd_popup_template"
         android:popupCharacters="@string/alternates_for_o"
     />
-     <Key android:codes="112" android:keyLabel="p" android:keyEdgeFlags="right"/>
+     <Key android:codes="112" android:keyLabel="p"/>
+     <Key android:codes="-7" android:keyEdgeFlags="right" android:keyLabel="" android:keyWidth="0%p"
/>
</Row>

<Row>
@@ -69,7 +70,8 @@
     <Key android:codes="106" android:keyLabel="j"/>
     <Key android:codes="107" android:keyLabel="k"/>
     <Key android:codes="108" android:keyLabel="l"/>
-     <Key android:codes="109" android:keyLabel="m" android:keyEdgeFlags="right"/>
+     <Key android:codes="109" android:keyLabel="m"/>
+     <Key android:codes="-7" android:keyEdgeFlags="right" android:keyLabel="" android:keyWidth="0%p"
/>
</Row>

<Row>
@@ -91,9 +93,10 @@
     />
     <Key android:codes="233,224,232,234" android:keyLabel="é"/>
     <Key android:codes="-5" android:keyIcon="@drawable/sym_keyboard_delete"
-         android:keyWidth="15%p" android:keyEdgeFlags="right"
+         android:keyWidth="15%p"
+         android:iconPreview="@drawable/sym_keyboard_feedback_delete"
+         android:isRepeatable="true"/>
+     <Key android:codes="-7" android:keyEdgeFlags="right" android:keyLabel="" android:keyWidth="0%p"
/>
</Row><Row
    android:keyboardMode="@+id/mode_normal"
    android:rowEdgeFlags="bottom" >
@@ -121,9 +124,13 @@
    <Key
        android:codes="10"
        android:iconPreview="@drawable/sym_keyboard_feedback_return"
-        android:keyEdgeFlags="right"
        android:keyIcon="@drawable/sym_keyboard_return"
        android:keyWidth="20%p" />
+    <Key
+        android:codes="-7"
+        android:keyEdgeFlags="right"
+        android:keyLabel=""
+        android:keyWidth="0%p" />
</Row>
<Row
    android:keyboardMode="@+id/mode_voice"
@@ -156,10 +163,14 @@
        android:keyWidth="18%p" />
    <Key
        android:codes="@integer/key_voice"
-        android:keyEdgeFlags="right"
        android:iconPreview="@drawable/sym_keyboard_feedback_mic"
        android:keyIcon="@drawable/sym_keyboard_mic"
        android:keyWidth="13%p" />
+    <Key
+        android:codes="-7"
+        android:keyEdgeFlags="right"
+        android:keyLabel=""
+        android:keyWidth="0%p" />
</Row>

</Keyboard>

```

```

diff --git a/source/res/xml/kbd_qwerty.xml b/source/res/xml/kbd_qwerty.xml
index dc2593d..ecc2b5e 100644
--- a/source/res/xml/kbd_qwerty.xml
+++ b/source/res/xml/kbd_qwerty.xml
@@ -68,8 +68,12 @@
     android:popupKeyboard="@xml/kbd_popup_template" />
     <Key
         android:codes="112"
-         android:keyEdgeFlags="right"
         android:keyLabel="p" />
+     <Key
+         android:codes="-7"
+         android:keyEdgeFlags="right"
+         android:keyLabel=""
+         android:keyWidth="0%p" />
     </Row>
     <Row>
         <Key
@@ -97,7 +101,6 @@
         android:keyLabel="g"
         android:popupCharacters="@string/alternates_for_g"
         android:popupKeyboard="@xml/kbd_popup_template" />
-     />
     <Key
         android:codes="104"
         android:keyLabel="h" />
@@ -109,10 +112,14 @@
         android:keyLabel="k" />
     <Key
         android:codes="108"
-         android:keyEdgeFlags="right"
         android:keyLabel="l"
         android:popupCharacters="@string/alternates_for_l"
         android:popupKeyboard="@xml/kbd_popup_template" />
+     <Key
+         android:codes="-7"
+         android:keyEdgeFlags="right"
+         android:keyLabel=""
+         android:keyWidth="0%p" />
     </Row>
     <Row>
         <Key
@@ -154,9 +161,13 @@
         android:codes="-5"
         android:iconPreview="@drawable/sym_keyboard_feedback_delete"
         android:isRepeatable="true"
-         android:keyEdgeFlags="right"
         android:keyIcon="@drawable/sym_keyboard_delete"
         android:keyWidth="15%p" />
+     <Key
+         android:codes="-7"
+         android:keyEdgeFlags="right"
+         android:keyLabel=""
+         android:keyWidth="0%p" />
     </Row>
     <Row
         android:keyboardMode="@+id/mode_normal"
@@ -190,9 +201,13 @@
     <Key
         android:codes="10"
         android:iconPreview="@drawable/sym_keyboard_feedback_return"
-         android:keyEdgeFlags="right"
         android:keyIcon="@drawable/sym_keyboard_return"
         android:keyWidth="20%p" />
+     <Key
+         android:codes="-7"
+         android:keyEdgeFlags="right"
+         android:keyLabel=""
+         android:keyWidth="0%p" />
     </Row>
     <Row
         android:keyboardMode="@+id/mode_ur1"
@@ -231,9 +246,13 @@

```

```

<Key
  android:codes="10"
  android:iconPreview="@drawable/sym_keyboard_feedback_return"
-
  android:keyEdgeFlags="right"
  android:keyIcon="@drawable/sym_keyboard_return"
  android:keyWidth="20%p" />
+
  <Key
+
  android:codes="-7"
+
  android:keyEdgeFlags="right"
+
  android:keyLabel=""
+
  android:keyWidth="0%p" />
</Row>
<Row
  android:keyboardMode="@+id/mode_email"
@@ -272,9 +291,13 @@
  <Key
    android:codes="10"
    android:iconPreview="@drawable/sym_keyboard_feedback_return"
-
    android:keyEdgeFlags="right"
    android:keyIcon="@drawable/sym_keyboard_return"
    android:keyWidth="20%p" />
+
    <Key
+
    android:codes="-7"
+
    android:keyEdgeFlags="right"
+
    android:keyLabel=""
+
    android:keyWidth="0%p" />
  </Row>
  <Row
    android:keyboardMode="@+id/mode_im"
@@ -307,11 +330,15 @@
    android:keyWidth="10%p"
    android:popupKeyboard="@xml/popup_punctuation" />
  <Key
-
    android:keyEdgeFlags="right"
    android:keyLabel=":-)"
    android:keyOutputText=":-) "
    android:keyWidth="20%p"
    android:popupKeyboard="@xml/popup_smileys" />
+
    <Key
+
    android:codes="-7"
+
    android:keyEdgeFlags="right"
+
    android:keyLabel=""
+
    android:keyWidth="0%p" />
  </Row>
</Keyboard>

```

\ No newline at end of file

```
diff --git a/source/res/xml/kbd_qwerty_variants.xml b/source/res/xml/kbd_qwerty_variants.xml
```

```
index f6c1e71..a7cf173 100644
```

```
--- a/source/res/xml/kbd_qwerty_variants.xml
```

```
+++ b/source/res/xml/kbd_qwerty_variants.xml
```

```
@@ -68,8 +68,12 @@
```

```
    android:popupKeyboard="@xml/kbd_popup_template" />
```

```

  <Key
    android:codes="112"
-
    android:keyEdgeFlags="right"
    android:keyLabel="p" />

```

```

+
  <Key
+
  android:codes="-7"
+
  android:keyEdgeFlags="right"
+
  android:keyLabel=""
+
  android:keyWidth="0%p" />

```

```
</Row>
```

```
<Row>
```

```

  <Key
@@ -114,8 +118,12 @@
    android:codes="@integer/key_variants"
    android:isModifier="true"
    android:isSticky="true"

```

```

-
    android:keyEdgeFlags="right"
    android:keyLabel="áž" />

```

```

+
  <Key
+
  android:codes="-7"

```

```

+         android:keyEdgeFlags="right"
+         android:keyLabel=""
+         android:keyWidth="0%p" />
</Row>
<Row>
  <Key
@@ -157,9 +165,13 @@
    android:codes="-5"
    android:iconPreview="@drawable/sym_keyboard_feedback_delete"
    android:isRepeatable="true"
-    android:keyEdgeFlags="right"
    android:keyIcon="@drawable/sym_keyboard_delete"
    android:keyWidth="15%p" />
+    <Key
+    android:codes="-7"
+    android:keyEdgeFlags="right"
+    android:keyLabel=""
+    android:keyWidth="0%p" />
</Row>
<Row
  android:keyboardMode="@+id/mode_normal"
@@ -192,10 +204,14 @@
  android:popupKeyboard="@xml/popup_punctuation" />
  <Key
-    android:codes="10"
    android:keyEdgeFlags="right"
    android:iconPreview="@drawable/sym_keyboard_feedback_return"
    android:keyIcon="@drawable/sym_keyboard_return"
    android:keyWidth="20%p" />
+    <Key
+    android:codes="-7"
+    android:keyEdgeFlags="right"
+    android:keyLabel=""
+    android:keyWidth="0%p" />
</Row>
<Row
  android:keyboardMode="@+id/mode_url"
@@ -233,10 +249,14 @@
  android:popupKeyboard="@xml/popup_punctuation" />
  <Key
-    android:codes="10"
    android:keyEdgeFlags="right"
    android:iconPreview="@drawable/sym_keyboard_feedback_return"
    android:keyIcon="@drawable/sym_keyboard_return"
    android:keyWidth="20%p" />
+    <Key
+    android:codes="-7"
+    android:keyEdgeFlags="right"
+    android:keyLabel=""
+    android:keyWidth="0%p" />
</Row>
<Row
  android:keyboardMode="@+id/mode_email"
@@ -274,10 +294,14 @@
  android:popupKeyboard="@xml/popup_punctuation" />
  <Key
-    android:codes="10"
    android:keyEdgeFlags="right"
    android:iconPreview="@drawable/sym_keyboard_feedback_return"
    android:keyIcon="@drawable/sym_keyboard_return"
    android:keyWidth="20%p" />
+    <Key
+    android:codes="-7"
+    android:keyEdgeFlags="right"
+    android:keyLabel=""
+    android:keyWidth="0%p" />
</Row>
<Row
  android:keyboardMode="@+id/mode_im"
@@ -312,9 +336,13 @@
  <Key
    android:keyLabel=" :-)"
    android:keyOutputText=" :-) "

```

```

-         android:keyEdgeFlags="right"
-         android:keyWidth="20%p"
-         android:popupKeyboard="@xml/popup_smileys" />
+     <Key
+         android:codes="-7"
+         android:keyEdgeFlags="right"
+         android:keyLabel=""
+         android:keyWidth="0%p" />
</Row>

</Keyboard>
\ No newline at end of file
diff --git a/source/res/xml/kbd_qwerty_voice.xml b/source/res/xml/kbd_qwerty_voice.xml
index b6305d3..e8258e1 100755
--- a/source/res/xml/kbd_qwerty_voice.xml
+++ b/source/res/xml/kbd_qwerty_voice.xml
@@ -68,8 +68,12 @@
-         android:popupKeyboard="@xml/kbd_popup_template" />
+     <Key
+         android:codes="112"
-         android:keyEdgeFlags="right"
-         android:keyLabel="p" />
+     <Key
+         android:codes="-7"
+         android:keyEdgeFlags="right"
+         android:keyLabel=""
+         android:keyWidth="0%p" />
</Row>
<Row>
  <Key
@@ -97,7 +101,6 @@
-         android:keyLabel="g"
-         android:popupCharacters="@string/alternates_for_g"
-         android:popupKeyboard="@xml/kbd_popup_template" />
-     />
+     <Key
+         android:codes="104"
+         android:keyLabel="h" />
@@ -109,10 +112,14 @@
-         android:keyLabel="k" />
+     <Key
+         android:codes="108"
-         android:keyEdgeFlags="right"
-         android:keyLabel="l"
-         android:popupCharacters="@string/alternates_for_l"
-         android:popupKeyboard="@xml/kbd_popup_template" />
+     <Key
+         android:codes="-7"
+         android:keyEdgeFlags="right"
+         android:keyLabel=""
+         android:keyWidth="0%p" />
</Row>
<Row>
  <Key
@@ -154,9 +161,13 @@
-         android:codes="-5"
-         android:iconPreview="@drawable/sym_keyboard_feedback_delete"
-         android:isRepeatable="true"
-         android:keyEdgeFlags="right"
-         android:keyIcon="@drawable/sym_keyboard_delete"
-         android:keyWidth="15%p" />
+     <Key
+         android:codes="-7"
+         android:keyEdgeFlags="right"
+         android:keyLabel=""
+         android:keyWidth="0%p" />
</Row>
<Row
  android:keyboardMode="@+id/mode_normal"
@@ -195,9 +206,13 @@
  <Key
    android:codes="@integer/key_voice"
    android:iconPreview="@drawable/sym_keyboard_feedback_mic"

```



```

-         android:keyEdgeFlags="right"
-         android:keyIcon="@drawable/sym_keyboard_mic"
-         android:keyWidth="13%p" />
+     <Key
+         android:codes="-7"
+         android:keyEdgeFlags="right"
+         android:keyLabel=""
+         android:keyWidth="0%p" />
</Row>
<Row
    android:keyboardMode="@+id/mode_url"
@@ -240,9 +255,13 @@
    <Key
        android:codes="@integer/key_voice"
        android:iconPreview="@drawable/sym_keyboard_feedback_mic"
-         android:keyEdgeFlags="right"
-         android:keyIcon="@drawable/sym_keyboard_mic"
-         android:keyWidth="13%p" />
+     <Key
+         android:codes="-7"
+         android:keyEdgeFlags="right"
+         android:keyLabel=""
+         android:keyWidth="0%p" />
</Row>
<Row
    android:keyboardMode="@+id/mode_email"
@@ -286,9 +305,13 @@
    <Key
        android:codes="@integer/key_voice"
        android:iconPreview="@drawable/sym_keyboard_feedback_mic"
-         android:keyEdgeFlags="right"
-         android:keyIcon="@drawable/sym_keyboard_mic"
-         android:keyWidth="13%p" />
+     <Key
+         android:codes="-7"
+         android:keyEdgeFlags="right"
+         android:keyLabel=""
+         android:keyWidth="0%p" />
</Row>
<Row
    android:keyboardMode="@+id/mode_im"
@@ -327,9 +350,13 @@
    <Key
        android:codes="@integer/key_voice"
        android:iconPreview="@drawable/sym_keyboard_feedback_mic"
-         android:keyEdgeFlags="right"
-         android:keyIcon="@drawable/sym_keyboard_mic"
-         android:keyWidth="13%p" />
+     <Key
+         android:codes="-7"
+         android:keyEdgeFlags="right"
+         android:keyLabel=""
+         android:keyWidth="0%p" />
</Row>

</Keyboard>
\ No newline at end of file
diff --git a/source/res/xml/kbd_qwerty_voice_variants.xml b/source/res/xml/kbd_qwerty_voice_variants.xml
index ebc1309..9a91ddc 100755
--- a/source/res/xml/kbd_qwerty_voice_variants.xml
+++ b/source/res/xml/kbd_qwerty_voice_variants.xml
@@ -68,8 +68,12 @@
        android:popupKeyboard="@xml/kbd_popup_template" />
    <Key
        android:codes="112"
-         android:keyEdgeFlags="right"
-         android:keyLabel="p" />
+     <Key
+         android:codes="-7"
+         android:keyEdgeFlags="right"
+         android:keyLabel=""
+         android:keyWidth="0%p" />
</Row>

```

```

<Row>
  <Key
@@ -114,8 +118,12 @@
    android:codes="@integer/key_variants"
    android:isModifier="true"
    android:isSticky="true"
-    android:keyEdgeFlags="right"
    android:keyLabel="áž" />
+
+  <Key
+    android:codes="-7"
+    android:keyEdgeFlags="right"
+    android:keyLabel=""
+    android:keyWidth="0%p" />
</Row>
<Row>
  <Key
@@ -157,9 +165,13 @@
    android:codes="-5"
    android:iconPreview="@drawable/sym_keyboard_feedback_delete"
    android:isRepeatable="true"
-    android:keyEdgeFlags="right"
    android:keyIcon="@drawable/sym_keyboard_delete"
    android:keyWidth="15%p" />
+
+  <Key
+    android:codes="-7"
+    android:keyEdgeFlags="right"
+    android:keyLabel=""
+    android:keyWidth="0%p" />
</Row>
<Row
    android:keyboardMode="@+id/mode_normal"
@@ -197,10 +209,14 @@
    android:keyWidth="16%p" />
  <Key
    android:codes="@integer/key_voice"
-    android:keyEdgeFlags="right"
    android:iconPreview="@drawable/sym_keyboard_feedback_mic"
    android:keyIcon="@drawable/sym_keyboard_mic"
    android:keyWidth="13%p" />
+
+  <Key
+    android:codes="-7"
+    android:keyEdgeFlags="right"
+    android:keyLabel=""
+    android:keyWidth="0%p" />
</Row>
<Row
    android:keyboardMode="@+id/mode_url"
@@ -242,10 +258,14 @@
    android:keyWidth="16%p" />
  <Key
    android:codes="@integer/key_voice"
-    android:keyEdgeFlags="right"
    android:iconPreview="@drawable/sym_keyboard_feedback_mic"
    android:keyIcon="@drawable/sym_keyboard_mic"
    android:keyWidth="13%p" />
+
+  <Key
+    android:codes="-7"
+    android:keyEdgeFlags="right"
+    android:keyLabel=""
+    android:keyWidth="0%p" />
</Row>
<Row
    android:keyboardMode="@+id/mode_email"
@@ -288,10 +308,14 @@
    android:keyWidth="16%p" />
  <Key
    android:codes="@integer/key_voice"
-    android:keyEdgeFlags="right"
    android:iconPreview="@drawable/sym_keyboard_feedback_mic"
    android:keyIcon="@drawable/sym_keyboard_mic"
    android:keyWidth="13%p" />
+
+  <Key
+    android:codes="-7"

```

```

+         android:keyEdgeFlags="right"
+         android:keyLabel=""
+         android:keyWidth="0%p" />
    </Row>
    <Row
        android:keyboardMode="@+id/mode_im"
@@ -329,10 +353,14 @@
        android:popupKeyboard="@xml/popup_smileys" />
        <Key
            android:codes="@integer/key_voice"
-            android:keyEdgeFlags="right"
            android:iconPreview="@drawable/sym_keyboard_feedback_mic"
            android:keyIcon="@drawable/sym_keyboard_mic"
            android:keyWidth="13%p" />
+        <Key
+            android:codes="-7"
+            android:keyEdgeFlags="right"
+            android:keyLabel=""
+            android:keyWidth="0%p" />
    </Row>

</Keyboard>
\ No newline at end of file

```

```

diff --git a/source/src/ca/idi/tekla/ime/TeclaIME.java b/source/src/ca/idi/tekla/ime/TeclaIME.java
index 976c29c..59d9cce 100644

```

```

--- a/source/src/ca/idi/tekla/ime/TeclaIME.java
+++ b/source/src/ca/idi/tekla/ime/TeclaIME.java
@@ -820,6 +820,10 @@ public class TeclaIME extends InputMethodService
    case Keyboard.KEYCODE_MODE_CHANGE:
        changeKeyboardMode();
        break;
+   case TeclaKeyboardView.KEYCODE_STEP_OUT:
+       TeclaApp.highlighter.stepOut();
+       if (TeclaApp.DEBUG) Log.d(TeclaApp.TAG, CLASS_TAG + "Hidden key.Stepping out...");
+       break;
    default:
        if (isMorseKeyboardKey(primaryCode)) {
            onKeyMorse(primaryCode);

```

```

diff --git a/source/src/ca/idi/tekla/ime/TeclaKeyboardView.java
b/source/src/ca/idi/tekla/ime/TeclaKeyboardView.java
index 8f1b746..d4a2fe5 100644

```

```

--- a/source/src/ca/idi/tekla/ime/TeclaKeyboardView.java
+++ b/source/src/ca/idi/tekla/ime/TeclaKeyboardView.java
@@ -50,6 +50,9 @@ public class TeclaKeyboardView extends KeyboardView {

    static final int KEYCODE_OPTIONS = -100;
    static final int KEYCODE_SHIFT_LONGPRESS = -101;

+
+   // Keycode for stepping out self scanning
+   static final int KEYCODE_STEP_OUT = -7;

    private Keyboard mPhoneKeyboard;

```

```

commit d0713f64a385d370f1e0f7e29ccf3e75b4d1d8c8
Author: Ankit Daftery <ankitdaf@gmail.com>
Date: Fri Jul 13 00:34:16 2012 +0530

```

Added automatic stepping out, addresses #20

```

diff --git a/source/src/ca/idi/tekla/util/Highlighter.java b/source/src/ca/idi/tekla/util/Highlighter.java
index 48c4395..2c98907 100644

```

```

--- a/source/src/ca/idi/tekla/util/Highlighter.java
+++ b/source/src/ca/idi/tekla/util/Highlighter.java
@@ -34,6 +34,7 @@ public class Highlighter {
    private int mScanDepth;
    private int mScanKeyCounter, mScanRowCounter;
    private int mLastKeyCounter, mLastRowCounter;
+   private int mInactiveScans, mStartScanKeyCounter;
    private boolean mWasShowingVariants;
    private TeclaKeyboardView mIMEView;
    private Handler mHandler;
@@ -133,6 +134,7 @@ public class Highlighter {

```

```

}
int fromIndex = keyboard.getRowStart(mScanRowCounter);
int toIndex = keyboard.getRowEnd(mScanRowCounter);
+ mStartScanKeyCounter = fromIndex;
if (mScanDepth == Highlighter.DEPTH_KEY) {
    if (direction == Highlighter.HIGHLIGHT_NEXT) mScanKeyCounter++;
    if (direction == Highlighter.HIGHLIGHT_PREV) mScanKeyCounter--;
@@ -215,6 +217,13 @@ public class Highlighter {
    final long start = SystemClock.uptimeMillis();
    if (TeclaApp.DEBUG) Log.d(TeclaApp.TAG, CLASS_TAG + "Scanning to next item");
    move(Highlighter.HIGHLIGHT_NEXT);
+    if(mScanKeyCounter==mStartScanKeyCounter) mInactiveScans++;
+    if(mInactiveScans==2 && getScanDepth()==Highlighter.DEPTH_KEY)
+    {
+        mInactiveScans=0;
+        stepOut();
+        if (TeclaApp.DEBUG) Log.d(TeclaApp.TAG, CLASS_TAG + "No activity.Stepping out...");
+    }
    mHandler.postAtTime(this, start + TeclaApp.persistence.getScanDelay());
}

@@ -254,6 +263,8 @@ public class Highlighter {
}
}
restoreHighlight();
+ mStartScanKeyCounter=mScanKeyCounter; // Counter to check which key
+ mInactiveScans=0; // Counter to check number of eventless self scan
}

private boolean shouldDelayKey(int keyCode){

```

commit 65039e6e5288a7f75437f46a15b1a9d384d6ea9b
Author: Ankit Daftery <ankitdaf@gmail.com>
Date: Fri Jun 15 14:33:05 2012 +0530

Modified layouts to fix #88 #89 #90 Not fully tested

```

diff --git a/source/res/xml/kbd_alpha.xml b/source/res/xml/kbd_alpha.xml
index 296051b..c52d45e 100644
--- a/source/res/xml/kbd_alpha.xml
+++ b/source/res/xml/kbd_alpha.xml
@@ -132,8 +132,9 @@
</Row>

<Row android:keyboardMode="@+id/mode_normal" android:rowEdgeFlags="bottom">
- <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
-     android:keyEdgeFlags="left" android:keyWidth="20%p" />
+ <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+     android:iconPreview="@drawable/sym_keyboard_feedback_done"
+     android:keyWidth="15%p" android:keyEdgeFlags="left" />
    <Key android:keyLabel="," android:keyWidth="10%p" />
    <Key android:codes="32" android:keyIcon="@drawable/sym_keyboard_space"
        android:iconPreview="@drawable/sym_keyboard_feedback_space"
@@ -144,14 +145,15 @@
    <Key android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"
        android:iconPreview="@drawable/sym_keyboard_feedback_return"
        android:keyWidth="20%p" />
- <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-     android:iconPreview="@drawable/sym_keyboard_feedback_done"
-     android:keyWidth="15%p" android:keyEdgeFlags="right" />
+ <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
+     android:keyEdgeFlags="right" android:keyWidth="20%p" />
+
</Row>

<Row android:keyboardMode="@+id/mode_voice" android:rowEdgeFlags="bottom">
- <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
-     android:keyEdgeFlags="left" android:keyWidth="16%p" />
+ <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+     android:iconPreview="@drawable/sym_keyboard_feedback_done"
+     android:keyWidth="14%p" android:keyEdgeFlags="left" />
<Key
    android:codes="@integer/key_voice"

```

```

        android:keyIcon="@drawable/sym_keyboard_mic"
@@ -167,14 +169,15 @@
        <Key android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"
            android:iconPreview="@drawable/sym_keyboard_feedback_return"
            android:keyWidth="16%p" />
- <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-   android:iconPreview="@drawable/sym_keyboard_feedback_done"
-   android:keyWidth="14%p" android:keyEdgeFlags="right"/>
+   <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
+   android:keyEdgeFlags="right" android:keyWidth="16%p"/>
+
</Row>

<Row android:keyboardMode="@+id/mode_variants" android:rowEdgeFlags="bottom">
-   <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
-   android:keyEdgeFlags="left" android:keyWidth="20%p"/>
+   <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+   android:iconPreview="@drawable/sym_keyboard_feedback_done"
+   android:keyWidth="15%p" android:keyEdgeFlags="left"/>
+   <Key android:keyLabel="," android:keyWidth="10%p" />
+   <Key android:codes="32" android:keyIcon="@drawable/sym_keyboard_space"
+   android:iconPreview="@drawable/sym_keyboard_feedback_space"
@@ -185,9 +188,9 @@
    <Key android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"
        android:iconPreview="@drawable/sym_keyboard_feedback_return"
        android:keyWidth="20%p" />
- <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-   android:iconPreview="@drawable/sym_keyboard_feedback_done"
-   android:keyWidth="15%p" android:keyEdgeFlags="right"/>
+ <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
+   android:keyEdgeFlags="right" android:keyWidth="20%p"/>
+
</Row>

</Keyboard>
\ No newline at end of file
diff --git a/source/res/xml/kbd_alpha_voice_variants.xml b/source/res/xml/kbd_alpha_voice_variants.xml
index dbe082d..3b18e87 100644
--- a/source/res/xml/kbd_alpha_voice_variants.xml
+++ b/source/res/xml/kbd_alpha_voice_variants.xml
@@ -92,8 +92,9 @@
    </Row>

    <Row android:rowEdgeFlags="bottom">
-       <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
-       android:keyEdgeFlags="left" android:keyWidth="16%p"/>
+ <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+   android:iconPreview="@drawable/sym_keyboard_feedback_done"
+   android:keyWidth="14%p" android:keyEdgeFlags="left"/>
<Key
    android:codes="@integer/key_voice"
    android:keyIcon="@drawable/sym_keyboard_mic"
@@ -109,9 +110,10 @@
    <Key android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"
        android:iconPreview="@drawable/sym_keyboard_feedback_return"
        android:keyWidth="16%p" />
- <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-   android:iconPreview="@drawable/sym_keyboard_feedback_done"
-   android:keyWidth="14%p" android:keyEdgeFlags="right"/>
+   <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
+   android:keyEdgeFlags="right" android:keyWidth="16%p"/>
+
</Row>

</Keyboard>
\ No newline at end of file
diff --git a/source/res/xml/kbd_navigation.xml b/source/res/xml/kbd_navigation.xml
index 52dca43..1792ee6 100644
--- a/source/res/xml/kbd_navigation.xml
+++ b/source/res/xml/kbd_navigation.xml
@@ -23,8 +23,8 @@
    android:verticalGap="0px" android:keyHeight="@dimen/key_height">

```

```

<Row android:keyboardMode="@+id/mode_normal" android:rowEdgeFlags="bottom">
- <Key android:codes="4" android:keyIcon="@drawable/nav_keyboard_back"
-   android:iconPreview="@drawable/nav_keyboard_feedback_back"
+ <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_show"
+   android:iconPreview="@drawable/sym_keyboard_feedback_show"
   android:keyWidth="15%p" android:keyEdgeFlags="left" />
<Key android:codes="19" android:keyIcon="@drawable/nav_keyboard_up"
  android:iconPreview="@drawable/nav_keyboard_feedback_up"
@@ -39,9 +39,9 @@
   android:iconPreview="@drawable/nav_keyboard_feedback_right"
   android:keyWidth="14%p" />
<Key android:codes="23" android:keyLabel="OK" android:keyWidth="14%p" />
- <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_show"
-   android:iconPreview="@drawable/sym_keyboard_feedback_show"
-   android:keyWidth="15%p" android:keyEdgeFlags="right" />
+ <Key android:codes="4" android:keyIcon="@drawable/nav_keyboard_back"
+   android:iconPreview="@drawable/nav_keyboard_feedback_back"
+   android:keyWidth="15%p" android:keyEdgeFlags="right" />
</Row>

<Row android:keyboardMode="@+id/mode_voice" android:rowEdgeFlags="bottom">
diff --git a/source/res/xml/kbd_phone.xml b/source/res/xml/kbd_phone.xml
index 2d826ae..a0c2a53 100755
--- a/source/res/xml/kbd_phone.xml
+++ b/source/res/xml/kbd_phone.xml
@@ -49,11 +49,10 @@
</Row>

<Row android:rowEdgeFlags="bottom">
- <Key android:codes="-2" android:keyIcon="@drawable/sym_keyboard_numalt"
-   android:popupKeyboard="@xml/kbd_popup_template"
-   android:popupCharacters="_"
-   android:iconPreview="@drawable/sym_keyboard_feedback_numalt"/>
+
+ <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+   android:iconPreview="@drawable/sym_keyboard_feedback_done"
+   android:keyWidth="20%p" android:keyEdgeFlags="left"/>
+
<Key android:codes="48" android:keyIcon="@drawable/sym_keyboard_num0"/>

<Key android:codes="32" android:keyIcon="@drawable/sym_keyboard_space"
@@ -62,9 +61,13 @@
<!-- <Key android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"
   android:keyWidth="20%p"
   android:keyEdgeFlags="right"/> -->
- <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-   android:iconPreview="@drawable/sym_keyboard_feedback_done"
-   android:keyWidth="20%p" android:keyEdgeFlags="right"/>
+ <Key android:codes="-2" android:keyIcon="@drawable/sym_keyboard_numalt"
+   android:popupKeyboard="@xml/kbd_popup_template"
+   android:popupCharacters="_"
+   android:iconPreview="@drawable/sym_keyboard_feedback_numalt"
+   android:keyEdgeFlags="right" />
+
</Row>

</Keyboard>
\ No newline at end of file
diff --git a/source/res/xml/kbd_phone_symbols.xml b/source/res/xml/kbd_phone_symbols.xml
index 8602863..7f63b15 100755
--- a/source/res/xml/kbd_phone_symbols.xml
+++ b/source/res/xml/kbd_phone_symbols.xml
@@ -54,10 +54,9 @@
</Row>

<Row android:rowEdgeFlags="bottom">
- <Key android:codes="-2" android:keyLabel="@string/label_phone_key"
-   android:popupKeyboard="@xml/kbd_popup_template"
-   android:popupCharacters="_"
-   android:keyEdgeFlags="left"/>
+ <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"

```



```

+     android:iconPreview="@drawable/sym_keyboard_feedback_done"
+     android:keyWidth="20%p" android:keyEdgeFlags="left"/>
+     <Key android:keyLabel="+"/>
+     <Key android:codes="32" android:keyIcon="@drawable/sym_keyboard_space"
+         android:iconPreview="@drawable/sym_keyboard_feedback_space"
@@ -65,9 +64,10 @@
+     <!-- <Key android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"
+         android:keyWidth="20%p"
+         android:keyEdgeFlags="right"/> -->
- <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-     android:iconPreview="@drawable/sym_keyboard_feedback_done"
-     android:keyWidth="20%p" android:keyEdgeFlags="right"/>
+     <Key android:codes="-2" android:keyLabel="@string/label_phone_key"
+         android:popupKeyboard="@xml/kbd_popup_template"
+         android:popupCharacters="_"
+         android:keyEdgeFlags="right"/>
+ </Row>
+ </Keyboard>
\ No newline at end of file
diff --git a/source/res/xml/kbd_qwerty.xml b/source/res/xml/kbd_qwerty.xml
index 0948022..3316114 100644
--- a/source/res/xml/kbd_qwerty.xml
+++ b/source/res/xml/kbd_qwerty.xml
@@ -110,10 +110,9 @@
+ </Row>
+ <Row android:keyboardMode="@+id/mode_normal" android:rowEdgeFlags="bottom">
-     <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
-         android:popupKeyboard="@xml/kbd_popup_template"
-         android:popupCharacters="_"
-         android:keyWidth="20%p" android:keyEdgeFlags="left"/>
+     <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+         android:iconPreview="@drawable/sym_keyboard_feedback_done"
+         android:keyWidth="15%p" android:keyEdgeFlags="left"/>
+     <Key android:keyLabel="," android:keyWidth="10%p" />
+     <Key android:codes="32" android:keyIcon="@drawable/sym_keyboard_space"
+         android:iconPreview="@drawable/sym_keyboard_feedback_space"
@@ -123,16 +122,16 @@
+     <Key android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"
+         android:iconPreview="@drawable/sym_keyboard_feedback_return"
+         android:keyWidth="20%p" />
- <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-     android:iconPreview="@drawable/sym_keyboard_feedback_done"
-     android:keyWidth="15%p" android:keyEdgeFlags="right"/>
+ <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
+     android:popupKeyboard="@xml/kbd_popup_template"
+     android:popupCharacters="_"
+     android:keyWidth="20%p" android:keyEdgeFlags="right"/>
+ </Row>
+ <Row android:keyboardMode="@+id/mode_url" android:rowEdgeFlags="bottom">
-     <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
-         android:popupKeyboard="@xml/kbd_popup_template"
-         android:popupCharacters="_"
-         android:keyWidth="20%p" android:keyEdgeFlags="left"/>
+     <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+         android:iconPreview="@drawable/sym_keyboard_feedback_done"
+         android:keyWidth="15%p" android:keyEdgeFlags="left"/>
+     <!-- <Key android:keyLabel="@string/popular_domain_0"
+         android:keyOutputText="@string/popular_domain_0"
+         android:popupKeyboard="@xml/popup_domains"
@@ -146,16 +145,16 @@
+     <Key android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"
+         android:iconPreview="@drawable/sym_keyboard_feedback_return"
+         android:keyWidth="20%p" />
- <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-     android:iconPreview="@drawable/sym_keyboard_feedback_done"
-     android:keyWidth="15%p" android:keyEdgeFlags="right"/>
- </Row>
- <Row android:keyboardMode="@+id/mode_email" android:rowEdgeFlags="bottom">
+     <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"

```

```

        android:popupKeyboard="@xml/kbd_popup_template"
        android:popupCharacters="_"
-       android:keyWidth="20%p" android:keyEdgeFlags="left"/>
+       android:keyWidth="20%p" android:keyEdgeFlags="right"/>
+     </Row>
+
+     <Row android:keyboardMode="@+id/mode_email" android:rowEdgeFlags="bottom">
+       <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+         android:iconPreview="@drawable/sym_keyboard_feedback_done"
+         android:keyWidth="15%p" android:keyEdgeFlags="left"/>
+         <Key android:keyLabel="\@" android:keyWidth="15%p"/>
+         <!-- <Key android:keyLabel="@string/popular_domain_0"
+           android:keyOutputText="@string/popular_domain_0"
@@ -169,17 +168,18 @@
+           <Key android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"
+             android:iconPreview="@drawable/sym_keyboard_feedback_return"
+             android:keyWidth="20%p"/>
-         <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-           android:iconPreview="@drawable/sym_keyboard_feedback_done"
-           android:keyWidth="15%p" android:keyEdgeFlags="right"/>
+         <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
+           android:popupKeyboard="@xml/kbd_popup_template"
+           android:popupCharacters="_"
+           android:keyWidth="20%p" android:keyEdgeFlags="right"/>
+     </Row>
+
+     <Row android:keyboardMode="@+id/mode_im" android:rowEdgeFlags="bottom">
-       <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
-         android:popupKeyboard="@xml/kbd_popup_template"
-         android:popupCharacters="_"
-         android:keyWidth="20%p" android:keyEdgeFlags="left"
-         android:state_single="true"/>
+       <Key
+         android:codes="-4"
+         android:keyIcon="@drawable/sym_keyboard_done"
+         android:iconPreview="@drawable/sym_keyboard_feedback_done"
+         android:keyWidth="15%p" android:keyEdgeFlags="left" />
+         <Key android:keyLabel="," android:keyWidth="10%p"/>
+         <Key android:codes="32" android:keyIcon="@drawable/sym_keyboard_space"
+           android:iconPreview="@drawable/sym_keyboard_feedback_space"
@@ -193,10 +193,10 @@
+           android:keyLabel=":-)" android:keyOutputText=":-) "
+           android:popupKeyboard="@xml/popup_smileys"
+           android:keyWidth="20%p" />
-       <Key
-         android:codes="-4"
-         android:keyIcon="@drawable/sym_keyboard_done"
-         android:iconPreview="@drawable/sym_keyboard_feedback_done"
-         android:keyWidth="15%p" android:keyEdgeFlags="right" />
+         <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
+           android:popupKeyboard="@xml/kbd_popup_template"
+           android:popupCharacters="_"
+           android:keyWidth="20%p" android:keyEdgeFlags="right"
+           android:state_single="true"/>
+     </Row>
+ </Keyboard>
diff --git a/source/res/xml/kbd_qwerty_variants.xml b/source/res/xml/kbd_qwerty_variants.xml
index f369d87..bd50c14 100644
--- a/source/res/xml/kbd_qwerty_variants.xml
+++ b/source/res/xml/kbd_qwerty_variants.xml
@@ -110,10 +110,9 @@
+ </Row>
+
+ <Row android:keyboardMode="@+id/mode_normal" android:rowEdgeFlags="bottom">
-       <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
-         android:popupKeyboard="@xml/kbd_popup_template"
-         android:popupCharacters="_"
-         android:keyWidth="20%p" android:keyEdgeFlags="left"/>
+       <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+         android:iconPreview="@drawable/sym_keyboard_feedback_done"
+         android:keyWidth="15%p" android:keyEdgeFlags="left"/>
+         <Key android:keyLabel="," android:keyWidth="10%p" />
+         <Key android:codes="32" android:keyIcon="@drawable/sym_keyboard_space"

```



```

        android:iconPreview="@drawable/sym_keyboard_feedback_space"
@@ -123,16 +122,16 @@
        <Key android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"
            android:iconPreview="@drawable/sym_keyboard_feedback_return"
            android:keyWidth="20%p" />
- <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-   android:iconPreview="@drawable/sym_keyboard_feedback_done"
-   android:keyWidth="15%p" android:keyEdgeFlags="right"/>
+ <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
+   android:popupKeyboard="@xml/kbd_popup_template"
+   android:popupCharacters="_"
+   android:keyWidth="20%p" android:keyEdgeFlags="right"/>
</Row>

<Row android:keyboardMode="@+id/mode_url" android:rowEdgeFlags="bottom">
- <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
-   android:popupKeyboard="@xml/kbd_popup_template"
-   android:popupCharacters="_"
-   android:keyWidth="20%p" android:keyEdgeFlags="left"/>
+ <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+   android:iconPreview="@drawable/sym_keyboard_feedback_done"
+   android:keyWidth="15%p" android:keyEdgeFlags="left"/>
+ <!-- <Key android:keyLabel="@string/popular_domain_0"
+   android:keyOutputText="@string/popular_domain_0"
+   android:popupKeyboard="@xml/popup_domains"
@@ -146,16 +145,16 @@
        <Key android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"
            android:iconPreview="@drawable/sym_keyboard_feedback_return"
            android:keyWidth="20%p" />
- <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-   android:iconPreview="@drawable/sym_keyboard_feedback_done"
-   android:keyWidth="15%p" android:keyEdgeFlags="right"/>
</Row>

<Row android:keyboardMode="@+id/mode_email" android:rowEdgeFlags="bottom">
<Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
    android:popupKeyboard="@xml/kbd_popup_template"
    android:popupCharacters="_"
-   android:keyWidth="20%p" android:keyEdgeFlags="left"/>
+   android:keyWidth="20%p" android:keyEdgeFlags="right"/>
</Row>

+ <Row android:keyboardMode="@+id/mode_email" android:rowEdgeFlags="bottom">
+ <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+   android:iconPreview="@drawable/sym_keyboard_feedback_done"
+   android:keyWidth="15%p" android:keyEdgeFlags="left"/>
+   <Key android:keyLabel="\@" android:keyWidth="15%p"/>
+   <!-- <Key android:keyLabel="@string/popular_domain_0"
+     android:keyOutputText="@string/popular_domain_0"
@@ -169,17 +168,17 @@
        <Key android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"
            android:iconPreview="@drawable/sym_keyboard_feedback_return"
            android:keyWidth="20%p" />
- <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-   android:iconPreview="@drawable/sym_keyboard_feedback_done"
-   android:keyWidth="15%p" android:keyEdgeFlags="right"/>
</Row>

<Row android:keyboardMode="@+id/mode_im" android:rowEdgeFlags="bottom">
<Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
    android:popupKeyboard="@xml/kbd_popup_template"
    android:popupCharacters="_"
-   android:keyWidth="20%p" android:keyEdgeFlags="left"
-   android:state_single="true"/>
+   android:keyWidth="20%p" android:keyEdgeFlags="right"/>
</Row>

+ <Row android:keyboardMode="@+id/mode_im" android:rowEdgeFlags="bottom">
+ <Key android:codes="-4"
+   android:keyIcon="@drawable/sym_keyboard_done"
+   android:iconPreview="@drawable/sym_keyboard_feedback_done"
+   android:keyWidth="15%p" android:keyEdgeFlags="left" />
+   <Key android:keyLabel="," android:keyWidth="10%p"/>

```

```

    <Key android:codes="32" android:keyIcon="@drawable/sym_keyboard_space"
        android:iconPreview="@drawable/sym_keyboard_feedback_space"
@@ -193,10 +192,10 @@
        android:keyLabel=":-)" android:keyOutputText=":-)" "
        android:popupKeyboard="@xml/popup_smileys"
        android:keyWidth="20%p" />
- <Key
-   android:codes="-4"
-   android:keyIcon="@drawable/sym_keyboard_done"
-   android:iconPreview="@drawable/sym_keyboard_feedback_done"
-   android:keyWidth="15%p" android:keyEdgeFlags="right" />
+ <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
+   android:popupKeyboard="@xml/kbd_popup_template"
+   android:popupCharacters="_"
+   android:keyWidth="20%p" android:keyEdgeFlags="right"
+   android:state_single="true"/>
    </Row>
  </Keyboard>
diff --git a/source/res/xml/kbd_qwerty_voice.xml b/source/res/xml/kbd_qwerty_voice.xml
index 839e3ac..0b82eb8 100755
--- a/source/res/xml/kbd_qwerty_voice.xml
+++ b/source/res/xml/kbd_qwerty_voice.xml
@@ -116,10 +116,9 @@
    android:keyboardMode="@+id/mode_normal"
    android:rowEdgeFlags="bottom">
  <Key
-   android:codes="-2" android:keyLabel="@string/label_symbol_key"
-   android:popupKeyboard="@xml/kbd_popup_template"
-   android:popupCharacters="_"
-   android:keyWidth="16%p" android:keyEdgeFlags="left"/>
+   android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+   android:iconPreview="@drawable/sym_keyboard_feedback_done"
+   android:keyWidth="14%p" android:keyEdgeFlags="left"/>
  <Key
    android:codes="@integer/key_voice"
    android:keyIcon="@drawable/sym_keyboard_mic"
@@ -139,20 +138,19 @@
    android:iconPreview="@drawable/sym_keyboard_feedback_return"
    android:keyWidth="16%p" />
  <Key
-   android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-   android:iconPreview="@drawable/sym_keyboard_feedback_done"
-   android:keyWidth="14%p" android:keyEdgeFlags="right"/>
+   android:codes="-2" android:keyLabel="@string/label_symbol_key"
+   android:popupKeyboard="@xml/kbd_popup_template"
+   android:popupCharacters="_"
+   android:keyWidth="16%p" android:keyEdgeFlags="right"/>
  </Row>

  <Row
    android:keyboardMode="@+id/mode_url"
    android:rowEdgeFlags="bottom">
  <Key
-   android:codes="-2"
-   android:keyLabel="@string/label_symbol_key"
-   android:popupKeyboard="@xml/kbd_popup_template"
-   android:popupCharacters="_" android:keyWidth="16%p"
-   android:keyEdgeFlags="left" />
+   android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+   android:iconPreview="@drawable/sym_keyboard_feedback_done"
+   android:keyWidth="14%p" android:keyEdgeFlags="left" />
  <Key
    android:codes="@integer/key_voice"
    android:keyIcon="@drawable/sym_keyboard_mic"
@@ -177,18 +175,20 @@
    android:iconPreview="@drawable/sym_keyboard_feedback_return"
    android:keyWidth="16%p" />
  <Key
-   android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-   android:iconPreview="@drawable/sym_keyboard_feedback_done"
-   android:keyWidth="14%p" android:keyEdgeFlags="right" />
+   android:codes="-2"
+   android:keyLabel="@string/label_symbol_key"

```

```

+     android:popupKeyboard="@xml/kbd_popup_template"
+     android:popupCharacters="_" android:keyWidth="16%p"
+     android:keyEdgeFlags="right" />
</Row>

<Row
  android:keyboardMode="@+id/mode_email"
  android:rowEdgeFlags="bottom">
-   <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
-     android:popupKeyboard="@xml/kbd_popup_template"
-     android:popupCharacters="_"
-     android:keyWidth="16%p" android:keyEdgeFlags="left" />
+   <Key
+     android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+     android:iconPreview="@drawable/sym_keyboard_feedback_done"
+     android:keyWidth="14%p" android:keyEdgeFlags="left" />
  <Key
    android:codes="@integer/key_voice"
    android:keyIcon="@drawable/sym_keyboard_mic"
@@ -212,22 +212,20 @@
    android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"
    android:iconPreview="@drawable/sym_keyboard_feedback_return"
    android:keyWidth="16%p" />
-   <Key
-     android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-     android:iconPreview="@drawable/sym_keyboard_feedback_done"
-     android:keyWidth="14%p" android:keyEdgeFlags="right" />
+   <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
+     android:popupKeyboard="@xml/kbd_popup_template"
+     android:popupCharacters="_"
+     android:keyWidth="16%p" android:keyEdgeFlags="right" />
</Row>

```

```

<Row
  android:keyboardMode="@+id/mode_im"
  android:rowEdgeFlags="bottom">
  <Key
-   android:codes="-2"
-   android:keyLabel="@string/label_symbol_key"
-   android:popupKeyboard="@xml/kbd_popup_template"
-   android:popupCharacters="_"
-   android:keyWidth="16%p"
-   android:keyEdgeFlags="left" />
+   android:codes="-4"
+   android:keyIcon="@drawable/sym_keyboard_done"
+   android:iconPreview="@drawable/sym_keyboard_feedback_done"
+   android:keyWidth="14%p" android:keyEdgeFlags="left" />
  <Key
    android:codes="@integer/key_voice"
    android:keyIcon="@drawable/sym_keyboard_mic"
@@ -252,10 +250,12 @@
    android:popupKeyboard="@xml/popup_smileys"
    android:keyWidth="16%p" />
  <Key
-   android:codes="-4"
-   android:keyIcon="@drawable/sym_keyboard_done"
-   android:iconPreview="@drawable/sym_keyboard_feedback_done"
-   android:keyWidth="14%p" android:keyEdgeFlags="right" />
+   android:codes="-2"
+   android:keyLabel="@string/label_symbol_key"
+   android:popupKeyboard="@xml/kbd_popup_template"
+   android:popupCharacters="_"
+   android:keyWidth="16%p"
+   android:keyEdgeFlags="right" />
</Row>
</Keyboard>

```

```

diff --git a/source/res/xml/kbd_qwerty_voice_variants.xml b/source/res/xml/kbd_qwerty_voice_variants.xml
index 1182370..05bcad5 100755
--- a/source/res/xml/kbd_qwerty_voice_variants.xml
+++ b/source/res/xml/kbd_qwerty_voice_variants.xml
@@ -116,10 +116,9 @@
    android:keyboardMode="@+id/mode_normal"

```

```

android:rowEdgeFlags="bottom">
<Key
-   android:codes="-2" android:keyLabel="@string/label_symbol_key"
-   android:popupKeyboard="@xml/kbd_popup_template"
-   android:popupCharacters="_"
-   android:keyWidth="16%p" android:keyEdgeFlags="left"/>
+   android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+   android:iconPreview="@drawable/sym_keyboard_feedback_done"
+   android:keyWidth="14%p" android:keyEdgeFlags="left"/>
<Key
  android:codes="@integer/key_voice"
  android:keyIcon="@drawable/sym_keyboard_mic"
@@ -139,20 +138,20 @@
  android:iconPreview="@drawable/sym_keyboard_feedback_return"
  android:keyWidth="16%p" />
<Key
-   android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-   android:iconPreview="@drawable/sym_keyboard_feedback_done"
-   android:keyWidth="14%p" android:keyEdgeFlags="right"/>
+   android:codes="-2" android:keyLabel="@string/label_symbol_key"
+   android:popupKeyboard="@xml/kbd_popup_template"
+   android:popupCharacters="_"
+   android:keyWidth="16%p" android:keyEdgeFlags="right"/>
+
</Row>

<Row
  android:keyboardMode="@+id/mode_url"
  android:rowEdgeFlags="bottom">
  <Key
-   android:codes="-2"
-   android:keyLabel="@string/label_symbol_key"
-   android:popupKeyboard="@xml/kbd_popup_template"
-   android:popupCharacters="_" android:keyWidth="16%p"
-   android:keyEdgeFlags="left" />
+   android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+   android:iconPreview="@drawable/sym_keyboard_feedback_done"
+   android:keyWidth="14%p" android:keyEdgeFlags="left" />
  <Key
    android:codes="@integer/key_voice"
    android:keyIcon="@drawable/sym_keyboard_mic"
@@ -177,18 +176,22 @@
    android:iconPreview="@drawable/sym_keyboard_feedback_return"
    android:keyWidth="16%p" />
  <Key
-   android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-   android:iconPreview="@drawable/sym_keyboard_feedback_done"
-   android:keyWidth="14%p" android:keyEdgeFlags="right" />
+   android:codes="-2"
+   android:keyLabel="@string/label_symbol_key"
+   android:popupKeyboard="@xml/kbd_popup_template"
+   android:popupCharacters="_" android:keyWidth="16%p"
+   android:keyEdgeFlags="right" />
+
</Row>

<Row
  android:keyboardMode="@+id/mode_email"
  android:rowEdgeFlags="bottom">
-   <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
-   android:popupKeyboard="@xml/kbd_popup_template"
-   android:popupCharacters="_"
-   android:keyWidth="16%p" android:keyEdgeFlags="left"/>
+   <Key
+   android:codes="-4"
+   android:keyIcon="@drawable/sym_keyboard_done"
+   android:iconPreview="@drawable/sym_keyboard_feedback_done"
+   android:keyWidth="14%p" android:keyEdgeFlags="left" />
  <Key
    android:codes="@integer/key_voice"
    android:keyIcon="@drawable/sym_keyboard_mic"
@@ -212,22 +215,22 @@
    android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"

```

```

    android:iconPreview="@drawable/sym_keyboard_feedback_return"
    android:keyWidth="16%p"/>
-   <Key
-       android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-       android:iconPreview="@drawable/sym_keyboard_feedback_done"
-       android:keyWidth="14%p" android:keyEdgeFlags="right"/>
+   <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
+       android:popupKeyboard="@xml/kbd_popup_template"
+       android:popupCharacters="_"
+       android:keyWidth="16%p" android:keyEdgeFlags="right"/>
+
+
</Row>

<Row
    android:keyboardMode="@+id/mode_im"
    android:rowEdgeFlags="bottom">
    <Key
-       android:codes="-2"
-       android:keyLabel="@string/label_symbol_key"
-       android:popupKeyboard="@xml/kbd_popup_template"
-       android:popupCharacters="_"
-       android:keyWidth="16%p"
-       android:keyEdgeFlags="left" />
+       android:codes="-4"
+       android:keyIcon="@drawable/sym_keyboard_done"
+       android:iconPreview="@drawable/sym_keyboard_feedback_done"
+       android:keyWidth="14%p" android:keyEdgeFlags="left" />
    <Key
        android:codes="@integer/key_voice"
        android:keyIcon="@drawable/sym_keyboard_mic"
@@ -252,10 +255,12 @@
        android:popupKeyboard="@xml/popup_smileys"
        android:keyWidth="16%p" />
    <Key
-       android:codes="-4"
-       android:keyIcon="@drawable/sym_keyboard_done"
-       android:iconPreview="@drawable/sym_keyboard_feedback_done"
-       android:keyWidth="14%p" android:keyEdgeFlags="right" />
+       android:codes="-2"
+       android:keyLabel="@string/label_symbol_key"
+       android:popupKeyboard="@xml/kbd_popup_template"
+       android:popupCharacters="_"
+       android:keyWidth="16%p"
+       android:keyEdgeFlags="right" />
    </Row>
</Keyboard>

diff --git a/source/res/xml/kbd_symbols.xml b/source/res/xml/kbd_symbols.xml
index 96a22d8..78e385b 100755
--- a/source/res/xml/kbd_symbols.xml
+++ b/source/res/xml/kbd_symbols.xml
@@ -122,10 +122,9 @@
    </Row>

    <Row android:rowEdgeFlags="bottom">
-       <Key android:codes="-2" android:keyLabel="@string/label_alpha_key"
-           android:popupKeyboard="@xml/kbd_popup_template"
-           android:popupCharacters="_"
-           android:keyWidth="20%p" android:keyEdgeFlags="left"/>
+       <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+           android:iconPreview="@drawable/sym_keyboard_feedback_done"
+           android:keyWidth="15%p" android:keyEdgeFlags="left"/>
+       <Key android:keyLabel="," android:keyWidth="10%p"
+           android:popupKeyboard="@xml/kbd_popup_template"
+           android:popupCharacters="," />
@@ -136,10 +135,11 @@
        android:isRepeatable="true"/>
        <Key android:keyLabel="." android:keyWidth="10%p" />
        <Key android:codes="10" android:keyIcon="@drawable/sym_keyboard_return" android:keyWidth="20%p"
-           android:iconPreview="@drawable/sym_keyboard_feedback_return"
-           />
-       <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"

```

```

-     android:iconPreview="@drawable/sym_keyboard_feedback_done"
-     android:keyWidth="15%p" android:keyEdgeFlags="right"/>
+         android:iconPreview="@drawable/sym_keyboard_feedback_return" />
+     <Key android:codes="-2" android:keyLabel="@string/label_alpha_key"
+         android:popupKeyboard="@xml/kbd_popup_template"
+         android:popupCharacters="_"
+         android:keyWidth="20%p" android:keyEdgeFlags="right"/>
+
+ </Row>
</Keyboard>
\ No newline at end of file
diff --git a/source/res/xml/kbd_symbols_shift.xml b/source/res/xml/kbd_symbols_shift.xml
index 6642bd3..d4dce5e 100755
--- a/source/res/xml/kbd_symbols_shift.xml
+++ b/source/res/xml/kbd_symbols_shift.xml
@@ -86,10 +86,9 @@
</Row>

<Row android:rowEdgeFlags="bottom">
-     <Key android:codes="-2" android:keyLabel="@string/label_alpha_key" android:keyWidth="20%p"
-         android:popupKeyboard="@xml/kbd_popup_template"
-         android:popupCharacters="_"
-         android:keyEdgeFlags="left"/>
+ <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+     android:iconPreview="@drawable/sym_keyboard_feedback_done"
+     android:keyWidth="15%p" android:keyEdgeFlags="left"/>
+     <Key android:keyLabel="," android:keyWidth="10%p" />
+     <Key android:codes="32" android:keyIcon="@drawable/sym_keyboard_space"
+         android:keyWidth="25%p"
@@ -100,8 +99,10 @@
+         android:keyWidth="20%p"
+         android:iconPreview="@drawable/sym_keyboard_feedback_return"
+     />
- <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-     android:iconPreview="@drawable/sym_keyboard_feedback_done"
-     android:keyWidth="15%p" android:keyEdgeFlags="right"/>
+     <Key android:codes="-2" android:keyLabel="@string/label_alpha_key" android:keyWidth="20%p"
+         android:popupKeyboard="@xml/kbd_popup_template"
+         android:popupCharacters="_"
+         android:keyEdgeFlags="right"/>
+
+ </Row>
</Keyboard>

```

```

commit ece30f935ac1c1d74a76ecab02f65402b5f463a1
Author: Ankit Daftery <ankitdaf@gmail.com>
Date: Mon Mar 26 07:33:19 2012 +0530

```

Changed string to "Tecla Shield Connection Status"

```

diff --git a/source/res/values/strings.xml b/source/res/values/strings.xml
index dffe8df..aa7c2a4 100644
--- a/source/res/values/strings.xml
+++ b/source/res/values/strings.xml
@@ -284,7 +284,7 @@
<string name="no_voice_actions_installed">Voice Actions is not installed!</string>

<!-- Tecla: Titles and labels -->
- <string name="sep_label">Tecla Shield Status</string>
+ <string name="sep_label">Tecla Shield Connection Status</string>
<string name="voice_input">Tecla Voice Input</string>
<string name="configuring_tecla">Configuring Tecla...</string>

```

```

commit 9985bcdb69e0ca85acfb2ea17cb6dd2631c180fa
Author: Ankit Daftery <ankitdaf@gmail.com>
Date: Sun Mar 25 09:11:54 2012 +0530

```

Fixed issue #30

```

diff --git a/source/res/values/strings.xml b/source/res/values/strings.xml
index 8c98977..dffe8df 100644
--- a/source/res/values/strings.xml

```



```
+++ b/source/res/values/strings.xml
@@ -284,7 +284,7 @@
 <string name="no_voice_actions_installed">Voice Actions is not installed!</string>

 <!-- Tecla: Titles and labels -->
- <string name="sep_label">Switch event provider</string>
+ <string name="sep_label">Tecla Shield Status</string>
 <string name="voice_input">Tecla Voice Input</string>
 <string name="configuring_tecla">Configuring Tecla...</string>
```

----- BRANCH DICTATION -----

```
commit dc6fc45938aa2340b1eb9de651d4b9c7b1d1c82d (HEAD, upstream/dictation, origin/dictation, dictation)
Merge: 820756d 3a04864
Author: Ankit Daftery <ankitdaf@gmail.com>
Date: Tue Aug 21 22:45:15 2012 +0530
```

Merge branch 'develop' of github.com:idrc/TeclaAccess into dictation

Conflicts:
source/src/ca/idi/tekla/TeclaPrefs.java

```
commit 820756dfe468f75d021024a0b784bb810e0372bd
Merge: 2afc520 1437fb0
Author: Ankit Daftery <ankitdaf@gmail.com>
Date: Tue Aug 21 10:04:09 2012 -0700
```

Merge pull request #110 from AKdroid/dictation

Disabling the connect to desktop preference will close the connection an...

```
commit 2afc5209a199a32f23c1950192d0cfb2d6a4a463
Author: Ankit Daftery <ankitdaf@gmail.com>
Date: Mon Aug 20 11:31:30 2012 +0530
```

Made Send to PC key Lockable

```
diff --git a/source/res/xml/kbd_navigation.xml b/source/res/xml/kbd_navigation.xml
index ea307fc..5a7f5ca 100644
```

```
--- a/source/res/xml/kbd_navigation.xml
+++ b/source/res/xml/kbd_navigation.xml
@@ -134,6 +134,7 @@
     android:keyWidth="25%p" />
     <Key
+         android:codes="@integer/key_sendto_pc"
+         android:isSticky="true"
         android:keyLabel="Send to PC"
         android:keyEdgeFlags="right"
         android:keyWidth="50%p" />
```

```
diff --git a/source/src/ca/idi/tekla/ime/TeclaIME.java b/source/src/ca/idi/tekla/ime/TeclaIME.java
index 9b96172..cd5e673 100644
```

```
--- a/source/src/ca/idi/tekla/ime/TeclaIME.java
+++ b/source/src/ca/idi/tekla/ime/TeclaIME.java
@@ -123,6 +123,7 @@ public class TeclaIME extends InputMethodService
     private Keyboard.Key mSpaceKey;
     private Keyboard.Key mCapsLockKey;
     private Keyboard.Key mRepeatLockKey;
+    private Keyboard.Key mSendtoPCKey;
     private int mCapsLockKeyIndex;
     private int mSpaceKeyIndex;
     private int mRepeatedKey;
@@ -862,7 +863,6 @@ public class TeclaIME extends InputMethodService
     break;
     case TeclaKeyboardView.KEYCODE_HIDE_SECNAV_VOICE:
         mKeyboardSwitcher.setKeyboardMode(KeyboardSwitcher.MODE_NAV, 0);
-        //TODO:toggle the TeclaApp.mSendToPC lock
     break;
     case TeclaKeyboardView.KEYCODE_DICTATION:
         //TODO: Add dictation actions here
@@ -876,32 +876,20 @@ public class TeclaIME extends InputMethodService
     }
     TeclaApp.dict_lock=TeclaApp.mSendToPC;
```

```

TeclaApp.mSendToPC=false;
- Log.v("mSendToPC",""+TeclaApp.mSendToPC);
- TeclaApp.dictation_lock=new Object();
-
+ if (TeclaApp.DEBUG) Log.d ("mSendToPC",""+TeclaApp.mSendToPC);
+ TeclaApp.dictation_lock=new Object();
TeclaApp.getInstance().startVoiceDictation(RecognizerIntent.EXTRA_LANGUAGE_MODEL);
-
- /*synchronized(TeclaApp.dictation_lock){
-     try {
-         TeclaApp.dictation_lock.wait();
-     } catch (InterruptedException e) {
-         // TODO Auto-generated catch block
-         e.printStackTrace();
-     }
- }*/
-
- break;
- case TeclaKeyboardView.KEYCODE_SEND_TO_PC:
+ case TeclaKeyboardView.KEYCODE_SEND_TO_PC:
//TODO: Add send to pc handling here
if(TeclaApp.desktop==null)
    TeclaApp.desktop=new TeclaDesktopClient(TeclaApp.getInstance());
TeclaApp.mSendToPC=!TeclaApp.mSendToPC;
- Log.v("voice",""+TeclaApp.desktop.isConnected()+" "+TeclaApp.mSendToPC+"
"+wifisearcherthread.isAlive()+" "+TeclaApp.connect_to_desktop);
+ if (TeclaApp.DEBUG) Log.d("voice",""+TeclaApp.desktop.isConnected()+" "+TeclaApp.mSendToPC+"
"+wifisearcherthread.isAlive()+" "+TeclaApp.connect_to_desktop);
if(TeclaApp.mSendToPC && TeclaApp.connect_to_desktop && !TeclaApp.desktop.isConnected()&&
!wifisearcherthread.isAlive())
{
- Log.v("connection","entering new thread");
+ if (TeclaApp.DEBUG) Log.d("connection","entering new thread");
wifisearcherthread=new Thread(wificonnector);
wifisearcherthread.start();
}
diff --git a/source/src/ca/idi/tekla/ime/TeclaKeyboard.java
b/source/src/ca/idi/tekla/ime/TeclaKeyboard.java
index f26628d..a125bcb 100644
--- a/source/src/ca/idi/tekla/ime/TeclaKeyboard.java
+++ b/source/src/ca/idi/tekla/ime/TeclaKeyboard.java
@@ -40,6 +40,7 @@ public class TeclaKeyboard extends Keyboard {
    static final int KEYCODE_MORSE_CAPSKEY = 559;
    static final int KEYCODE_MORSE_DELKEY = 67;
    static final int KEYCODE_REPEAT_LOCK = -8;
+   static final int KEYCODE_SEND_TO_PC = -11;

    private Drawable mShiftLockIcon;
    private Drawable mShiftLockPreviewIcon;
@@ -53,11 +54,13 @@ public class TeclaKeyboard extends Keyboard {
    private Key mSpaceKey;
    private Key mCapsLockKey;
    private Key mRepeatLockKey;
+   private Key mSendtoPCKey;
    private static final int SHIFT_OFF = 0;
    private static final int SHIFT_ON = 1;
    private static final int SHIFT_LOCKED = 2;

    private int mShiftState = SHIFT_OFF;
+
    static int sSpacebarVerticalCorrection;

@@ -106,6 +109,9 @@ public class TeclaKeyboard extends Keyboard {
    else if (key.codes[0] == KEYCODE_REPEAT_LOCK) {
        mRepeatLockKey = key;
    }
+   else if (key.codes[0] == KEYCODE_SEND_TO_PC) {
+       mSendtoPCKey = key;
+   }
    return key;

```



```
}
```

```
@@ -121,6 +127,10 @@ public class TeclaKeyboard extends Keyboard {
    public Key getRepeatLockKey() {
        return this.mRepeatLockKey;
    }
+
+ public Key getSendtoPCKey() {
+     return this.mSendtoPCKey;
+ }
+ /**
+  * Returns a reference to the Morse Caps Lock key
+  * (Morse mode only)
diff --git a/source/src/ca/idi/tekla/ime/TeclaKeyboardView.java
b/source/src/ca/idi/tekla/ime/TeclaKeyboardView.java
index 8f291c0..0d15794 100644
--- a/source/src/ca/idi/tekla/ime/TeclaKeyboardView.java
+++ b/source/src/ca/idi/tekla/ime/TeclaKeyboardView.java
@@ -186,8 +186,8 @@ public class TeclaKeyboardView extends KeyboardView {
    public void toggleStickyKey(Key stickyKey)
    {
        int stickyKeyIndex = this.getKeyboard().getKeys().indexOf(stickyKey);
-        stickyKey.onPressed();
-        stickyKey.onReleased(true);
+        if(stickyKey.on) stickyKey.on = false;
+        else stickyKey.on=true;
        this.invalidateKey(stickyKeyIndex);
    }
}
```

```
commit de84eb3e7e82046086cf50bedd2a93730185ec71
Author: Ankit Daftery <ankitdaf@gmail.com>
Date: Sun Aug 19 18:31:12 2012 +0530
```

Added visual toggle support for repeat key,extensible to others

```
diff --git a/source/project.properties b/source/project.properties
new file mode 100644
index 0000000..0afa8c8
--- /dev/null
+++ b/source/project.properties
@@ -0,0 +1,14 @@
+# This file is automatically generated by Android Tools.
+# Do not modify this file -- YOUR CHANGES WILL BE ERASED!
+#
+# This file must be checked in Version Control Systems.
+#
+# To customize properties used by the Ant build system use,
+# "ant.properties", and override values to adapt the script to your
+# project structure.
+
+# Project target.
+target=android-5
+android.library.reference.1=../sdk
+android.library.reference.2=../../InputAccessLib/library
+
diff --git a/source/res/drawable-mdpi/nav_keyboard_feedback_repeat_locked.png b/source/res/drawable-
mdpi/nav_keyboard_feedback_repeat_locked.png
new file mode 100644
index 0000000..24eb2ca
Binary files /dev/null and b/source/res/drawable-mdpi/nav_keyboard_feedback_repeat_locked.png differ
diff --git a/source/res/drawable-mdpi/nav_keyboard_repeat.png b/source/res/drawable-
mdpi/nav_keyboard_repeat.png
index 54ad0b9..05ce35b 100644
Binary files a/source/res/drawable-mdpi/nav_keyboard_repeat.png and b/source/res/drawable-
mdpi/nav_keyboard_repeat.png differ
diff --git a/source/res/drawable-mdpi/nav_keyboard_repeat_locked.png b/source/res/drawable-
mdpi/nav_keyboard_repeat_locked.png
new file mode 100644
index 0000000..17428fb
Binary files /dev/null and b/source/res/drawable-mdpi/nav_keyboard_repeat_locked.png differ
diff --git a/source/res/xml/kbd_navigation.xml b/source/res/xml/kbd_navigation.xml
index 98b2e79..ea307fc 100644
```

```

--- a/source/res/xml/kbd_navigation.xml
+++ b/source/res/xml/kbd_navigation.xml
@@ -128,6 +128,7 @@
    android:keyWidth="25%p" />
    <Key
      android:codes="@integer/key_repeat_lock"
+     android:isSticky="true"
      android:iconPreview="@drawable/nav_keyboard_feedback_repeat"
      android:keyIcon="@drawable/nav_keyboard_repeat"
      android:keyWidth="25%p"/>
@@ -141,9 +142,9 @@
    android:keyboardMode="@+id/mode_secnav_voice"
    android:rowEdgeFlags="bottom" >
    <Key
-     android:codes="@integer/key_done"
-     android:iconPreview="@drawable/sym_keyboard_feedback_show"
-     android:keyIcon="@drawable/sym_keyboard_show"
+     android:codes="@integer/hide_secnav_kbd"
+     android:iconPreview="@drawable/sym_keyboard_feedback_done"
+     android:keyIcon="@drawable/sym_keyboard_done"
      android:keyEdgeFlags="left"
      android:keyWidth="12%p" />
    <Key
@@ -185,7 +186,7 @@
    android:keyboardMode="@+id/mode_voice"
    android:rowEdgeFlags="bottom" >
    <Key
-     android:codes="@integer/key_done"
+     android:codes="-4"
      android:iconPreview="@drawable/sym_keyboard_feedback_show"
      android:keyIcon="@drawable/sym_keyboard_show"
      android:keyEdgeFlags="left"
diff --git a/source/src/ca/idi/tekla/ime/KeyboardSwitcher.java
b/source/src/ca/idi/tekla/ime/KeyboardSwitcher.java
index ea9f6c5..40b6d4a 100644
--- a/source/src/ca/idi/tekla/ime/KeyboardSwitcher.java
+++ b/source/src/ca/idi/tekla/ime/KeyboardSwitcher.java
@@ -170,6 +170,7 @@ public class KeyboardSwitcher {
    mIMEView.setKeyboard(keyboard);
    keyboard.setShifted(false);
    keyboard.setShiftLocked(keyboard.isShiftLocked());
+   //keyboard.setRepeatLocked(keyboard.isRepeatLocked());
    keyboard.setImeOptions(mContext.getResources(), mMode, imeOptions);
    keyboard.updateVariantsState();

diff --git a/source/src/ca/idi/tekla/ime/TeclaIME.java
b/source/src/ca/idi/tekla/ime/TeclaIME.java
index 746648b..9b96172 100644
--- a/source/src/ca/idi/tekla/ime/TeclaIME.java
+++ b/source/src/ca/idi/tekla/ime/TeclaIME.java
@@ -122,6 +122,7 @@ public class TeclaIME extends InputMethodService
    private TeclaMorse mTeclaMorse;
    private Keyboard.Key mSpaceKey;
    private Keyboard.Key mCapsLockKey;
+   private Keyboard.Key mRepeatLockKey;
    private int mCapsLockKeyIndex;
    private int mSpaceKeyIndex;
    private int mRepeatedKey;
@@ -460,7 +461,6 @@ public class TeclaIME extends InputMethodService
    mLastKeyboardMode = thisKBMode;
    evaluateStartScanning();
  }
-
-   initMorseKeyboard();
-   if (mKeyboardSwitcher.isMorseMode()) {
-     mTeclaMorse.getMorseChart().restore();
@@ -862,10 +862,8 @@ public class TeclaIME extends InputMethodService
    break;
    case TeclaKeyboardView.KEYCODE_HIDE_SECNAV_VOICE:
      mKeyboardSwitcher.setKeyboardMode(KeyboardSwitcher.MODE_NAV, 0);
-     //toggle the TeclaApp.mSendToPC lock
-
+     //TODO:toggle the TeclaApp.mSendToPC lock
    break;

```

```

-
    case TeclaKeyboardView.KEYCODE_DICTATION:
        //TODO: Add dictation actions here
        if(TeclaApp.desktop==null)
@@ -923,6 +921,9 @@ public class TeclaIME extends InputMethodService
    if (mRepeatingKey == 0) {
        mRepeatingKey = primaryCode;
        handleRepeatedKey(mRepeatingKey);
+
        //TODO: Figure out if the "changeKeyboardMode" is really needed, is causing
+
        // an undesirable change of keyboard mode, the break added below fixes it temporarily
+
        break;
    }
    if (! wasAutoRepeating)
    {
@@ -943,7 +944,6 @@ public class TeclaIME extends InputMethodService
    if (mKeyboardSwitcher.onKey(primaryCode)) {
        changeKeyboardMode();
    }
-
    evaluateNavKbdTimeout();
}

@@ -1828,6 +1828,8 @@ public class TeclaIME extends InputMethodService

    public void stopRepeating() {
        pauseRepeating();
+
        mRepeatLockKey = mIMEView.getKeyboard().getRepeatLockKey();
+
        mIMEView.toggleStickyKey(mRepeatLockKey);
    }

    /**
@@ -2173,7 +2175,6 @@ public class TeclaIME extends InputMethodService
        mRepeating = true;
    } else {
        mRepeating = false;
-
        stopRepeating();
    }
}
};
diff --git a/source/src/ca/idi/tekla/ime/TeclaKeyboard.java
b/source/src/ca/idi/tekla/ime/TeclaKeyboard.java
index 9a05ed6..f26628d 100644
--- a/source/src/ca/idi/tekla/ime/TeclaKeyboard.java
+++ b/source/src/ca/idi/tekla/ime/TeclaKeyboard.java
@@ -39,15 +39,20 @@ public class TeclaKeyboard extends Keyboard {
    static final int KEYCODE_MORSE_SPACEKEY = 562;
    static final int KEYCODE_MORSE_CAPSKEY = 559;
    static final int KEYCODE_MORSE_DELKEY = 67;
+
    static final int KEYCODE_REPEAT_LOCK = -8;

    private Drawable mShiftLockIcon;
    private Drawable mShiftLockPreviewIcon;
    private Drawable mOldShiftIcon;
    private Drawable mOldShiftPreviewIcon;
+
    private Drawable mRepeatLockIcon;
+
    private Drawable mRepeatLockPreviewIcon;
+
    private Drawable mOldRepeatIcon;
    private Key mShiftKey;
    private Key mEnterKey;
    private Key mSpaceKey;
- private Key mCapsLockKey;
+ private Key mCapsLockKey;
+ private Key mRepeatLockKey;
    private static final int SHIFT_OFF = 0;
    private static final int SHIFT_ON = 1;
    private static final int SHIFT_LOCKED = 2;
@@ -66,9 +71,14 @@ public class TeclaKeyboard extends Keyboard {
    Resources res = context.getResources();
    mShiftLockIcon = res.getDrawable(R.drawable.sym_keyboard_shift_locked);
    mShiftLockPreviewIcon = res.getDrawable(R.drawable.sym_keyboard_feedback_shift_locked);
+
    mRepeatLockIcon = res.getDrawable(R.drawable.nav_keyboard_repeat_locked);
+
    mRepeatLockPreviewIcon = res.getDrawable(R.drawable.nav_keyboard_repeat_locked);
    mShiftLockPreviewIcon.setBounds(0, 0,

```

```

        mShiftLockPreviewIcon.getIntrinsicWidth(),
        mShiftLockPreviewIcon.getIntrinsicHeight());
+
+ mRepeatLockPreviewIcon.setBounds(0,0,
+     mRepeatLockPreviewIcon.getIntrinsicWidth(),
+     mRepeatLockPreviewIcon.getIntrinsicHeight());
+ sSpacebarVerticalCorrection = res.getDimensionPixelOffset(
+     R.dimen.spacebar_vertical_correction);
+ customInit();
@@ -93,6 +103,9 @@ public class TeclaKeyboard extends Keyboard {
+     else if (key.codes[0] == KEYCODE_MORSE_CAPSKEY) {
+         mCapsLockKey = key;
+     }
+     else if (key.codes[0] == KEYCODE_REPEAT_LOCK) {
+         mRepeatLockKey = key;
+     }
+     return key;
+ }

@@ -105,6 +118,9 @@ public class TeclaKeyboard extends Keyboard {
+     return this.mSpaceKey;
+ }

+ public Key getRepeatLockKey() {
+     return this.mRepeatLockKey;
+ }
+ /**
+  * Returns a reference to the Morse Caps Lock key
+  * (Morse mode only)
@@ -113,7 +129,8 @@ public class TeclaKeyboard extends Keyboard {
+     public Key getCapsLockKey() {
+         return this.mCapsLockKey;
+     }
+ }
+
+ void setImeOptions(Resources res, int mode, int options) {
+     if (mEnterKey != null) {
+         // Reset some of the rarely used attributes.
@@ -203,6 +220,10 @@ public class TeclaKeyboard extends Keyboard {
+         return mShiftState == SHIFT_LOCKED;
+     }
+ }

+ /**
+  * boolean isRepeatLocked() {
+  *     return mRepeatState == REPEAT_LOCKED;
+  * }
+ */
+ @Override
+ public boolean setShifted(boolean shiftState) {
+     boolean shiftChanged = false;
@@ -224,7 +245,7 @@ public class TeclaKeyboard extends Keyboard {
+     }
+     return shiftChanged;
+ }

+ }

+ @Override
+ public boolean isShifted() {
+     if (mShiftKey != null) {
diff --git a/source/src/ca/idi/tekla/ime/TeclaKeyboardView.java
b/source/src/ca/idi/tekla/ime/TeclaKeyboardView.java
index 408575c..8f291c0 100644
--- a/source/src/ca/idi/tekla/ime/TeclaKeyboardView.java
+++ b/source/src/ca/idi/tekla/ime/TeclaKeyboardView.java
@@ -176,6 +176,21 @@ public class TeclaKeyboardView extends KeyboardView {
+     }
+ }

+ /**
+  *
+  * Generic method to toggle the state of "sticky" keys i.e. repeatable keys
+  * Changes appearance only
+  *
+  */

```

```
+
+ public void toggleStickyKey(Key stickyKey)
+ {
+     int stickyKeyIndex = this.getKeyboard().getKeys().indexOf(stickyKey);
+     stickyKey.onPressed();
+     stickyKey.onReleased(true);
+     this.invalidateKey(stickyKeyIndex);
+ }
+
+ /***** INSTRUMENTATION *****/
```

```
static final boolean DEBUG_AUTO_PLAY = false;
diff --git a/source/src/ca/idi/tekla/util/TeclaDesktopClient.java
b/source/src/ca/idi/tekla/util/TeclaDesktopClient.java
index c98e547..e20166f 100644
```

```
--- a/source/src/ca/idi/tekla/util/TeclaDesktopClient.java
+++ b/source/src/ca/idi/tekla/util/TeclaDesktopClient.java
@@ -8,30 +8,12 @@ import java.net.InetAddress;
import java.net.InetSocketAddress;
import java.net.MulticastSocket;
import java.net.Socket;
-import java.util.ArrayList;
```

```
-
-
-import ca.idi.tekla.R;
import ca.idi.tekla.TeclaApp;
-import ca.idi.tekla.TeclaVoiceInput;

-import android.app.Activity;
-import android.app.Dialog;
import android.content.Context;
-import android.content.DialogInterface;
import android.content.DialogInterface.OnDismissListener;
-import android.content.Intent;
import android.net.wifi.WifiManager;
-import android.os.Bundle;
-import android.speech.RecognizerIntent;
import android.util.Log;
-import android.view.View;
-import android.widget.AdapterView;
-import android.widget.AdapterView.OnItemClickListener;
import android.widget.ArrayAdapter;
import android.widget.Button;
import android.widget.ListView;
```

```
public class TeclaDesktopClient implements Runnable {
```

```
commit c244d9248239cd8bc27978554d524c168f5efad9
Merge: 62786e2 10241f1
Author: Ankit Daftery <ankitdaf@gmail.com>
Date: Sat Aug 18 20:53:16 2012 -0700
```

Merge pull request #109 from AKdroid/dictation

Reconnection using WiFi works properly,Bug fixes for dictation

```
commit 62786e2613ab18f40482f38b66d02b91bd1891c9
Merge: ad0ab0f 8e4e721
Author: Ankit Daftery <ankitdaf@gmail.com>
Date: Fri Aug 17 20:57:40 2012 -0700
```

Merge pull request #108 from AKdroid/dictation

Pulling in changes to add dictation functionality

```
commit 8caae6bf814f3ccdfef9f94bead6dfaf37640704 (origin/tempdisconnect, tempdisconnect)
Merge: 1910831 5328a9b
Author: Ankit Daftery <ankitdaf@gmail.com>
Date: Thu Aug 16 20:24:13 2012 +0530
```

Merge branch 'develop' of github.com:idrc/TeclaAccess into tempdisconnect

Conflicts:
README.md
source/res/layout/activity_prefs.xml

commit ad0ab0ffd1659904b42e3027c55ee1520680a6e7
Author: Ankit Daftery <ankitdaf@gmail.com>
Date: Mon Aug 13 20:24:12 2012 +0530

Added placeholders for SendToPC and Dictation

```
diff --git a/source/src/ca/idi/tekla/ime/TeclaIME.java b/source/src/ca/idi/tekla/ime/TeclaIME.java
index 3061620..112fe8c 100644
--- a/source/src/ca/idi/tekla/ime/TeclaIME.java
+++ b/source/src/ca/idi/tekla/ime/TeclaIME.java
@@ -872,6 +872,12 @@ public class TeclaIME extends InputMethodService
    case TeclaKeyboardView.KEYCODE_DICTATION:
        //TODO: Add dictation actions here
        break;
+   case TeclaKeyboardView.KEYCODE_SEND_TO_PC:
+       //TODO: Add send to pc handling here
+       break;
+   case TeclaKeyboardView.KEYCODE_DICTATION:
+       //TODO: Add dictation actions here
+       break;
    default:
        if (isMorseKeyboardKey(primaryCode)) {
            onKeyMorse(primaryCode);
```

commit 4598c6d8cf0de0b6973a8d9419e3f3bf262b8959
Merge: 9542b57 6783656
Author: Ankit Daftery <ankitdaf@gmail.com>
Date: Mon Aug 13 21:15:25 2012 +0530

Merge branch 'dictation' of github.com:idrc/TeclaAccess into dictation

commit 67836564897c10118864991116eff9accca3a976
Merge: 2165ef2 b8d7e2f
Author: Ankit Daftery <ankitdaf@gmail.com>
Date: Mon Aug 13 08:44:38 2012 -0700

Merge pull request #106 from AKdroid/dictation

Dictation

commit 9542b579b30a522f7911ae153fd14db1c4310f8f
Author: Ankit Daftery <ankitdaf@gmail.com>
Date: Mon Aug 13 20:24:12 2012 +0530

Added placeholders for SendToPC and Dictation

```
diff --git a/source/res/values/keycodes.xml b/source/res/values/keycodes.xml
index 28d9e7a..fd3b751 100644
--- a/source/res/values/keycodes.xml
+++ b/source/res/values/keycodes.xml
@@ -41,4 +41,7 @@
    <integer name="key_repeat_lock">-8</integer>
    <integer name="show_secnav_kbd">-9</integer>
    <integer name="hide_secnav_kbd">-10</integer>
+   <integer name="key_sendto_pc">-11</integer>
+   <integer name="key_dictation">-12</integer>
+
</resources>
```

```
diff --git a/source/res/xml/kbd_navigation.xml b/source/res/xml/kbd_navigation.xml
index 9765c2f..6b15bd4 100644
--- a/source/res/xml/kbd_navigation.xml
+++ b/source/res/xml/kbd_navigation.xml
@@ -127,7 +127,7 @@
        android:keyIcon="@drawable/sym_keyboard_mic"
        android:keyWidth="25%p" />
    <Key
-   android:codes="-8"
+   android:codes="@integer/key_repeat_lock"
```

```
android:iconPreview="@drawable/nav_keyboard_feedback_repeat"
android:keyIcon="@drawable/nav_keyboard_repeat"
android:keyWidth="25%p"/>
```

```
diff --git a/source/src/ca/idi/tekla/ime/TeclaIME.java b/source/src/ca/idi/tekla/ime/TeclaIME.java
index 0016819..565cf5c 100644
--- a/source/src/ca/idi/tekla/ime/TeclaIME.java
+++ b/source/src/ca/idi/tekla/ime/TeclaIME.java
@@ -847,6 +847,12 @@ public class TeclaIME extends InputMethodService
    case TeclaKeyboardView.KEYCODE_HIDE_SECNNAV_VOICE:
        mKeyboardSwitcher.setKeyboardMode(KeyboardSwitcher.MODE_NAV, 0);
        break;
+   case TeclaKeyboardView.KEYCODE_SEND_TO_PC:
+       //TODO: Add send to pc handling here
+       break;
+   case TeclaKeyboardView.KEYCODE_DICTATION:
+       //TODO: Add dictation actions here
+       break;
    default:
        if (isMorseKeyboardKey(primaryCode)) {
            onKeyMorse(primaryCode);
```

```
diff --git a/source/src/ca/idi/tekla/ime/TeclaKeyboardView.java
b/source/src/ca/idi/tekla/ime/TeclaKeyboardView.java
index 4803cb1..408575c 100644
--- a/source/src/ca/idi/tekla/ime/TeclaKeyboardView.java
+++ b/source/src/ca/idi/tekla/ime/TeclaKeyboardView.java
@@ -60,6 +60,10 @@ public class TeclaKeyboardView extends KeyboardView {
    // Keycode for showing and hiding secondary navigation keyboard
    static final int KEYCODE_SHOW_SECNNAV_VOICE = -9;
    static final int KEYCODE_HIDE_SECNNAV_VOICE = -10;
+
+ // Keycode for send to pc and voice dictation
+ static final int KEYCODE_SEND_TO_PC = -11;
+ static final int KEYCODE_DICTATION = -12;

    private Keyboard mPhoneKeyboard;
```

```
commit 2165ef2f45669fa1495b3e8dd4b5f4ae548ca9c7
Merge: 90bd8df ebd5076
Author: Ankit Daftery <ankitdaf@gmail.com>
Date: Thu Aug 9 09:58:22 2012 -0700
```

Merge pull request #104 from ankitdaf/dictation

Merging bugfix for #103

```
commit ebd50767c42f86ded06eb8308096130d6b483cc0
Author: Ankit Daftery <ankitdaf@gmail.com>
Date: Thu Aug 9 22:25:04 2012 +0530
```

Fixes #103

```
diff --git a/source/res/values/keycodes.xml b/source/res/values/keycodes.xml
index 726074e..28d9e7a 100644
--- a/source/res/values/keycodes.xml
+++ b/source/res/values/keycodes.xml
@@ -38,6 +38,7 @@
    <integer name="key_voice">-202</integer>
    <integer name="key_variants">-222</integer>
    <integer name="key_custom">-232</integer>
+   <integer name="key_repeat_lock">-8</integer>
    <integer name="show_secnnav_kbd">-9</integer>
    <integer name="hide_secnnav_kbd">-10</integer>
</resources>
diff --git a/source/res/xml/kbd_navigation.xml b/source/res/xml/kbd_navigation.xml
index fc8a0e3..9765c2f 100644
--- a/source/res/xml/kbd_navigation.xml
+++ b/source/res/xml/kbd_navigation.xml
@@ -63,7 +63,7 @@
    android:keyLabel="OK"
    android:keyWidth="13%p" />
    <Key
-   android:codes="-8"
```



```

+         android:codes="@integer/key_repeat_lock"
+         android:iconPreview="@drawable/nav_keyboard_feedback_repeat"
+         android:keyIcon="@drawable/nav_keyboard_repeat"
+         android:keyEdgeFlags="right"
diff --git a/source/src/ca/idi/tekla/ime/TeclaIME.java b/source/src/ca/idi/tekla/ime/TeclaIME.java
index 2cba585..0016819 100644
--- a/source/src/ca/idi/tekla/ime/TeclaIME.java
+++ b/source/src/ca/idi/tekla/ime/TeclaIME.java
@@ -157,7 +157,7 @@ public class TeclaIME extends InputMethodService

    // Keycode of the key which is on repeat
    private int mRepeatingKey;
- private boolean isAutoRepeating;
+ private boolean wasAutoRepeating;

    // Indicates whether the suggestion strip is to be on in landscape
    private boolean mJustAccepted;
@@ -831,8 +831,15 @@ public class TeclaIME extends InputMethodService
    break;
    case TeclaKeyboardView.KEYCODE_REPEAT_LOCK:
        if (TeclaApp.DEBUG) Log.d(TeclaApp.TAG, CLASS_TAG + "Enabling repeat");
+        if(mRepeating)
+        {
+            mRepeating=false;
+        }
+        else
+        {
            mRepeating=true;
            mRepeatingKey= 0;
+        }
        break;
    case TeclaKeyboardView.KEYCODE_SHOW_SECNAV_VOICE:
        mKeyboardSwitcher.setKeyboardMode(KeyboardSwitcher.MODE_SECNAV_VOICE,0);
@@ -846,14 +853,14 @@ public class TeclaIME extends InputMethodService
    } else if (isWordSeparator(primaryCode)) {
        handleSeparator(primaryCode);
    } else if (isSpecialKey(primaryCode)) {
-        isAutoRepeating = false;
+        wasAutoRepeating = false;
        if(mRepeating)
        {
            if (mRepeatingKey == 0) {
                mRepeatingKey = primaryCode;
                handleRepeatedKey(mRepeatingKey);
            }
-            if (! isAutoRepeating)
+            if (! wasAutoRepeating)
            {
                mRepeating=false;
                mRepeatingKey = 0;
@@ -2000,8 +2007,8 @@ public class TeclaIME extends InputMethodService
    }

    private void handleRepeatedKey(int keyEventCode) {
-    if ((keyEventCode>=KeyEvent.KEYCODE_DPAD_UP) && (keyEventCode<=KeyEvent.KEYCODE_DPAD_RIGHT)) {
-    isAutoRepeating = true;
+    wasAutoRepeating = true;
+    if ((keyEventCode>=KeyEvent.KEYCODE_DPAD_UP) && (keyEventCode<=KeyEvent.KEYCODE_DPAD_CENTER)) {
        mTeclaHandler.post(mRepeatKeyRunnable);
    }
}
}

commit 90bd8dfe336cc6cfcfd452c2d4d874a255c7c16a1 (upstream/repeat-lock)
Author: Ankit Daftery <ankitdaf@gmail.com>
Date: Wed Aug 8 22:23:06 2012 +0530

```

Added secondary navigation keyboard, preliminary

```

diff --git a/source/res/values/keycodes.xml b/source/res/values/keycodes.xml
index 95ade8c..726074e 100644
--- a/source/res/values/keycodes.xml
+++ b/source/res/values/keycodes.xml
@@ -38,4 +38,6 @@

```



```

<integer name="key_voice">-202</integer>
<integer name="key_variants">-222</integer>
<integer name="key_custom">-232</integer>
+ <integer name="show_secnav_kbd">-9</integer>
+ <integer name="hide_secnav_kbd">-10</integer>
</resources>
diff --git a/source/res/xml/kbd_navigation.xml b/source/res/xml/kbd_navigation.xml
index 9006fec..fc8a0e3 100644
--- a/source/res/xml/kbd_navigation.xml
+++ b/source/res/xml/kbd_navigation.xml
@@ -70,7 +70,7 @@
         android:keyWidth="13%p" />
     </Row>
     <Row
-         android:keyboardMode="@+id/mode_voice"
+         android:keyboardMode="@+id/mode_voiceold"
         android:rowEdgeFlags="bottom" >
         <Key
             android:codes="@integer/key_done"
@@ -119,5 +119,112 @@
             android:keyEdgeFlags="right"
             android:keyWidth="11%p" />
         </Row>
-
+         <Row
+         android:keyboardMode="@+id/mode_secnav_voice">
+         <Key
+             android:codes="@integer/key_voice"
+             android:iconPreview="@drawable/sym_keyboard_feedback_mic"
+             android:keyIcon="@drawable/sym_keyboard_mic"
+             android:keyWidth="25%p" />
+         <Key
+             android:codes="-8"
+             android:iconPreview="@drawable/nav_keyboard_feedback_repeat"
+             android:keyIcon="@drawable/nav_keyboard_repeat"
+             android:keyWidth="25%p" />
+         <Key
+             android:codes="@integer/hide_secnav_kbd"
+             android:keyLabel="Send to PC"
+             android:keyEdgeFlags="right"
+             android:keyWidth="50%p" />
+         </Row>
+     <Row
+         android:keyboardMode="@+id/mode_secnav_voice"
+         android:rowEdgeFlags="bottom" >
+         <Key
+             android:codes="@integer/key_done"
+             android:iconPreview="@drawable/sym_keyboard_feedback_show"
+             android:keyIcon="@drawable/sym_keyboard_show"
+             android:keyEdgeFlags="left"
+             android:keyWidth="12%p" />
+         <Key
+             android:codes="@integer/key_back"
+             android:iconPreview="@drawable/nav_keyboard_feedback_back"
+             android:keyIcon="@drawable/nav_keyboard_back"
+             android:keyWidth="11%p" />
+         <Key
+             android:codes="@integer/key_dpad_up"
+             android:iconPreview="@drawable/nav_keyboard_feedback_up"
+             android:keyIcon="@drawable/nav_keyboard_up"
+             android:keyWidth="11%p" />
+         <Key
+             android:codes="@integer/key_dpad_down"
+             android:iconPreview="@drawable/nav_keyboard_feedback_down"
+             android:keyIcon="@drawable/nav_keyboard_down"
+             android:keyWidth="11%p" />
+         <Key
+             android:codes="@integer/key_dpad_left"
+             android:iconPreview="@drawable/nav_keyboard_feedback_left"
+             android:keyIcon="@drawable/nav_keyboard_left"
+             android:keyWidth="11%p" />
+         <Key
+             android:codes="@integer/key_dpad_right"

```

```

+         android:iconPreview="@drawable/nav_keyboard_feedback_right"
+         android:keyIcon="@drawable/nav_keyboard_right"
+         android:keyWidth="11%p" />
+     <Key
+         android:codes="@integer/key_dpad_center"
+         android:keyLabel="OK"
+         android:keyWidth="11%p" />
+     <Key
+         android:codes="@integer/hide_secnav_kbd"
+         android:keyLabel="Less"
+         android:keyEdgeFlags="right"
+         android:keyWidth="23%p" />
+ </Row>
+ <Row
+     android:keyboardMode="@+id/mode_voice"
+     android:rowEdgeFlags="bottom" >
+     <Key
+         android:codes="@integer/key_done"
+         android:iconPreview="@drawable/sym_keyboard_feedback_show"
+         android:keyIcon="@drawable/sym_keyboard_show"
+         android:keyEdgeFlags="left"
+         android:keyWidth="12%p" />
+     <Key
+         android:codes="@integer/key_back"
+         android:iconPreview="@drawable/nav_keyboard_feedback_back"
+         android:keyIcon="@drawable/nav_keyboard_back"
+         android:keyWidth="11%p" />
+     <Key
+         android:codes="@integer/key_dpad_up"
+         android:iconPreview="@drawable/nav_keyboard_feedback_up"
+         android:keyIcon="@drawable/nav_keyboard_up"
+         android:keyWidth="11%p" />
+     <Key
+         android:codes="@integer/key_dpad_down"
+         android:iconPreview="@drawable/nav_keyboard_feedback_down"
+         android:keyIcon="@drawable/nav_keyboard_down"
+         android:keyWidth="11%p" />
+     <Key
+         android:codes="@integer/key_dpad_left"
+         android:iconPreview="@drawable/nav_keyboard_feedback_left"
+         android:keyIcon="@drawable/nav_keyboard_left"
+         android:keyWidth="11%p" />
+     <Key
+         android:codes="@integer/key_dpad_right"
+         android:iconPreview="@drawable/nav_keyboard_feedback_right"
+         android:keyIcon="@drawable/nav_keyboard_right"
+         android:keyWidth="11%p" />
+     <Key
+         android:codes="@integer/key_dpad_center"
+         android:keyLabel="OK"
+         android:keyWidth="11%p" />
+     <Key
+         android:codes="@integer/show_secnav_kbd"
+         android:keyLabel="More"
+         android:keyEdgeFlags="right"
+         android:keyWidth="23%p" />
+ </Row>
+ </Keyboard>

```

\ No newline at end of file

```
diff --git a/source/src/ca/idi/tekla/ime/KeyboardSwitcher.java
```

```
b/source/src/ca/idi/tekla/ime/KeyboardSwitcher.java
```

```
index ee2f46c..ea9f6c5 100644
```

```
--- a/source/src/ca/idi/tekla/ime/KeyboardSwitcher.java
```

```
+++ b/source/src/ca/idi/tekla/ime/KeyboardSwitcher.java
```

```
@@ -40,6 +40,7 @@ public class KeyboardSwitcher {
```

```
    public static final int MODE_1X9 = 14;
```

```
    public static final int MODE_1X10 = 15;
```

```
    public static final int MODE_MORSE = 16;
```

```
+    public static final int MODE_SECNAV_VOICE = 17;
```

```
    public static final int MODE_TEXT_QWERTY = 0;
```

```

    public static final int MODE_TEXT_ALPHA = 1;
@@ -51,6 +52,7 @@ public class KeyboardSwitcher {
    public static final int KEYBOARDMODE_IM = R.id.mode_im;
    public static final int KEYBOARDMODE_VOICE = R.id.mode_voice;
    public static final int KEYBOARDMODE_VARIANTS = R.id.mode_variants;
+   public static final int KEYBOARDMODE_SECTNAV_VOICE = R.id.mode_sectnav_voice;

    private static final int SYMBOLS_MODE_STATE_NONE = 0;
    private static final int SYMBOLS_MODE_STATE_BEGIN = 1;
@@ -243,7 +245,7 @@ public class KeyboardSwitcher {
        return new KeyboardId(R.xml.kbd_qwerty, KEYBOARDMODE_URL, true);
    case MODE_EMAIL:
        if (useVoiceInput) {
-           return new KeyboardId(R.xml.kbd_qwerty_voice, KEYBOARDMODE_EMAIL, true);
+           return new KeyboardId(R.xml.kbd_qwerty_voice, KEYBOARDMODE_EMAIL, true);
        }
        return new KeyboardId(R.xml.kbd_qwerty, KEYBOARDMODE_EMAIL, true);
    case MODE_IM:
@@ -256,6 +258,12 @@ public class KeyboardSwitcher {
        return new KeyboardId(R.xml.kbd_navigation, KEYBOARDMODE_VOICE, true);
    }
    return new KeyboardId(R.xml.kbd_navigation, KEYBOARDMODE_NORMAL, true);
+   case MODE_SECTNAV_VOICE:
+   if (useVoiceInput) {
+       return new KeyboardId(R.xml.kbd_navigation,KEYBOARDMODE_SECTNAV_VOICE,true);
+   }
+   //TODO: no voice available, don't need secondary keyboard ?
+   return new KeyboardId(R.xml.kbd_navigation,KEYBOARDMODE_NORMAL,true);
    case MODE_1X3:
        return new KeyboardId(R.xml.kbd_1x3, KEYBOARDMODE_NORMAL, true);
    case MODE_1X4:
diff --git a/source/src/ca/idi/tekla/ime/TeclaIME.java b/source/src/ca/idi/tekla/ime/TeclaIME.java
index bfc6b4e..2cba585 100644
--- a/source/src/ca/idi/tekla/ime/TeclaIME.java
+++ b/source/src/ca/idi/tekla/ime/TeclaIME.java
@@ -834,6 +834,12 @@ public class TeclaIME extends InputMethodService
    mRepeating=true;
    mRepeatingKey= 0;
    break;
+   case TeclaKeyboardView.KEYCODE_SHOW_SECTNAV_VOICE:
+       mKeyboardSwitcher.setKeyboardMode(KeyboardSwitcher.MODE_SECTNAV_VOICE,0);
+       break;
+   case TeclaKeyboardView.KEYCODE_HIDE_SECTNAV_VOICE:
+       mKeyboardSwitcher.setKeyboardMode(KeyboardSwitcher.MODE_NAV, 0);
+       break;
    default:
        if (isMorseKeyboardKey(primaryCode)) {
            onKeyMorse(primaryCode);
diff --git a/source/src/ca/idi/tekla/ime/TeclaKeyboardView.java
b/source/src/ca/idi/tekla/ime/TeclaKeyboardView.java
index d52c81f..4803cb1 100644
--- a/source/src/ca/idi/tekla/ime/TeclaKeyboardView.java
+++ b/source/src/ca/idi/tekla/ime/TeclaKeyboardView.java
@@ -56,6 +56,10 @@ public class TeclaKeyboardView extends KeyboardView {

    // Keycode for repeat locking navigation keys
    static final int KEYCODE_REPEAT_LOCK = -8;
+
+ // Keycode for showing and hiding secondary navigation keyboard
+ static final int KEYCODE_SHOW_SECTNAV_VOICE = -9;
+ static final int KEYCODE_HIDE_SECTNAV_VOICE = -10;

    private Keyboard mPhoneKeyboard;

```

```

commit 9a035539e46f9b681e1dc5c699a0b2b5f7fc6e88 (origin/repeat-lock)
Author: Ankit Daftery <ankitdaf@gmail.com>
Date: Thu Jul 26 18:19:33 2012 +0530

```

Disabled Debug again

```

diff --git a/source/src/ca/idi/tekla/TeclaApp.java b/source/src/ca/idi/tekla/TeclaApp.java
index a2badc1..73245d0 100644

```

```
--- a/source/src/ca/idi/tekla/TeclaApp.java
+++ b/source/src/ca/idi/tekla/TeclaApp.java
@@ -37,7 +37,7 @@ public class TeclaApp extends Application {
    /**
     * Main debug switch, turns on/off debugging for the whole app
     */
- public static final boolean DEBUG = true ;
+ public static final boolean DEBUG = false ;

    public static final String TECLA_IME_ID = "ca.idi.tekla/.ime.TeclaIME";
```

```
commit a45f30859538622289d6bb950d334c582d2f5098
Author: Ankit Daftery <ankitdaf@gmail.com>
Date: Thu Jul 26 18:14:10 2012 +0530
```

Added symbol for repeat lock, should fix #16

```
diff --git a/source/res/drawable-hdpi/nav_keyboard_feedback_repeat.png b/source/res/drawable-
hdpi/nav_keyboard_feedback_repeat.png
new file mode 100644
index 0000000..eb228b8
Binary files /dev/null and b/source/res/drawable-hdpi/nav_keyboard_feedback_repeat.png differ
diff --git a/source/res/drawable-hdpi/nav_keyboard_repeat.png b/source/res/drawable-
hdpi/nav_keyboard_repeat.png
new file mode 100644
index 0000000..298aad6
Binary files /dev/null and b/source/res/drawable-hdpi/nav_keyboard_repeat.png differ
diff --git a/source/res/drawable-mdpi/nav_keyboard_feedback_repeat.png b/source/res/drawable-
mdpi/nav_keyboard_feedback_repeat.png
new file mode 100644
index 0000000..83f7215
Binary files /dev/null and b/source/res/drawable-mdpi/nav_keyboard_feedback_repeat.png differ
diff --git a/source/res/drawable-mdpi/nav_keyboard_repeat.png b/source/res/drawable-
mdpi/nav_keyboard_repeat.png
new file mode 100644
index 0000000..54ad0b9
Binary files /dev/null and b/source/res/drawable-mdpi/nav_keyboard_repeat.png differ
diff --git a/source/res/xml/kbd_navigation.xml b/source/res/xml/kbd_navigation.xml
index c3341a4..9006fec 100644
--- a/source/res/xml/kbd_navigation.xml
+++ b/source/res/xml/kbd_navigation.xml
@@ -64,7 +64,8 @@
     android:keyWidth="13%p" />
     <Key
         android:codes="-8"
-         android:keyLabel="Rp"
+         android:iconPreview="@drawable/nav_keyboard_feedback_repeat"
+         android:keyIcon="@drawable/nav_keyboard_repeat"
         android:keyEdgeFlags="right"
         android:keyWidth="13%p" />
</Row>
@@ -76,42 +77,47 @@
         android:iconPreview="@drawable/sym_keyboard_feedback_show"
         android:keyIcon="@drawable/sym_keyboard_show"
         android:keyEdgeFlags="left"
-         android:keyWidth="14%p" />
+         android:keyWidth="12%p" />
     <Key
         android:codes="@integer/key_back"
         android:iconPreview="@drawable/nav_keyboard_feedback_back"
         android:keyIcon="@drawable/nav_keyboard_back"
-         android:keyWidth="13%p" />
+         android:keyWidth="11%p" />
     <Key
         android:codes="@integer/key_dpad_up"
         android:iconPreview="@drawable/nav_keyboard_feedback_up"
         android:keyIcon="@drawable/nav_keyboard_up"
-         android:keyWidth="12%p" />
+         android:keyWidth="11%p" />
     <Key
         android:codes="@integer/key_dpad_down"
         android:iconPreview="@drawable/nav_keyboard_feedback_down"
```

```

        android:keyIcon="@drawable/nav_keyboard_down"
-       android:keyWidth="12%p" />
+       android:keyWidth="11%p" />
    <Key
        android:codes="@integer/key_dpad_left"
        android:iconPreview="@drawable/nav_keyboard_feedback_left"
        android:keyIcon="@drawable/nav_keyboard_left"
-       android:keyWidth="12%p" />
+       android:keyWidth="11%p" />
    <Key
        android:codes="@integer/key_dpad_right"
        android:iconPreview="@drawable/nav_keyboard_feedback_right"
        android:keyIcon="@drawable/nav_keyboard_right"
-       android:keyWidth="12%p" />
+       android:keyWidth="11%p" />
    <Key
        android:codes="@integer/key_dpad_center"
        android:keyLabel="OK"
-       android:keyWidth="12%p" />
+       android:keyWidth="11%p" />
    <Key
        android:codes="@integer/key_voice"
        android:iconPreview="@drawable/sym_keyboard_feedback_mic"
        android:keyIcon="@drawable/sym_keyboard_mic"
+       android:keyWidth="11%p" />
+
    <Key
+       android:codes="-8"
+       android:iconPreview="@drawable/nav_keyboard_feedback_repeat"
+       android:keyIcon="@drawable/nav_keyboard_repeat"
+       android:keyEdgeFlags="right"
-       android:keyWidth="13%p" />
+       android:keyWidth="11%p" />
</Row>

```

</Keyboard>

\ No newline at end of file

commit b10a38bb74b2dc9eec7ebf25cc1208c47a652ba5

Author: Ankit Daftery <ankitdaf@gmail.com>

Date: Wed Jul 18 23:23:27 2012 +0530

Basic implementaion of Repeat Lock key

```
diff --git a/source/res/xml/kbd_navigation.xml b/source/res/xml/kbd_navigation.xml
```

```
index 6f18c04..c3341a4 100644
```

```
--- a/source/res/xml/kbd_navigation.xml
```

```
+++ b/source/res/xml/kbd_navigation.xml
```

```
@@ -32,37 +32,41 @@
```

```

        android:iconPreview="@drawable/sym_keyboard_feedback_show"
        android:keyEdgeFlags="left"
        android:keyIcon="@drawable/sym_keyboard_show"
-       android:keyWidth="15%p" />
+       android:keyWidth="13%p" />
    <Key
        android:codes="4"
        android:iconPreview="@drawable/nav_keyboard_feedback_back"
        android:keyIcon="@drawable/nav_keyboard_back"
-       android:keyWidth="15%p" />
+       android:keyWidth="13%p" />
    <Key
        android:codes="19"
        android:iconPreview="@drawable/nav_keyboard_feedback_up"
        android:keyIcon="@drawable/nav_keyboard_up"
-       android:keyWidth="14%p" />
+       android:keyWidth="12%p" />
    <Key
        android:codes="20"
        android:iconPreview="@drawable/nav_keyboard_feedback_down"
        android:keyIcon="@drawable/nav_keyboard_down"
-       android:keyWidth="14%p" />
+       android:keyWidth="12%p" />
    <Key
        android:codes="21"

```

```

        android:iconPreview="@drawable/nav_keyboard_feedback_left"
        android:keyIcon="@drawable/nav_keyboard_left"
-       android:keyWidth="14%p" />
+       android:keyWidth="12%p" />
    <Key
        android:codes="22"
        android:iconPreview="@drawable/nav_keyboard_feedback_right"
        android:keyIcon="@drawable/nav_keyboard_right"
-       android:keyWidth="14%p" />
+       android:keyWidth="12%p" />
    <Key
        android:codes="23"
        android:keyLabel="OK"
        android:keyWidth="13%p" />
+   <Key
+       android:codes="-8"
+       android:keyLabel="Rp"
        android:keyEdgeFlags="right"
-       android:keyWidth="14%p" />
+       android:keyWidth="13%p" />
</Row>
<Row
    android:keyboardMode="@+id/mode_voice"

```

```

diff --git a/source/src/ca/idi/tekla/TeclaApp.java b/source/src/ca/idi/tekla/TeclaApp.java
index 8ed8e82..a2badc1 100644

```

```

--- a/source/src/ca/idi/tekla/TeclaApp.java
+++ b/source/src/ca/idi/tekla/TeclaApp.java
@@ -37,7 +37,7 @@ public class TeclaApp extends Application {
    /**
     * Main debug switch, turns on/off debugging for the whole app
     */
-   public static final boolean DEBUG = false;
+   public static final boolean DEBUG = true ;

    public static final String TECLA_IME_ID = "ca.idi.tekla/.ime.TeclaIME";

```

```

diff --git a/source/src/ca/idi/tekla/ime/TeclaIME.java b/source/src/ca/idi/tekla/ime/TeclaIME.java
index 57004d2..bfc6b4e 100644

```

```

--- a/source/src/ca/idi/tekla/ime/TeclaIME.java
+++ b/source/src/ca/idi/tekla/ime/TeclaIME.java
@@ -153,7 +153,12 @@ public class TeclaIME extends InputMethodService
    private boolean mShowSuggestions;
    private int     mCorrectionMode;
    private int     mOrientation;
-
+
+
+ // Keycode of the key which is on repeat
+ private int mRepeatingKey;
+ private boolean isAutoRepeating;
+
    // Indicates whether the suggestion strip is to be on in landscape
    private boolean mJustAccepted;
    private CharSequence mJustRevertedSeparator;
@@ -824,13 +829,34 @@ public class TeclaIME extends InputMethodService
    TeclaApp.highlighter.externalstepOut();
    if (TeclaApp.DEBUG) Log.d(TeclaApp.TAG, CLASS_TAG + "Hidden key.Stepping out...");
    break;
+ case TeclaKeyboardView.KEYCODE_REPEAT_LOCK:
+     if (TeclaApp.DEBUG) Log.d(TeclaApp.TAG, CLASS_TAG + "Enabling repeat");
+     mRepeating=true;
+     mRepeatingKey= 0;
+     break;
    default:
        if (isMorseKeyboardKey(primaryCode)) {
            onKeyMorse(primaryCode);
        } else if (isWordSeparator(primaryCode)) {
            handleSeparator(primaryCode);
        } else if (isSpecialKey(primaryCode)) {
            isAutoRepeating = false;
            if(mRepeating)
            {
                if (mRepeatingKey == 0) {

```



```

+         mRepeatingKey = primaryCode;
+         handleRepeatedKey(mRepeatingKey);
+     }
+     if (! isAutoRepeating)
+     {
+         mRepeating=false;
+         mRepeatingKey = 0;
+         stopRepeating();
+     }
+ }
+ else {
+     handleSpecialKey(primaryCode);
+ }
+ } else {
+     handleCharacter(primaryCode, keyCodes);
+ }
@@ -843,6 +869,7 @@ public class TeclaIME extends InputMethodService
    evaluateNavKbdTimeout();
}
+
+ /**
+  * Handles key input on the Morse Code keyboard
@@ -1966,6 +1993,13 @@ public class TeclaIME extends InputMethodService
    || (keycode == TeclaKeyboard.KEYCODE_VARIANTS);
}
+ private void handleRepeatedKey(int keyEventCode) {
+     if ((keyEventCode>=KeyEvent.KEYCODE_DPAD_UP) && (keyEventCode<=KeyEvent.KEYCODE_DPAD_RIGHT)) {
+         isAutoRepeating = true;
+         mTeclaHandler.post(mRepeatKeyRunnable);
+     }
+ }
+
+ private void handleSpecialKey(int keyEventCode) {
+     if (keyEventCode == Keyboard.KEYCODE_DONE) {
+         if (!mKeyboardSwitcher.isNavigation() && !mKeyboardSwitcher.isVariants()) {
@@ -2046,13 +2080,13 @@ public class TeclaIME extends InputMethodService
    private Runnable mRepeatKeyRunnable = new Runnable() {
        public void run() {
-         emulateKeyPress(mKeyCodes);
+         keyDownUp(mRepeatingKey);
+         if (mRepeating) {
-             mTeclaHandler.postDelayed(mRepeatKeyRunnable, Math.round(0.5 *
TeclaApp.persistance.getScanDelay()));
-         } else {
-             // First key repeat takes a bit longer
+             mTeclaHandler.postDelayed(mRepeatKeyRunnable, TeclaApp.persistance.getScanDelay());
+             mRepeating = true;
+         } else {
+             mRepeating = false;
+             stopRepeating();
+         }
+     }
+ };
diff --git a/source/src/ca/idi/tekla/ime/TeclaKeyboardView.java
b/source/src/ca/idi/tekla/ime/TeclaKeyboardView.java
index d4a2fe5..d52c81f 100644
--- a/source/src/ca/idi/tekla/ime/TeclaKeyboardView.java
+++ b/source/src/ca/idi/tekla/ime/TeclaKeyboardView.java
@@ -53,6 +53,9 @@ public class TeclaKeyboardView extends KeyboardView {
    // Keycode for stepping out self scanning
    static final int KEYCODE_STEP_OUT = -7;
+
+ // Keycode for repeat locking navigation keys
+ static final int KEYCODE_REPEAT_LOCK = -8;
+
    private Keyboard mPhoneKeyboard;

```


commit 5328a9bd9d10c708fcc0c6d0fd6c8b88c0bcd9f7 (upstream/develop, develop)

Merge: 6d0a344 19920d0

Author: Ankit Daftery <ankitdaf@gmail.com>

Date: Tue Jul 17 07:07:29 2012 -0700

Merge pull request #100 from ankitdaf/auto-cancel-scan

Merging pull request

commit 19920d034561783c83728f9c19a5968487ffdf5 (origin/develop, auto-cancel-scan)

Author: Ankit Daftery <ankitdaf@gmail.com>

Date: Tue Jul 17 19:32:51 2012 +0530

Fixes #99

diff --git a/source/src/ca/idi/tekla/ime/TeclaIME.java b/source/src/ca/idi/tekla/ime/TeclaIME.java

index 59d9cce..57004d2 100644

--- a/source/src/ca/idi/tekla/ime/TeclaIME.java

+++ b/source/src/ca/idi/tekla/ime/TeclaIME.java

@@ -821,7 +821,7 @@ public class TeclaIME extends InputMethodService

changeKeyboardMode();

break;

case TeclaKeyboardView.KEYCODE_STEP_OUT:

- TeclaApp.highlighter.stepOut();

+ TeclaApp.highlighter.externalstepOut();

if (TeclaApp.DEBUG) Log.d(TeclaApp.TAG, CLASS_TAG + "Hidden key.Stepping out...");

break;

default:

diff --git a/source/src/ca/idi/tekla/util/Highlighter.java b/source/src/ca/idi/tekla/util/Highlighter.java

index 2c98907..0729e68 100644

--- a/source/src/ca/idi/tekla/util/Highlighter.java

+++ b/source/src/ca/idi/tekla/util/Highlighter.java

@@ -229,6 +229,24 @@ public class Highlighter {

};

+ /*

+ * Runnable used to step out with hidden key

+ */

+ public void externalstepOut()

+ {

+ Runnable mScanRunnable = new Runnable() {

+

+ public void run() {

+ mInactiveScans = 0;

+ pauseSelfScanning();

+ stepOut();

+ resumeSelfScanning();

+ Log.d(TeclaApp.TAG, CLASS_TAG + "Hidden Key pressed");

+ }

+ };

+ mHandler.postDelayed(mScanRunnable, TeclaApp.persistence.getScanDelay());

+ }

+

/**

* Runnable used only to start auto scan. It resets highlighting before calling the self scanning methods.

*/

commit e1b0b589e22f931608389d3e004b36822f5acbb1

Author: Ankit Daftery <ankitdaf@gmail.com>

Date: Fri Jul 13 20:33:25 2012 +0530

Fixed crash caused by empty keyLabel, affects #20

diff --git a/source/res/xml/kbd_alpha.xml b/source/res/xml/kbd_alpha.xml

index 3d22fb1..82a4695 100644

--- a/source/res/xml/kbd_alpha.xml

+++ b/source/res/xml/kbd_alpha.xml

@@ -52,7 +52,7 @@

android:keyLabel="j" />

<Key

android:codes="-7"

```

-         android:keyLabel=""
+         android:keyLabel=" "
         android:keyWidth="0%p" />
    </Row>
    <Row android:keyboardMode="@+id/mode_normal" >
@@ -80,7 +80,7 @@
        <Key
            android:codes="-7"
            android:keyEdgeFlags="right"
-         android:keyLabel=""
+         android:keyLabel=" "
            android:keyWidth="0%p" />
    </Row>
    <Row android:keyboardMode="@+id/mode_voice" >
@@ -108,7 +108,7 @@
        <Key
            android:codes="-7"
            android:keyEdgeFlags="right"
-         android:keyLabel=""
+         android:keyLabel=" "
            android:keyWidth="0%p" />
    </Row>
    <Row android:keyboardMode="@+id/mode_variants" >
@@ -140,7 +140,7 @@
        <Key
            android:codes="-7"
            android:keyEdgeFlags="right"
-         android:keyLabel=""
+         android:keyLabel=" "
            android:keyWidth="0%p" />
    </Row>
    <Row>
@@ -174,7 +174,7 @@
        <Key
            android:codes="-7"
            android:keyEdgeFlags="right"
-         android:keyLabel=""
+         android:keyLabel=" "
            android:keyWidth="0%p" />
    </Row>
    <Row>
@@ -212,7 +212,7 @@
        <Key
            android:codes="-7"
            android:keyEdgeFlags="right"
-         android:keyLabel=""
+         android:keyLabel=" "
            android:keyWidth="0%p" />
    </Row>
    <Row>
@@ -255,7 +255,7 @@
        <Key
            android:codes="-7"
            android:keyEdgeFlags="right"
-         android:keyLabel=""
+         android:keyLabel=" "
            android:keyWidth="0%p" />
    </Row>
    <Row>
@@ -293,7 +293,7 @@
        <Key
            android:codes="-7"
            android:keyEdgeFlags="right"
-         android:keyLabel=""
+         android:keyLabel=" "
            android:keyWidth="0%p" />
    </Row>

```

```

diff --git a/source/res/xml/kbd_alpha_voice_variants.xml b/source/res/xml/kbd_alpha_voice_variants.xml
index 098b163..be8730a 100644
--- a/source/res/xml/kbd_alpha_voice_variants.xml
+++ b/source/res/xml/kbd_alpha_voice_variants.xml
@@ -52,7 +52,7 @@

```

```

    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-       android:keyLabel=""
+       android:keyLabel=" "
        android:keyWidth="0%p" />
</Row>
<Row>
@@ -84,7 +84,7 @@
    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-       android:keyLabel=""
+       android:keyLabel=" "
        android:keyWidth="0%p" />
</Row>
<Row>
@@ -118,7 +118,7 @@
    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-       android:keyLabel=""
+       android:keyLabel=" "
        android:keyWidth="0%p" />
</Row>
<Row android:rowEdgeFlags="bottom" >
@@ -159,7 +159,7 @@
    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-       android:keyLabel=""
+       android:keyLabel=" "
        android:keyWidth="0%p" />
</Row>

diff --git a/source/res/xml/kbd_azerty.xml b/source/res/xml/kbd_azerty.xml
index e54f231..21268ab 100644
--- a/source/res/xml/kbd_azerty.xml
+++ b/source/res/xml/kbd_azerty.xml
@@ -54,7 +54,7 @@
        android:popupCharacters="@string/alternates_for_o"
    />
    <Key android:codes="112" android:keyLabel="p"/>
-   <Key android:codes="-7" android:keyEdgeFlags="right" android:keyLabel="" android:keyWidth="0%p"
/>
+   <Key android:codes="-7" android:keyEdgeFlags="right" android:keyLabel=" " android:keyWidth="0%p"
/>
</Row>

<Row>
@@ -71,7 +71,7 @@
    <Key android:codes="107" android:keyLabel="k"/>
    <Key android:codes="108" android:keyLabel="l"/>
    <Key android:codes="109" android:keyLabel="m"/>
-   <Key android:codes="-7" android:keyEdgeFlags="right" android:keyLabel="" android:keyWidth="0%p"
/>
+   <Key android:codes="-7" android:keyEdgeFlags="right" android:keyLabel=" " android:keyWidth="0%p"
/>
</Row>

<Row>
@@ -96,7 +96,7 @@
        android:keyWidth="15%p"
        android:iconPreview="@drawable/sym_keyboard_feedback_delete"
        android:isRepeatable="true"/>
-   <Key android:codes="-7" android:keyEdgeFlags="right" android:keyLabel="" android:keyWidth="0%p"
/>
+   <Key android:codes="-7" android:keyEdgeFlags="right" android:keyLabel=" " android:keyWidth="0%p"
/>
</Row><Row
    android:keyboardMode="@+id/mode_normal"
    android:rowEdgeFlags="bottom" >
@@ -129,7 +129,7 @@

```

```

    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-       android:keyLabel=""
+       android:keyLabel=" "
        android:keyWidth="0%p" />
</Row>
<Row>
@@ -169,7 +169,7 @@
    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-       android:keyLabel=""
+       android:keyLabel=" "
        android:keyWidth="0%p" />
</Row>
diff --git a/source/res/xml/kbd_qwerty.xml b/source/res/xml/kbd_qwerty.xml
index ecc2b5e..981ea3f 100644
--- a/source/res/xml/kbd_qwerty.xml
+++ b/source/res/xml/kbd_qwerty.xml
@@ -72,7 +72,7 @@
    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-       android:keyLabel=""
+       android:keyLabel=" "
        android:keyWidth="0%p" />
</Row>
<Row>
@@ -118,7 +118,7 @@
    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-       android:keyLabel=""
+       android:keyLabel=" "
        android:keyWidth="0%p" />
</Row>
<Row>
@@ -166,7 +166,7 @@
    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-       android:keyLabel=""
+       android:keyLabel=" "
        android:keyWidth="0%p" />
</Row>
<Row>
@@ -206,7 +206,7 @@
    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-       android:keyLabel=""
+       android:keyLabel=" "
        android:keyWidth="0%p" />
</Row>
<Row>
@@ -251,7 +251,7 @@
    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-       android:keyLabel=""
+       android:keyLabel=" "
        android:keyWidth="0%p" />
</Row>
<Row>
@@ -296,7 +296,7 @@
    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-       android:keyLabel=""
+       android:keyLabel=" "
        android:keyWidth="0%p" />

```

```
</Row>
<Row
@@ -337,7 +337,7 @@
  <Key
    android:codes="-7"
    android:keyEdgeFlags="right"
-   android:keyLabel=""
+   android:keyLabel=" "
    android:keyWidth="0%p" />
</Row>
```

diff --git a/source/res/xml/kbd_qwerty_variants.xml b/source/res/xml/kbd_qwerty_variants.xml
index a7cf173..99a3e22 100644

--- a/source/res/xml/kbd_qwerty_variants.xml
+++ b/source/res/xml/kbd_qwerty_variants.xml

```
@@ -72,7 +72,7 @@
  <Key
    android:codes="-7"
    android:keyEdgeFlags="right"
-   android:keyLabel=""
+   android:keyLabel=" "
    android:keyWidth="0%p" />
</Row>
```

```
<Row>
@@ -122,7 +122,7 @@
  <Key
    android:codes="-7"
    android:keyEdgeFlags="right"
-   android:keyLabel=""
+   android:keyLabel=" "
    android:keyWidth="0%p" />
</Row>
```

```
<Row>
@@ -170,7 +170,7 @@
  <Key
    android:codes="-7"
    android:keyEdgeFlags="right"
-   android:keyLabel=""
+   android:keyLabel=" "
    android:keyWidth="0%p" />
</Row>
```

```
<Row>
@@ -210,7 +210,7 @@
  <Key
    android:codes="-7"
    android:keyEdgeFlags="right"
-   android:keyLabel=""
+   android:keyLabel=" "
    android:keyWidth="0%p" />
</Row>
```

```
<Row>
@@ -255,7 +255,7 @@
  <Key
    android:codes="-7"
    android:keyEdgeFlags="right"
-   android:keyLabel=""
+   android:keyLabel=" "
    android:keyWidth="0%p" />
</Row>
```

```
<Row>
@@ -300,7 +300,7 @@
  <Key
    android:codes="-7"
    android:keyEdgeFlags="right"
-   android:keyLabel=""
+   android:keyLabel=" "
    android:keyWidth="0%p" />
</Row>
```

```
<Row>
@@ -341,7 +341,7 @@
  <Key
    android:codes="-7"
    android:keyEdgeFlags="right"
```

```
-         android:keyLabel=""
+         android:keyLabel=" "
         android:keyWidth="0%p" />
</Row>
```

```
diff --git a/source/res/xml/kbd_qwerty_voice.xml b/source/res/xml/kbd_qwerty_voice.xml
index e8258e1..8e7391b 100755
```

```
--- a/source/res/xml/kbd_qwerty_voice.xml
+++ b/source/res/xml/kbd_qwerty_voice.xml
```

```
@@ -72,7 +72,7 @@
```

```
    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-        android:keyLabel=""
+        android:keyLabel=" "
        android:keyWidth="0%p" />
```

```
</Row>
```

```
<Row>
```

```
@@ -118,7 +118,7 @@
```

```
    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-        android:keyLabel=""
+        android:keyLabel=" "
        android:keyWidth="0%p" />
```

```
</Row>
```

```
<Row>
```

```
@@ -166,7 +166,7 @@
```

```
    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-        android:keyLabel=""
+        android:keyLabel=" "
        android:keyWidth="0%p" />
```

```
</Row>
```

```
<Row>
```

```
@@ -211,7 +211,7 @@
```

```
    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-        android:keyLabel=""
+        android:keyLabel=" "
        android:keyWidth="0%p" />
```

```
</Row>
```

```
<Row>
```

```
@@ -260,7 +260,7 @@
```

```
    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-        android:keyLabel=""
+        android:keyLabel=" "
        android:keyWidth="0%p" />
```

```
</Row>
```

```
<Row>
```

```
@@ -310,7 +310,7 @@
```

```
    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-        android:keyLabel=""
+        android:keyLabel=" "
        android:keyWidth="0%p" />
```

```
</Row>
```

```
<Row>
```

```
@@ -355,7 +355,7 @@
```

```
    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-        android:keyLabel=""
+        android:keyLabel=" "
        android:keyWidth="0%p" />
```

```
</Row>
```

```
diff --git a/source/res/xml/kbd_qwerty_voice_variants.xml b/source/res/xml/kbd_qwerty_voice_variants.xml
```

```

index 9a91ddc..ab44564 100755
--- a/source/res/xml/kbd_qwerty_voice_variants.xml
+++ b/source/res/xml/kbd_qwerty_voice_variants.xml
@@ -72,7 +72,7 @@
    <Key
      android:codes="-7"
      android:keyEdgeFlags="right"
-     android:keyLabel=""
+     android:keyLabel=" "
      android:keyWidth="0%p" />
  </Row>
  <Row>
@@ -122,7 +122,7 @@
    <Key
      android:codes="-7"
      android:keyEdgeFlags="right"
-     android:keyLabel=""
+     android:keyLabel=" "
      android:keyWidth="0%p" />
  </Row>
  <Row>
@@ -170,7 +170,7 @@
    <Key
      android:codes="-7"
      android:keyEdgeFlags="right"
-     android:keyLabel=""
+     android:keyLabel=" "
      android:keyWidth="0%p" />
  </Row>
  <Row>
@@ -215,7 +215,7 @@
    <Key
      android:codes="-7"
      android:keyEdgeFlags="right"
-     android:keyLabel=""
+     android:keyLabel=" "
      android:keyWidth="0%p" />
  </Row>
  <Row>
@@ -264,7 +264,7 @@
    <Key
      android:codes="-7"
      android:keyEdgeFlags="right"
-     android:keyLabel=""
+     android:keyLabel=" "
      android:keyWidth="0%p" />
  </Row>
  <Row>
@@ -314,7 +314,7 @@
    <Key
      android:codes="-7"
      android:keyEdgeFlags="right"
-     android:keyLabel=""
+     android:keyLabel=" "
      android:keyWidth="0%p" />
  </Row>
  <Row>
@@ -359,7 +359,7 @@
    <Key
      android:codes="-7"
      android:keyEdgeFlags="right"
-     android:keyLabel=""
+     android:keyLabel=" "
      android:keyWidth="0%p" />
  </Row>
diff --git a/source/res/xml/kbd_symbols.xml b/source/res/xml/kbd_symbols.xml
index a585b14..3366ec4 100755
--- a/source/res/xml/kbd_symbols.xml
+++ b/source/res/xml/kbd_symbols.xml
@@ -67,10 +67,14 @@
      android:keyLabel="9" />
    <Key

```



```

        android:codes="48"
-       android:keyEdgeFlags="right"
        android:keyLabel="0"
        android:popupCharacters=""
        android:popupKeyboard="@xml/kbd_popup_template" />
+       <Key
+       android:codes="-7"
+       android:keyEdgeFlags="right"
+       android:keyLabel=" "
+       android:keyWidth="0%p" />
    </Row>
    <Row>
        <Key
@@ -114,10 +118,15 @@
        android:popupKeyboard="@xml/kbd_popup_template" />
        <Key
        android:codes="41"
-       android:keyEdgeFlags="right"
+
+       android:keyLabel=")"
+       android:popupCharacters="]]>"
+       android:popupKeyboard="@xml/kbd_popup_template" />
+       <Key
+       android:codes="-7"
+       android:keyEdgeFlags="right"
+       android:keyLabel=" "
+       android:keyWidth="0%p" />
    </Row>
    <Row>
        <Key
@@ -160,9 +169,13 @@
        android:codes="-5"
        android:iconPreview="@drawable/sym_keyboard_feedback_delete"
        android:isRepeatable="true"
-       android:keyEdgeFlags="right"
        android:keyIcon="@drawable/sym_keyboard_delete"
        android:keyWidth="15%p" />
+       <Key
+       android:codes="-7"
+       android:keyEdgeFlags="right"
+       android:keyLabel=" "
+       android:keyWidth="0%p" />
    </Row>
    <Row android:rowEdgeFlags="bottom" >
        <Key
@@ -194,9 +207,13 @@
        <Key
        android:codes="10"
        android:iconPreview="@drawable/sym_keyboard_feedback_return"
-       android:keyEdgeFlags="right"
        android:keyIcon="@drawable/sym_keyboard_return"
        android:keyWidth="20%p" />
+       <Key
+       android:codes="-7"
+       android:keyEdgeFlags="right"
+       android:keyLabel=" "
+       android:keyWidth="0%p" />
    </Row>

</Keyboard>

```

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```
diff --git a/source/res/xml/kbd_symbols_shift.xml b/source/res/xml/kbd_symbols_shift.xml
```

```
index 62683c9..3996cf5 100755
```

```
--- a/source/res/xml/kbd_symbols_shift.xml
```

```
+++ b/source/res/xml/kbd_symbols_shift.xml
```

```
@@ -40,8 +40,8 @@
```

```

        <Key android:keyLabel="x" />
        <Key android:keyLabel="{ " />
        <Key
-       android:keyEdgeFlags="right"
        android:keyLabel="}" />
+       <Key android:codes="-7" android:keyEdgeFlags="right" android:keyLabel=" " android:keyWidth="0%p"
/>

```

```

</Row>
<Row>
  <Key
@@ -62,8 +62,8 @@
    android:popupKeyboard="@xml/kbd_popup_template" />
  <Key android:keyLabel="[" />
  <Key
-    android:keyEdgeFlags="right"
    android:keyLabel="]" />
+<Key android:codes="-7" android:keyEdgeFlags="right" android:keyLabel=" " android:keyWidth="0%p" />
  </Row>
  <Row>
    <Key
@@ -93,9 +93,9 @@
      android:codes="-5"
      android:iconPreview="@drawable/sym_keyboard_feedback_delete"
      android:isRepeatable="true"
-      android:keyEdgeFlags="right"
      android:keyIcon="@drawable/sym_keyboard_delete"
      android:keyWidth="15%p" />
+<Key android:codes="-7" android:keyEdgeFlags="right" android:keyLabel=" " android:keyWidth="0%p" />
  </Row>
  <Row android:rowEdgeFlags="bottom" >
    <Key
@@ -124,10 +124,10 @@
      android:keyWidth="10%p" />
    <Key
-      android:codes="10"
      android:keyEdgeFlags="right"
      android:iconPreview="@drawable/sym_keyboard_feedback_return"
      android:keyIcon="@drawable/sym_keyboard_return"
      android:keyWidth="20%p" />
+<Key android:codes="-7" android:keyEdgeFlags="right" android:keyLabel=" " android:keyWidth="0%p" />
  </Row>
</Keyboard>

```

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```

commit a6694e10f5fcb9400381c25897f26995005e5812
Author: Ankit Daftery <ankitdaf@gmail.com>
Date: Fri Jul 13 19:56:03 2012 +0530

```

Added invisible stepping out, should fully fix #20

```

diff --git a/source/res/xml/kbd_alpha.xml b/source/res/xml/kbd_alpha.xml
index 10c982b..3d22fb1 100644
--- a/source/res/xml/kbd_alpha.xml
+++ b/source/res/xml/kbd_alpha.xml
@@ -50,6 +50,10 @@
  <Key
    android:keyEdgeFlags="right"
    android:keyLabel="j" />
+  <Key
+    android:codes="-7"
+    android:keyLabel=""
+    android:keyWidth="0%p" />
  </Row>
  <Row android:keyboardMode="@+id/mode_normal" >
    <Key
@@ -70,10 +74,14 @@
    <Key android:keyLabel="q" />
    <Key android:keyLabel="r" />
    <Key
-      android:keyEdgeFlags="right"
      android:keyLabel="s"
      android:popupCharacters="@string/alternates_for_s"
      android:popupKeyboard="@xml/kbd_popup_template" />
+  <Key
+    android:codes="-7"
+    android:keyEdgeFlags="right"
+    android:keyLabel=""
+    android:keyWidth="0%p" />
  </Row>

```

```

<Row android:keyboardMode="@+id/mode_voice" >
  <Key
@@ -94,10 +102,14 @@
    <Key android:keyLabel="q" />
    <Key android:keyLabel="r" />
    <Key
-      android:keyEdgeFlags="right"
        android:keyLabel="s"
        android:popupCharacters="@string/alternates_for_s"
        android:popupKeyboard="@xml/kbd_popup_template" />
+      <Key
+        android:codes="-7"
+        android:keyEdgeFlags="right"
+        android:keyLabel=""
+        android:keyWidth="0%p" />
</Row>
<Row android:keyboardMode="@+id/mode_variants" >
  <Key
@@ -124,8 +136,12 @@
    android:codes="@integer/key_variants"
    android:isModifier="true"
    android:isSticky="true"
-    android:keyEdgeFlags="right"
    android:keyLabel="áž" />
+    <Key
+      android:codes="-7"
+      android:keyEdgeFlags="right"
+      android:keyLabel=""
+      android:keyWidth="0%p" />
</Row>
<Row>
  <Key
@@ -153,9 +169,13 @@
    android:codes="-5"
    android:iconPreview="@drawable/sym_keyboard_feedback_delete"
    android:isRepeatable="true"
-    android:keyEdgeFlags="right"
    android:keyIcon="@drawable/sym_keyboard_delete"
    android:keyWidth="15%p" />
+    <Key
+      android:codes="-7"
+      android:keyEdgeFlags="right"
+      android:keyLabel=""
+      android:keyWidth="0%p" />
</Row>
<Row
  android:keyboardMode="@+id/mode_normal"
@@ -187,9 +207,13 @@
  <Key
    android:codes="10"
    android:iconPreview="@drawable/sym_keyboard_feedback_return"
-    android:keyEdgeFlags="right"
    android:keyIcon="@drawable/sym_keyboard_return"
    android:keyWidth="20%p" />
+    <Key
+      android:codes="-7"
+      android:keyEdgeFlags="right"
+      android:keyLabel=""
+      android:keyWidth="0%p" />
</Row>
<Row
  android:keyboardMode="@+id/mode_voice"
@@ -226,9 +250,13 @@
  <Key
    android:codes="@integer/key_voice"
    android:iconPreview="@drawable/sym_keyboard_feedback_mic"
-    android:keyEdgeFlags="right"
    android:keyIcon="@drawable/sym_keyboard_mic"
    android:keyWidth="13%p" />
+    <Key
+      android:codes="-7"
+      android:keyEdgeFlags="right"
+      android:keyLabel=""

```

```

+         android:keyWidth="0%p" />
</Row>
<Row
    android:keyboardMode="@+id/mode_variants"
@@ -260,9 +288,13 @@
    <Key
        android:codes="10"
        android:iconPreview="@drawable/sym_keyboard_feedback_return"
-        android:keyEdgeFlags="right"
        android:keyIcon="@drawable/sym_keyboard_return"
        android:keyWidth="20%p" />
+        <Key
+            android:codes="-7"
+            android:keyEdgeFlags="right"
+            android:keyLabel=""
+            android:keyWidth="0%p" />
    </Row>
</Keyboard>
\ No newline at end of file
diff --git a/source/res/xml/kbd_alpha_voice_variants.xml b/source/res/xml/kbd_alpha_voice_variants.xml
index a86c81a..098b163 100644
--- a/source/res/xml/kbd_alpha_voice_variants.xml
+++ b/source/res/xml/kbd_alpha_voice_variants.xml
@@ -48,8 +48,12 @@
        android:popupCharacters="@string/alternates_for_i"
        android:popupKeyboard="@xml/kbd_popup_template" />
    <Key
-        android:keyEdgeFlags="right"
        android:keyLabel="j" />
+        <Key
+            android:codes="-7"
+            android:keyEdgeFlags="right"
+            android:keyLabel=""
+            android:keyWidth="0%p" />
    </Row>
<Row>
    <Key
@@ -76,8 +80,12 @@
        android:codes="@integer/key_variants"
        android:isModifier="true"
        android:isSticky="true"
-        android:keyEdgeFlags="right"
        android:keyLabel="áž" />
+        <Key
+            android:codes="-7"
+            android:keyEdgeFlags="right"
+            android:keyLabel=""
+            android:keyWidth="0%p" />
    </Row>
<Row>
    <Key
@@ -105,9 +113,13 @@
        android:codes="-5"
        android:iconPreview="@drawable/sym_keyboard_feedback_delete"
        android:isRepeatable="true"
-        android:keyEdgeFlags="right"
        android:keyIcon="@drawable/sym_keyboard_delete"
        android:keyWidth="15%p" />
+        <Key
+            android:codes="-7"
+            android:keyEdgeFlags="right"
+            android:keyLabel=""
+            android:keyWidth="0%p" />
    </Row>
<Row android:rowEdgeFlags="bottom" >
    <Key
@@ -142,9 +154,13 @@
    <Key
        android:codes="@integer/key_voice"
        android:iconPreview="@drawable/sym_keyboard_feedback_mic"
-        android:keyEdgeFlags="right"
        android:keyIcon="@drawable/sym_keyboard_mic"

```

```

        android:keyWidth="13%p" />
+       <Key
+       android:codes="-7"
+       android:keyEdgeFlags="right"
+       android:keyLabel=""
+       android:keyWidth="0%p" />
</Row>

</Keyboard>
\ No newline at end of file
diff --git a/source/res/xml/kbd_azerty.xml b/source/res/xml/kbd_azerty.xml
index 01d3be8..e54f231 100644
--- a/source/res/xml/kbd_azerty.xml
+++ b/source/res/xml/kbd_azerty.xml
@@ -53,7 +53,8 @@
        android:popupKeyboard="@xml/kbd_popup_template"
        android:popupCharacters="@string/alternates_for_o"
    />
-   <Key android:codes="112" android:keyLabel="p" android:keyEdgeFlags="right"/>
+   <Key android:codes="112" android:keyLabel="p"/>
+   <Key android:codes="-7" android:keyEdgeFlags="right" android:keyLabel="" android:keyWidth="0%p"
/>
</Row>

<Row>
@@ -69,7 +70,8 @@
    <Key android:codes="106" android:keyLabel="j"/>
    <Key android:codes="107" android:keyLabel="k"/>
    <Key android:codes="108" android:keyLabel="l"/>
-   <Key android:codes="109" android:keyLabel="m" android:keyEdgeFlags="right"/>
+   <Key android:codes="109" android:keyLabel="m"/>
+   <Key android:codes="-7" android:keyEdgeFlags="right" android:keyLabel="" android:keyWidth="0%p"
/>
</Row>

<Row>
@@ -91,9 +93,10 @@
    />
    <Key android:codes="233,224,232,234" android:keyLabel="é"/>
    <Key android:codes="-5" android:keyIcon="@drawable/sym_keyboard_delete"
-       android:keyWidth="15%p" android:keyEdgeFlags="right"
+       android:keyWidth="15%p"
+       android:iconPreview="@drawable/sym_keyboard_feedback_delete"
+       android:isRepeatable="true"/>
+   <Key android:codes="-7" android:keyEdgeFlags="right" android:keyLabel="" android:keyWidth="0%p"
/>
</Row><Row
    android:keyboardMode="@+id/mode_normal"
    android:rowEdgeFlags="bottom" >
@@ -121,9 +124,13 @@
    <Key
        android:codes="10"
        android:iconPreview="@drawable/sym_keyboard_feedback_return"
-       android:keyEdgeFlags="right"
+       android:keyIcon="@drawable/sym_keyboard_return"
+       android:keyWidth="20%p" />
+   <Key
+       android:codes="-7"
+       android:keyEdgeFlags="right"
+       android:keyLabel=""
+       android:keyWidth="0%p" />
</Row>
<Row
    android:keyboardMode="@+id/mode_voice"
@@ -156,10 +163,14 @@
    android:keyWidth="18%p" />
    <Key
        android:codes="@integer/key_voice"
-       android:keyEdgeFlags="right"
+       android:iconPreview="@drawable/sym_keyboard_feedback_mic"
+       android:keyIcon="@drawable/sym_keyboard_mic"
+       android:keyWidth="13%p" />
+   <Key

```

```

+         android:codes="-7"
+         android:keyEdgeFlags="right"
+         android:keyLabel=""
+         android:keyWidth="0%p" />
</Row>

</Keyboard>
diff --git a/source/res/xml/kbd_qwerty.xml b/source/res/xml/kbd_qwerty.xml
index dc2593d..ecc2b5e 100644
--- a/source/res/xml/kbd_qwerty.xml
+++ b/source/res/xml/kbd_qwerty.xml
@@ -68,8 +68,12 @@
         android:popupKeyboard="@xml/kbd_popup_template" />
     <Key
         android:codes="112"
-         android:keyEdgeFlags="right"
         android:keyLabel="p" />
+     <Key
+         android:codes="-7"
+         android:keyEdgeFlags="right"
+         android:keyLabel=""
+         android:keyWidth="0%p" />
</Row>
<Row>
    <Key
@@ -97,7 +101,6 @@
         android:keyLabel="g"
         android:popupCharacters="@string/alternates_for_g"
         android:popupKeyboard="@xml/kbd_popup_template" />
-    />
    <Key
        android:codes="104"
        android:keyLabel="h" />
@@ -109,10 +112,14 @@
        android:keyLabel="k" />
    <Key
        android:codes="108"
-        android:keyEdgeFlags="right"
        android:keyLabel="l"
        android:popupCharacters="@string/alternates_for_l"
        android:popupKeyboard="@xml/kbd_popup_template" />
+    <Key
+        android:codes="-7"
+        android:keyEdgeFlags="right"
+        android:keyLabel=""
+        android:keyWidth="0%p" />
</Row>
<Row>
    <Key
@@ -154,9 +161,13 @@
        android:codes="-5"
        android:iconPreview="@drawable/sym_keyboard_feedback_delete"
        android:isRepeatable="true"
-        android:keyEdgeFlags="right"
        android:keyIcon="@drawable/sym_keyboard_delete"
        android:keyWidth="15%p" />
+    <Key
+        android:codes="-7"
+        android:keyEdgeFlags="right"
+        android:keyLabel=""
+        android:keyWidth="0%p" />
</Row>
<Row
    android:keyboardMode="@+id/mode_normal"
@@ -190,9 +201,13 @@
    <Key
        android:codes="10"
        android:iconPreview="@drawable/sym_keyboard_feedback_return"
-        android:keyEdgeFlags="right"
        android:keyIcon="@drawable/sym_keyboard_return"
        android:keyWidth="20%p" />
+    <Key
+        android:codes="-7"

```

```

+         android:keyEdgeFlags="right"
+         android:keyLabel=""
+         android:keyWidth="0%p" />
</Row>
<Row
  android:keyboardMode="@+id/mode_url"
@@ -231,9 +246,13 @@
  <Key
    android:codes="10"
    android:iconPreview="@drawable/sym_keyboard_feedback_return"
-    android:keyEdgeFlags="right"
    android:keyIcon="@drawable/sym_keyboard_return"
    android:keyWidth="20%p" />
+    <Key
+      android:codes="-7"
+      android:keyEdgeFlags="right"
+      android:keyLabel=""
+      android:keyWidth="0%p" />
</Row>
<Row
  android:keyboardMode="@+id/mode_email"
@@ -272,9 +291,13 @@
  <Key
    android:codes="10"
    android:iconPreview="@drawable/sym_keyboard_feedback_return"
-    android:keyEdgeFlags="right"
    android:keyIcon="@drawable/sym_keyboard_return"
    android:keyWidth="20%p" />
+    <Key
+      android:codes="-7"
+      android:keyEdgeFlags="right"
+      android:keyLabel=""
+      android:keyWidth="0%p" />
</Row>
<Row
  android:keyboardMode="@+id/mode_im"
@@ -307,11 +330,15 @@
    android:keyWidth="10%p"
    android:popupKeyboard="@xml/popup_punctuation" />
  <Key
-    android:keyEdgeFlags="right"
    android:keyLabel=":-)"
    android:keyOutputText=":-) "
    android:keyWidth="20%p"
    android:popupKeyboard="@xml/popup_smileys" />
+    <Key
+      android:codes="-7"
+      android:keyEdgeFlags="right"
+      android:keyLabel=""
+      android:keyWidth="0%p" />
</Row>
</Keyboard>

```

\ No newline at end of file

```
diff --git a/source/res/xml/kbd_qwerty_variants.xml b/source/res/xml/kbd_qwerty_variants.xml
```

```
index f6c1e71..a7cf173 100644
```

```
--- a/source/res/xml/kbd_qwerty_variants.xml
```

```
+++ b/source/res/xml/kbd_qwerty_variants.xml
```

```

@@ -68,8 +68,12 @@
    android:popupKeyboard="@xml/kbd_popup_template" />
  <Key
    android:codes="112"
-    android:keyEdgeFlags="right"
    android:keyLabel="p" />
+    <Key
+      android:codes="-7"
+      android:keyEdgeFlags="right"
+      android:keyLabel=""
+      android:keyWidth="0%p" />
</Row>
<Row>
  <Key
@@ -114,8 +118,12 @@

```



```

        android:codes="@integer/key_variants"
        android:isModifier="true"
        android:isSticky="true"
-       android:keyEdgeFlags="right"
        android:keyLabel="áž" />
+       <Key
+           android:codes="-7"
+           android:keyEdgeFlags="right"
+           android:keyLabel=""
+           android:keyWidth="0%p" />
    </Row>
    <Row>
        <Key
@@ -157,9 +165,13 @@
            android:codes="-5"
            android:iconPreview="@drawable/sym_keyboard_feedback_delete"
            android:isRepeatable="true"
-           android:keyEdgeFlags="right"
            android:keyIcon="@drawable/sym_keyboard_delete"
            android:keyWidth="15%p" />
+       <Key
+           android:codes="-7"
+           android:keyEdgeFlags="right"
+           android:keyLabel=""
+           android:keyWidth="0%p" />
    </Row>
    <Row
        android:keyboardMode="@+id/mode_normal"
@@ -192,10 +204,14 @@
        android:popupKeyboard="@xml/popup_punctuation" />
        <Key
            android:codes="10"
-           android:keyEdgeFlags="right"
            android:iconPreview="@drawable/sym_keyboard_feedback_return"
            android:keyIcon="@drawable/sym_keyboard_return"
            android:keyWidth="20%p" />
+       <Key
+           android:codes="-7"
+           android:keyEdgeFlags="right"
+           android:keyLabel=""
+           android:keyWidth="0%p" />
    </Row>
    <Row
        android:keyboardMode="@+id/mode_url"
@@ -233,10 +249,14 @@
        android:popupKeyboard="@xml/popup_punctuation" />
        <Key
            android:codes="10"
-           android:keyEdgeFlags="right"
            android:iconPreview="@drawable/sym_keyboard_feedback_return"
            android:keyIcon="@drawable/sym_keyboard_return"
            android:keyWidth="20%p" />
+       <Key
+           android:codes="-7"
+           android:keyEdgeFlags="right"
+           android:keyLabel=""
+           android:keyWidth="0%p" />
    </Row>
    <Row
        android:keyboardMode="@+id/mode_email"
@@ -274,10 +294,14 @@
        android:popupKeyboard="@xml/popup_punctuation" />
        <Key
            android:codes="10"
-           android:keyEdgeFlags="right"
            android:iconPreview="@drawable/sym_keyboard_feedback_return"
            android:keyIcon="@drawable/sym_keyboard_return"
            android:keyWidth="20%p" />
+       <Key
+           android:codes="-7"
+           android:keyEdgeFlags="right"
+           android:keyLabel=""
+           android:keyWidth="0%p" />

```

```

</Row>
<Row
    android:keyboardMode="@+id/mode_im"
@@ -312,9 +336,13 @@
    <Key
        android:keyLabel=":-)"
        android:keyOutputText=":-) "
-        android:keyEdgeFlags="right"
        android:keyWidth="20%p"
        android:popupKeyboard="@xml/popup_smileys" />
+    <Key
+        android:codes="-7"
+        android:keyEdgeFlags="right"
+        android:keyLabel=""
+        android:keyWidth="0%p" />
</Row>

</Keyboard>
\ No newline at end of file
diff --git a/source/res/xml/kbd_qwerty_voice.xml b/source/res/xml/kbd_qwerty_voice.xml
index b6305d3..e8258e1 100755
--- a/source/res/xml/kbd_qwerty_voice.xml
+++ b/source/res/xml/kbd_qwerty_voice.xml
@@ -68,8 +68,12 @@
        android:popupKeyboard="@xml/kbd_popup_template" />
    <Key
-        android:codes="112"
        android:keyEdgeFlags="right"
        android:keyLabel="p" />
+    <Key
+        android:codes="-7"
+        android:keyEdgeFlags="right"
+        android:keyLabel=""
+        android:keyWidth="0%p" />
</Row>
<Row>
    <Key
@@ -97,7 +101,6 @@
        android:keyLabel="g"
        android:popupCharacters="@string/alternates_for_g"
        android:popupKeyboard="@xml/kbd_popup_template" />
-    />
    <Key
        android:codes="104"
        android:keyLabel="h" />
@@ -109,10 +112,14 @@
        android:keyLabel="k" />
    <Key
-        android:codes="108"
        android:keyEdgeFlags="right"
        android:keyLabel="l"
        android:popupCharacters="@string/alternates_for_l"
        android:popupKeyboard="@xml/kbd_popup_template" />
+    <Key
+        android:codes="-7"
+        android:keyEdgeFlags="right"
+        android:keyLabel=""
+        android:keyWidth="0%p" />
</Row>
<Row>
    <Key
@@ -154,9 +161,13 @@
        android:codes="-5"
        android:iconPreview="@drawable/sym_keyboard_feedback_delete"
        android:isRepeatable="true"
-        android:keyEdgeFlags="right"
        android:keyIcon="@drawable/sym_keyboard_delete"
        android:keyWidth="15%p" />
+    <Key
+        android:codes="-7"
+        android:keyEdgeFlags="right"
+        android:keyLabel=""
+        android:keyWidth="0%p" />

```

```

</Row>
<Row
    android:keyboardMode="@+id/mode_normal"
@@ -195,9 +206,13 @@
    <Key
        android:codes="@integer/key_voice"
        android:iconPreview="@drawable/sym_keyboard_feedback_mic"
-        android:keyEdgeFlags="right"
        android:keyIcon="@drawable/sym_keyboard_mic"
        android:keyWidth="13%p" />
+
    <Key
+        android:codes="-7"
+        android:keyEdgeFlags="right"
+        android:keyLabel=""
+        android:keyWidth="0%p" />
</Row>
<Row
    android:keyboardMode="@+id/mode_url"
@@ -240,9 +255,13 @@
    <Key
        android:codes="@integer/key_voice"
        android:iconPreview="@drawable/sym_keyboard_feedback_mic"
-        android:keyEdgeFlags="right"
        android:keyIcon="@drawable/sym_keyboard_mic"
        android:keyWidth="13%p" />
+
    <Key
+        android:codes="-7"
+        android:keyEdgeFlags="right"
+        android:keyLabel=""
+        android:keyWidth="0%p" />
</Row>
<Row
    android:keyboardMode="@+id/mode_email"
@@ -286,9 +305,13 @@
    <Key
        android:codes="@integer/key_voice"
        android:iconPreview="@drawable/sym_keyboard_feedback_mic"
-        android:keyEdgeFlags="right"
        android:keyIcon="@drawable/sym_keyboard_mic"
        android:keyWidth="13%p" />
+
    <Key
+        android:codes="-7"
+        android:keyEdgeFlags="right"
+        android:keyLabel=""
+        android:keyWidth="0%p" />
</Row>
<Row
    android:keyboardMode="@+id/mode_im"
@@ -327,9 +350,13 @@
    <Key
        android:codes="@integer/key_voice"
        android:iconPreview="@drawable/sym_keyboard_feedback_mic"
-        android:keyEdgeFlags="right"
        android:keyIcon="@drawable/sym_keyboard_mic"
        android:keyWidth="13%p" />
+
    <Key
+        android:codes="-7"
+        android:keyEdgeFlags="right"
+        android:keyLabel=""
+        android:keyWidth="0%p" />
</Row>

</Keyboard>
\ No newline at end of file
diff --git a/source/res/xml/kbd_qwerty_voice_variants.xml b/source/res/xml/kbd_qwerty_voice_variants.xml
index ebc1309..9a91ddc 100755
--- a/source/res/xml/kbd_qwerty_voice_variants.xml
+++ b/source/res/xml/kbd_qwerty_voice_variants.xml
@@ -68,8 +68,12 @@
    android:popupKeyboard="@xml/kbd_popup_template" />
    <Key
        android:codes="112"
-        android:keyEdgeFlags="right"

```

```

        android:keyLabel="p" />
+       <Key
+       android:codes="-7"
+       android:keyEdgeFlags="right"
+       android:keyLabel=""
+       android:keyWidth="0%p" />
</Row>
<Row>
    <Key
@@ -114,8 +118,12 @@
        android:codes="@integer/key_variants"
        android:isModifier="true"
        android:isSticky="true"
-       android:keyEdgeFlags="right"
        android:keyLabel="áz" />
+       <Key
+       android:codes="-7"
+       android:keyEdgeFlags="right"
+       android:keyLabel=""
+       android:keyWidth="0%p" />
</Row>
<Row>
    <Key
@@ -157,9 +165,13 @@
        android:codes="-5"
        android:iconPreview="@drawable/sym_keyboard_feedback_delete"
        android:isRepeatable="true"
-       android:keyEdgeFlags="right"
        android:keyIcon="@drawable/sym_keyboard_delete"
        android:keyWidth="15%p" />
+       <Key
+       android:codes="-7"
+       android:keyEdgeFlags="right"
+       android:keyLabel=""
+       android:keyWidth="0%p" />
</Row>
<Row
        android:keyboardMode="@+id/mode_normal"
@@ -197,10 +209,14 @@
        android:keyWidth="16%p" />
    <Key
        android:codes="@integer/key_voice"
-       android:keyEdgeFlags="right"
        android:iconPreview="@drawable/sym_keyboard_feedback_mic"
        android:keyIcon="@drawable/sym_keyboard_mic"
        android:keyWidth="13%p" />
+       <Key
+       android:codes="-7"
+       android:keyEdgeFlags="right"
+       android:keyLabel=""
+       android:keyWidth="0%p" />
</Row>
<Row
        android:keyboardMode="@+id/mode_url"
@@ -242,10 +258,14 @@
        android:keyWidth="16%p" />
    <Key
        android:codes="@integer/key_voice"
-       android:keyEdgeFlags="right"
        android:iconPreview="@drawable/sym_keyboard_feedback_mic"
        android:keyIcon="@drawable/sym_keyboard_mic"
        android:keyWidth="13%p" />
+       <Key
+       android:codes="-7"
+       android:keyEdgeFlags="right"
+       android:keyLabel=""
+       android:keyWidth="0%p" />
</Row>
<Row
        android:keyboardMode="@+id/mode_email"
@@ -288,10 +308,14 @@
        android:keyWidth="16%p" />
    <Key

```

```

        android:codes="@integer/key_voice"
-       android:keyEdgeFlags="right"
        android:iconPreview="@drawable/sym_keyboard_feedback_mic"
        android:keyIcon="@drawable/sym_keyboard_mic"
        android:keyWidth="13%p" />
+       <Key
+       android:codes="-7"
+       android:keyEdgeFlags="right"
+       android:keyLabel=""
+       android:keyWidth="0%p" />
    </Row>
    <Row
        android:keyboardMode="@+id/mode_im"
@@ -329,10 +353,14 @@
        android:popupKeyboard="@xml/popup_smileys" />
    <Key
        android:codes="@integer/key_voice"
-       android:keyEdgeFlags="right"
        android:iconPreview="@drawable/sym_keyboard_feedback_mic"
        android:keyIcon="@drawable/sym_keyboard_mic"
        android:keyWidth="13%p" />
+       <Key
+       android:codes="-7"
+       android:keyEdgeFlags="right"
+       android:keyLabel=""
+       android:keyWidth="0%p" />
    </Row>

</Keyboard>
\ No newline at end of file
diff --git a/source/src/ca/idi/tekla/ime/TeclaIME.java b/source/src/ca/idi/tekla/ime/TeclaIME.java
index 976c29c..59d9cce 100644
--- a/source/src/ca/idi/tekla/ime/TeclaIME.java
+++ b/source/src/ca/idi/tekla/ime/TeclaIME.java
@@ -820,6 +820,10 @@ public class TeclaIME extends InputMethodService
    case Keyboard.KEYCODE_MODE_CHANGE:
        changeKeyboardMode();
        break;
+   case TeclaKeyboardView.KEYCODE_STEP_OUT:
+       TeclaApp.highlighter.stepOut();
+       if (TeclaApp.DEBUG) Log.d(TeclaApp.TAG, CLASS_TAG + "Hidden key.Stepping out...");
+       break;
    default:
        if (isMorseKeyboardKey(primaryCode)) {
            onKeyMorse(primaryCode);

```

```

diff --git a/source/src/ca/idi/tekla/ime/TeclaKeyboardView.java
b/source/src/ca/idi/tekla/ime/TeclaKeyboardView.java
index 8f1b746..d4a2fe5 100644
--- a/source/src/ca/idi/tekla/ime/TeclaKeyboardView.java
+++ b/source/src/ca/idi/tekla/ime/TeclaKeyboardView.java
@@ -50,6 +50,9 @@ public class TeclaKeyboardView extends KeyboardView {

    static final int KEYCODE_OPTIONS = -100;
    static final int KEYCODE_SHIFT_LONGPRESS = -101;
+
+   // Keycode for stepping out self scanning
+   static final int KEYCODE_STEP_OUT = -7;

    private Keyboard mPhoneKeyboard;

```

```

commit d0713f64a385d370f1e0f7e29ccf3e75b4d1d8c8
Author: Ankit Daftery <ankitdaf@gmail.com>
Date: Fri Jul 13 00:34:16 2012 +0530

```

Added automatic stepping out, addresses #20

```

diff --git a/source/src/ca/idi/tekla/util/Highlighter.java b/source/src/ca/idi/tekla/util/Highlighter.java
index 48c4395..2c98907 100644
--- a/source/src/ca/idi/tekla/util/Highlighter.java
+++ b/source/src/ca/idi/tekla/util/Highlighter.java
@@ -34,6 +34,7 @@ public class Highlighter {
    private int mScanDepth;

```

```

private int mScanKeyCounter, mScanRowCounter;
private int mLastKeyCounter, mLastRowCounter;
+ private int mInactiveScans, mStartScanKeyCounter;
private boolean mWasShowingVariants;
private TeclaKeyboardView mIMEView;
private Handler mHandler;
@@ -133,6 +134,7 @@ public class Highlighter {
}
int fromIndex = keyboard.getRowStart(mScanRowCounter);
int toIndex = keyboard.getRowEnd(mScanRowCounter);
+ mStartScanKeyCounter = fromIndex;
if (mScanDepth == Highlighter.DEPTH_KEY) {
if (direction == Highlighter.HIGHLIGHT_NEXT) mScanKeyCounter++;
if (direction == Highlighter.HIGHLIGHT_PREV) mScanKeyCounter--;
@@ -215,6 +217,13 @@ public class Highlighter {
final long start = SystemClock.uptimeMillis();
if (TeclaApp.DEBUG) Log.d(TeclaApp.TAG, CLASS_TAG + "Scanning to next item");
move(Highlighter.HIGHLIGHT_NEXT);
+ if(mScanKeyCounter==mStartScanKeyCounter) mInactiveScans++;
+ if(mInactiveScans==2 && getScanDepth()==Highlighter.DEPTH_KEY)
+ {
+ mInactiveScans=0;
+ stepOut();
+ if (TeclaApp.DEBUG) Log.d(TeclaApp.TAG, CLASS_TAG + "No activity.Stepping out...");
+ }
mHandler.postAtTime(this, start + TeclaApp.persistence.getScanDelay());
}

@@ -254,6 +263,8 @@ public class Highlighter {
}
}
restoreHighlight();
+ mStartScanKeyCounter=mScanKeyCounter; // Counter to check which key
+ mInactiveScans=0; // Counter to check number of eventless self scan
}

```

```
private boolean shouldDelayKey(int keyCode){
```

```

commit 65039e6e5288a7f75437f46a15b1a9d384d6ea9b
Author: Ankit Daftery <ankitdaf@gmail.com>
Date: Fri Jun 15 14:33:05 2012 +0530

```

Modified layouts to fix #88 #89 #90 Not fully tested

```

diff --git a/source/res/xml/kbd_alpha.xml b/source/res/xml/kbd_alpha.xml
index 296051b..c52d45e 100644
--- a/source/res/xml/kbd_alpha.xml
+++ b/source/res/xml/kbd_alpha.xml
@@ -132,8 +132,9 @@
</Row>

<Row android:keyboardMode="@+id/mode_normal" android:rowEdgeFlags="bottom">
- <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
- android:keyEdgeFlags="left" android:keyWidth="20%p"/>
+ <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+ android:iconPreview="@drawable/sym_keyboard_feedback_done"
+ android:keyWidth="15%p" android:keyEdgeFlags="left"/>
+ <Key android:keyLabel="," android:keyWidth="10%p" />
+ <Key android:codes="32" android:keyIcon="@drawable/sym_keyboard_space"
+ android:iconPreview="@drawable/sym_keyboard_feedback_space"
@@ -144,14 +145,15 @@
<Key android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"
android:iconPreview="@drawable/sym_keyboard_feedback_return"
android:keyWidth="20%p" />
- <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
- android:iconPreview="@drawable/sym_keyboard_feedback_done"
- android:keyWidth="15%p" android:keyEdgeFlags="right"/>
+ <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
+ android:keyEdgeFlags="right" android:keyWidth="20%p"/>
+
</Row>

<Row android:keyboardMode="@+id/mode_voice" android:rowEdgeFlags="bottom">

```

```

-         <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
-             android:keyEdgeFlags="left" android:keyWidth="16%p"/>
+         <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+             android:iconPreview="@drawable/sym_keyboard_feedback_done"
+             android:keyWidth="14%p" android:keyEdgeFlags="left"/>
<Key
  android:codes="@integer/key_voice"
  android:keyIcon="@drawable/sym_keyboard_mic"
@@ -167,14 +169,15 @@
    <Key android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"
        android:iconPreview="@drawable/sym_keyboard_feedback_return"
        android:keyWidth="16%p" />
- <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-     android:iconPreview="@drawable/sym_keyboard_feedback_done"
-     android:keyWidth="14%p" android:keyEdgeFlags="right"/>
+     <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
+         android:keyEdgeFlags="right" android:keyWidth="16%p"/>
+
</Row>

<Row android:keyboardMode="@+id/mode_variants" android:rowEdgeFlags="bottom">
-     <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
-         android:keyEdgeFlags="left" android:keyWidth="20%p"/>
+     <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+         android:iconPreview="@drawable/sym_keyboard_feedback_done"
+         android:keyWidth="15%p" android:keyEdgeFlags="left"/>
+     <Key android:keyLabel="," android:keyWidth="10%p" />
+     <Key android:codes="32" android:keyIcon="@drawable/sym_keyboard_space"
+         android:iconPreview="@drawable/sym_keyboard_feedback_space"
@@ -185,9 +188,9 @@
    <Key android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"
        android:iconPreview="@drawable/sym_keyboard_feedback_return"
        android:keyWidth="20%p" />
- <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-     android:iconPreview="@drawable/sym_keyboard_feedback_done"
-     android:keyWidth="15%p" android:keyEdgeFlags="right"/>
+ <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
+     android:keyEdgeFlags="right" android:keyWidth="20%p"/>
+
</Row>

</Keyboard>
\ No newline at end of file
diff --git a/source/res/xml/kbd_alpha_voice_variants.xml b/source/res/xml/kbd_alpha_voice_variants.xml
index db082d..3b18e87 100644
--- a/source/res/xml/kbd_alpha_voice_variants.xml
+++ b/source/res/xml/kbd_alpha_voice_variants.xml
@@ -92,8 +92,9 @@
    </Row>

    <Row android:rowEdgeFlags="bottom">
-     <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
-         android:keyEdgeFlags="left" android:keyWidth="16%p"/>
+ <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+     android:iconPreview="@drawable/sym_keyboard_feedback_done"
+     android:keyWidth="14%p" android:keyEdgeFlags="left"/>
<Key
  android:codes="@integer/key_voice"
  android:keyIcon="@drawable/sym_keyboard_mic"
@@ -109,9 +110,10 @@
    <Key android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"
        android:iconPreview="@drawable/sym_keyboard_feedback_return"
        android:keyWidth="16%p" />
- <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-     android:iconPreview="@drawable/sym_keyboard_feedback_done"
-     android:keyWidth="14%p" android:keyEdgeFlags="right"/>
+     <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
+         android:keyEdgeFlags="right" android:keyWidth="16%p"/>
+
</Row>

</Keyboard>

```



```

\ No newline at end of file
diff --git a/source/res/xml/kbd_navigation.xml b/source/res/xml/kbd_navigation.xml
index 52dca43..1792ee6 100644
--- a/source/res/xml/kbd_navigation.xml
+++ b/source/res/xml/kbd_navigation.xml
@@ -23,8 +23,8 @@
    android:verticalGap="0px" android:keyHeight="@dimen/key_height">

    <Row android:keyboardMode="@+id/mode_normal" android:rowEdgeFlags="bottom">
-   <Key android:codes="4" android:keyIcon="@drawable/nav_keyboard_back"
-       android:iconPreview="@drawable/nav_keyboard_feedback_back"
+   <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_show"
+       android:iconPreview="@drawable/sym_keyboard_feedback_show"
+       android:keyWidth="15%p" android:keyEdgeFlags="left" />
    <Key android:codes="19" android:keyIcon="@drawable/nav_keyboard_up"
        android:iconPreview="@drawable/nav_keyboard_feedback_up"
@@ -39,9 +39,9 @@
        android:iconPreview="@drawable/nav_keyboard_feedback_right"
        android:keyWidth="14%p" />
    <Key android:codes="23" android:keyLabel="OK" android:keyWidth="14%p" />
-   <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_show"
-       android:iconPreview="@drawable/sym_keyboard_feedback_show"
-       android:keyWidth="15%p" android:keyEdgeFlags="right" />
+   <Key android:codes="4" android:keyIcon="@drawable/nav_keyboard_back"
+       android:iconPreview="@drawable/nav_keyboard_feedback_back"
+       android:keyWidth="15%p" android:keyEdgeFlags="right" />
    </Row>

    <Row android:keyboardMode="@+id/mode_voice" android:rowEdgeFlags="bottom">
diff --git a/source/res/xml/kbd_phone.xml b/source/res/xml/kbd_phone.xml
index 2d826ae..a0c2a53 100755
--- a/source/res/xml/kbd_phone.xml
+++ b/source/res/xml/kbd_phone.xml
@@ -49,11 +49,10 @@
    </Row>

    <Row android:rowEdgeFlags="bottom">
-   <Key android:codes="-2" android:keyIcon="@drawable/sym_keyboard_numalt"
-       android:popupKeyboard="@xml/kbd_popup_template"
-       android:popupCharacters="_"
-       android:iconPreview="@drawable/sym_keyboard_feedback_numalt"/>
+   <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+       android:iconPreview="@drawable/sym_keyboard_feedback_done"
+       android:keyWidth="20%p" android:keyEdgeFlags="left"/>
+
    <Key android:codes="48" android:keyIcon="@drawable/sym_keyboard_num0"/>

    <Key android:codes="32" android:keyIcon="@drawable/sym_keyboard_space"
@@ -62,9 +61,13 @@
    <!-- <Key android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"
        android:keyWidth="20%p"
        android:keyEdgeFlags="right"/> -->
-   <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-       android:iconPreview="@drawable/sym_keyboard_feedback_done"
-       android:keyWidth="20%p" android:keyEdgeFlags="right"/>
+   <Key android:codes="-2" android:keyIcon="@drawable/sym_keyboard_numalt"
+       android:popupKeyboard="@xml/kbd_popup_template"
+       android:popupCharacters="_"
+       android:iconPreview="@drawable/sym_keyboard_feedback_numalt"
+       android:keyEdgeFlags="right" />
+
    </Row>

</Keyboard>
\ No newline at end of file
diff --git a/source/res/xml/kbd_phone_symbols.xml b/source/res/xml/kbd_phone_symbols.xml
index 8602863..7f63b15 100755
--- a/source/res/xml/kbd_phone_symbols.xml
+++ b/source/res/xml/kbd_phone_symbols.xml
@@ -54,10 +54,9 @@
    </Row>

```

```

<Row android:rowEdgeFlags="bottom">
-   <Key android:codes="-2" android:keyLabel="@string/label_phone_key"
-       android:popupKeyboard="@xml/kbd_popup_template"
-       android:popupCharacters="_"
-       android:keyEdgeFlags="left"/>
+ <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+   android:iconPreview="@drawable/sym_keyboard_feedback_done"
+   android:keyWidth="20%p" android:keyEdgeFlags="left"/>
    <Key android:keyLabel="+"/>
    <Key android:codes="32" android:keyIcon="@drawable/sym_keyboard_space"
        android:iconPreview="@drawable/sym_keyboard_feedback_space"
@@ -65,9 +64,10 @@
    <!-- <Key android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"
        android:keyWidth="20%p"
        android:keyEdgeFlags="right"/> -->
- <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-   android:iconPreview="@drawable/sym_keyboard_feedback_done"
-   android:keyWidth="20%p" android:keyEdgeFlags="right"/>
+   <Key android:codes="-2" android:keyLabel="@string/label_phone_key"
+       android:popupKeyboard="@xml/kbd_popup_template"
+       android:popupCharacters="_"
+       android:keyEdgeFlags="right"/>
</Row>

```

</Keyboard>

\ No newline at end of file

diff --git a/source/res/xml/kbd_qwerty.xml b/source/res/xml/kbd_qwerty.xml

index 0948022..3316114 100644

--- a/source/res/xml/kbd_qwerty.xml

+++ b/source/res/xml/kbd_qwerty.xml

@@ -110,10 +110,9 @@

</Row>

```

<Row android:keyboardMode="@+id/mode_normal" android:rowEdgeFlags="bottom">
-   <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
-       android:popupKeyboard="@xml/kbd_popup_template"
-       android:popupCharacters="_"
-       android:keyWidth="20%p" android:keyEdgeFlags="left"/>
+   <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+   android:iconPreview="@drawable/sym_keyboard_feedback_done"
+   android:keyWidth="15%p" android:keyEdgeFlags="left"/>
    <Key android:keyLabel="," android:keyWidth="10%p" />
    <Key android:codes="32" android:keyIcon="@drawable/sym_keyboard_space"
        android:iconPreview="@drawable/sym_keyboard_feedback_space"

```

@@ -123,16 +122,16 @@

```

    <Key android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"
        android:iconPreview="@drawable/sym_keyboard_feedback_return"
        android:keyWidth="20%p" />
- <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-   android:iconPreview="@drawable/sym_keyboard_feedback_done"
-   android:keyWidth="15%p" android:keyEdgeFlags="right"/>
+ <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
+   android:popupKeyboard="@xml/kbd_popup_template"
+   android:popupCharacters="_"
+   android:keyWidth="20%p" android:keyEdgeFlags="right"/>
</Row>

```

```

<Row android:keyboardMode="@+id/mode_url" android:rowEdgeFlags="bottom">
-   <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
-       android:popupKeyboard="@xml/kbd_popup_template"
-       android:popupCharacters="_"
-       android:keyWidth="20%p" android:keyEdgeFlags="left"/>
+   <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+   android:iconPreview="@drawable/sym_keyboard_feedback_done"
+   android:keyWidth="15%p" android:keyEdgeFlags="left"/>
    <!-- <Key android:keyLabel="@string/popular_domain_0"
        android:keyOutputText="@string/popular_domain_0"
        android:popupKeyboard="@xml/popup_domains"

```

@@ -146,16 +145,16 @@

```

    <Key android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"
        android:iconPreview="@drawable/sym_keyboard_feedback_return"
        android:keyWidth="20%p" />

```

```

- <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-   android:iconPreview="@drawable/sym_keyboard_feedback_done"
-   android:keyWidth="15%p" android:keyEdgeFlags="right"/>
- </Row>
-
- <Row android:keyboardMode="@+id/mode_email" android:rowEdgeFlags="bottom">
-   <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
-     android:popupKeyboard="@xml/kbd_popup_template"
-     android:popupCharacters="_"
-     android:keyWidth="20%p" android:keyEdgeFlags="left"/>
+     android:keyWidth="20%p" android:keyEdgeFlags="right"/>
+ </Row>
+
+ <Row android:keyboardMode="@+id/mode_email" android:rowEdgeFlags="bottom">
+   <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+     android:iconPreview="@drawable/sym_keyboard_feedback_done"
+     android:keyWidth="15%p" android:keyEdgeFlags="left"/>
+     <Key android:keyLabel="\@" android:keyWidth="15%p"/>
+     <!-- <Key android:keyLabel="@string/popular_domain_0"
+       android:keyOutputText="@string/popular_domain_0"
@@ -169,17 +168,18 @@
+     <Key android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"
+       android:iconPreview="@drawable/sym_keyboard_feedback_return"
+       android:keyWidth="20%p"/>
- <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-   android:iconPreview="@drawable/sym_keyboard_feedback_done"
-   android:keyWidth="15%p" android:keyEdgeFlags="right"/>
+ <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
+   android:popupKeyboard="@xml/kbd_popup_template"
+   android:popupCharacters="_"
+   android:keyWidth="20%p" android:keyEdgeFlags="right"/>
+ </Row>
+
+ <Row android:keyboardMode="@+id/mode_im" android:rowEdgeFlags="bottom">
-   <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
-     android:popupKeyboard="@xml/kbd_popup_template"
-     android:popupCharacters="_"
-     android:keyWidth="20%p" android:keyEdgeFlags="left"
-     android:state_single="true"/>
+   <Key
+     android:codes="-4"
+     android:keyIcon="@drawable/sym_keyboard_done"
+     android:iconPreview="@drawable/sym_keyboard_feedback_done"
+     android:keyWidth="15%p" android:keyEdgeFlags="left" />
+     <Key android:keyLabel="," android:keyWidth="10%p"/>
+     <Key android:codes="32" android:keyIcon="@drawable/sym_keyboard_space"
+       android:iconPreview="@drawable/sym_keyboard_feedback_space"
@@ -193,10 +193,10 @@
+     android:keyLabel=":-)" android:keyOutputText=":-)"
+     android:popupKeyboard="@xml/popup_smileys"
+     android:keyWidth="20%p" />
- <Key
-   android:codes="-4"
-   android:keyIcon="@drawable/sym_keyboard_done"
-   android:iconPreview="@drawable/sym_keyboard_feedback_done"
-   android:keyWidth="15%p" android:keyEdgeFlags="right" />
+   <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
+     android:popupKeyboard="@xml/kbd_popup_template"
+     android:popupCharacters="_"
+     android:keyWidth="20%p" android:keyEdgeFlags="right"
+     android:state_single="true"/>
+ </Row>
+ </Keyboard>
diff --git a/source/res/xml/kbd_qwerty_variants.xml b/source/res/xml/kbd_qwerty_variants.xml
index f369d87..bd50c14 100644
--- a/source/res/xml/kbd_qwerty_variants.xml
+++ b/source/res/xml/kbd_qwerty_variants.xml
@@ -110,10 +110,9 @@
</Row>

<Row android:keyboardMode="@+id/mode_normal" android:rowEdgeFlags="bottom">
-   <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
-     android:popupKeyboard="@xml/kbd_popup_template"

```

```

-         android:popupCharacters="_"
-         android:keyWidth="20%p" android:keyEdgeFlags="left"/>
+         <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+         android:iconPreview="@drawable/sym_keyboard_feedback_done"
+         android:keyWidth="15%p" android:keyEdgeFlags="left"/>
+         <Key android:keyLabel="," android:keyWidth="10%p" />
+         <Key android:codes="32" android:keyIcon="@drawable/sym_keyboard_space"
+         android:iconPreview="@drawable/sym_keyboard_feedback_space"
@@ -123,16 +122,16 @@
+         <Key android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"
+         android:iconPreview="@drawable/sym_keyboard_feedback_return"
+         android:keyWidth="20%p" />
-         <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-         android:iconPreview="@drawable/sym_keyboard_feedback_done"
-         android:keyWidth="15%p" android:keyEdgeFlags="right"/>
+         <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
+         android:popupKeyboard="@xml/kbd_popup_template"
+         android:popupCharacters="_"
+         android:keyWidth="20%p" android:keyEdgeFlags="right"/>
+     </Row>
+
+     <Row android:keyboardMode="@+id/mode_url" android:rowEdgeFlags="bottom">
-         <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
-         android:popupKeyboard="@xml/kbd_popup_template"
-         android:popupCharacters="_"
-         android:keyWidth="20%p" android:keyEdgeFlags="left"/>
+         <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+         android:iconPreview="@drawable/sym_keyboard_feedback_done"
+         android:keyWidth="15%p" android:keyEdgeFlags="left"/>
+         <!-- <Key android:keyLabel="@string/popular_domain_0"
+         android:keyOutputText="@string/popular_domain_0"
+         android:popupKeyboard="@xml/popup_domains"
@@ -146,16 +145,16 @@
+         <Key android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"
+         android:iconPreview="@drawable/sym_keyboard_feedback_return"
+         android:keyWidth="20%p" />
-         <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-         android:iconPreview="@drawable/sym_keyboard_feedback_done"
-         android:keyWidth="15%p" android:keyEdgeFlags="right"/>
-     </Row>
-
-     <Row android:keyboardMode="@+id/mode_email" android:rowEdgeFlags="bottom">
+         <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
+         android:popupKeyboard="@xml/kbd_popup_template"
+         android:popupCharacters="_"
+         android:keyWidth="20%p" android:keyEdgeFlags="left"/>
+         <Key android:keyWidth="20%p" android:keyEdgeFlags="right"/>
+     </Row>
+
+     <Row android:keyboardMode="@+id/mode_email" android:rowEdgeFlags="bottom">
+     <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+     android:iconPreview="@drawable/sym_keyboard_feedback_done"
+     android:keyWidth="15%p" android:keyEdgeFlags="left"/>
+     <Key android:keyLabel="\@" android:keyWidth="15%p"/>
+     <!-- <Key android:keyLabel="@string/popular_domain_0"
+     android:keyOutputText="@string/popular_domain_0"
@@ -169,17 +168,17 @@
+     <Key android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"
+     android:iconPreview="@drawable/sym_keyboard_feedback_return"
+     android:keyWidth="20%p"/>
-     <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-     android:iconPreview="@drawable/sym_keyboard_feedback_done"
-     android:keyWidth="15%p" android:keyEdgeFlags="right"/>
-     </Row>
-
-     <Row android:keyboardMode="@+id/mode_im" android:rowEdgeFlags="bottom">
+     <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
+     android:popupKeyboard="@xml/kbd_popup_template"
+     android:popupCharacters="_"
+     android:keyWidth="20%p" android:keyEdgeFlags="left"
+     android:state_single="true"/>
+     <Key android:keyWidth="20%p" android:keyEdgeFlags="right"/>
+     </Row>

```

```

+
+ <Row android:keyboardMode="@+id/mode_im" android:rowEdgeFlags="bottom">
+ <Key android:codes="-4"
+   android:keyIcon="@drawable/sym_keyboard_done"
+   android:iconPreview="@drawable/sym_keyboard_feedback_done"
+   android:keyWidth="15%p" android:keyEdgeFlags="left" />
+     <Key android:keyLabel="," android:keyWidth="10%p" />
+     <Key android:codes="32" android:keyIcon="@drawable/sym_keyboard_space"
+       android:iconPreview="@drawable/sym_keyboard_feedback_space"
@@ -193,10 +192,10 @@
+       android:keyLabel=":-)" android:keyOutputText=":-) "
+       android:popupKeyboard="@xml/popup_smileys"
+       android:keyWidth="20%p" />
- <Key
-   android:codes="-4"
-   android:keyIcon="@drawable/sym_keyboard_done"
-   android:iconPreview="@drawable/sym_keyboard_feedback_done"
-   android:keyWidth="15%p" android:keyEdgeFlags="right" />
+ <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
+   android:popupKeyboard="@xml/kbd_popup_template"
+   android:popupCharacters="_"
+   android:keyWidth="20%p" android:keyEdgeFlags="right"
+   android:state_single="true" />
+ </Row>
</Keyboard>
diff --git a/source/res/xml/kbd_qwerty_voice.xml b/source/res/xml/kbd_qwerty_voice.xml
index 839e3ac..0b82eb8 100755
--- a/source/res/xml/kbd_qwerty_voice.xml
+++ b/source/res/xml/kbd_qwerty_voice.xml
@@ -116,10 +116,9 @@
+   android:keyboardMode="@+id/mode_normal"
+   android:rowEdgeFlags="bottom">
+ <Key
-   android:codes="-2" android:keyLabel="@string/label_symbol_key"
-   android:popupKeyboard="@xml/kbd_popup_template"
-   android:popupCharacters="_"
-   android:keyWidth="16%p" android:keyEdgeFlags="left" />
+   android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+   android:iconPreview="@drawable/sym_keyboard_feedback_done"
+   android:keyWidth="14%p" android:keyEdgeFlags="left" />
+ <Key
+   android:codes="@integer/key_voice"
+   android:keyIcon="@drawable/sym_keyboard_mic"
@@ -139,20 +138,19 @@
+   android:iconPreview="@drawable/sym_keyboard_feedback_return"
+   android:keyWidth="16%p" />
+ <Key
-   android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-   android:iconPreview="@drawable/sym_keyboard_feedback_done"
-   android:keyWidth="14%p" android:keyEdgeFlags="right" />
+   android:codes="-2" android:keyLabel="@string/label_symbol_key"
+   android:popupKeyboard="@xml/kbd_popup_template"
+   android:popupCharacters="_"
+   android:keyWidth="16%p" android:keyEdgeFlags="right" />
+ </Row>
</Row>
+ <Row
+   android:keyboardMode="@+id/mode_url"
+   android:rowEdgeFlags="bottom">
+ <Key
-   android:codes="-2"
-   android:keyLabel="@string/label_symbol_key"
-   android:popupKeyboard="@xml/kbd_popup_template"
-   android:popupCharacters="_" android:keyWidth="16%p"
-   android:keyEdgeFlags="left" />
+   android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+   android:iconPreview="@drawable/sym_keyboard_feedback_done"
+   android:keyWidth="14%p" android:keyEdgeFlags="left" />
+ <Key
+   android:codes="@integer/key_voice"
+   android:keyIcon="@drawable/sym_keyboard_mic"
@@ -177,18 +175,20 @@
+   android:iconPreview="@drawable/sym_keyboard_feedback_return"

```



```

    android:keyWidth="16%p" />
<Key
-   android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-   android:iconPreview="@drawable/sym_keyboard_feedback_done"
-   android:keyWidth="14%p" android:keyEdgeFlags="right" />
+   android:codes="-2"
+   android:keyLabel="@string/label_symbol_key"
+   android:popupKeyboard="@xml/kbd_popup_template"
+   android:popupCharacters="_" android:keyWidth="16%p"
+   android:keyEdgeFlags="right" />
</Row>

<Row
    android:keyboardMode="@+id/mode_email"
    android:rowEdgeFlags="bottom">
-   <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
-       android:popupKeyboard="@xml/kbd_popup_template"
-       android:popupCharacters="_"
-       android:keyWidth="16%p" android:keyEdgeFlags="left"/>
+   <Key
+       android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+       android:iconPreview="@drawable/sym_keyboard_feedback_done"
+       android:keyWidth="14%p" android:keyEdgeFlags="left"/>
<Key
    android:codes="@integer/key_voice"
    android:keyIcon="@drawable/sym_keyboard_mic"
@@ -212,22 +212,20 @@
    android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"
    android:iconPreview="@drawable/sym_keyboard_feedback_return"
    android:keyWidth="16%p"/>
-   <Key
-       android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-       android:iconPreview="@drawable/sym_keyboard_feedback_done"
-       android:keyWidth="14%p" android:keyEdgeFlags="right"/>
+   <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
+       android:popupKeyboard="@xml/kbd_popup_template"
+       android:popupCharacters="_"
+       android:keyWidth="16%p" android:keyEdgeFlags="right"/>
</Row>

<Row
    android:keyboardMode="@+id/mode_im"
    android:rowEdgeFlags="bottom">
<Key
-   android:codes="-2"
-   android:keyLabel="@string/label_symbol_key"
-   android:popupKeyboard="@xml/kbd_popup_template"
-   android:popupCharacters="_"
-   android:keyWidth="16%p"
-   android:keyEdgeFlags="left" />
+   android:codes="-4"
+   android:keyIcon="@drawable/sym_keyboard_done"
+   android:iconPreview="@drawable/sym_keyboard_feedback_done"
+   android:keyWidth="14%p" android:keyEdgeFlags="left" />
<Key
    android:codes="@integer/key_voice"
    android:keyIcon="@drawable/sym_keyboard_mic"
@@ -252,10 +250,12 @@
    android:popupKeyboard="@xml/popup_smileys"
    android:keyWidth="16%p" />
<Key
-   android:codes="-4"
-   android:keyIcon="@drawable/sym_keyboard_done"
-   android:iconPreview="@drawable/sym_keyboard_feedback_done"
-   android:keyWidth="14%p" android:keyEdgeFlags="right" />
+   android:codes="-2"
+   android:keyLabel="@string/label_symbol_key"
+   android:popupKeyboard="@xml/kbd_popup_template"
+   android:popupCharacters="_"
+   android:keyWidth="16%p"
+   android:keyEdgeFlags="right" />
</Row>
</Keyboard>

```

```
diff --git a/source/res/xml/kbd_qwerty_voice_variants.xml b/source/res/xml/kbd_qwerty_voice_variants.xml
index 1182370..05bcad5 100755
--- a/source/res/xml/kbd_qwerty_voice_variants.xml
+++ b/source/res/xml/kbd_qwerty_voice_variants.xml
@@ -116,10 +116,9 @@
    android:keyboardMode="@+id/mode_normal"
    android:rowEdgeFlags="bottom">
    <Key
-    android:codes="-2" android:keyLabel="@string/label_symbol_key"
-    android:popupKeyboard="@xml/kbd_popup_template"
-    android:popupCharacters="_"
-    android:keyWidth="16%p" android:keyEdgeFlags="left"/>
+    android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+    android:iconPreview="@drawable/sym_keyboard_feedback_done"
+    android:keyWidth="14%p" android:keyEdgeFlags="left"/>
    <Key
    android:codes="@integer/key_voice"
    android:keyIcon="@drawable/sym_keyboard_mic"
@@ -139,20 +138,20 @@
    android:iconPreview="@drawable/sym_keyboard_feedback_return"
    android:keyWidth="16%p" />
    <Key
-    android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-    android:iconPreview="@drawable/sym_keyboard_feedback_done"
-    android:keyWidth="14%p" android:keyEdgeFlags="right"/>
+    android:codes="-2" android:keyLabel="@string/label_symbol_key"
+    android:popupKeyboard="@xml/kbd_popup_template"
+    android:popupCharacters="_"
+    android:keyWidth="16%p" android:keyEdgeFlags="right"/>
+
</Row>

<Row
    android:keyboardMode="@+id/mode_url"
    android:rowEdgeFlags="bottom">
    <Key
-    android:codes="-2"
-    android:keyLabel="@string/label_symbol_key"
-    android:popupKeyboard="@xml/kbd_popup_template"
-    android:popupCharacters="_" android:keyWidth="16%p"
-    android:keyEdgeFlags="left" />
+    android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+    android:iconPreview="@drawable/sym_keyboard_feedback_done"
+    android:keyWidth="14%p" android:keyEdgeFlags="left" />
    <Key
    android:codes="@integer/key_voice"
    android:keyIcon="@drawable/sym_keyboard_mic"
@@ -177,18 +176,22 @@
    android:iconPreview="@drawable/sym_keyboard_feedback_return"
    android:keyWidth="16%p" />
    <Key
-    android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-    android:iconPreview="@drawable/sym_keyboard_feedback_done"
-    android:keyWidth="14%p" android:keyEdgeFlags="right" />
+    android:codes="-2"
+    android:keyLabel="@string/label_symbol_key"
+    android:popupKeyboard="@xml/kbd_popup_template"
+    android:popupCharacters="_" android:keyWidth="16%p"
+    android:keyEdgeFlags="right" />
+
</Row>

<Row
    android:keyboardMode="@+id/mode_email"
    android:rowEdgeFlags="bottom">
-    <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
-    android:popupKeyboard="@xml/kbd_popup_template"
-    android:popupCharacters="_"
-    android:keyWidth="16%p" android:keyEdgeFlags="left"/>
+    <Key
+    android:codes="-4"
+    android:keyIcon="@drawable/sym_keyboard_done"
```



```

+     android:iconPreview="@drawable/sym_keyboard_feedback_done"
+     android:keyWidth="14%p" android:keyEdgeFlags="left" />
<Key
  android:codes="@integer/key_voice"
  android:keyIcon="@drawable/sym_keyboard_mic"
@@ -212,22 +215,22 @@
  android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"
  android:iconPreview="@drawable/sym_keyboard_feedback_return"
  android:keyWidth="16%p"/>
- <Key
-   android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-   android:iconPreview="@drawable/sym_keyboard_feedback_done"
-   android:keyWidth="14%p" android:keyEdgeFlags="right"/>
+ <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
+   android:popupKeyboard="@xml/kbd_popup_template"
+   android:popupCharacters="_"
+   android:keyWidth="16%p" android:keyEdgeFlags="right"/>
+
+
</Row>

```

```

<Row
  android:keyboardMode="@+id/mode_im"
  android:rowEdgeFlags="bottom">
  <Key
-   android:codes="-2"
-   android:keyLabel="@string/label_symbol_key"
-   android:popupKeyboard="@xml/kbd_popup_template"
-   android:popupCharacters="_"
-   android:keyWidth="16%p"
-   android:keyEdgeFlags="left" />
+   android:codes="-4"
+   android:keyIcon="@drawable/sym_keyboard_done"
+   android:iconPreview="@drawable/sym_keyboard_feedback_done"
+   android:keyWidth="14%p" android:keyEdgeFlags="left" />
  <Key
    android:codes="@integer/key_voice"
    android:keyIcon="@drawable/sym_keyboard_mic"
@@ -252,10 +255,12 @@
      android:popupKeyboard="@xml/popup_smileys"
      android:keyWidth="16%p" />
  <Key
-   android:codes="-4"
-   android:keyIcon="@drawable/sym_keyboard_done"
-   android:iconPreview="@drawable/sym_keyboard_feedback_done"
-   android:keyWidth="14%p" android:keyEdgeFlags="right" />
+   android:codes="-2"
+   android:keyLabel="@string/label_symbol_key"
+   android:popupKeyboard="@xml/kbd_popup_template"
+   android:popupCharacters="_"
+   android:keyWidth="16%p"
+   android:keyEdgeFlags="right" />
  </Row>
</Keyboard>

```

```

diff --git a/source/res/xml/kbd_symbols.xml b/source/res/xml/kbd_symbols.xml
index 96a22d8..78e385b 100755

```

```

--- a/source/res/xml/kbd_symbols.xml
+++ b/source/res/xml/kbd_symbols.xml
@@ -122,10 +122,9 @@
  </Row>

```

```

  <Row android:rowEdgeFlags="bottom">
-   <Key android:codes="-2" android:keyLabel="@string/label_alpha_key"
-     android:popupKeyboard="@xml/kbd_popup_template"
-     android:popupCharacters="_"
-     android:keyWidth="20%p" android:keyEdgeFlags="left"/>
+   <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+     android:iconPreview="@drawable/sym_keyboard_feedback_done"
+     android:keyWidth="15%p" android:keyEdgeFlags="left"/>
+   <Key android:keyLabel="," android:keyWidth="10%p"
+     android:popupKeyboard="@xml/kbd_popup_template"
+     android:popupCharacters="," />

```

```

@@ -136,10 +135,11 @@
        android:isRepeatable="true"/>
        <Key android:keyLabel="." android:keyWidth="10%p" />
        <Key android:codes="10" android:keyIcon="@drawable/sym_keyboard_return" android:keyWidth="20%p"
-         android:iconPreview="@drawable/sym_keyboard_feedback_return"
-         />
- <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-     android:iconPreview="@drawable/sym_keyboard_feedback_done"
-     android:keyWidth="15%p" android:keyEdgeFlags="right"/>
+     android:iconPreview="@drawable/sym_keyboard_feedback_return" />
+     <Key android:codes="-2" android:keyLabel="@string/label_alpha_key"
+     android:popupKeyboard="@xml/kbd_popup_template"
+     android:popupCharacters="_"
+     android:keyWidth="20%p" android:keyEdgeFlags="right"/>
+
    </Row>
</Keyboard>
\ No newline at end of file
diff --git a/source/res/xml/kbd_symbols_shift.xml b/source/res/xml/kbd_symbols_shift.xml
index 6642bd3..d4dce5e 100755
--- a/source/res/xml/kbd_symbols_shift.xml
+++ b/source/res/xml/kbd_symbols_shift.xml
@@ -86,10 +86,9 @@
    </Row>

    <Row android:rowEdgeFlags="bottom">
-     <Key android:codes="-2" android:keyLabel="@string/label_alpha_key" android:keyWidth="20%p"
-     android:popupKeyboard="@xml/kbd_popup_template"
-     android:popupCharacters="_"
-     android:keyEdgeFlags="left"/>
+ <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+     android:iconPreview="@drawable/sym_keyboard_feedback_done"
+     android:keyWidth="15%p" android:keyEdgeFlags="left"/>
+     <Key android:keyLabel="," android:keyWidth="10%p" />
+     <Key android:codes="32" android:keyIcon="@drawable/sym_keyboard_space"
+     android:keyWidth="25%p"
@@ -100,8 +99,10 @@
        android:keyWidth="20%p"
        android:iconPreview="@drawable/sym_keyboard_feedback_return"
    />
- <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-     android:iconPreview="@drawable/sym_keyboard_feedback_done"
-     android:keyWidth="15%p" android:keyEdgeFlags="right"/>
+     <Key android:codes="-2" android:keyLabel="@string/label_alpha_key" android:keyWidth="20%p"
+     android:popupKeyboard="@xml/kbd_popup_template"
+     android:popupCharacters="_"
+     android:keyEdgeFlags="right"/>
+
    </Row>
</Keyboard>

```

```

commit 19108311bea2170a117116cd61a0e139ac647cc5
Author: Ankit Daftery <ankitdaf@gmail.com>
Date: Sun Jun 10 00:19:09 2012 +0530

```

Added support for temporary disconnect

```

diff --git a/source/src/ca/idi/tekla/TeclaPrefs.java b/source/src/ca/idi/tekla/TeclaPrefs.java
index 55fc1bf..b855863 100644
--- a/source/src/ca/idi/tekla/TeclaPrefs.java
+++ b/source/src/ca/idi/tekla/TeclaPrefs.java
@@ -341,6 +341,7 @@ implements SharedPreferences.OnSharedPreferenceChangeListener {
    }
    if (key.equals(Persistence.PREF_TEMP_SHIELD_DISCONNECT)) {
        if(mPrefTempDisconnect.isChecked()) {
+         mPrefConnectToShield.setEnabled(false);
            stopSEP();
            Handler mHandler = new Handler();
            Runnable mReconnect = new Runnable() {
@@ -348,7 +349,8 @@ implements SharedPreferences.OnSharedPreferenceChangeListener {
    @Override
    public void run() {
        if (TeclaApp.DEBUG) Log.d(TeclaApp.TAG, CLASS_TAG + "Re-enabling discovery");
    }
}

```

```

-         discoverShield();
+         discoverShield();
+         mPrefConnectToShield.setEnabled(true);
    }
};

```

commit 0f301141ccb022251ebf6b28dc897958ee088bfc
Author: Ankit Daftery <ankitdaf@gmail.com>
Date: Tue Jun 5 22:15:20 2012 +0530

Added Runnable for temp disconnect. Not completely tested

```

diff --git a/README.md b/README.md
index 3d2fa85..8690296 100644
--- a/README.md
+++ b/README.md
@@ -18,7 +18,8 @@ In order to start contributing code to the Tecla Access project, follow the step
 3. Download and install the [Android SDK](http://developer.android.com/sdk/index.html)
 4. Create a new Android project in Eclipse named *Tecla Access* (target Android 2.0)
 5. Import the *Tecla Access* project's source from the *source* directory in your local repo (you may
need to let Eclipse copy the source to the workspace)
-6. Create a new Android **library** project in Eclipse named *Tecla Access SDK* (target Android 2.0)
+6. Create a new Android **library** project in Eclipse named *Tecla Access SDK*
+6a.If you have Eclipse 3.6 (Helios) or older, you may not have a **library** project option. In that
case, just import the *Tecla Access SDK* project like a normal project, then right click on the project ->
Properties -> Android and make sure **Is Library** is checked.
 7. Import the *Tecla Access SDK* project's source from the *sdk* directory in your local repo (you may
need to let Eclipse copy the source to the workspace)
 8. Go to the properties of your *Tecla Access* project and add the project *Tecla Access SDK* as a
library
 9. You should now be able to compile the project

```

```

diff --git a/source/src/ca/idi/tekla/TeclaPrefs.java b/source/src/ca/idi/tekla/TeclaPrefs.java
index c3cbe62..55fc1bf 100644

```

```

--- a/source/src/ca/idi/tekla/TeclaPrefs.java
+++ b/source/src/ca/idi/tekla/TeclaPrefs.java
@@ -25,6 +25,7 @@ import ca.idi.tekla.util.NavKbdTimeoutDialog;
 import ca.idi.tekla.util.Persistence;
 import ca.idi.tekla.util.ScanSpeedDialog;

+import android.R.bool;
 import android.app.ProgressDialog;
 import android.bluetooth.BluetoothAdapter;
 import android.bluetooth.BluetoothDevice;
@@ -37,6 +38,7 @@ import android.content.Intent;
 import android.content.IntentFilter;
 import android.content.SharedPreferences;
 import android.os.Bundle;
+import android.os.Handler;
 import android.preference.CheckBoxPreference;
 import android.preference.Preference;
 import android.preference.PreferenceActivity;
@@ -337,6 +339,34 @@ implements SharedPreferences.OnSharedPreferenceChangeListener {
     stopSEP();
 }
 }
+
+ if (key.equals(Persistence.PREF_TEMP_SHIELD_DISCONNECT)) {
+     if(mPrefTempDisconnect.isChecked()) {
+         stopSEP();
+         Handler mHandler = new Handler();
+         Runnable mReconnect = new Runnable() {
+
+             @Override
+             public void run() {
+                 if (TeclaApp.DEBUG) Log.d(TeclaApp.TAG, CLASS_TAG + "Re-enabling discovery");
+                 discoverShield();
+             }
+         };
+     };
+
+     // See if the handler was posted
+     if(mHandler.postDelayed(mReconnect, 90000)) // 90 second delay
+     {
+         if (TeclaApp.DEBUG) Log.d(TeclaApp.TAG, CLASS_TAG + "Posted Runnable");
+     }
+ }

```

```

+     }
+     else
+     {
+         if (TeclaApp.DEBUG) Log.d(TeclaApp.TAG, CLASS_TAG + "Could not post Runnable");
+     }
+
+     }
+     else {
+
+     }
+ }
+ if (key.equals(Persistence.PREF_FULLSCREEN_SWITCH)) {
+     if (mPrefFullScreenSwitch.isChecked()) {
+         mPrefPersistentKeyboard.setChecked(true);

```

```

commit 48cfb66abe1074ce694c614fe498388dd6a64287
Author: Ankit Daftery <ankitdaf@gmail.com>
Date: Tue Jun 5 00:54:11 2012 +0530

```

Added Placeholder for Temporary Disconnect

```

diff --git a/.gitignore b/.gitignore
index 935f24c..772d0ed 100644
--- a/.gitignore
+++ b/.gitignore
@@ -2,3 +2,5 @@
 *gen/
 *.settings
 *.~
+*.properties
+*.classpath
diff --git a/sdk/project.properties b/sdk/project.properties
index ab7385d..a2de03e 100644
--- a/sdk/project.properties
+++ b/sdk/project.properties
@@ -8,5 +8,5 @@
 # project structure.

 # Project target.
-target=android-5
+target=android-8
 android.library=true
diff --git a/source/.classpath b/source/.classpath
index d593b44..a4763d1 100644
--- a/source/.classpath
+++ b/source/.classpath
@@ -4,6 +4,5 @@
 <classpathentry kind="src" path="gen"/>
 <classpathentry kind="con" path="com.android.ide.eclipse.adt.ANDROID_FRAMEWORK"/>
 <classpathentry kind="con" path="com.android.ide.eclipse.adt.LIBRARIES"/>
- <classpathentry combineaccessrules="false" kind="src" path="/TeclaAccess SDK"/>
 <classpathentry kind="output" path="bin/classes"/>
</classpath>
diff --git a/source/project.properties b/source/project.properties
index 58cae00..f73f12a 100644
--- a/source/project.properties
+++ b/source/project.properties
@@ -8,5 +8,5 @@
 # project structure.

 # Project target.
-target=android-5
+target=android-8
 android.library.reference.1=../sdk
diff --git a/source/res/layout/activity_prefs.xml b/source/res/layout/activity_prefs.xml
index 1d87724..c402f0e 100644
--- a/source/res/layout/activity_prefs.xml
+++ b/source/res/layout/activity_prefs.xml
@@ -61,6 +61,13 @@
     android:defaultValue="false"
 />
 <CheckBoxPreference
+ android:key="shield_temp_disconnect"

```

```

+     android:title="@string/shield_temp_disconnect"
+     android:summary="@string/shield_temp_disconnect_summary"
+     android:persistent="true"
+     android:defaultValue="false"
+     />
+ <CheckBoxPreference
+     android:key="fullscreen_switch"
+     android:title="@string/fullscreen_switch"
+     android:summary="@string/fullscreen_switch_summary"
diff --git a/source/res/values/strings.xml b/source/res/values/strings.xml
index 56791c2..9a3c415 100644
--- a/source/res/values/strings.xml
+++ b/source/res/values/strings.xml
@@ -228,6 +228,10 @@
<string name="shield_connect_summary_BT_disabled">Bluetooth is disabled</string>
<string name="shield_connect_summary">Check to connect to a nearby Tecla Shield</string>

+ <!-- Option to temporarily disconnect Tecla shield -->
+ <string name="shield_temp_disconnect">Temporarily Disconnect Tecla Shield</string>
+ <string name="shield_temp_disconnect_summary">Check to allow another device to connect to Tecla
Shield</string>
+
+     <!-- Option to enable fullscreen switch mode -->
+     <string name="fullscreen_switch">Fullscreen switch mode</string>
+     <string name="fullscreen_switch_summary">Uses the entire screen as a single switch</string>
diff --git a/source/src/ca/idi/tekla/TeclaPrefs.java b/source/src/ca/idi/tekla/TeclaPrefs.java
index 71c5d88..c3cbe62 100644
--- a/source/src/ca/idi/tekla/TeclaPrefs.java
+++ b/source/src/ca/idi/tekla/TeclaPrefs.java
@@ -65,6 +65,7 @@ implements SharedPreferences.OnSharedPreferenceChangeListener {
private CheckBoxPreference mPrefPersistentKeyboard;
private Preference mPrefAutohideTimeout;
private CheckBoxPreference mPrefConnectToShield;
+ private CheckBoxPreference mPrefTempDisconnect;
private CheckBoxPreference mPrefFullScreenSwitch;
private CheckBoxPreference mPrefSelfScanning;
private CheckBoxPreference mPrefInverseScanning;
@@ -98,6 +99,7 @@ implements SharedPreferences.OnSharedPreferenceChangeListener {
mAutohideTimeoutDialog = new NavKbdTimeoutDialog(this);
mAutohideTimeoutDialog.setContentview(R.layout.dialog_autohide_timeout);
mPrefConnectToShield = (CheckBoxPreference) findPreference(Persistence.PREF_CONNECT_TO_SHIELD);
+ mPrefTempDisconnect = (CheckBoxPreference) findPreference(Persistence.PREF_TEMP_SHIELD_DISCONNECT);
mPrefFullScreenSwitch = (CheckBoxPreference) findPreference(Persistence.PREF_FULLSCREEN_SWITCH);
mPrefSelfScanning = (CheckBoxPreference) findPreference(Persistence.PREF_SELF_SCANNING);
mPrefInverseScanning = (CheckBoxPreference) findPreference(Persistence.PREF_INVERSE_SCANNING);
@@ -117,6 +119,8 @@ implements SharedPreferences.OnSharedPreferenceChangeListener {

// If no alternative input selected, disable scanning
if (!mPrefConnectToShield.isChecked() && !mPrefFullScreenSwitch.isChecked()) {
+     mPrefTempDisconnect.setChecked(false);
+     mPrefTempDisconnect.setEnabled(false);
+     mPrefSelfScanning.setChecked(false);
+     mPrefInverseScanning.setChecked(false);
+     mPrefSelfScanning.setEnabled(false);
@@ -131,6 +135,7 @@ implements SharedPreferences.OnSharedPreferenceChangeListener {
mPrefAutohideTimeout.setEnabled(false);
mPrefFullScreenSwitch.setEnabled(false);
mPrefConnectToShield.setEnabled(false);
+ mPrefTempDisconnect.setEnabled(false);
+ mPrefSelfScanning.setEnabled(false);
+ mPrefInverseScanning.setEnabled(false);
TeclaApp.getInstance().showToast(R.string.tecla_notselected);
@@ -229,6 +234,8 @@ implements SharedPreferences.OnSharedPreferenceChangeListener {
dismissDialog();
if (!mConnectionCancelled) TeclaApp.getInstance().showToast(R.string.no_shields_inrange);
mPrefConnectToShield.setChecked(false);
+ mPrefTempDisconnect.setChecked(false);
+ mPrefTempDisconnect.setEnabled(false);
}
}
@@ -238,6 +245,7 @@ implements SharedPreferences.OnSharedPreferenceChangeListener {
dismissDialog();

```

```

TeclaApp.getInstance().showToast(R.string.shield_connected);
// Enable scanning checkboxes so they can be turned on/off
+ mPrefTempDisconnect.setEnabled(true);
+ mPrefSelfScanning.setEnabled(true);
+ mPrefInverseScanning.setEnabled(true);
}
@@ -245,6 +253,8 @@ implements SharedPreferences.OnSharedPreferenceChangeListener {
    if (intent.getAction().equals(SwitchEventProvider.ACTION_SHIELD_DISCONNECTED)) {
        if (TeclaApp.DEBUG) Log.d(TeclaApp.TAG, CLASS_TAG + "SEP broadcast stopped");
        dismissDialog();
+ mPrefTempDisconnect.setChecked(false);
+ mPrefTempDisconnect.setEnabled(false);
    }
}
};
@@ -285,6 +295,8 @@ implements SharedPreferences.OnSharedPreferenceChangeListener {
    mPrefInverseScanning.setEnabled(false);
    mPrefFullScreenSwitch.setChecked(false);
    mPrefConnectToShield.setChecked(false);
+ mPrefTempDisconnect.setChecked(false);
+ mPrefTempDisconnect.setEnabled(false);
    TeclaApp.getInstance().requestHideIMEView();
}
}
@@ -299,6 +311,8 @@ implements SharedPreferences.OnSharedPreferenceChangeListener {
    mPrefInverseScanning.setEnabled(false);
    mPrefFullScreenSwitch.setChecked(false);
    mPrefConnectToShield.setChecked(false);
+ mPrefTempDisconnect.setChecked(false);
+ mPrefTempDisconnect.setEnabled(false);
    TeclaApp.getInstance().requestHideIMEView();
}
}
@@ -313,6 +327,8 @@ implements SharedPreferences.OnSharedPreferenceChangeListener {
    // Should perhaps use Binding?
    dismissDialog();
    if (!mPrefFullScreenSwitch.isChecked()) {
+ mPrefTempDisconnect.setChecked(false);
+ mPrefTempDisconnect.setEnabled(false);
        mPrefSelfScanning.setChecked(false);
        mPrefSelfScanning.setEnabled(false);
        mPrefInverseScanning.setChecked(false);
@@ -334,6 +350,8 @@ implements SharedPreferences.OnSharedPreferenceChangeListener {
    TeclaApp.persistence.setNeverHideNavigationKeyboard();
} else {
    if (!mPrefConnectToShield.isChecked()) {
+ mPrefTempDisconnect.setChecked(false);
+ mPrefTempDisconnect.setEnabled(false);
        mPrefSelfScanning.setChecked(false);
        mPrefSelfScanning.setEnabled(false);
        mPrefInverseScanning.setChecked(false);
@@ -354,6 +372,8 @@ implements SharedPreferences.OnSharedPreferenceChangeListener {
    if (!mPrefInverseScanning.isChecked()) {
        mPrefFullScreenSwitch.setChecked(false);
        if (!mPrefConnectToShield.isChecked()) {
+ mPrefTempDisconnect.setChecked(false);
+ mPrefTempDisconnect.setEnabled(false);
        mPrefSelfScanning.setEnabled(false);
        }
    }
}
@@ -368,6 +388,8 @@ implements SharedPreferences.OnSharedPreferenceChangeListener {
    if (!mPrefSelfScanning.isChecked()) {
        mPrefFullScreenSwitch.setChecked(false);
        if (!mPrefConnectToShield.isChecked()) {
+ mPrefTempDisconnect.setChecked(false);
+ mPrefTempDisconnect.setEnabled(false);
        mPrefInverseScanning.setEnabled(false);
        }
    }
}
@@ -385,6 +407,8 @@ implements SharedPreferences.OnSharedPreferenceChangeListener {
    if (TeclaApp.DEBUG) Log.d(TeclaApp.TAG, CLASS_TAG + "Tecla Shield discovery cancelled");
    TeclaApp.getInstance().showToast(R.string.shield_connection_cancelled);
    mConnectionCancelled = true;

```



```

+     mPrefTempDisconnect.setChecked(false);
+     mPrefTempDisconnect.setEnabled(false);
+     //Since we have cancelled the discovery the check state needs to be reset
+     //(triggers onSharedPreferenceChanged)
+     //mPrefConnectToShield.setChecked(false);
@@ -432,9 +456,13 @@ implements SharedPreferences.OnSharedPreferenceChangeListener {
    if (mBluetoothAdapter == null) {
        mPrefConnectToShield.setSummary(R.string.shield_connect_summary_BT_nosupport);
        mPrefConnectToShield.setEnabled(false);
+     mPrefTempDisconnect.setChecked(false);
+     mPrefTempDisconnect.setEnabled(false);
    } else if (!mBluetoothAdapter.isEnabled()) {
        mPrefConnectToShield.setSummary(R.string.shield_connect_summary_BT_disabled);
        mPrefConnectToShield.setEnabled(false);
+     mPrefTempDisconnect.setChecked(false);
+     mPrefTempDisconnect.setEnabled(false);
    } else {
        mPrefConnectToShield.setSummary(R.string.shield_connect_summary);
        mPrefConnectToShield.setEnabled(true);
diff --git a/source/src/ca/idi/tekla/util/Persistence.java b/source/src/ca/idi/tekla/util/Persistence.java
index c04f2a6..98226a5 100644
--- a/source/src/ca/idi/tekla/util/Persistence.java
+++ b/source/src/ca/idi/tekla/util/Persistence.java
@@ -21,6 +21,7 @@ public class Persistence {
    public static final String PREF_PERSISTENT_KEYBOARD = "persistent_keyboard";
    public static final String PREF_AUTOHIDE_TIMEOUT = "autohide_timeout";
    public static final String PREF_CONNECT_TO_SHIELD = "shield_connect";
+ public static final String PREF_TEMP_SHIELD_DISCONNECT = "shield_temp_disconnect";
    public static final String PREF_SHIELD_ADDRESS = "shield_address";
    public static final String PREF_FULLSCREEN_SWITCH = "fullscreen_switch";
    public static final String PREF_SELF_SCANNING = "self_scanning";

```

```

commit ece30f935ac1c1d74a76ecab02f65402b5f463a1
Author: Ankit Daftery <ankitdaf@gmail.com>
Date: Mon Mar 26 07:33:19 2012 +0530

```

Changed string to "Tecla Shield Connection Status"

```

diff --git a/source/res/values/strings.xml b/source/res/values/strings.xml
index dffe8df..aa7c2a4 100644
--- a/source/res/values/strings.xml
+++ b/source/res/values/strings.xml
@@ -284,7 +284,7 @@
    <string name="no_voice_actions_installed">Voice Actions is not installed!</string>

    <!-- Tecla: Titles and labels -->
- <string name="sep_label">Tecla Shield Status</string>
+ <string name="sep_label">Tecla Shield Connection Status</string>
    <string name="voice_input">Tecla Voice Input</string>
    <string name="configuring_tecla">Configuring Tecla...</string>

```

```

commit 9985bcdb69e0ca85acfb2ea17cb6dd2631c180fa
Author: Ankit Daftery <ankitdaf@gmail.com>
Date: Sun Mar 25 09:11:54 2012 +0530

```

Fixed issue #30

```

diff --git a/source/res/values/strings.xml b/source/res/values/strings.xml
index 8c98977..dffe8df 100644
--- a/source/res/values/strings.xml
+++ b/source/res/values/strings.xml
@@ -284,7 +284,7 @@
    <string name="no_voice_actions_installed">Voice Actions is not installed!</string>

    <!-- Tecla: Titles and labels -->
- <string name="sep_label">Switch event provider</string>
+ <string name="sep_label">Tecla Shield Status</string>
    <string name="voice_input">Tecla Voice Input</string>
    <string name="configuring_tecla">Configuring Tecla...</string>

```

----- BRANCH SHOWKBD -----

commit d43299f643b88dade4ebcd43720cfbc97111e39f (HEAD, origin/showkbd, showkbd)
Author: Ankit Daftery <ankitdaf@gmail.com>
Date: Thu Jul 12 23:35:10 2012 +0530

Revert "Added automatic stepping out, addresses #20"

This reverts commit 8203b5665dd22f5728421a5942a8032a8bb445ee.

```
diff --git a/source/src/ca/idi/tekla/util/Highlighter.java b/source/src/ca/idi/tekla/util/Highlighter.java
index eaeaa26..d4dfd46 100644
--- a/source/src/ca/idi/tekla/util/Highlighter.java
+++ b/source/src/ca/idi/tekla/util/Highlighter.java
@@ -32,7 +32,6 @@ public class Highlighter {
    private int mScanDepth;
    private int mScanKeyCounter, mScanRowCounter;
    private int mLastKeyCounter, mLastRowCounter;
- private int mInactiveScans, mStartScanKeyCounter;
    private boolean mWasShowingVariants;
    private TeclaKeyboardView mIMEView;
    private Handler mHandler;
@@ -130,7 +129,6 @@ public class Highlighter {
    }
    int fromIndex = keyboard.getRowStart(mScanRowCounter);
    int toIndex = keyboard.getRowEnd(mScanRowCounter);
- mStartScanKeyCounter = fromIndex;
    if (mScanDepth == Highlighter.DEPTH_KEY) {
        if (direction == Highlighter.HIGHLIGHT_NEXT) mScanKeyCounter++;
        if (direction == Highlighter.HIGHLIGHT_PREV) mScanKeyCounter--;
@@ -212,13 +210,6 @@ public class Highlighter {
    final long start = SystemClock.uptimeMillis();
    if (TeclaApp.DEBUG) Log.d(TeclaApp.TAG, CLASS_TAG + "Scanning to next item");
    move(Highlighter.HIGHLIGHT_NEXT);
- if(mScanKeyCounter==mStartScanKeyCounter) mInactiveScans++;
- if(mInactiveScans==2 && getScanDepth()==Highlighter.DEPTH_KEY)
- {
-     mInactiveScans=0;
-     stepOut();
-     if (TeclaApp.DEBUG) Log.d(TeclaApp.TAG, CLASS_TAG + "No activity.Stepping out...");
- }
    mHandler.postAtTime(this, start + TeclaApp.persistence.getScanDelay());
}
};
@@ -257,8 +248,6 @@ public class Highlighter {
    }
    }
    restoreHighlight();
- mStartScanKeyCounter=mScanKeyCounter; // Counter to check which key
- mInactiveScans=0; // Counter to check number of eventless self scan
}

private boolean shouldDelayKey(int keyCode) {
```

commit 8203b5665dd22f5728421a5942a8032a8bb445ee
Author: Ankit Daftery <ankitdaf@gmail.com>
Date: Thu Jul 12 11:27:13 2012 +0530

Added automatic stepping out, addresses #20

```
diff --git a/source/src/ca/idi/tekla/util/Highlighter.java b/source/src/ca/idi/tekla/util/Highlighter.java
index d4dfd46..eaeaa26 100644
--- a/source/src/ca/idi/tekla/util/Highlighter.java
+++ b/source/src/ca/idi/tekla/util/Highlighter.java
@@ -32,6 +32,7 @@ public class Highlighter {
    private int mScanDepth;
    private int mScanKeyCounter, mScanRowCounter;
    private int mLastKeyCounter, mLastRowCounter;
+ private int mInactiveScans, mStartScanKeyCounter;
    private boolean mWasShowingVariants;
    private TeclaKeyboardView mIMEView;
    private Handler mHandler;
@@ -129,6 +130,7 @@ public class Highlighter {
    }
    int fromIndex = keyboard.getRowStart(mScanRowCounter);
    int toIndex = keyboard.getRowEnd(mScanRowCounter);
+ mStartScanKeyCounter = fromIndex;
    if (mScanDepth == Highlighter.DEPTH_KEY) {
        if (direction == Highlighter.HIGHLIGHT_NEXT) mScanKeyCounter++;
        if (direction == Highlighter.HIGHLIGHT_PREV) mScanKeyCounter--;
@@ -210,6 +212,13 @@ public class Highlighter {
    final long start = SystemClock.uptimeMillis();
    if (TeclaApp.DEBUG) Log.d(TeclaApp.TAG, CLASS_TAG + "Scanning to next item");
    move(Highlighter.HIGHLIGHT_NEXT);
+ if(mScanKeyCounter==mStartScanKeyCounter) mInactiveScans++;
+ if(mInactiveScans==2 && getScanDepth()==Highlighter.DEPTH_KEY)
+ {
+     mInactiveScans=0;
+     stepOut();
+     if (TeclaApp.DEBUG) Log.d(TeclaApp.TAG, CLASS_TAG + "No activity.Stepping out...");
+ }
    mHandler.postAtTime(this, start + TeclaApp.persistence.getScanDelay());
}
};
```

```

int fromIndex = keyboard.getRowStart(mScanRowCounter);
int toIndex = keyboard.getRowEnd(mScanRowCounter);
+ mStartScanKeyCounter = fromIndex;
if (mScanDepth == Highlighter.DEPTH_KEY) {
    if (direction == Highlighter.HIGHLIGHT_NEXT) mScanKeyCounter++;
    if (direction == Highlighter.HIGHLIGHT_PREV) mScanKeyCounter--;
@@ -210,6 +212,13 @@ public class Highlighter {
    final long start = SystemClock.uptimeMillis();
    if (TeclaApp.DEBUG) Log.d(TeclaApp.TAG, CLASS_TAG + "Scanning to next item");
    move(Highlighter.HIGHLIGHT_NEXT);
+ if(mScanKeyCounter==mStartScanKeyCounter) mInactiveScans++;
+ if(mInactiveScans==2 && getScanDepth()==Highlighter.DEPTH_KEY)
+ {
+     mInactiveScans=0;
+     stepOut();
+     if (TeclaApp.DEBUG) Log.d(TeclaApp.TAG, CLASS_TAG + "No activity.Stepping out...");
+ }
    mHandler.postAtTime(this, start + TeclaApp.persistence.getScanDelay());
}
};
@@ -248,6 +257,8 @@ public class Highlighter {
}
}
restoreHighlight();
+ mStartScanKeyCounter=mScanKeyCounter; // Counter to check which key
+ mInactiveScans=0; // Counter to check number of eventless self scan
}

```

```
private boolean shouldDelayKey(int keyCode) {
```

```

commit 65039e6e5288a7f75437f46a15b1a9d384d6ea9b
Author: Ankit Daftery <ankitdaf@gmail.com>
Date: Fri Jun 15 14:33:05 2012 +0530

```

Modified layouts to fix #88 #89 #90 Not fully tested

```

diff --git a/source/res/xml/kbd_alpha.xml b/source/res/xml/kbd_alpha.xml
index 296051b..c52d45e 100644
--- a/source/res/xml/kbd_alpha.xml
+++ b/source/res/xml/kbd_alpha.xml
@@ -132,8 +132,9 @@
</Row>

<Row android:keyboardMode="@+id/mode_normal" android:rowEdgeFlags="bottom">
- <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
-     android:keyEdgeFlags="left" android:keyWidth="20%p"/>
+ <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+     android:iconPreview="@drawable/sym_keyboard_feedback_done"
+     android:keyWidth="15%p" android:keyEdgeFlags="left"/>
    <Key android:keyLabel="," android:keyWidth="10%p" />
    <Key android:codes="32" android:keyIcon="@drawable/sym_keyboard_space"
        android:iconPreview="@drawable/sym_keyboard_feedback_space"
@@ -144,14 +145,15 @@
    <Key android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"
        android:iconPreview="@drawable/sym_keyboard_feedback_return"
        android:keyWidth="20%p" />
- <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-     android:iconPreview="@drawable/sym_keyboard_feedback_done"
-     android:keyWidth="15%p" android:keyEdgeFlags="right"/>
+ <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
+     android:keyEdgeFlags="right" android:keyWidth="20%p"/>
</Row>

<Row android:keyboardMode="@+id/mode_voice" android:rowEdgeFlags="bottom">
- <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
-     android:keyEdgeFlags="left" android:keyWidth="16%p"/>
+ <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+     android:iconPreview="@drawable/sym_keyboard_feedback_done"
+     android:keyWidth="14%p" android:keyEdgeFlags="left"/>
<Key
android:codes="@integer/key_voice"
android:keyIcon="@drawable/sym_keyboard_mic"

```

```

@@ -167,14 +169,15 @@
     <Key android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"
         android:iconPreview="@drawable/sym_keyboard_feedback_return"
         android:keyWidth="16%p" />
- <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-     android:iconPreview="@drawable/sym_keyboard_feedback_done"
-     android:keyWidth="14%p" android:keyEdgeFlags="right"/>
+ <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
+     android:keyEdgeFlags="right" android:keyWidth="16%p"/>
+
</Row>

<Row android:keyboardMode="@+id/mode_variants" android:rowEdgeFlags="bottom">
- <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
-     android:keyEdgeFlags="left" android:keyWidth="20%p"/>
+ <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+     android:iconPreview="@drawable/sym_keyboard_feedback_done"
+     android:keyWidth="15%p" android:keyEdgeFlags="left"/>
+ <Key android:keyLabel="," android:keyWidth="10%p" />
+ <Key android:codes="32" android:keyIcon="@drawable/sym_keyboard_space"
+     android:iconPreview="@drawable/sym_keyboard_feedback_space"
@@ -185,9 +188,9 @@
     <Key android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"
         android:iconPreview="@drawable/sym_keyboard_feedback_return"
         android:keyWidth="20%p" />
- <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-     android:iconPreview="@drawable/sym_keyboard_feedback_done"
-     android:keyWidth="15%p" android:keyEdgeFlags="right"/>
+ <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
+     android:keyEdgeFlags="right" android:keyWidth="20%p"/>
+
</Row>

</Keyboard>
\ No newline at end of file
diff --git a/source/res/xml/kbd_alpha_voice_variants.xml b/source/res/xml/kbd_alpha_voice_variants.xml
index dbe082d..3b18e87 100644
--- a/source/res/xml/kbd_alpha_voice_variants.xml
+++ b/source/res/xml/kbd_alpha_voice_variants.xml
@@ -92,8 +92,9 @@
     </Row>

     <Row android:rowEdgeFlags="bottom">
- <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
-     android:keyEdgeFlags="left" android:keyWidth="16%p"/>
+ <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+     android:iconPreview="@drawable/sym_keyboard_feedback_done"
+     android:keyWidth="14%p" android:keyEdgeFlags="left"/>
<Key
    android:codes="@integer/key_voice"
    android:keyIcon="@drawable/sym_keyboard_mic"
@@ -109,9 +110,10 @@
     <Key android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"
         android:iconPreview="@drawable/sym_keyboard_feedback_return"
         android:keyWidth="16%p" />
- <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-     android:iconPreview="@drawable/sym_keyboard_feedback_done"
-     android:keyWidth="14%p" android:keyEdgeFlags="right"/>
+ <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
+     android:keyEdgeFlags="right" android:keyWidth="16%p"/>
+
</Row>

</Keyboard>
\ No newline at end of file
diff --git a/source/res/xml/kbd_navigation.xml b/source/res/xml/kbd_navigation.xml
index 52dca43..1792ee6 100644
--- a/source/res/xml/kbd_navigation.xml
+++ b/source/res/xml/kbd_navigation.xml
@@ -23,8 +23,8 @@
     android:verticalGap="0px" android:keyHeight="@dimen/key_height">

```

```

<Row android:keyboardMode="@+id/mode_normal" android:rowEdgeFlags="bottom">
-   <Key android:codes="4" android:keyIcon="@drawable/nav_keyboard_back"
-       android:iconPreview="@drawable/nav_keyboard_feedback_back"
+   <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_show"
+       android:iconPreview="@drawable/sym_keyboard_feedback_show"
+       android:keyWidth="15%p" android:keyEdgeFlags="left" />
<Key android:codes="19" android:keyIcon="@drawable/nav_keyboard_up"
    android:iconPreview="@drawable/nav_keyboard_feedback_up"
@@ -39,9 +39,9 @@
    android:iconPreview="@drawable/nav_keyboard_feedback_right"
    android:keyWidth="14%p" />
<Key android:codes="23" android:keyLabel="OK" android:keyWidth="14%p" />
- <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_show"
-     android:iconPreview="@drawable/sym_keyboard_feedback_show"
-     android:keyWidth="15%p" android:keyEdgeFlags="right" />
+ <Key android:codes="4" android:keyIcon="@drawable/nav_keyboard_back"
+     android:iconPreview="@drawable/nav_keyboard_feedback_back"
+     android:keyWidth="15%p" android:keyEdgeFlags="right" />
</Row>

<Row android:keyboardMode="@+id/mode_voice" android:rowEdgeFlags="bottom">
diff --git a/source/res/xml/kbd_phone.xml b/source/res/xml/kbd_phone.xml
index 2d826ae..a0c2a53 100755
--- a/source/res/xml/kbd_phone.xml
+++ b/source/res/xml/kbd_phone.xml
@@ -49,11 +49,10 @@
</Row>

<Row android:rowEdgeFlags="bottom">
-   <Key android:codes="-2" android:keyIcon="@drawable/sym_keyboard_numalt"
-       android:popupKeyboard="@xml/kbd_popup_template"
-       android:popupCharacters="_"
-       android:iconPreview="@drawable/sym_keyboard_feedback_numalt"/>
+
+   <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+       android:iconPreview="@drawable/sym_keyboard_feedback_done"
+       android:keyWidth="20%p" android:keyEdgeFlags="left"/>
+
    <Key android:codes="48" android:keyIcon="@drawable/sym_keyboard_num0"/>

    <Key android:codes="32" android:keyIcon="@drawable/sym_keyboard_space"
@@ -62,9 +61,13 @@
    <!-- <Key android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"
        android:keyWidth="20%p"
        android:keyEdgeFlags="right"/> -->
- <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-     android:iconPreview="@drawable/sym_keyboard_feedback_done"
-     android:keyWidth="20%p" android:keyEdgeFlags="right"/>
+   <Key android:codes="-2" android:keyIcon="@drawable/sym_keyboard_numalt"
+       android:popupKeyboard="@xml/kbd_popup_template"
+       android:popupCharacters="_"
+       android:iconPreview="@drawable/sym_keyboard_feedback_numalt"
+       android:keyEdgeFlags="right" />
+
</Row>

</Keyboard>
\ No newline at end of file
diff --git a/source/res/xml/kbd_phone_symbols.xml b/source/res/xml/kbd_phone_symbols.xml
index 8602863..7f63b15 100755
--- a/source/res/xml/kbd_phone_symbols.xml
+++ b/source/res/xml/kbd_phone_symbols.xml
@@ -54,10 +54,9 @@
</Row>

<Row android:rowEdgeFlags="bottom">
-   <Key android:codes="-2" android:keyLabel="@string/label_phone_key"
-       android:popupKeyboard="@xml/kbd_popup_template"
-       android:popupCharacters="_"
-       android:keyEdgeFlags="left"/>
+ <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+     android:iconPreview="@drawable/sym_keyboard_feedback_done"

```

```

+ android:keyWidth="20%p" android:keyEdgeFlags="left"/>
+   <Key android:keyLabel="+"/>
+   <Key android:codes="32" android:keyIcon="@drawable/sym_keyboard_space"
+     android:iconPreview="@drawable/sym_keyboard_feedback_space"
@@ -65,9 +64,10 @@
+   <!-- <Key android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"
+     android:keyWidth="20%p"
+     android:keyEdgeFlags="right"/> -->
- <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-   android:iconPreview="@drawable/sym_keyboard_feedback_done"
-   android:keyWidth="20%p" android:keyEdgeFlags="right"/>
+   <Key android:codes="-2" android:keyLabel="@string/label_phone_key"
+     android:popupKeyboard="@xml/kbd_popup_template"
+     android:popupCharacters="_"
+     android:keyEdgeFlags="right"/>
+ </Row>

```

```
</Keyboard>
```

```
\ No newline at end of file
```

```
diff --git a/source/res/xml/kbd_qwerty.xml b/source/res/xml/kbd_qwerty.xml
```

```
index 0948022..3316114 100644
```

```
--- a/source/res/xml/kbd_qwerty.xml
```

```
+++ b/source/res/xml/kbd_qwerty.xml
```

```
@@ -110,10 +110,9 @@
```

```
</Row>
```

```

<Row android:keyboardMode="@+id/mode_normal" android:rowEdgeFlags="bottom">
-   <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
-     android:popupKeyboard="@xml/kbd_popup_template"
-     android:popupCharacters="_"
-     android:keyWidth="20%p" android:keyEdgeFlags="left"/>
+   <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+     android:iconPreview="@drawable/sym_keyboard_feedback_done"
+     android:keyWidth="15%p" android:keyEdgeFlags="left"/>
+   <Key android:keyLabel="," android:keyWidth="10%p" />
+   <Key android:codes="32" android:keyIcon="@drawable/sym_keyboard_space"
+     android:iconPreview="@drawable/sym_keyboard_feedback_space"

```

```
@@ -123,16 +122,16 @@
```

```

+   <Key android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"
+     android:iconPreview="@drawable/sym_keyboard_feedback_return"
+     android:keyWidth="20%p" />
-   <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-     android:iconPreview="@drawable/sym_keyboard_feedback_done"
-     android:keyWidth="15%p" android:keyEdgeFlags="right"/>
+   <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
+     android:popupKeyboard="@xml/kbd_popup_template"
+     android:popupCharacters="_"
+     android:keyWidth="20%p" android:keyEdgeFlags="right"/>
+ </Row>

```

```

<Row android:keyboardMode="@+id/mode_url" android:rowEdgeFlags="bottom">
-   <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
-     android:popupKeyboard="@xml/kbd_popup_template"
-     android:popupCharacters="_"
-     android:keyWidth="20%p" android:keyEdgeFlags="left"/>
+   <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+     android:iconPreview="@drawable/sym_keyboard_feedback_done"
+     android:keyWidth="15%p" android:keyEdgeFlags="left"/>
+   <!-- <Key android:keyLabel="@string/popular_domain_0"
+     android:keyOutputText="@string/popular_domain_0"
+     android:popupKeyboard="@xml/popup_domains"

```

```
@@ -146,16 +145,16 @@
```

```

+   <Key android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"
+     android:iconPreview="@drawable/sym_keyboard_feedback_return"
+     android:keyWidth="20%p" />
-   <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-     android:iconPreview="@drawable/sym_keyboard_feedback_done"
-     android:keyWidth="15%p" android:keyEdgeFlags="right"/>
- </Row>
-
-   <Row android:keyboardMode="@+id/mode_email" android:rowEdgeFlags="bottom">
+   <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
+     android:popupKeyboard="@xml/kbd_popup_template"

```



```

        android:popupCharacters="_"
-       android:keyWidth="20%p" android:keyEdgeFlags="left"/>
+       android:keyWidth="20%p" android:keyEdgeFlags="right"/>
+ </Row>
+
+ <Row android:keyboardMode="@+id/mode_email" android:rowEdgeFlags="bottom">
+   <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+     android:iconPreview="@drawable/sym_keyboard_feedback_done"
+     android:keyWidth="15%p" android:keyEdgeFlags="left"/>
+     <Key android:keyLabel="\@" android:keyWidth="15%p"/>
+     <!-- <Key android:keyLabel="@string/popular_domain_0"
+       android:keyOutputText="@string/popular_domain_0"
@@ -169,17 +168,18 @@
+       <Key android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"
+         android:iconPreview="@drawable/sym_keyboard_feedback_return"
+         android:keyWidth="20%p"/>
-     <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-       android:iconPreview="@drawable/sym_keyboard_feedback_done"
-       android:keyWidth="15%p" android:keyEdgeFlags="right"/>
+     <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
+       android:popupKeyboard="@xml/kbd_popup_template"
+       android:popupCharacters="_"
+       android:keyWidth="20%p" android:keyEdgeFlags="right"/>
+ </Row>
+
+ <Row android:keyboardMode="@+id/mode_im" android:rowEdgeFlags="bottom">
-   <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
-     android:popupKeyboard="@xml/kbd_popup_template"
-     android:popupCharacters="_"
-     android:keyWidth="20%p" android:keyEdgeFlags="left"
-     android:state_single="true"/>
+   <Key
+     android:codes="-4"
+     android:keyIcon="@drawable/sym_keyboard_done"
+     android:iconPreview="@drawable/sym_keyboard_feedback_done"
+     android:keyWidth="15%p" android:keyEdgeFlags="left" />
+     <Key android:keyLabel="," android:keyWidth="10%p"/>
+     <Key android:codes="32" android:keyIcon="@drawable/sym_keyboard_space"
+       android:iconPreview="@drawable/sym_keyboard_feedback_space"
@@ -193,10 +193,10 @@
+       android:keyLabel=":-)" android:keyOutputText=":-) "
+       android:popupKeyboard="@xml/popup_smileys"
+       android:keyWidth="20%p" />
-   <Key
-     android:codes="-4"
-     android:keyIcon="@drawable/sym_keyboard_done"
-     android:iconPreview="@drawable/sym_keyboard_feedback_done"
-     android:keyWidth="15%p" android:keyEdgeFlags="right" />
+     <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
+       android:popupKeyboard="@xml/kbd_popup_template"
+       android:popupCharacters="_"
+       android:keyWidth="20%p" android:keyEdgeFlags="right"
+       android:state_single="true"/>
+ </Row>
+ </Keyboard>
diff --git a/source/res/xml/kbd_qwerty_variants.xml b/source/res/xml/kbd_qwerty_variants.xml
index f369d87..bd50c14 100644
--- a/source/res/xml/kbd_qwerty_variants.xml
+++ b/source/res/xml/kbd_qwerty_variants.xml
@@ -110,10 +110,9 @@
+ </Row>
+
+ <Row android:keyboardMode="@+id/mode_normal" android:rowEdgeFlags="bottom">
-   <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
-     android:popupKeyboard="@xml/kbd_popup_template"
-     android:popupCharacters="_"
-     android:keyWidth="20%p" android:keyEdgeFlags="left"/>
+   <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+     android:iconPreview="@drawable/sym_keyboard_feedback_done"
+     android:keyWidth="15%p" android:keyEdgeFlags="left"/>
+     <Key android:keyLabel="," android:keyWidth="10%p" />
+     <Key android:codes="32" android:keyIcon="@drawable/sym_keyboard_space"
+       android:iconPreview="@drawable/sym_keyboard_feedback_space"

```

```

@@ -123,16 +122,16 @@
    <Key android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"
        android:iconPreview="@drawable/sym_keyboard_feedback_return"
        android:keyWidth="20%p" />
- <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-   android:iconPreview="@drawable/sym_keyboard_feedback_done"
-   android:keyWidth="15%p" android:keyEdgeFlags="right"/>
+ <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
+   android:popupKeyboard="@xml/kbd_popup_template"
+   android:popupCharacters="_"
+   android:keyWidth="20%p" android:keyEdgeFlags="right"/>
</Row>

<Row android:keyboardMode="@+id/mode_url" android:rowEdgeFlags="bottom">
- <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
-   android:popupKeyboard="@xml/kbd_popup_template"
-   android:popupCharacters="_"
-   android:keyWidth="20%p" android:keyEdgeFlags="left"/>
+ <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+   android:iconPreview="@drawable/sym_keyboard_feedback_done"
+   android:keyWidth="15%p" android:keyEdgeFlags="left"/>
+ <!-- <Key android:keyLabel="@string/popular_domain_0"
+   android:keyOutputText="@string/popular_domain_0"
+   android:popupKeyboard="@xml/popup_domains"
@@ -146,16 +145,16 @@
    <Key android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"
        android:iconPreview="@drawable/sym_keyboard_feedback_return"
        android:keyWidth="20%p" />
- <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-   android:iconPreview="@drawable/sym_keyboard_feedback_done"
-   android:keyWidth="15%p" android:keyEdgeFlags="right"/>
- </Row>
-
- <Row android:keyboardMode="@+id/mode_email" android:rowEdgeFlags="bottom">
-   <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
-     android:popupKeyboard="@xml/kbd_popup_template"
-     android:popupCharacters="_"
-     android:keyWidth="20%p" android:keyEdgeFlags="left"/>
+   <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
+     android:popupKeyboard="@xml/kbd_popup_template"
+     android:popupCharacters="_"
+     android:keyWidth="20%p" android:keyEdgeFlags="left"/>
+   <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+     android:iconPreview="@drawable/sym_keyboard_feedback_done"
+     android:keyWidth="15%p" android:keyEdgeFlags="right"/>
+ </Row>
+
+ <Row android:keyboardMode="@+id/mode_email" android:rowEdgeFlags="bottom">
+ <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+   android:iconPreview="@drawable/sym_keyboard_feedback_done"
+   android:keyWidth="15%p" android:keyEdgeFlags="left"/>
+   <Key android:keyLabel="\@" android:keyWidth="15%p"/>
+   <!-- <Key android:keyLabel="@string/popular_domain_0"
+     android:keyOutputText="@string/popular_domain_0"
@@ -169,17 +168,17 @@
    <Key android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"
        android:iconPreview="@drawable/sym_keyboard_feedback_return"
        android:keyWidth="20%p"/>
- <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-   android:iconPreview="@drawable/sym_keyboard_feedback_done"
-   android:keyWidth="15%p" android:keyEdgeFlags="right"/>
- </Row>
-
- <Row android:keyboardMode="@+id/mode_im" android:rowEdgeFlags="bottom">
-   <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
-     android:popupKeyboard="@xml/kbd_popup_template"
-     android:popupCharacters="_"
-     android:keyWidth="20%p" android:keyEdgeFlags="left"
-     android:state_single="true"/>
+   <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
+     android:popupKeyboard="@xml/kbd_popup_template"
+     android:popupCharacters="_"
+     android:keyWidth="20%p" android:keyEdgeFlags="left"
+     android:state_single="true"/>
+   <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+     android:iconPreview="@drawable/sym_keyboard_feedback_done"
+     android:keyWidth="15%p" android:keyEdgeFlags="left" />
+   <Key android:keyLabel="," android:keyWidth="10%p"/>
+   <Key android:codes="32" android:keyIcon="@drawable/sym_keyboard_space"

```



```

        android:iconPreview="@drawable/sym_keyboard_feedback_space"
@@ -193,10 +192,10 @@
        android:keyLabel=":-)" android:keyOutputText=":-)"
        android:popupKeyboard="@xml/popup_smileys"
        android:keyWidth="20%p" />
- <Key
-     android:codes="-4"
-     android:keyIcon="@drawable/sym_keyboard_done"
-     android:iconPreview="@drawable/sym_keyboard_feedback_done"
-     android:keyWidth="15%p" android:keyEdgeFlags="right" />
+ <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
+     android:popupKeyboard="@xml/kbd_popup_template"
+     android:popupCharacters="_"
+     android:keyWidth="20%p" android:keyEdgeFlags="right"
+     android:state_single="true" />
    </Row>
</Keyboard>
diff --git a/source/res/xml/kbd_qwerty_voice.xml b/source/res/xml/kbd_qwerty_voice.xml
index 839e3ac..0b82eb8 100755
--- a/source/res/xml/kbd_qwerty_voice.xml
+++ b/source/res/xml/kbd_qwerty_voice.xml
@@ -116,10 +116,9 @@
    android:keyboardMode="@+id/mode_normal"
    android:rowEdgeFlags="bottom">
    <Key
-     android:codes="-2" android:keyLabel="@string/label_symbol_key"
-     android:popupKeyboard="@xml/kbd_popup_template"
-     android:popupCharacters="_"
-     android:keyWidth="16%p" android:keyEdgeFlags="left" />
+     android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+     android:iconPreview="@drawable/sym_keyboard_feedback_done"
+     android:keyWidth="14%p" android:keyEdgeFlags="left" />
    <Key
        android:codes="@integer/key_voice"
        android:keyIcon="@drawable/sym_keyboard_mic"
@@ -139,20 +138,19 @@
        android:iconPreview="@drawable/sym_keyboard_feedback_return"
        android:keyWidth="16%p" />
    <Key
-     android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-     android:iconPreview="@drawable/sym_keyboard_feedback_done"
-     android:keyWidth="14%p" android:keyEdgeFlags="right" />
+     android:codes="-2" android:keyLabel="@string/label_symbol_key"
+     android:popupKeyboard="@xml/kbd_popup_template"
+     android:popupCharacters="_"
+     android:keyWidth="16%p" android:keyEdgeFlags="right" />
    </Row>

    <Row
        android:keyboardMode="@+id/mode_url"
        android:rowEdgeFlags="bottom">
        <Key
-     android:codes="-2"
-     android:keyLabel="@string/label_symbol_key"
-     android:popupKeyboard="@xml/kbd_popup_template"
-     android:popupCharacters="_" android:keyWidth="16%p"
-     android:keyEdgeFlags="left" />
+     android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+     android:iconPreview="@drawable/sym_keyboard_feedback_done"
+     android:keyWidth="14%p" android:keyEdgeFlags="left" />
        <Key
            android:codes="@integer/key_voice"
            android:keyIcon="@drawable/sym_keyboard_mic"
@@ -177,18 +175,20 @@
            android:iconPreview="@drawable/sym_keyboard_feedback_return"
            android:keyWidth="16%p" />
        <Key
-     android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-     android:iconPreview="@drawable/sym_keyboard_feedback_done"
-     android:keyWidth="14%p" android:keyEdgeFlags="right" />
+     android:codes="-2"
+     android:keyLabel="@string/label_symbol_key"
+     android:popupKeyboard="@xml/kbd_popup_template"

```

```

+     android:popupCharacters="_" android:keyWidth="16%p"
+     android:keyEdgeFlags="right" />
</Row>

<Row
  android:keyboardMode="@+id/mode_email"
  android:rowEdgeFlags="bottom">
-   <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
-     android:popupKeyboard="@xml/kbd_popup_template"
-     android:popupCharacters="_"
-     android:keyWidth="16%p" android:keyEdgeFlags="left"/>
+   <Key
+     android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+     android:iconPreview="@drawable/sym_keyboard_feedback_done"
+     android:keyWidth="14%p" android:keyEdgeFlags="left"/>
  <Key
    android:codes="@integer/key_voice"
    android:keyIcon="@drawable/sym_keyboard_mic"
@@ -212,22 +212,20 @@
    android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"
    android:iconPreview="@drawable/sym_keyboard_feedback_return"
    android:keyWidth="16%p"/>
-   <Key
-     android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-     android:iconPreview="@drawable/sym_keyboard_feedback_done"
-     android:keyWidth="14%p" android:keyEdgeFlags="right"/>
+   <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
+     android:popupKeyboard="@xml/kbd_popup_template"
+     android:popupCharacters="_"
+     android:keyWidth="16%p" android:keyEdgeFlags="right"/>
</Row>

<Row
  android:keyboardMode="@+id/mode_im"
  android:rowEdgeFlags="bottom">
  <Key
    android:codes="-2"
    android:keyLabel="@string/label_symbol_key"
    android:popupKeyboard="@xml/kbd_popup_template"
    android:popupCharacters="_"
    android:keyWidth="16%p"
    android:keyEdgeFlags="left" />
+   android:codes="-4"
+   android:keyIcon="@drawable/sym_keyboard_done"
+   android:iconPreview="@drawable/sym_keyboard_feedback_done"
+   android:keyWidth="14%p" android:keyEdgeFlags="left" />
  <Key
    android:codes="@integer/key_voice"
    android:keyIcon="@drawable/sym_keyboard_mic"
@@ -252,10 +250,12 @@
    android:popupKeyboard="@xml/popup_smileys"
    android:keyWidth="16%p" />
  <Key
-   android:codes="-4"
-   android:keyIcon="@drawable/sym_keyboard_done"
-   android:iconPreview="@drawable/sym_keyboard_feedback_done"
-   android:keyWidth="14%p" android:keyEdgeFlags="right" />
+   android:codes="-2"
+   android:keyLabel="@string/label_symbol_key"
+   android:popupKeyboard="@xml/kbd_popup_template"
+   android:popupCharacters="_"
+   android:keyWidth="16%p"
+   android:keyEdgeFlags="right" />
</Row>
</Keyboard>

```

```

diff --git a/source/res/xml/kbd_qwerty_voice_variants.xml b/source/res/xml/kbd_qwerty_voice_variants.xml
index 1182370..05bcad5 100755
--- a/source/res/xml/kbd_qwerty_voice_variants.xml
+++ b/source/res/xml/kbd_qwerty_voice_variants.xml
@@ -116,10 +116,9 @@
  android:keyboardMode="@+id/mode_normal"
  android:rowEdgeFlags="bottom">

```

```

<Key
-   android:codes="-2" android:keyLabel="@string/label_symbol_key"
-   android:popupKeyboard="@xml/kbd_popup_template"
-   android:popupCharacters="_"
-   android:keyWidth="16%p" android:keyEdgeFlags="left"/>
+   android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+   android:iconPreview="@drawable/sym_keyboard_feedback_done"
+   android:keyWidth="14%p" android:keyEdgeFlags="left"/>
<Key
  android:codes="@integer/key_voice"
  android:keyIcon="@drawable/sym_keyboard_mic"
@@ -139,20 +138,20 @@
  android:iconPreview="@drawable/sym_keyboard_feedback_return"
  android:keyWidth="16%p" />
<Key
-   android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-   android:iconPreview="@drawable/sym_keyboard_feedback_done"
-   android:keyWidth="14%p" android:keyEdgeFlags="right"/>
+   android:codes="-2" android:keyLabel="@string/label_symbol_key"
+   android:popupKeyboard="@xml/kbd_popup_template"
+   android:popupCharacters="_"
+   android:keyWidth="16%p" android:keyEdgeFlags="right"/>
+
</Row>

<Row
  android:keyboardMode="@+id/mode_url"
  android:rowEdgeFlags="bottom">
  <Key
-   android:codes="-2"
-   android:keyLabel="@string/label_symbol_key"
-   android:popupKeyboard="@xml/kbd_popup_template"
-   android:popupCharacters="_" android:keyWidth="16%p"
-   android:keyEdgeFlags="left" />
+   android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+   android:iconPreview="@drawable/sym_keyboard_feedback_done"
+   android:keyWidth="14%p" android:keyEdgeFlags="left" />
  <Key
    android:codes="@integer/key_voice"
    android:keyIcon="@drawable/sym_keyboard_mic"
@@ -177,18 +176,22 @@
    android:iconPreview="@drawable/sym_keyboard_feedback_return"
    android:keyWidth="16%p" />
  <Key
-   android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-   android:iconPreview="@drawable/sym_keyboard_feedback_done"
-   android:keyWidth="14%p" android:keyEdgeFlags="right" />
+   android:codes="-2"
+   android:keyLabel="@string/label_symbol_key"
+   android:popupKeyboard="@xml/kbd_popup_template"
+   android:popupCharacters="_" android:keyWidth="16%p"
+   android:keyEdgeFlags="right" />
+
</Row>

<Row
  android:keyboardMode="@+id/mode_email"
  android:rowEdgeFlags="bottom">
-   <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
-   android:popupKeyboard="@xml/kbd_popup_template"
-   android:popupCharacters="_"
-   android:keyWidth="16%p" android:keyEdgeFlags="left"/>
+   <Key
+   android:codes="-4"
+   android:keyIcon="@drawable/sym_keyboard_done"
+   android:iconPreview="@drawable/sym_keyboard_feedback_done"
+   android:keyWidth="14%p" android:keyEdgeFlags="left" />
  <Key
    android:codes="@integer/key_voice"
    android:keyIcon="@drawable/sym_keyboard_mic"
@@ -212,22 +215,22 @@
    android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"
    android:iconPreview="@drawable/sym_keyboard_feedback_return"

```

```

    android:keyWidth="16%p"/>
- <Key
-   android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-   android:iconPreview="@drawable/sym_keyboard_feedback_done"
-   android:keyWidth="14%p" android:keyEdgeFlags="right"/>
+ <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
+   android:popupKeyboard="@xml/kbd_popup_template"
+   android:popupCharacters="_"
+   android:keyWidth="16%p" android:keyEdgeFlags="right"/>
+
+
</Row>

```

```

<Row
  android:keyboardMode="@+id/mode_im"
  android:rowEdgeFlags="bottom">
  <Key
-   android:codes="-2"
-   android:keyLabel="@string/label_symbol_key"
-   android:popupKeyboard="@xml/kbd_popup_template"
-   android:popupCharacters="_"
-   android:keyWidth="16%p"
-   android:keyEdgeFlags="left" />
+   android:codes="-4"
+   android:keyIcon="@drawable/sym_keyboard_done"
+   android:iconPreview="@drawable/sym_keyboard_feedback_done"
+   android:keyWidth="14%p" android:keyEdgeFlags="left" />
  <Key
    android:codes="@integer/key_voice"
    android:keyIcon="@drawable/sym_keyboard_mic"
@@ -252,10 +255,12 @@
    android:popupKeyboard="@xml/popup_smileys"
    android:keyWidth="16%p" />
  <Key
-   android:codes="-4"
-   android:keyIcon="@drawable/sym_keyboard_done"
-   android:iconPreview="@drawable/sym_keyboard_feedback_done"
-   android:keyWidth="14%p" android:keyEdgeFlags="right" />
+   android:codes="-2"
+   android:keyLabel="@string/label_symbol_key"
+   android:popupKeyboard="@xml/kbd_popup_template"
+   android:popupCharacters="_"
+   android:keyWidth="16%p"
+   android:keyEdgeFlags="right" />
  </Row>
</Keyboard>

```

```

diff --git a/source/res/xml/kbd_symbols.xml b/source/res/xml/kbd_symbols.xml
index 96a22d8..78e385b 100755

```

```

--- a/source/res/xml/kbd_symbols.xml
+++ b/source/res/xml/kbd_symbols.xml

```

```

@@ -122,10 +122,9 @@
  </Row>

```

```

  <Row android:rowEdgeFlags="bottom">
-   <Key android:codes="-2" android:keyLabel="@string/label_alpha_key"
-     android:popupKeyboard="@xml/kbd_popup_template"
-     android:popupCharacters="_"
-     android:keyWidth="20%p" android:keyEdgeFlags="left" />
+   <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+     android:iconPreview="@drawable/sym_keyboard_feedback_done"
+     android:keyWidth="15%p" android:keyEdgeFlags="left" />
+     <Key android:keyLabel="," android:keyWidth="10%p"
+       android:popupKeyboard="@xml/kbd_popup_template"
+       android:popupCharacters="," />
@@ -136,10 +135,11 @@
+     android:isRepeatable="true" />
+     <Key android:keyLabel="." android:keyWidth="10%p" />
+     <Key android:codes="10" android:keyIcon="@drawable/sym_keyboard_return" android:keyWidth="20%p"
-     android:iconPreview="@drawable/sym_keyboard_feedback_return"
-     />
-   <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-     android:iconPreview="@drawable/sym_keyboard_feedback_done"

```

```

-     android:keyWidth="15%p" android:keyEdgeFlags="right"/>
+         android:iconPreview="@drawable/sym_keyboard_feedback_return" />
+     <Key android:codes="-2" android:keyLabel="@string/label_alpha_key"
+         android:popupKeyboard="@xml/kbd_popup_template"
+         android:popupCharacters="_"
+         android:keyWidth="20%p" android:keyEdgeFlags="right"/>
+
+ </Row>
</Keyboard>
\ No newline at end of file
diff --git a/source/res/xml/kbd_symbols_shift.xml b/source/res/xml/kbd_symbols_shift.xml
index 6642bd3..d4dce5e 100755
--- a/source/res/xml/kbd_symbols_shift.xml
+++ b/source/res/xml/kbd_symbols_shift.xml
@@ -86,10 +86,9 @@
     </Row>

     <Row android:rowEdgeFlags="bottom">
-         <Key android:codes="-2" android:keyLabel="@string/label_alpha_key" android:keyWidth="20%p"
-             android:popupKeyboard="@xml/kbd_popup_template"
-             android:popupCharacters="_"
-             android:keyEdgeFlags="left"/>
+ <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+     android:iconPreview="@drawable/sym_keyboard_feedback_done"
+     android:keyWidth="15%p" android:keyEdgeFlags="left"/>
+         <Key android:keyLabel="," android:keyWidth="10%p" />
+         <Key android:codes="32" android:keyIcon="@drawable/sym_keyboard_space"
+             android:keyWidth="25%p"
@@ -100,8 +99,10 @@
+             android:keyWidth="20%p"
+             android:iconPreview="@drawable/sym_keyboard_feedback_return"
+             />
- <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-     android:iconPreview="@drawable/sym_keyboard_feedback_done"
-     android:keyWidth="15%p" android:keyEdgeFlags="right"/>
+     <Key android:codes="-2" android:keyLabel="@string/label_alpha_key" android:keyWidth="20%p"
+         android:popupKeyboard="@xml/kbd_popup_template"
+         android:popupCharacters="_"
+         android:keyEdgeFlags="right"/>
+
+ </Row>
</Keyboard>

```

```

commit ece30f935ac1c1d74a76ecab02f65402b5f463a1
Author: Ankit Daftery <ankitdaf@gmail.com>
Date: Mon Mar 26 07:33:19 2012 +0530

```

Changed string to "Tecla Shield Connection Status"

```

diff --git a/source/res/values/strings.xml b/source/res/values/strings.xml
index dffe8df..aa7c2a4 100644
--- a/source/res/values/strings.xml
+++ b/source/res/values/strings.xml
@@ -284,7 +284,7 @@
     <string name="no_voice_actions_installed">Voice Actions is not installed!</string>

     <!-- Tecla: Titles and labels -->
- <string name="sep_label">Tecla Shield Status</string>
+ <string name="sep_label">Tecla Shield Connection Status</string>
     <string name="voice_input">Tecla Voice Input</string>
     <string name="configuring_tecla">Configuring Tecla...</string>

```

```

commit 9985bcdb69e0ca85acfb2ea17cb6dd2631c180fa
Author: Ankit Daftery <ankitdaf@gmail.com>
Date: Sun Mar 25 09:11:54 2012 +0530

```

Fixed issue #30

```

diff --git a/source/res/values/strings.xml b/source/res/values/strings.xml
index 8c98977..dffe8df 100644
--- a/source/res/values/strings.xml
+++ b/source/res/values/strings.xml

```

```
@@ -284,7 +284,7 @@
<string name="no_voice_actions_installed">Voice Actions is not installed!</string>
```

```
<!-- Tecla: Titles and labels -->
- <string name="sep_label">Switch event provider</string>
+ <string name="sep_label">Tecla Shield Status</string>
<string name="voice_input">Tecla Voice Input</string>
<string name="configuring_tecla">Configuring Tecla...</string>
```

----- BRANCH TEMPDISCONNECT -----

```
commit 8caae6bf814f3ccdfef9f94bead6dfaf37640704 (HEAD, origin/tempdisconnect, tempdisconnect)
Merge: 1910831 5328a9b
Author: Ankit Daftery <ankitdaf@gmail.com>
Date: Thu Aug 16 20:24:13 2012 +0530
```

Merge branch 'develop' of github.com:idrc/TeclaAccess into tempdisconnect

```
Conflicts:
  README.md
  source/res/layout/activity_prefs.xml
```

```
commit 5328a9bd9d10c708fcc0c6d0fd6c8b88c0bcd9f7 (upstream/develop, develop)
Merge: 6d0a344 19920d0
Author: Ankit Daftery <ankitdaf@gmail.com>
Date: Tue Jul 17 07:07:29 2012 -0700
```

Merge pull request #100 from ankitdaf/auto-cancel-scan

Merging pull request

```
commit 19920d034561783c83728f9c19a5968487ffdf5 (origin/develop, auto-cancel-scan)
Author: Ankit Daftery <ankitdaf@gmail.com>
Date: Tue Jul 17 19:32:51 2012 +0530
```

Fixes #99

```
diff --git a/source/src/ca/idi/tekla/ime/TeclaIME.java b/source/src/ca/idi/tekla/ime/TeclaIME.java
index 59d9cce..57004d2 100644
--- a/source/src/ca/idi/tekla/ime/TeclaIME.java
+++ b/source/src/ca/idi/tekla/ime/TeclaIME.java
@@ -821,7 +821,7 @@ public class TeclaIME extends InputMethodService
     changeKeyboardMode();
     break;
     case TeclaKeyboardView.KEYCODE_STEP_OUT:
-    TeclaApp.highlighter.stepOut();
+    TeclaApp.highlighter.externalstepOut();
     if (TeclaApp.DEBUG) Log.d(TeclaApp.TAG, CLASS_TAG + "Hidden key.Stepping out...");
     break;
     default:
diff --git a/source/src/ca/idi/tekla/util/Highlighter.java b/source/src/ca/idi/tekla/util/Highlighter.java
index 2c98907..0729e68 100644
--- a/source/src/ca/idi/tekla/util/Highlighter.java
+++ b/source/src/ca/idi/tekla/util/Highlighter.java
@@ -229,6 +229,24 @@ public class Highlighter {
};

+ /*
+ * Runnable used to step out with hidden key
+ */
+ public void externalstepOut()
+ {
+     Runnable mScanRunnable = new Runnable() {
+
+     public void run() {
+         mInactiveScans = 0;
+         pauseSelfScanning();
+         stepOut();
+         resumeSelfScanning();
+         Log.d(TeclaApp.TAG, CLASS_TAG + "Hidden Key pressed");
+     }
+ };
+ };
```



```

+ mHandler.postDelayed(mScanRunnable,TeclaApp.persistence.getScanDelay());
+ }
+
+ /**
+  * Runnable used only to start auto scan. It resets highlighting before calling the self scanning
+  * methods.
+  */

```

```

commit e1b0b589e22f931608389d3e004b36822f5acbb1
Author: Ankit Daftery <ankitdaf@gmail.com>
Date: Fri Jul 13 20:33:25 2012 +0530

```

Fixed crash caused by empty keyLabel,affects #20

```

diff --git a/source/res/xml/kbd_alpha.xml b/source/res/xml/kbd_alpha.xml
index 3d22fb1..82a4695 100644
--- a/source/res/xml/kbd_alpha.xml
+++ b/source/res/xml/kbd_alpha.xml
@@ -52,7 +52,7 @@
     android:keyLabel="j" />
     <Key
         android:codes="-7"
-        android:keyLabel=""
+        android:keyLabel=" "
         android:keyWidth="0%p" />
     </Row>
     <Row android:keyboardMode="@+id/mode_normal" >
@@ -80,7 +80,7 @@
     <Key
         android:codes="-7"
         android:keyEdgeFlags="right"
-        android:keyLabel=""
+        android:keyLabel=" "
         android:keyWidth="0%p" />
     </Row>
     <Row android:keyboardMode="@+id/mode_voice" >
@@ -108,7 +108,7 @@
     <Key
         android:codes="-7"
         android:keyEdgeFlags="right"
-        android:keyLabel=""
+        android:keyLabel=" "
         android:keyWidth="0%p" />
     </Row>
     <Row android:keyboardMode="@+id/mode_variants" >
@@ -140,7 +140,7 @@
     <Key
         android:codes="-7"
         android:keyEdgeFlags="right"
-        android:keyLabel=""
+        android:keyLabel=" "
         android:keyWidth="0%p" />
     </Row>
     <Row>
@@ -174,7 +174,7 @@
     <Key
         android:codes="-7"
         android:keyEdgeFlags="right"
-        android:keyLabel=""
+        android:keyLabel=" "
         android:keyWidth="0%p" />
     </Row>
     <Row>
@@ -212,7 +212,7 @@
     <Key
         android:codes="-7"
         android:keyEdgeFlags="right"
-        android:keyLabel=""
+        android:keyLabel=" "
         android:keyWidth="0%p" />
     </Row>
     <Row>
@@ -255,7 +255,7 @@
     <Key
         android:codes="-7"
         android:keyEdgeFlags="right"
-        android:keyLabel=""
+        android:keyLabel=" "
         android:keyWidth="0%p" />
     </Row>
     <Row>
@@ -255,7 +255,7 @@

```



```

    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-       android:keyLabel=""
+       android:keyLabel=" "
        android:keyWidth="0%p" />
</Row>
<Row
@@ -293,7 +293,7 @@
    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-       android:keyLabel=""
+       android:keyLabel=" "
        android:keyWidth="0%p" />
</Row>
diff --git a/source/res/xml/kbd_alpha_voice_variants.xml b/source/res/xml/kbd_alpha_voice_variants.xml
index 098b163..be8730a 100644
--- a/source/res/xml/kbd_alpha_voice_variants.xml
+++ b/source/res/xml/kbd_alpha_voice_variants.xml
@@ -52,7 +52,7 @@
    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-       android:keyLabel=""
+       android:keyLabel=" "
        android:keyWidth="0%p" />
</Row>
<Row>
@@ -84,7 +84,7 @@
    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-       android:keyLabel=""
+       android:keyLabel=" "
        android:keyWidth="0%p" />
</Row>
<Row>
@@ -118,7 +118,7 @@
    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-       android:keyLabel=""
+       android:keyLabel=" "
        android:keyWidth="0%p" />
</Row>
<Row android:rowEdgeFlags="bottom" >
@@ -159,7 +159,7 @@
    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-       android:keyLabel=""
+       android:keyLabel=" "
        android:keyWidth="0%p" />
</Row>
diff --git a/source/res/xml/kbd_azerty.xml b/source/res/xml/kbd_azerty.xml
index e54f231..21268ab 100644
--- a/source/res/xml/kbd_azerty.xml
+++ b/source/res/xml/kbd_azerty.xml
@@ -54,7 +54,7 @@
        android:popupCharacters="@string/alternates_for_o"
    />
    <Key android:codes="112" android:keyLabel="p"/>
-   <Key android:codes="-7" android:keyEdgeFlags="right" android:keyLabel="" android:keyWidth="0%p"
/>
+   <Key android:codes="-7" android:keyEdgeFlags="right" android:keyLabel=" " android:keyWidth="0%p"
/>
</Row>
<Row>
@@ -71,7 +71,7 @@

```

```

    <Key android:codes="107" android:keyLabel="k"/>
    <Key android:codes="108" android:keyLabel="l"/>
    <Key android:codes="109" android:keyLabel="m"/>
-   <Key android:codes="-7" android:keyEdgeFlags="right" android:keyLabel="" android:keyWidth="0%p"
/>
+   <Key android:codes="-7" android:keyEdgeFlags="right" android:keyLabel=" " android:keyWidth="0%p"
/>
</Row>

<Row>
@@ -96,7 +96,7 @@
    android:keyWidth="15%p"
    android:iconPreview="@drawable/sym_keyboard_feedback_delete"
    android:isRepeatable="true"/>
-   <Key android:codes="-7" android:keyEdgeFlags="right" android:keyLabel="" android:keyWidth="0%p"
/>
+   <Key android:codes="-7" android:keyEdgeFlags="right" android:keyLabel=" " android:keyWidth="0%p"
/>
</Row><Row
    android:keyboardMode="@+id/mode_normal"
    android:rowEdgeFlags="bottom" >
@@ -129,7 +129,7 @@
    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-       android:keyLabel=""
+       android:keyLabel=" "
        android:keyWidth="0%p" />
</Row>
<Row
@@ -169,7 +169,7 @@
    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-       android:keyLabel=""
+       android:keyLabel=" "
        android:keyWidth="0%p" />
</Row>

```

```
diff --git a/source/res/xml/kbd_qwerty.xml b/source/res/xml/kbd_qwerty.xml
```

```
index ecc2b5e..981ea3f 100644
```

```
--- a/source/res/xml/kbd_qwerty.xml
```

```
+++ b/source/res/xml/kbd_qwerty.xml
```

```
@@ -72,7 +72,7 @@
```

```

    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-       android:keyLabel=""
+       android:keyLabel=" "
        android:keyWidth="0%p" />
</Row>
<Row>

```

```
@@ -118,7 +118,7 @@
```

```

    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-       android:keyLabel=""
+       android:keyLabel=" "
        android:keyWidth="0%p" />
</Row>
<Row>

```

```
@@ -166,7 +166,7 @@
```

```

    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-       android:keyLabel=""
+       android:keyLabel=" "
        android:keyWidth="0%p" />
</Row>
<Row>

```

```
@@ -206,7 +206,7 @@
```

```

    <Key
        android:codes="-7"

```

```

        android:keyEdgeFlags="right"
-       android:keyLabel=""
+       android:keyLabel=" "
        android:keyWidth="0%p" />
    </Row>
    <Row
@@ -251,7 +251,7 @@
        <Key
            android:codes="-7"
            android:keyEdgeFlags="right"
-           android:keyLabel=""
+           android:keyLabel=" "
            android:keyWidth="0%p" />
    </Row>
    <Row
@@ -296,7 +296,7 @@
        <Key
            android:codes="-7"
            android:keyEdgeFlags="right"
-           android:keyLabel=""
+           android:keyLabel=" "
            android:keyWidth="0%p" />
    </Row>
    <Row
@@ -337,7 +337,7 @@
        <Key
            android:codes="-7"
            android:keyEdgeFlags="right"
-           android:keyLabel=""
+           android:keyLabel=" "
            android:keyWidth="0%p" />
    </Row>

```

```
diff --git a/source/res/xml/kbd_qwerty_variants.xml b/source/res/xml/kbd_qwerty_variants.xml
```

```
index a7cf173..99a3e22 100644
```

```
--- a/source/res/xml/kbd_qwerty_variants.xml
```

```
+++ b/source/res/xml/kbd_qwerty_variants.xml
```

```

@@ -72,7 +72,7 @@
    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-       android:keyLabel=""
+       android:keyLabel=" "
        android:keyWidth="0%p" />
    </Row>
    <Row>
@@ -122,7 +122,7 @@
    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-       android:keyLabel=""
+       android:keyLabel=" "
        android:keyWidth="0%p" />
    </Row>
    <Row>
@@ -170,7 +170,7 @@
    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-       android:keyLabel=""
+       android:keyLabel=" "
        android:keyWidth="0%p" />
    </Row>
    <Row
@@ -210,7 +210,7 @@
    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-       android:keyLabel=""
+       android:keyLabel=" "
        android:keyWidth="0%p" />
    </Row>
    <Row

```

```
@@ -255,7 +255,7 @@
    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-       android:keyLabel=""
+       android:keyLabel=" "
        android:keyWidth="0%p" />
```

```
</Row>
```

```
<Row
```

```
@@ -300,7 +300,7 @@
```

```
<Key
```

```
    android:codes="-7"
    android:keyEdgeFlags="right"
-   android:keyLabel=""
+   android:keyLabel=" "
    android:keyWidth="0%p" />
```

```
</Row>
```

```
<Row
```

```
@@ -341,7 +341,7 @@
```

```
<Key
```

```
    android:codes="-7"
    android:keyEdgeFlags="right"
-   android:keyLabel=""
+   android:keyLabel=" "
    android:keyWidth="0%p" />
```

```
</Row>
```

```
diff --git a/source/res/xml/kbd_qwerty_voice.xml b/source/res/xml/kbd_qwerty_voice.xml
```

```
index e8258e1..8e7391b 100755
```

```
--- a/source/res/xml/kbd_qwerty_voice.xml
```

```
+++ b/source/res/xml/kbd_qwerty_voice.xml
```

```
@@ -72,7 +72,7 @@
```

```
<Key
```

```
    android:codes="-7"
    android:keyEdgeFlags="right"
-   android:keyLabel=""
+   android:keyLabel=" "
    android:keyWidth="0%p" />
```

```
</Row>
```

```
<Row>
```

```
@@ -118,7 +118,7 @@
```

```
<Key
```

```
    android:codes="-7"
    android:keyEdgeFlags="right"
-   android:keyLabel=""
+   android:keyLabel=" "
    android:keyWidth="0%p" />
```

```
</Row>
```

```
<Row>
```

```
@@ -166,7 +166,7 @@
```

```
<Key
```

```
    android:codes="-7"
    android:keyEdgeFlags="right"
-   android:keyLabel=""
+   android:keyLabel=" "
    android:keyWidth="0%p" />
```

```
</Row>
```

```
<Row
```

```
@@ -211,7 +211,7 @@
```

```
<Key
```

```
    android:codes="-7"
    android:keyEdgeFlags="right"
-   android:keyLabel=""
+   android:keyLabel=" "
    android:keyWidth="0%p" />
```

```
</Row>
```

```
<Row
```

```
@@ -260,7 +260,7 @@
```

```
<Key
```

```
    android:codes="-7"
    android:keyEdgeFlags="right"
-   android:keyLabel=""
+   android:keyLabel=" "
```

```

        android:keyWidth="0%p" />
    </Row>
    <Row
@@ -310,7 +310,7 @@
        <Key
            android:codes="-7"
            android:keyEdgeFlags="right"
-           android:keyLabel=""
+           android:keyLabel=" "
            android:keyWidth="0%p" />
    </Row>
    <Row
@@ -355,7 +355,7 @@
        <Key
            android:codes="-7"
            android:keyEdgeFlags="right"
-           android:keyLabel=""
+           android:keyLabel=" "
            android:keyWidth="0%p" />
    </Row>

diff --git a/source/res/xml/kbd_qwerty_voice_variants.xml b/source/res/xml/kbd_qwerty_voice_variants.xml
index 9a91ddc..ab44564 100755
--- a/source/res/xml/kbd_qwerty_voice_variants.xml
+++ b/source/res/xml/kbd_qwerty_voice_variants.xml
@@ -72,7 +72,7 @@
    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-       android:keyLabel=""
+       android:keyLabel=" "
        android:keyWidth="0%p" />
    </Row>
    <Row>
@@ -122,7 +122,7 @@
    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-       android:keyLabel=""
+       android:keyLabel=" "
        android:keyWidth="0%p" />
    </Row>
    <Row>
@@ -170,7 +170,7 @@
    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-       android:keyLabel=""
+       android:keyLabel=" "
        android:keyWidth="0%p" />
    </Row>
    <Row>
@@ -215,7 +215,7 @@
    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-       android:keyLabel=""
+       android:keyLabel=" "
        android:keyWidth="0%p" />
    </Row>
    <Row>
@@ -264,7 +264,7 @@
    <Key
        android:codes="-7"
        android:keyEdgeFlags="right"
-       android:keyLabel=""
+       android:keyLabel=" "
        android:keyWidth="0%p" />
    </Row>
    <Row>
@@ -314,7 +314,7 @@
    <Key
        android:codes="-7"

```

```

        android:keyEdgeFlags="right"
-       android:keyLabel=""
+       android:keyLabel=" "
        android:keyWidth="0%p" />
    </Row>
    <Row
@@ -359,7 +359,7 @@
        <Key
            android:codes="-7"
            android:keyEdgeFlags="right"
-           android:keyLabel=""
+           android:keyLabel=" "
            android:keyWidth="0%p" />
    </Row>

diff --git a/source/res/xml/kbd_symbols.xml b/source/res/xml/kbd_symbols.xml
index a585b14..3366ec4 100755
--- a/source/res/xml/kbd_symbols.xml
+++ b/source/res/xml/kbd_symbols.xml
@@ -67,10 +67,14 @@
        android:keyLabel="9" />
    <Key
        android:codes="48"
-       android:keyEdgeFlags="right"
        android:keyLabel="0"
        android:popupCharacters=""
        android:popupKeyboard="@xml/kbd_popup_template" />
+       <Key
+           android:codes="-7"
+           android:keyEdgeFlags="right"
+           android:keyLabel=" "
+           android:keyWidth="0%p" />
    </Row>
    <Row>
        <Key
@@ -114,10 +118,15 @@
        android:popupKeyboard="@xml/kbd_popup_template" />
    <Key
        android:codes="41"
-       android:keyEdgeFlags="right"
+
+       android:keyLabel=")"
+       android:popupCharacters="]]>"
+       android:popupKeyboard="@xml/kbd_popup_template" />
+       <Key
+           android:codes="-7"
+           android:keyEdgeFlags="right"
+           android:keyLabel=" "
+           android:keyWidth="0%p" />
    </Row>
    <Row>
        <Key
@@ -160,9 +169,13 @@
        android:codes="-5"
        android:iconPreview="@drawable/sym_keyboard_feedback_delete"
        android:isRepeatable="true"
-       android:keyEdgeFlags="right"
        android:keyIcon="@drawable/sym_keyboard_delete"
        android:keyWidth="15%p" />
+       <Key
+           android:codes="-7"
+           android:keyEdgeFlags="right"
+           android:keyLabel=" "
+           android:keyWidth="0%p" />
    </Row>
    <Row android:rowEdgeFlags="bottom" >
        <Key
@@ -194,9 +207,13 @@
    <Key
        android:codes="10"
        android:iconPreview="@drawable/sym_keyboard_feedback_return"
-       android:keyEdgeFlags="right"
        android:keyIcon="@drawable/sym_keyboard_return"

```

```

        android:keyWidth="20%p" />
+       <Key
+       android:codes="-7"
+       android:keyEdgeFlags="right"
+       android:keyLabel=" "
+       android:keyWidth="0%p" />
</Row>

</Keyboard>
\ No newline at end of file
diff --git a/source/res/xml/kbd_symbols_shift.xml b/source/res/xml/kbd_symbols_shift.xml
index 62683c9..3996cf5 100755
--- a/source/res/xml/kbd_symbols_shift.xml
+++ b/source/res/xml/kbd_symbols_shift.xml
@@ -40,8 +40,8 @@
        <Key android:keyLabel="x" />
        <Key android:keyLabel="{ " />
        <Key
-       android:keyEdgeFlags="right"
-       android:keyLabel="}" />
+       <Key android:codes="-7" android:keyEdgeFlags="right" android:keyLabel=" " android:keyWidth="0%p"
/>
</Row>
<Row>
        <Key
@@ -62,8 +62,8 @@
        android:popupKeyboard="@xml/kbd_popup_template" />
        <Key android:keyLabel="[" />
        <Key
-       android:keyEdgeFlags="right"
-       android:keyLabel="]" />
+       <Key android:codes="-7" android:keyEdgeFlags="right" android:keyLabel=" " android:keyWidth="0%p" />
</Row>
<Row>
        <Key
@@ -93,9 +93,9 @@
        android:codes="-5"
        android:iconPreview="@drawable/sym_keyboard_feedback_delete"
        android:isRepeatable="true"
-       android:keyEdgeFlags="right"
-       android:keyIcon="@drawable/sym_keyboard_delete"
-       android:keyWidth="15%p" />
+       <Key android:codes="-7" android:keyEdgeFlags="right" android:keyLabel=" " android:keyWidth="0%p" />
</Row>
<Row android:rowEdgeFlags="bottom" >
        <Key
@@ -124,10 +124,10 @@
        android:keyWidth="10%p" />
        <Key
        android:codes="10"
-       android:keyEdgeFlags="right"
-       android:iconPreview="@drawable/sym_keyboard_feedback_return"
-       android:keyIcon="@drawable/sym_keyboard_return"
-       android:keyWidth="20%p" />
+       <Key android:codes="-7" android:keyEdgeFlags="right" android:keyLabel=" " android:keyWidth="0%p" />
</Row>

</Keyboard>
\ No newline at end of file

commit a6694e10f5fcb9400381c25897f26995005e5812
Author: Ankit Daftery <ankitdaf@gmail.com>
Date:   Fri Jul 13 19:56:03 2012 +0530

```

Added invisible stepping out, should fully fix #20

```

diff --git a/source/res/xml/kbd_alpha.xml b/source/res/xml/kbd_alpha.xml
index 10c982b..3d22fb1 100644
--- a/source/res/xml/kbd_alpha.xml
+++ b/source/res/xml/kbd_alpha.xml
@@ -50,6 +50,10 @@
        <Key
        android:keyEdgeFlags="right"

```



```

        android:keyLabel="j" />
+     <Key
+         android:codes="-7"
+         android:keyLabel=""
+         android:keyWidth="0%p" />
</Row>
<Row android:keyboardMode="@+id/mode_normal" >
    <Key
@@ -70,10 +74,14 @@
        <Key android:keyLabel="q" />
        <Key android:keyLabel="r" />
        <Key
-         android:keyEdgeFlags="right"
+         android:codes="-7"
+         android:keyEdgeFlags="right"
+         android:keyLabel=""
+         android:keyWidth="0%p" />
        </Row>
        <Row android:keyboardMode="@+id/mode_voice" >
            <Key
@@ -94,10 +102,14 @@
                <Key android:keyLabel="q" />
                <Key android:keyLabel="r" />
                <Key
-                 android:keyEdgeFlags="right"
+                 android:codes="-7"
+                 android:keyEdgeFlags="right"
+                 android:keyLabel=""
+                 android:keyWidth="0%p" />
                </Row>
                <Row android:keyboardMode="@+id/mode_variants" >
                    <Key
@@ -124,8 +136,12 @@
                        android:codes="@integer/key_variants"
                        android:isModifier="true"
                        android:isSticky="true"
-                       android:keyEdgeFlags="right"
+                       android:codes="-7"
+                       android:keyEdgeFlags="right"
+                       android:keyLabel=""
+                       android:keyWidth="0%p" />
                    <Key
+                 android:codes="-7"
+                 android:keyEdgeFlags="right"
+                 android:keyLabel=""
+                 android:keyWidth="0%p" />
                    </Row>
                    <Row>
                        <Key
@@ -153,9 +169,13 @@
                            android:codes="-5"
                            android:iconPreview="@drawable/sym_keyboard_feedback_delete"
                            android:isRepeatable="true"
-                           android:keyEdgeFlags="right"
+                           android:codes="-7"
+                           android:keyEdgeFlags="right"
+                           android:keyLabel=""
+                           android:keyWidth="0%p" />
                            <Key
+                 android:codes="-7"
+                 android:keyEdgeFlags="right"
+                 android:keyLabel=""
+                 android:keyWidth="0%p" />
                            </Row>
                            <Row
                                android:keyboardMode="@+id/mode_normal"
@@ -187,9 +207,13 @@
                                    <Key
                                        android:codes="10"
                                        android:iconPreview="@drawable/sym_keyboard_feedback_return"

```

```

-         android:keyEdgeFlags="right"
-         android:keyIcon="@drawable/sym_keyboard_return"
-         android:keyWidth="20%p" />
+     <Key
+         android:codes="-7"
+         android:keyEdgeFlags="right"
+         android:keyLabel=""
+         android:keyWidth="0%p" />
</Row>
<Row
    android:keyboardMode="@+id/mode_voice"
@@ -226,9 +250,13 @@
    <Key
        android:codes="@integer/key_voice"
        android:iconPreview="@drawable/sym_keyboard_feedback_mic"
-         android:keyEdgeFlags="right"
-         android:keyIcon="@drawable/sym_keyboard_mic"
-         android:keyWidth="13%p" />
+     <Key
+         android:codes="-7"
+         android:keyEdgeFlags="right"
+         android:keyLabel=""
+         android:keyWidth="0%p" />
</Row>
<Row
    android:keyboardMode="@+id/mode_variants"
@@ -260,9 +288,13 @@
    <Key
        android:codes="10"
        android:iconPreview="@drawable/sym_keyboard_feedback_return"
-         android:keyEdgeFlags="right"
-         android:keyIcon="@drawable/sym_keyboard_return"
-         android:keyWidth="20%p" />
+     <Key
+         android:codes="-7"
+         android:keyEdgeFlags="right"
+         android:keyLabel=""
+         android:keyWidth="0%p" />
</Row>

</Keyboard>
\ No newline at end of file
diff --git a/source/res/xml/kbd_alpha_voice_variants.xml b/source/res/xml/kbd_alpha_voice_variants.xml
index a86c81a..098b163 100644
--- a/source/res/xml/kbd_alpha_voice_variants.xml
+++ b/source/res/xml/kbd_alpha_voice_variants.xml
@@ -48,8 +48,12 @@
        android:popupCharacters="@string/alternates_for_i"
        android:popupKeyboard="@xml/kbd_popup_template" />
    <Key
-         android:keyEdgeFlags="right"
-         android:keyLabel="j" />
+     <Key
+         android:codes="-7"
+         android:keyEdgeFlags="right"
+         android:keyLabel=""
+         android:keyWidth="0%p" />
</Row>
<Row>
    <Key
@@ -76,8 +80,12 @@
        android:codes="@integer/key_variants"
        android:isModifier="true"
        android:isSticky="true"
-         android:keyEdgeFlags="right"
-         android:keyLabel="áž" />
+     <Key
+         android:codes="-7"
+         android:keyEdgeFlags="right"
+         android:keyLabel=""
+         android:keyWidth="0%p" />
</Row>
<Row>

```

```

<Key
@@ -105,9 +113,13 @@
    android:codes="-5"
    android:iconPreview="@drawable/sym_keyboard_feedback_delete"
    android:isRepeatable="true"
-   android:keyEdgeFlags="right"
    android:keyIcon="@drawable/sym_keyboard_delete"
    android:keyWidth="15%p" />
+   <Key
+   android:codes="-7"
+   android:keyEdgeFlags="right"
+   android:keyLabel=""
+   android:keyWidth="0%p" />
</Row>
<Row android:rowEdgeFlags="bottom" >
  <Key
@@ -142,9 +154,13 @@
    <Key
        android:codes="@integer/key_voice"
        android:iconPreview="@drawable/sym_keyboard_feedback_mic"
-       android:keyEdgeFlags="right"
        android:keyIcon="@drawable/sym_keyboard_mic"
        android:keyWidth="13%p" />
+       <Key
+       android:codes="-7"
+       android:keyEdgeFlags="right"
+       android:keyLabel=""
+       android:keyWidth="0%p" />
</Row>

</Keyboard>
\ No newline at end of file
diff --git a/source/res/xml/kbd_azerty.xml b/source/res/xml/kbd_azerty.xml
index 01d3be8..e54f231 100644
--- a/source/res/xml/kbd_azerty.xml
+++ b/source/res/xml/kbd_azerty.xml
@@ -53,7 +53,8 @@
        android:popupKeyboard="@xml/kbd_popup_template"
        android:popupCharacters="@string/alternates_for_o"
    />
-   <Key android:codes="112" android:keyLabel="p" android:keyEdgeFlags="right"/>
+   <Key android:codes="112" android:keyLabel="p"/>
+   <Key android:codes="-7" android:keyEdgeFlags="right" android:keyLabel="" android:keyWidth="0%p"
/>
</Row>

<Row>
@@ -69,7 +70,8 @@
    <Key android:codes="106" android:keyLabel="j"/>
    <Key android:codes="107" android:keyLabel="k"/>
    <Key android:codes="108" android:keyLabel="l"/>
-   <Key android:codes="109" android:keyLabel="m" android:keyEdgeFlags="right"/>
+   <Key android:codes="109" android:keyLabel="m"/>
+   <Key android:codes="-7" android:keyEdgeFlags="right" android:keyLabel="" android:keyWidth="0%p"
/>
</Row>

<Row>
@@ -91,9 +93,10 @@
    />
    <Key android:codes="233,224,232,234" android:keyLabel="é"/>
    <Key android:codes="-5" android:keyIcon="@drawable/sym_keyboard_delete"
-       android:keyWidth="15%p" android:keyEdgeFlags="right"
+       android:keyWidth="15%p"
+       android:iconPreview="@drawable/sym_keyboard_feedback_delete"
+       android:isRepeatable="true"/>
+   <Key android:codes="-7" android:keyEdgeFlags="right" android:keyLabel="" android:keyWidth="0%p"
/>
</Row><Row
    android:keyboardMode="@+id/mode_normal"
    android:rowEdgeFlags="bottom" >
@@ -121,9 +124,13 @@
  <Key

```

```

        android:codes="10"
        android:iconPreview="@drawable/sym_keyboard_feedback_return"
-       android:keyEdgeFlags="right"
        android:keyIcon="@drawable/sym_keyboard_return"
        android:keyWidth="20%p" />
+       <Key
+           android:codes="-7"
+           android:keyEdgeFlags="right"
+           android:keyLabel=""
+           android:keyWidth="0%p" />
</Row>
<Row
    android:keyboardMode="@+id/mode_voice"
@@ -156,10 +163,14 @@
    android:keyWidth="18%p" />
    <Key
        android:codes="@integer/key_voice"
-       android:keyEdgeFlags="right"
        android:iconPreview="@drawable/sym_keyboard_feedback_mic"
        android:keyIcon="@drawable/sym_keyboard_mic"
        android:keyWidth="13%p" />
+       <Key
+           android:codes="-7"
+           android:keyEdgeFlags="right"
+           android:keyLabel=""
+           android:keyWidth="0%p" />
</Row>

</Keyboard>
diff --git a/source/res/xml/kbd_qwerty.xml b/source/res/xml/kbd_qwerty.xml
index dc2593d..ecc2b5e 100644
--- a/source/res/xml/kbd_qwerty.xml
+++ b/source/res/xml/kbd_qwerty.xml
@@ -68,8 +68,12 @@
        android:popupKeyboard="@xml/kbd_popup_template" />
    <Key
        android:codes="112"
-       android:keyEdgeFlags="right"
        android:keyLabel="p" />
+       <Key
+           android:codes="-7"
+           android:keyEdgeFlags="right"
+           android:keyLabel=""
+           android:keyWidth="0%p" />
</Row>
<Row>
    <Key
@@ -97,7 +101,6 @@
        android:keyLabel="g"
        android:popupCharacters="@string/alternates_for_g"
        android:popupKeyboard="@xml/kbd_popup_template" />
-       />
    <Key
        android:codes="104"
        android:keyLabel="h" />
@@ -109,10 +112,14 @@
        android:keyLabel="k" />
    <Key
        android:codes="108"
-       android:keyEdgeFlags="right"
        android:keyLabel="l"
        android:popupCharacters="@string/alternates_for_l"
        android:popupKeyboard="@xml/kbd_popup_template" />
+       <Key
+           android:codes="-7"
+           android:keyEdgeFlags="right"
+           android:keyLabel=""
+           android:keyWidth="0%p" />
</Row>
<Row>
    <Key
@@ -154,9 +161,13 @@
        android:codes="-5"

```

```

        android:iconPreview="@drawable/sym_keyboard_feedback_delete"
        android:isRepeatable="true"
-       android:keyEdgeFlags="right"
        android:keyIcon="@drawable/sym_keyboard_delete"
        android:keyWidth="15%p" />
+       <Key
+         android:codes="-7"
+         android:keyEdgeFlags="right"
+         android:keyLabel=""
+         android:keyWidth="0%p" />
</Row>
<Row
  android:keyboardMode="@+id/mode_normal"
@@ -190,9 +201,13 @@
  <Key
    android:codes="10"
    android:iconPreview="@drawable/sym_keyboard_feedback_return"
-   android:keyEdgeFlags="right"
    android:keyIcon="@drawable/sym_keyboard_return"
    android:keyWidth="20%p" />
+   <Key
+     android:codes="-7"
+     android:keyEdgeFlags="right"
+     android:keyLabel=""
+     android:keyWidth="0%p" />
</Row>
<Row
  android:keyboardMode="@+id/mode_url"
@@ -231,9 +246,13 @@
  <Key
    android:codes="10"
    android:iconPreview="@drawable/sym_keyboard_feedback_return"
-   android:keyEdgeFlags="right"
    android:keyIcon="@drawable/sym_keyboard_return"
    android:keyWidth="20%p" />
+   <Key
+     android:codes="-7"
+     android:keyEdgeFlags="right"
+     android:keyLabel=""
+     android:keyWidth="0%p" />
</Row>
<Row
  android:keyboardMode="@+id/mode_email"
@@ -272,9 +291,13 @@
  <Key
    android:codes="10"
    android:iconPreview="@drawable/sym_keyboard_feedback_return"
-   android:keyEdgeFlags="right"
    android:keyIcon="@drawable/sym_keyboard_return"
    android:keyWidth="20%p" />
+   <Key
+     android:codes="-7"
+     android:keyEdgeFlags="right"
+     android:keyLabel=""
+     android:keyWidth="0%p" />
</Row>
<Row
  android:keyboardMode="@+id/mode_im"
@@ -307,11 +330,15 @@
  android:keyWidth="10%p"
  android:popupKeyboard="@xml/popup_punctuation" />
  <Key
-   android:keyEdgeFlags="right"
    android:keyLabel=":-)"
    android:keyOutputText=":-) "
    android:keyWidth="20%p"
    android:popupKeyboard="@xml/popup_smileys" />
+   <Key
+     android:codes="-7"
+     android:keyEdgeFlags="right"
+     android:keyLabel=""
+     android:keyWidth="0%p" />
</Row>

```

```

</Keyboard>
\ No newline at end of file
diff --git a/source/res/xml/kbd_qwerty_variants.xml b/source/res/xml/kbd_qwerty_variants.xml
index f6c1e71..a7cf173 100644
--- a/source/res/xml/kbd_qwerty_variants.xml
+++ b/source/res/xml/kbd_qwerty_variants.xml
@@ -68,8 +68,12 @@
         android:popupKeyboard="@xml/kbd_popup_template" />
         <Key
-             android:codes="112"
-             android:keyEdgeFlags="right"
-             android:keyLabel="p" />
+             <Key
+                 android:codes="-7"
+                 android:keyEdgeFlags="right"
+                 android:keyLabel=""
+                 android:keyWidth="0%p" />
         </Row>
         <Row>
         <Key
@@ -114,8 +118,12 @@
             android:codes="@integer/key_variants"
             android:isModifier="true"
             android:isSticky="true"
-             android:keyEdgeFlags="right"
-             android:keyLabel="áž" />
+             <Key
+                 android:codes="-7"
+                 android:keyEdgeFlags="right"
+                 android:keyLabel=""
+                 android:keyWidth="0%p" />
         </Row>
         <Row>
         <Key
@@ -157,9 +165,13 @@
             android:codes="-5"
             android:iconPreview="@drawable/sym_keyboard_feedback_delete"
             android:isRepeatable="true"
-             android:keyEdgeFlags="right"
-             android:keyIcon="@drawable/sym_keyboard_delete"
-             android:keyWidth="15%p" />
+             <Key
+                 android:codes="-7"
+                 android:keyEdgeFlags="right"
+                 android:keyLabel=""
+                 android:keyWidth="0%p" />
         </Row>
         <Row
             android:keyboardMode="@+id/mode_normal"
@@ -192,10 +204,14 @@
             android:popupKeyboard="@xml/popup_punctuation" />
         <Key
-             android:codes="10"
-             android:keyEdgeFlags="right"
-             android:iconPreview="@drawable/sym_keyboard_feedback_return"
-             android:keyIcon="@drawable/sym_keyboard_return"
-             android:keyWidth="20%p" />
+             <Key
+                 android:codes="-7"
+                 android:keyEdgeFlags="right"
+                 android:keyLabel=""
+                 android:keyWidth="0%p" />
         </Row>
         <Row
             android:keyboardMode="@+id/mode_url"
@@ -233,10 +249,14 @@
             android:popupKeyboard="@xml/popup_punctuation" />
         <Key
-             android:codes="10"
-             android:keyEdgeFlags="right"
-             android:iconPreview="@drawable/sym_keyboard_feedback_return"
-             android:keyIcon="@drawable/sym_keyboard_return"

```

```

        android:keyWidth="20%p" />
+       <Key
+       android:codes="-7"
+       android:keyEdgeFlags="right"
+       android:keyLabel=""
+       android:keyWidth="0%p" />
</Row>
<Row
    android:keyboardMode="@+id/mode_email"
@@ -274,10 +294,14 @@
    android:popupKeyboard="@xml/popup_punctuation" />
    <Key
        android:codes="10"
-       android:keyEdgeFlags="right"
        android:iconPreview="@drawable/sym_keyboard_feedback_return"
        android:keyIcon="@drawable/sym_keyboard_return"
        android:keyWidth="20%p" />
+       <Key
+       android:codes="-7"
+       android:keyEdgeFlags="right"
+       android:keyLabel=""
+       android:keyWidth="0%p" />
</Row>
<Row
    android:keyboardMode="@+id/mode_im"
@@ -312,9 +336,13 @@
    <Key
        android:keyLabel=":-)"
        android:keyOutputText=":-) "
-       android:keyEdgeFlags="right"
        android:keyWidth="20%p"
        android:popupKeyboard="@xml/popup_smileys" />
+       <Key
+       android:codes="-7"
+       android:keyEdgeFlags="right"
+       android:keyLabel=""
+       android:keyWidth="0%p" />
</Row>

</Keyboard>
\ No newline at end of file
diff --git a/source/res/xml/kbd_qwerty_voice.xml b/source/res/xml/kbd_qwerty_voice.xml
index b6305d3..e8258e1 100755
--- a/source/res/xml/kbd_qwerty_voice.xml
+++ b/source/res/xml/kbd_qwerty_voice.xml
@@ -68,8 +68,12 @@
        android:popupKeyboard="@xml/kbd_popup_template" />
    <Key
        android:codes="112"
-       android:keyEdgeFlags="right"
        android:keyLabel="p" />
+       <Key
+       android:codes="-7"
+       android:keyEdgeFlags="right"
+       android:keyLabel=""
+       android:keyWidth="0%p" />
</Row>
<Row>
    <Key
@@ -97,7 +101,6 @@
        android:keyLabel="g"
        android:popupCharacters="@string/alternates_for_g"
        android:popupKeyboard="@xml/kbd_popup_template" />
-       />
    <Key
        android:codes="104"
        android:keyLabel="h" />
@@ -109,10 +112,14 @@
        android:keyLabel="k" />
    <Key
        android:codes="108"
-       android:keyEdgeFlags="right"
        android:keyLabel="l"

```



```

        android:popupCharacters="@string/alternates_for_1"
        android:popupKeyboard="@xml/kbd_popup_template" />
+       <Key
+         android:codes="-7"
+         android:keyEdgeFlags="right"
+         android:keyLabel=""
+         android:keyWidth="0%p" />
    </Row>
    <Row>
        <Key
@@ -154,9 +161,13 @@
        android:codes="-5"
        android:iconPreview="@drawable/sym_keyboard_feedback_delete"
        android:isRepeatable="true"
-       android:keyEdgeFlags="right"
        android:keyIcon="@drawable/sym_keyboard_delete"
        android:keyWidth="15%p" />
+       <Key
+         android:codes="-7"
+         android:keyEdgeFlags="right"
+         android:keyLabel=""
+         android:keyWidth="0%p" />
    </Row>
    <Row
        android:keyboardMode="@+id/mode_normal"
@@ -195,9 +206,13 @@
        <Key
        android:codes="@integer/key_voice"
        android:iconPreview="@drawable/sym_keyboard_feedback_mic"
-       android:keyEdgeFlags="right"
        android:keyIcon="@drawable/sym_keyboard_mic"
        android:keyWidth="13%p" />
+       <Key
+         android:codes="-7"
+         android:keyEdgeFlags="right"
+         android:keyLabel=""
+         android:keyWidth="0%p" />
    </Row>
    <Row
        android:keyboardMode="@+id/mode_url"
@@ -240,9 +255,13 @@
        <Key
        android:codes="@integer/key_voice"
        android:iconPreview="@drawable/sym_keyboard_feedback_mic"
-       android:keyEdgeFlags="right"
        android:keyIcon="@drawable/sym_keyboard_mic"
        android:keyWidth="13%p" />
+       <Key
+         android:codes="-7"
+         android:keyEdgeFlags="right"
+         android:keyLabel=""
+         android:keyWidth="0%p" />
    </Row>
    <Row
        android:keyboardMode="@+id/mode_email"
@@ -286,9 +305,13 @@
        <Key
        android:codes="@integer/key_voice"
        android:iconPreview="@drawable/sym_keyboard_feedback_mic"
-       android:keyEdgeFlags="right"
        android:keyIcon="@drawable/sym_keyboard_mic"
        android:keyWidth="13%p" />
+       <Key
+         android:codes="-7"
+         android:keyEdgeFlags="right"
+         android:keyLabel=""
+         android:keyWidth="0%p" />
    </Row>
    <Row
        android:keyboardMode="@+id/mode_im"
@@ -327,9 +350,13 @@
        <Key
        android:codes="@integer/key_voice"

```

```

        android:iconPreview="@drawable/sym_keyboard_feedback_mic"
-       android:keyEdgeFlags="right"
        android:keyIcon="@drawable/sym_keyboard_mic"
        android:keyWidth="13%p" />
+       <Key
+       android:codes="-7"
+       android:keyEdgeFlags="right"
+       android:keyLabel=""
+       android:keyWidth="0%p" />
    </Row>

</Keyboard>
\ No newline at end of file
diff --git a/source/res/xml/kbd_qwerty_voice_variants.xml b/source/res/xml/kbd_qwerty_voice_variants.xml
index ebc1309..9a91ddc 100755
--- a/source/res/xml/kbd_qwerty_voice_variants.xml
+++ b/source/res/xml/kbd_qwerty_voice_variants.xml
@@ -68,8 +68,12 @@
        android:popupKeyboard="@xml/kbd_popup_template" />
        <Key
-       android:codes="112"
-       android:keyEdgeFlags="right"
-       android:keyLabel="p" />
+       <Key
+       android:codes="-7"
+       android:keyEdgeFlags="right"
+       android:keyLabel=""
+       android:keyWidth="0%p" />
    </Row>
    <Row>
        <Key
@@ -114,8 +118,12 @@
        android:codes="@integer/key_variants"
        android:isModifier="true"
        android:isSticky="true"
-       android:keyEdgeFlags="right"
-       android:keyLabel="áž" />
+       <Key
+       android:codes="-7"
+       android:keyEdgeFlags="right"
+       android:keyLabel=""
+       android:keyWidth="0%p" />
    </Row>
    <Row>
        <Key
@@ -157,9 +165,13 @@
        android:codes="-5"
        android:iconPreview="@drawable/sym_keyboard_feedback_delete"
        android:isRepeatable="true"
-       android:keyEdgeFlags="right"
-       android:keyIcon="@drawable/sym_keyboard_delete"
-       android:keyWidth="15%p" />
+       <Key
+       android:codes="-7"
+       android:keyEdgeFlags="right"
+       android:keyLabel=""
+       android:keyWidth="0%p" />
    </Row>
    <Row
        android:keyboardMode="@+id/mode_normal"
@@ -197,10 +209,14 @@
        android:keyWidth="16%p" />
        <Key
-       android:codes="@integer/key_voice"
-       android:keyEdgeFlags="right"
-       android:iconPreview="@drawable/sym_keyboard_feedback_mic"
-       android:keyIcon="@drawable/sym_keyboard_mic"
-       android:keyWidth="13%p" />
+       <Key
+       android:codes="-7"
+       android:keyEdgeFlags="right"
+       android:keyLabel=""
+       android:keyWidth="0%p" />

```

```

</Row>
<Row
    android:keyboardMode="@+id/mode_url"
@@ -242,10 +258,14 @@
    android:keyWidth="16%p" />
    <Key
        android:codes="@integer/key_voice"
        android:keyEdgeFlags="right"
        android:iconPreview="@drawable/sym_keyboard_feedback_mic"
        android:keyIcon="@drawable/sym_keyboard_mic"
        android:keyWidth="13%p" />
    +
    <Key
    +
    +
    +
    +
        android:codes="-7"
        android:keyEdgeFlags="right"
        android:keyLabel=""
        android:keyWidth="0%p" />
</Row>
<Row
    android:keyboardMode="@+id/mode_email"
@@ -288,10 +308,14 @@
    android:keyWidth="16%p" />
    <Key
        android:codes="@integer/key_voice"
        android:keyEdgeFlags="right"
        android:iconPreview="@drawable/sym_keyboard_feedback_mic"
        android:keyIcon="@drawable/sym_keyboard_mic"
        android:keyWidth="13%p" />
    +
    <Key
    +
    +
    +
    +
        android:codes="-7"
        android:keyEdgeFlags="right"
        android:keyLabel=""
        android:keyWidth="0%p" />
</Row>
<Row
    android:keyboardMode="@+id/mode_im"
@@ -329,10 +353,14 @@
    android:popupKeyboard="@xml/popup_smileys" />
    <Key
        android:codes="@integer/key_voice"
        android:keyEdgeFlags="right"
        android:iconPreview="@drawable/sym_keyboard_feedback_mic"
        android:keyIcon="@drawable/sym_keyboard_mic"
        android:keyWidth="13%p" />
    +
    <Key
    +
    +
    +
    +
        android:codes="-7"
        android:keyEdgeFlags="right"
        android:keyLabel=""
        android:keyWidth="0%p" />
</Row>

```

</Keyboard>

\ No newline at end of file

```
diff --git a/source/src/ca/idi/tekla/ime/TeclaIME.java b/source/src/ca/idi/tekla/ime/TeclaIME.java
index 976c29c..59d9cce 100644
```

```
--- a/source/src/ca/idi/tekla/ime/TeclaIME.java
```

```
+++ b/source/src/ca/idi/tekla/ime/TeclaIME.java
```

```
@@ -820,6 +820,10 @@ public class TeclaIME extends InputMethodService
```

```
case Keyboard.KEYCODE_MODE_CHANGE:
```

```
changeKeyboardMode();
```

```
break;
```

```
+ case TeclaKeyboardView.KEYCODE_STEP_OUT:
```

```
TeclaApp.highlighter.stepOut();
```

```
if (TeclaApp.DEBUG) Log.d(TeclaApp.TAG, CLASS_TAG + "Hidden key.Stepping out...");
```

```
break;
```

```
default:
```

```
if (isMorseKeyboardKey(primaryCode)) {
```

```
onKeyMorse(primaryCode);
```

```
diff --git a/source/src/ca/idi/tekla/ime/TeclaKeyboardView.java
```

```
b/source/src/ca/idi/tekla/ime/TeclaKeyboardView.java
```

```
index 8f1b746..d4a2fe5 100644
```

```
--- a/source/src/ca/idi/tekla/ime/TeclaKeyboardView.java
```

```
+++ b/source/src/ca/idi/tekla/ime/TeclaKeyboardView.java
```

```
@@ -50,6 +50,9 @@ public class TeclaKeyboardView extends KeyboardView {
```

```

static final int KEYCODE_OPTIONS = -100;
static final int KEYCODE_SHIFT_LONGPRESS = -101;
+
+ // Keycode for stepping out self scanning
+ static final int KEYCODE_STEP_OUT = -7;

private Keyboard mPhoneKeyboard;

```

```

commit d0713f64a385d370f1e0f7e29ccf3e75b4d1d8c8
Author: Ankit Daftery <ankitdaf@gmail.com>
Date: Fri Jul 13 00:34:16 2012 +0530

```

Added automatic stepping out, addresses #20

```

diff --git a/source/src/ca/idi/tekla/util/Highlighter.java b/source/src/ca/idi/tekla/util/Highlighter.java
index 48c4395..2c98907 100644
--- a/source/src/ca/idi/tekla/util/Highlighter.java
+++ b/source/src/ca/idi/tekla/util/Highlighter.java
@@ -34,6 +34,7 @@ public class Highlighter {
private int mScanDepth;
private int mScanKeyCounter, mScanRowCounter;
private int mLastKeyCounter, mLastRowCounter;
+ private int mInactiveScans, mStartScanKeyCounter;
private boolean mWasShowingVariants;
private TeclaKeyboardView mIMEView;
private Handler mHandler;
@@ -133,6 +134,7 @@ public class Highlighter {
}
int fromIndex = keyboard.getRowStart(mScanRowCounter);
int toIndex = keyboard.getRowEnd(mScanRowCounter);
+ mStartScanKeyCounter = fromIndex;
if (mScanDepth == Highlighter.DEPTH_KEY) {
if (direction == Highlighter.HIGHLIGHT_NEXT) mScanKeyCounter++;
if (direction == Highlighter.HIGHLIGHT_PREV) mScanKeyCounter--;
@@ -215,6 +217,13 @@ public class Highlighter {
final long start = SystemClock.uptimeMillis();
if (TeclaApp.DEBUG) Log.d(TeclaApp.TAG, CLASS_TAG + "Scanning to next item");
move(Highlighter.HIGHLIGHT_NEXT);
+ if(mScanKeyCounter==mStartScanKeyCounter) mInactiveScans++;
+ if(mInactiveScans==2 && getScanDepth()==Highlighter.DEPTH_KEY)
+ {
+ mInactiveScans=0;
+ stepOut();
+ if (TeclaApp.DEBUG) Log.d(TeclaApp.TAG, CLASS_TAG + "No activity.Stepping out...");
+ }
mHandler.postAtTime(this, start + TeclaApp.persistence.getScanDelay());
}
@@ -254,6 +263,8 @@ public class Highlighter {
}
}
restoreHighlight();
+ mStartScanKeyCounter=mScanKeyCounter; // Counter to check which key
+ mInactiveScans=0; // Counter to check number of eventless self scan
}

```

```
private boolean shouldDelayKey(int keyCode){
```

```

commit 65039e6e5288a7f75437f46a15b1a9d384d6ea9b
Author: Ankit Daftery <ankitdaf@gmail.com>
Date: Fri Jun 15 14:33:05 2012 +0530

```

Modified layouts to fix #88 #89 #90 Not fully tested

```

diff --git a/source/res/xml/kbd_alpha.xml b/source/res/xml/kbd_alpha.xml
index 296051b..c52d45e 100644
--- a/source/res/xml/kbd_alpha.xml
+++ b/source/res/xml/kbd_alpha.xml
@@ -132,8 +132,9 @@
</Row>

```

```

<Row android:keyboardMode="@+id/mode_normal" android:rowEdgeFlags="bottom">
-   <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
-       android:keyEdgeFlags="left" android:keyWidth="20%p"/>
+ <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+   android:iconPreview="@drawable/sym_keyboard_feedback_done"
+   android:keyWidth="15%p" android:keyEdgeFlags="left"/>
    <Key android:keyLabel="," android:keyWidth="10%p" />
    <Key android:codes="32" android:keyIcon="@drawable/sym_keyboard_space"
        android:iconPreview="@drawable/sym_keyboard_feedback_space"
@@ -144,14 +145,15 @@
    <Key android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"
        android:iconPreview="@drawable/sym_keyboard_feedback_return"
        android:keyWidth="20%p" />
- <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-   android:iconPreview="@drawable/sym_keyboard_feedback_done"
-   android:keyWidth="15%p" android:keyEdgeFlags="right"/>
+   <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
+       android:keyEdgeFlags="right" android:keyWidth="20%p"/>
+
</Row>

<Row android:keyboardMode="@+id/mode_voice" android:rowEdgeFlags="bottom">
-   <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
-       android:keyEdgeFlags="left" android:keyWidth="16%p"/>
+ <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+   android:iconPreview="@drawable/sym_keyboard_feedback_done"
+   android:keyWidth="14%p" android:keyEdgeFlags="left"/>
<Key
  android:codes="@integer/key_voice"
  android:keyIcon="@drawable/sym_keyboard_mic"
@@ -167,14 +169,15 @@
    <Key android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"
        android:iconPreview="@drawable/sym_keyboard_feedback_return"
        android:keyWidth="16%p" />
- <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-   android:iconPreview="@drawable/sym_keyboard_feedback_done"
-   android:keyWidth="14%p" android:keyEdgeFlags="right"/>
+   <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
+       android:keyEdgeFlags="right" android:keyWidth="16%p"/>
+
</Row>

<Row android:keyboardMode="@+id/mode_variants" android:rowEdgeFlags="bottom">
-   <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
-       android:keyEdgeFlags="left" android:keyWidth="20%p"/>
+ <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+   android:iconPreview="@drawable/sym_keyboard_feedback_done"
+   android:keyWidth="15%p" android:keyEdgeFlags="left"/>
    <Key android:keyLabel="," android:keyWidth="10%p" />
    <Key android:codes="32" android:keyIcon="@drawable/sym_keyboard_space"
        android:iconPreview="@drawable/sym_keyboard_feedback_space"
@@ -185,9 +188,9 @@
    <Key android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"
        android:iconPreview="@drawable/sym_keyboard_feedback_return"
        android:keyWidth="20%p" />
- <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-   android:iconPreview="@drawable/sym_keyboard_feedback_done"
-   android:keyWidth="15%p" android:keyEdgeFlags="right"/>
+ <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
+   android:keyEdgeFlags="right" android:keyWidth="20%p"/>
+
</Row>

</Keyboard>
\ No newline at end of file
diff --git a/source/res/xml/kbd_alpha_voice_variants.xml b/source/res/xml/kbd_alpha_voice_variants.xml
index dbe082d..3b18e87 100644
--- a/source/res/xml/kbd_alpha_voice_variants.xml
+++ b/source/res/xml/kbd_alpha_voice_variants.xml
@@ -92,8 +92,9 @@
</Row>

<Row android:rowEdgeFlags="bottom">

```

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-         <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
-             android:keyEdgeFlags="left" android:keyWidth="16%p"/>
+ <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+     android:iconPreview="@drawable/sym_keyboard_feedback_done"
+     android:keyWidth="14%p" android:keyEdgeFlags="left"/>
<Key
  android:codes="@integer/key_voice"
  android:keyIcon="@drawable/sym_keyboard_mic"
@@ -109,9 +110,10 @@
    <Key android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"
        android:iconPreview="@drawable/sym_keyboard_feedback_return"
        android:keyWidth="16%p" />
- <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-     android:iconPreview="@drawable/sym_keyboard_feedback_done"
-     android:keyWidth="14%p" android:keyEdgeFlags="right"/>
+     <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
+         android:keyEdgeFlags="right" android:keyWidth="16%p"/>
+
+
</Row>

</Keyboard>
\ No newline at end of file
diff --git a/source/res/xml/kbd_navigation.xml b/source/res/xml/kbd_navigation.xml
index 52dca43..1792ee6 100644
--- a/source/res/xml/kbd_navigation.xml
+++ b/source/res/xml/kbd_navigation.xml
@@ -23,8 +23,8 @@
  android:verticalGap="0px" android:keyHeight="@dimen/key_height">

  <Row android:keyboardMode="@+id/mode_normal" android:rowEdgeFlags="bottom">
- <Key android:codes="4" android:keyIcon="@drawable/nav_keyboard_back"
-     android:iconPreview="@drawable/nav_keyboard_feedback_back"
+ <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_show"
+     android:iconPreview="@drawable/sym_keyboard_feedback_show"
+     android:keyWidth="15%p" android:keyEdgeFlags="left" />
<Key android:codes="19" android:keyIcon="@drawable/nav_keyboard_up"
  android:iconPreview="@drawable/nav_keyboard_feedback_up"
@@ -39,9 +39,9 @@
    android:iconPreview="@drawable/nav_keyboard_feedback_right"
    android:keyWidth="14%p" />
<Key android:codes="23" android:keyLabel="OK" android:keyWidth="14%p" />
- <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_show"
-     android:iconPreview="@drawable/sym_keyboard_feedback_show"
-     android:keyWidth="15%p" android:keyEdgeFlags="right" />
+ <Key android:codes="4" android:keyIcon="@drawable/nav_keyboard_back"
+     android:iconPreview="@drawable/nav_keyboard_feedback_back"
+     android:keyWidth="15%p" android:keyEdgeFlags="right" />
</Row>

  <Row android:keyboardMode="@+id/mode_voice" android:rowEdgeFlags="bottom">
diff --git a/source/res/xml/kbd_phone.xml b/source/res/xml/kbd_phone.xml
index 2d826ae..a0c2a53 100755
--- a/source/res/xml/kbd_phone.xml
+++ b/source/res/xml/kbd_phone.xml
@@ -49,11 +49,10 @@
  </Row>

  <Row android:rowEdgeFlags="bottom">
-     <Key android:codes="-2" android:keyIcon="@drawable/sym_keyboard_numalt"
-         android:popupKeyboard="@xml/kbd_popup_template"
-         android:popupCharacters=""
-         android:iconPreview="@drawable/sym_keyboard_feedback_numalt"/>
-
+     <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+         android:iconPreview="@drawable/sym_keyboard_feedback_done"
+         android:keyWidth="20%p" android:keyEdgeFlags="left"/>
+
+     <Key android:codes="48" android:keyIcon="@drawable/sym_keyboard_num0"/>

    <Key android:codes="32" android:keyIcon="@drawable/sym_keyboard_space"
@@ -62,9 +61,13 @@
  <!-- <Key android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"

```



```

        android:keyWidth="20%p"
        android:keyEdgeFlags="right"/> -->
- <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-   android:iconPreview="@drawable/sym_keyboard_feedback_done"
-   android:keyWidth="20%p" android:keyEdgeFlags="right"/>
+   <Key android:codes="-2" android:keyIcon="@drawable/sym_keyboard_numalt"
+     android:popupKeyboard="@xml/kbd_popup_template"
+     android:popupCharacters="_"
+     android:iconPreview="@drawable/sym_keyboard_feedback_numalt"
+     android:keyEdgeFlags="right" />
+
+ </Row>

</Keyboard>
\ No newline at end of file
diff --git a/source/res/xml/kbd_phone_symbols.xml b/source/res/xml/kbd_phone_symbols.xml
index 8602863..7f63b15 100755
--- a/source/res/xml/kbd_phone_symbols.xml
+++ b/source/res/xml/kbd_phone_symbols.xml
@@ -54,10 +54,9 @@
</Row>

  <Row android:rowEdgeFlags="bottom">
-   <Key android:codes="-2" android:keyLabel="@string/label_phone_key"
-     android:popupKeyboard="@xml/kbd_popup_template"
-     android:popupCharacters="_"
-     android:keyEdgeFlags="left"/>
+   <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+     android:iconPreview="@drawable/sym_keyboard_feedback_done"
+     android:keyWidth="20%p" android:keyEdgeFlags="left"/>
+     <Key android:keyLabel="+"/>
+     <Key android:codes="32" android:keyIcon="@drawable/sym_keyboard_space"
+       android:iconPreview="@drawable/sym_keyboard_feedback_space"
@@ -65,9 +64,10 @@
  <!-- <Key android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"
    android:keyWidth="20%p"
    android:keyEdgeFlags="right"/> -->
- <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-   android:iconPreview="@drawable/sym_keyboard_feedback_done"
-   android:keyWidth="20%p" android:keyEdgeFlags="right"/>
+   <Key android:codes="-2" android:keyLabel="@string/label_phone_key"
+     android:popupKeyboard="@xml/kbd_popup_template"
+     android:popupCharacters="_"
+     android:keyEdgeFlags="right"/>
+ </Row>

</Keyboard>
\ No newline at end of file
diff --git a/source/res/xml/kbd_qwerty.xml b/source/res/xml/kbd_qwerty.xml
index 0948022..3316114 100644
--- a/source/res/xml/kbd_qwerty.xml
+++ b/source/res/xml/kbd_qwerty.xml
@@ -110,10 +110,9 @@
</Row>

  <Row android:keyboardMode="@+id/mode_normal" android:rowEdgeFlags="bottom">
-   <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
-     android:popupKeyboard="@xml/kbd_popup_template"
-     android:popupCharacters="_"
-     android:keyWidth="20%p" android:keyEdgeFlags="left"/>
+   <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+     android:iconPreview="@drawable/sym_keyboard_feedback_done"
+     android:keyWidth="15%p" android:keyEdgeFlags="left"/>
+     <Key android:keyLabel="," android:keyWidth="10%p" />
+     <Key android:codes="32" android:keyIcon="@drawable/sym_keyboard_space"
+       android:iconPreview="@drawable/sym_keyboard_feedback_space"
@@ -123,16 +122,16 @@
  <Key android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"
    android:iconPreview="@drawable/sym_keyboard_feedback_return"
    android:keyWidth="20%p" />
- <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-   android:iconPreview="@drawable/sym_keyboard_feedback_done"

```



```

-     android:keyWidth="15%p" android:keyEdgeFlags="right"/>
+ <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
+     android:popupKeyboard="@xml/kbd_popup_template"
+     android:popupCharacters="_"
+     android:keyWidth="20%p" android:keyEdgeFlags="right"/>
</Row>

<Row android:keyboardMode="@+id/mode_url" android:rowEdgeFlags="bottom">
-     <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
-     android:popupKeyboard="@xml/kbd_popup_template"
-     android:popupCharacters="_"
-     android:keyWidth="20%p" android:keyEdgeFlags="left"/>
+     <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+     android:iconPreview="@drawable/sym_keyboard_feedback_done"
+     android:keyWidth="15%p" android:keyEdgeFlags="left"/>
+     <!-- <Key android:keyLabel="@string/popular_domain_0"
+     android:keyOutputText="@string/popular_domain_0"
+     android:popupKeyboard="@xml/popup_domains"
@@ -146,16 +145,16 @@
+     <Key android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"
+     android:iconPreview="@drawable/sym_keyboard_feedback_return"
+     android:keyWidth="20%p" />
- <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-     android:iconPreview="@drawable/sym_keyboard_feedback_done"
-     android:keyWidth="15%p" android:keyEdgeFlags="right"/>
- </Row>
-
- <Row android:keyboardMode="@+id/mode_email" android:rowEdgeFlags="bottom">
+     <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
+     android:popupKeyboard="@xml/kbd_popup_template"
+     android:popupCharacters="_"
+     android:keyWidth="20%p" android:keyEdgeFlags="left"/>
+     android:keyWidth="20%p" android:keyEdgeFlags="right"/>
+ </Row>
+
+ <Row android:keyboardMode="@+id/mode_email" android:rowEdgeFlags="bottom">
+     <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+     android:iconPreview="@drawable/sym_keyboard_feedback_done"
+     android:keyWidth="15%p" android:keyEdgeFlags="left"/>
+     <Key android:keyLabel="\@" android:keyWidth="15%p"/>
+     <!-- <Key android:keyLabel="@string/popular_domain_0"
+     android:keyOutputText="@string/popular_domain_0"
@@ -169,17 +168,18 @@
+     <Key android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"
+     android:iconPreview="@drawable/sym_keyboard_feedback_return"
+     android:keyWidth="20%p"/>
- <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-     android:iconPreview="@drawable/sym_keyboard_feedback_done"
-     android:keyWidth="15%p" android:keyEdgeFlags="right"/>
+ <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
+     android:popupKeyboard="@xml/kbd_popup_template"
+     android:popupCharacters="_"
+     android:keyWidth="20%p" android:keyEdgeFlags="right"/>
</Row>

<Row android:keyboardMode="@+id/mode_im" android:rowEdgeFlags="bottom">
-     <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
-     android:popupKeyboard="@xml/kbd_popup_template"
-     android:popupCharacters="_"
-     android:keyWidth="20%p" android:keyEdgeFlags="left"
-     android:state_single="true"/>
+     <Key
+     android:codes="-4"
+     android:keyIcon="@drawable/sym_keyboard_done"
+     android:iconPreview="@drawable/sym_keyboard_feedback_done"
+     android:keyWidth="15%p" android:keyEdgeFlags="left" />
+     <Key android:keyLabel="," android:keyWidth="10%p"/>
+     <Key android:codes="32" android:keyIcon="@drawable/sym_keyboard_space"
+     android:iconPreview="@drawable/sym_keyboard_feedback_space"
@@ -193,10 +193,10 @@
+     android:keyLabel=":-)" android:keyOutputText=":-)" "
+     android:popupKeyboard="@xml/popup_smileys"
+     android:keyWidth="20%p" />

```

```

- <Key
-   android:codes="-4"
-   android:keyIcon="@drawable/sym_keyboard_done"
-   android:iconPreview="@drawable/sym_keyboard_feedback_done"
-   android:keyWidth="15%p" android:keyEdgeFlags="right" />
+   <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
+       android:popupKeyboard="@xml/kbd_popup_template"
+       android:popupCharacters="_"
+       android:keyWidth="20%p" android:keyEdgeFlags="right"
+       android:state_single="true"/>
  </Row>
</Keyboard>
diff --git a/source/res/xml/kbd_qwerty_variants.xml b/source/res/xml/kbd_qwerty_variants.xml
index f369d87..bd50c14 100644
--- a/source/res/xml/kbd_qwerty_variants.xml
+++ b/source/res/xml/kbd_qwerty_variants.xml
@@ -110,10 +110,9 @@
  </Row>

  <Row android:keyboardMode="@+id/mode_normal" android:rowEdgeFlags="bottom">
-   <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
-       android:popupKeyboard="@xml/kbd_popup_template"
-       android:popupCharacters="_"
-       android:keyWidth="20%p" android:keyEdgeFlags="left"/>
+   <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+       android:iconPreview="@drawable/sym_keyboard_feedback_done"
+       android:keyWidth="15%p" android:keyEdgeFlags="left"/>
+   <Key android:keyLabel="," android:keyWidth="10%p" />
+   <Key android:codes="32" android:keyIcon="@drawable/sym_keyboard_space"
+       android:iconPreview="@drawable/sym_keyboard_feedback_space"
@@ -123,16 +122,16 @@
  <Key android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"
      android:iconPreview="@drawable/sym_keyboard_feedback_return"
      android:keyWidth="20%p" />
- <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-     android:iconPreview="@drawable/sym_keyboard_feedback_done"
-     android:keyWidth="15%p" android:keyEdgeFlags="right"/>
+ <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
+     android:popupKeyboard="@xml/kbd_popup_template"
+     android:popupCharacters="_"
+     android:keyWidth="20%p" android:keyEdgeFlags="right"/>
  </Row>

  <Row android:keyboardMode="@+id/mode_url" android:rowEdgeFlags="bottom">
-   <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
-       android:popupKeyboard="@xml/kbd_popup_template"
-       android:popupCharacters="_"
-       android:keyWidth="20%p" android:keyEdgeFlags="left"/>
+ <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+     android:iconPreview="@drawable/sym_keyboard_feedback_done"
+     android:keyWidth="15%p" android:keyEdgeFlags="left"/>
+   <!-- <Key android:keyLabel="@string/popular_domain_0"
+       android:keyOutputText="@string/popular_domain_0"
+       android:popupKeyboard="@xml/popup_domains"
@@ -146,16 +145,16 @@
  <Key android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"
      android:iconPreview="@drawable/sym_keyboard_feedback_return"
      android:keyWidth="20%p" />
- <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-     android:iconPreview="@drawable/sym_keyboard_feedback_done"
-     android:keyWidth="15%p" android:keyEdgeFlags="right"/>
  </Row>
-
- <Row android:keyboardMode="@+id/mode_email" android:rowEdgeFlags="bottom">
  <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
      android:popupKeyboard="@xml/kbd_popup_template"
      android:popupCharacters="_"
      android:keyWidth="20%p" android:keyEdgeFlags="left"/>
+   android:keyWidth="20%p" android:keyEdgeFlags="right"/>
  </Row>
+
+ <Row android:keyboardMode="@+id/mode_email" android:rowEdgeFlags="bottom">
+ <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"

```

```

+     android:iconPreview="@drawable/sym_keyboard_feedback_done"
+     android:keyWidth="15%p" android:keyEdgeFlags="left"/>
+     <Key android:keyLabel="\@" android:keyWidth="15%p"/>
+     <!-- <Key android:keyLabel="@string/popular_domain_0"
+           android:keyOutputText="@string/popular_domain_0"
@@ -169,17 +168,17 @@
+           <Key android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"
+               android:iconPreview="@drawable/sym_keyboard_feedback_return"
+               android:keyWidth="20%p"/>
- <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-     android:iconPreview="@drawable/sym_keyboard_feedback_done"
-     android:keyWidth="15%p" android:keyEdgeFlags="right"/>
- </Row>
-
- <Row android:keyboardMode="@+id/mode_im" android:rowEdgeFlags="bottom">
+   <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
+       android:popupKeyboard="@xml/kbd_popup_template"
+       android:popupCharacters="_"
-       android:keyWidth="20%p" android:keyEdgeFlags="left"
-       android:state_single="true"/>
+       android:keyWidth="20%p" android:keyEdgeFlags="right"/>
+ </Row>
+
+ <Row android:keyboardMode="@+id/mode_im" android:rowEdgeFlags="bottom">
+ <Key android:codes="-4"
+     android:keyIcon="@drawable/sym_keyboard_done"
+     android:iconPreview="@drawable/sym_keyboard_feedback_done"
+     android:keyWidth="15%p" android:keyEdgeFlags="left" />
+     <Key android:keyLabel="," android:keyWidth="10%p"/>
+     <Key android:codes="32" android:keyIcon="@drawable/sym_keyboard_space"
+         android:iconPreview="@drawable/sym_keyboard_feedback_space"
@@ -193,10 +192,10 @@
+         android:keyLabel=":-)" android:keyOutputText=":-) "
+         android:popupKeyboard="@xml/popup_smileys"
+         android:keyWidth="20%p" />
- <Key
-     android:codes="-4"
-     android:keyIcon="@drawable/sym_keyboard_done"
-     android:iconPreview="@drawable/sym_keyboard_feedback_done"
-     android:keyWidth="15%p" android:keyEdgeFlags="right" />
+ <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
+     android:popupKeyboard="@xml/kbd_popup_template"
+     android:popupCharacters="_"
+     android:keyWidth="20%p" android:keyEdgeFlags="right"
+     android:state_single="true"/>
+ </Row>
+ </Keyboard>
diff --git a/source/res/xml/kbd_qwerty_voice.xml b/source/res/xml/kbd_qwerty_voice.xml
index 839e3ac..0b82eb8 100755
--- a/source/res/xml/kbd_qwerty_voice.xml
+++ b/source/res/xml/kbd_qwerty_voice.xml
@@ -116,10 +116,9 @@
+     android:keyboardMode="@+id/mode_normal"
+     android:rowEdgeFlags="bottom">
+ <Key
-     android:codes="-2" android:keyLabel="@string/label_symbol_key"
-     android:popupKeyboard="@xml/kbd_popup_template"
-     android:popupCharacters="_"
-     android:keyWidth="16%p" android:keyEdgeFlags="left"/>
+     android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+     android:iconPreview="@drawable/sym_keyboard_feedback_done"
+     android:keyWidth="14%p" android:keyEdgeFlags="left"/>
+ <Key
+     android:codes="@integer/key_voice"
+     android:keyIcon="@drawable/sym_keyboard_mic"
@@ -139,20 +138,19 @@
+     android:iconPreview="@drawable/sym_keyboard_feedback_return"
+     android:keyWidth="16%p" />
+ <Key
-     android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-     android:iconPreview="@drawable/sym_keyboard_feedback_done"
-     android:keyWidth="14%p" android:keyEdgeFlags="right"/>
+     android:codes="-2" android:keyLabel="@string/label_symbol_key"

```

```

+     android:popupKeyboard="@xml/kbd_popup_template"
+     android:popupCharacters="_"
+     android:keyWidth="16%p" android:keyEdgeFlags="right"/>
</Row>

<Row
  android:keyboardMode="@+id/mode_url"
  android:rowEdgeFlags="bottom">
  <Key
-     android:codes="-2"
-     android:keyLabel="@string/label_symbol_key"
-     android:popupKeyboard="@xml/kbd_popup_template"
-     android:popupCharacters="_" android:keyWidth="16%p"
-     android:keyEdgeFlags="left" />
+     android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+     android:iconPreview="@drawable/sym_keyboard_feedback_done"
+     android:keyWidth="14%p" android:keyEdgeFlags="left" />
  <Key
    android:codes="@integer/key_voice"
    android:keyIcon="@drawable/sym_keyboard_mic"
@@ -177,18 +175,20 @@
    android:iconPreview="@drawable/sym_keyboard_feedback_return"
    android:keyWidth="16%p" />
  <Key
-     android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-     android:iconPreview="@drawable/sym_keyboard_feedback_done"
-     android:keyWidth="14%p" android:keyEdgeFlags="right" />
+     android:codes="-2"
+     android:keyLabel="@string/label_symbol_key"
+     android:popupKeyboard="@xml/kbd_popup_template"
+     android:popupCharacters="_" android:keyWidth="16%p"
+     android:keyEdgeFlags="right" />
</Row>

<Row
  android:keyboardMode="@+id/mode_email"
  android:rowEdgeFlags="bottom">
-   <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
-     android:popupKeyboard="@xml/kbd_popup_template"
-     android:popupCharacters="_"
-     android:keyWidth="16%p" android:keyEdgeFlags="left"/>
+   <Key
+     android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+     android:iconPreview="@drawable/sym_keyboard_feedback_done"
+     android:keyWidth="14%p" android:keyEdgeFlags="left"/>
  <Key
    android:codes="@integer/key_voice"
    android:keyIcon="@drawable/sym_keyboard_mic"
@@ -212,22 +212,20 @@
    android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"
    android:iconPreview="@drawable/sym_keyboard_feedback_return"
    android:keyWidth="16%p"/>
-   <Key
-     android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-     android:iconPreview="@drawable/sym_keyboard_feedback_done"
-     android:keyWidth="14%p" android:keyEdgeFlags="right"/>
+   <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
+     android:popupKeyboard="@xml/kbd_popup_template"
+     android:popupCharacters="_"
+     android:keyWidth="16%p" android:keyEdgeFlags="right"/>
</Row>

<Row
  android:keyboardMode="@+id/mode_im"
  android:rowEdgeFlags="bottom">
  <Key
-     android:codes="-2"
-     android:keyLabel="@string/label_symbol_key"
-     android:popupKeyboard="@xml/kbd_popup_template"
-     android:popupCharacters="_"
-     android:keyWidth="16%p"
-     android:keyEdgeFlags="left" />
+     android:codes="-4"

```

```

+     android:keyIcon="@drawable/sym_keyboard_done"
+     android:iconPreview="@drawable/sym_keyboard_feedback_done"
+     android:keyWidth="14%p" android:keyEdgeFlags="left" />
  <Key
    android:codes="@integer/key_voice"
    android:keyIcon="@drawable/sym_keyboard_mic"
@@ -252,10 +250,12 @@
    android:popupKeyboard="@xml/popup_smileys"
    android:keyWidth="16%p" />
  <Key
-     android:codes="-4"
-     android:keyIcon="@drawable/sym_keyboard_done"
-     android:iconPreview="@drawable/sym_keyboard_feedback_done"
-     android:keyWidth="14%p" android:keyEdgeFlags="right" />
+     android:codes="-2"
+     android:keyLabel="@string/label_symbol_key"
+     android:popupKeyboard="@xml/kbd_popup_template"
+     android:popupCharacters="_"
+     android:keyWidth="16%p"
+     android:keyEdgeFlags="right" />
  </Row>
</Keyboard>

diff --git a/source/res/xml/kbd_qwerty_voice_variants.xml b/source/res/xml/kbd_qwerty_voice_variants.xml
index 1182370..05bcad5 100755
--- a/source/res/xml/kbd_qwerty_voice_variants.xml
+++ b/source/res/xml/kbd_qwerty_voice_variants.xml
@@ -116,10 +116,9 @@
  android:keyboardMode="@+id/mode_normal"
  android:rowEdgeFlags="bottom">
  <Key
-     android:codes="-2" android:keyLabel="@string/label_symbol_key"
-     android:popupKeyboard="@xml/kbd_popup_template"
-     android:popupCharacters="_"
-     android:keyWidth="16%p" android:keyEdgeFlags="left"/>
+     android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+     android:iconPreview="@drawable/sym_keyboard_feedback_done"
+     android:keyWidth="14%p" android:keyEdgeFlags="left"/>
  <Key
    android:codes="@integer/key_voice"
    android:keyIcon="@drawable/sym_keyboard_mic"
@@ -139,20 +138,20 @@
    android:iconPreview="@drawable/sym_keyboard_feedback_return"
    android:keyWidth="16%p" />
  <Key
-     android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-     android:iconPreview="@drawable/sym_keyboard_feedback_done"
-     android:keyWidth="14%p" android:keyEdgeFlags="right"/>
+     android:codes="-2" android:keyLabel="@string/label_symbol_key"
+     android:popupKeyboard="@xml/kbd_popup_template"
+     android:popupCharacters="_"
+     android:keyWidth="16%p" android:keyEdgeFlags="right"/>
  </Row>

  <Row
    android:keyboardMode="@+id/mode_url"
    android:rowEdgeFlags="bottom">
    <Key
-     android:codes="-2"
-     android:keyLabel="@string/label_symbol_key"
-     android:popupKeyboard="@xml/kbd_popup_template"
-     android:popupCharacters="_" android:keyWidth="16%p"
-     android:keyEdgeFlags="left" />
+     android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+     android:iconPreview="@drawable/sym_keyboard_feedback_done"
+     android:keyWidth="14%p" android:keyEdgeFlags="left" />
    <Key
      android:codes="@integer/key_voice"
      android:keyIcon="@drawable/sym_keyboard_mic"
@@ -177,18 +176,22 @@
      android:iconPreview="@drawable/sym_keyboard_feedback_return"
      android:keyWidth="16%p" />

```



```

<Key
-   android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-   android:iconPreview="@drawable/sym_keyboard_feedback_done"
-   android:keyWidth="14%p" android:keyEdgeFlags="right" />
+   android:codes="-2"
+   android:keyLabel="@string/label_symbol_key"
+   android:popupKeyboard="@xml/kbd_popup_template"
+   android:popupCharacters="_" android:keyWidth="16%p"
+   android:keyEdgeFlags="right" />
+
</Row>

<Row
  android:keyboardMode="@+id/mode_email"
  android:rowEdgeFlags="bottom">
-   <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
-     android:popupKeyboard="@xml/kbd_popup_template"
-     android:popupCharacters="_"
-     android:keyWidth="16%p" android:keyEdgeFlags="left" />
+   <Key
+     android:codes="-4"
+     android:keyIcon="@drawable/sym_keyboard_done"
+     android:iconPreview="@drawable/sym_keyboard_feedback_done"
+     android:keyWidth="14%p" android:keyEdgeFlags="left" />
+   <Key
+     android:codes="@integer/key_voice"
+     android:keyIcon="@drawable/sym_keyboard_mic"
@@ -212,22 +215,22 @@
+     android:codes="10" android:keyIcon="@drawable/sym_keyboard_return"
+     android:iconPreview="@drawable/sym_keyboard_feedback_return"
+     android:keyWidth="16%p" />
-   <Key
-     android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-     android:iconPreview="@drawable/sym_keyboard_feedback_done"
-     android:keyWidth="14%p" android:keyEdgeFlags="right" />
+   <Key android:codes="-2" android:keyLabel="@string/label_symbol_key"
+     android:popupKeyboard="@xml/kbd_popup_template"
+     android:popupCharacters="_"
+     android:keyWidth="16%p" android:keyEdgeFlags="right" />
+
+
</Row>

<Row
  android:keyboardMode="@+id/mode_im"
  android:rowEdgeFlags="bottom">
  <Key
-   android:codes="-2"
-   android:keyLabel="@string/label_symbol_key"
-   android:popupKeyboard="@xml/kbd_popup_template"
-   android:popupCharacters="_"
-   android:keyWidth="16%p"
-   android:keyEdgeFlags="left" />
+   android:codes="-4"
+   android:keyIcon="@drawable/sym_keyboard_done"
+   android:iconPreview="@drawable/sym_keyboard_feedback_done"
+   android:keyWidth="14%p" android:keyEdgeFlags="left" />
+   <Key
+     android:codes="@integer/key_voice"
+     android:keyIcon="@drawable/sym_keyboard_mic"
@@ -252,10 +255,12 @@
+     android:popupKeyboard="@xml/popup_smileys"
+     android:keyWidth="16%p" />
+   <Key
-   android:codes="-4"
-   android:keyIcon="@drawable/sym_keyboard_done"
-   android:iconPreview="@drawable/sym_keyboard_feedback_done"
-   android:keyWidth="14%p" android:keyEdgeFlags="right" />
+   android:codes="-2"
+   android:keyLabel="@string/label_symbol_key"
+   android:popupKeyboard="@xml/kbd_popup_template"
+   android:popupCharacters="_"
+   android:keyWidth="16%p"

```

```

+     android:keyEdgeFlags="right" />
+   </Row>
+ </Keyboard>

diff --git a/source/res/xml/kbd_symbols.xml b/source/res/xml/kbd_symbols.xml
index 96a22d8..78e385b 100755
--- a/source/res/xml/kbd_symbols.xml
+++ b/source/res/xml/kbd_symbols.xml
@@ -122,10 +122,9 @@
+   </Row>
+
+   <Row android:rowEdgeFlags="bottom">
-     <Key android:codes="-2" android:keyLabel="@string/label_alpha_key"
-         android:popupKeyboard="@xml/kbd_popup_template"
-         android:popupCharacters="_"
-         android:keyWidth="20%p" android:keyEdgeFlags="left"/>
+     <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+         android:iconPreview="@drawable/sym_keyboard_feedback_done"
+         android:keyWidth="15%p" android:keyEdgeFlags="left"/>
+     <Key android:keyLabel="," android:keyWidth="10%p"
+         android:popupKeyboard="@xml/kbd_popup_template"
+         android:popupCharacters="," />
@@ -136,10 +135,11 @@
+         android:isRepeatable="true"/>
+     <Key android:keyLabel="." android:keyWidth="10%p" />
+     <Key android:codes="10" android:keyIcon="@drawable/sym_keyboard_return" android:keyWidth="20%p"
-         android:iconPreview="@drawable/sym_keyboard_feedback_return"
-         />
-     <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-         android:iconPreview="@drawable/sym_keyboard_feedback_done"
-         android:keyWidth="15%p" android:keyEdgeFlags="right"/>
+         android:iconPreview="@drawable/sym_keyboard_feedback_return" />
+     <Key android:codes="-2" android:keyLabel="@string/label_alpha_key"
+         android:popupKeyboard="@xml/kbd_popup_template"
+         android:popupCharacters="_"
+         android:keyWidth="20%p" android:keyEdgeFlags="right"/>
+
+   </Row>
+ </Keyboard>
\ No newline at end of file
diff --git a/source/res/xml/kbd_symbols_shift.xml b/source/res/xml/kbd_symbols_shift.xml
index 6642bd3..d4dce5e 100755
--- a/source/res/xml/kbd_symbols_shift.xml
+++ b/source/res/xml/kbd_symbols_shift.xml
@@ -86,10 +86,9 @@
+   </Row>
+
+   <Row android:rowEdgeFlags="bottom">
-     <Key android:codes="-2" android:keyLabel="@string/label_alpha_key" android:keyWidth="20%p"
-         android:popupKeyboard="@xml/kbd_popup_template"
-         android:popupCharacters="_"
-         android:keyEdgeFlags="left"/>
+     <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
+         android:iconPreview="@drawable/sym_keyboard_feedback_done"
+         android:keyWidth="15%p" android:keyEdgeFlags="left"/>
+     <Key android:keyLabel="," android:keyWidth="10%p" />
+     <Key android:codes="32" android:keyIcon="@drawable/sym_keyboard_space"
+         android:keyWidth="25%p"
@@ -100,8 +99,10 @@
+         android:keyWidth="20%p"
+         android:iconPreview="@drawable/sym_keyboard_feedback_return"
+         />
-     <Key android:codes="-4" android:keyIcon="@drawable/sym_keyboard_done"
-         android:iconPreview="@drawable/sym_keyboard_feedback_done"
-         android:keyWidth="15%p" android:keyEdgeFlags="right"/>
+     <Key android:codes="-2" android:keyLabel="@string/label_alpha_key" android:keyWidth="20%p"
+         android:popupKeyboard="@xml/kbd_popup_template"
+         android:popupCharacters="_"
+         android:keyEdgeFlags="right"/>
+
+   </Row>
+ </Keyboard>

```


commit 19108311bea2170a117116cd61a0e139ac647cc5
Author: Ankit Daftery <ankitdaf@gmail.com>
Date: Sun Jun 10 00:19:09 2012 +0530

Added support for temporary disconnect

```
diff --git a/source/src/ca/idi/tekla/TeclaPrefs.java b/source/src/ca/idi/tekla/TeclaPrefs.java
index 55fc1bf..b855863 100644
--- a/source/src/ca/idi/tekla/TeclaPrefs.java
+++ b/source/src/ca/idi/tekla/TeclaPrefs.java
@@ -341,6 +341,7 @@ implements SharedPreferences.OnSharedPreferenceChangeListener {
    }
    if (key.equals(Persistence.PREF_TEMP_SHIELD_DISCONNECT)) {
        if(mPrefTempDisconnect.isChecked()) {
+           mPrefConnectToShield.setEnabled(false);
            stopSEP();
            Handler mHandler = new Handler();
            Runnable mReconnect = new Runnable() {
@@ -348,7 +349,8 @@ implements SharedPreferences.OnSharedPreferenceChangeListener {
            @Override
            public void run() {
                if (TeclaApp.DEBUG) Log.d(TeclaApp.TAG, CLASS_TAG + "Re-enabling discovery");
-                discoverShield();
+                discoverShield();
+                mPrefConnectToShield.setEnabled(true);
            }
        };
};
```

commit 0f301141ccb022251ebf6b28dc897958ee088bfc
Author: Ankit Daftery <ankitdaf@gmail.com>
Date: Tue Jun 5 22:15:20 2012 +0530

Added Runnable for temp disconnect. Not completely tested

```
diff --git a/README.md b/README.md
index 3d2fa85..8690296 100644
--- a/README.md
+++ b/README.md
@@ -18,7 +18,8 @@ In order to start contributing code to the Tecla Access project, follow the step
3. Download and install the [Android SDK](http://developer.android.com/sdk/index.html)
4. Create a new Android project in Eclipse named *Tecla Access* (target Android 2.0)
5. Import the *Tecla Access* project's source from the *source* directory in your local repo (you may
need to let Eclipse copy the source to the workspace)
-6. Create a new Android **library** project in Eclipse named *Tecla Access SDK* (target Android 2.0)
+6. Create a new Android **library** project in Eclipse named *Tecla Access SDK*
+6a.If you have Eclipse 3.6 (Helios) or older, you may not have a **library** project option. In that
case, just import the *Tecla Access SDK* project like a normal project, then right click on the project ->
Properties -> Android and make sure **Is Library** is checked.
7. Import the *Tecla Access SDK* project's source from the *sdk* directory in your local repo (you may
need to let Eclipse copy the source to the workspace)
8. Go to the properties of your *Tecla Access* project and add the project *Tecla Access SDK* as a
library
9. You should now be able to compile the project
```

```
diff --git a/source/src/ca/idi/tekla/TeclaPrefs.java b/source/src/ca/idi/tekla/TeclaPrefs.java
index c3cbe62..55fc1bf 100644
--- a/source/src/ca/idi/tekla/TeclaPrefs.java
+++ b/source/src/ca/idi/tekla/TeclaPrefs.java
@@ -25,6 +25,7 @@ import ca.idi.tekla.util.NavKbdTimeoutDialog;
import ca.idi.tekla.util.Persistence;
import ca.idi.tekla.util.ScanSpeedDialog;

+import android.R.bool;
import android.app.ProgressDialog;
import android.bluetooth.BluetoothAdapter;
import android.bluetooth.BluetoothDevice;
@@ -37,6 +38,7 @@ import android.content.Intent;
import android.content.IntentFilter;
import android.content.SharedPreferences;
import android.os.Bundle;
+import android.os.Handler;
import android.preference.CheckBoxPreference;
import android.preference.Preference;
```

```

import android.preference.PreferenceActivity;
@@ -337,6 +339,34 @@ implements SharedPreferences.OnSharedPreferenceChangeListener {
    stopSEP();
}
}
+ if (key.equals(Persistence.PREF_TEMP_SHIELD_DISCONNECT)) {
+     if(mPrefTempDisconnect.isChecked()) {
+         stopSEP();
+         Handler mHandler = new Handler();
+         Runnable mReconnect = new Runnable() {
+
+             @Override
+             public void run() {
+                 if (TeclaApp.DEBUG) Log.d(TeclaApp.TAG, CLASS_TAG + "Re-enabling discovery");
+                 discoverShield();
+             }
+         };
+
+         // See if the handler was posted
+         if(mHandler.postDelayed(mReconnect, 90000)) // 90 second delay
+         {
+             if (TeclaApp.DEBUG) Log.d(TeclaApp.TAG, CLASS_TAG + "Posted Runnable");
+         }
+         else
+         {
+             if (TeclaApp.DEBUG) Log.d(TeclaApp.TAG, CLASS_TAG + "Could not post Runnable");
+         }
+     }
+     else {
+
+     }
+ }
+ if (key.equals(Persistence.PREF_FULLSCREEN_SWITCH)) {
+     if (mPrefFullScreenSwitch.isChecked()) {
+         mPrefPersistentKeyboard.setChecked(true);

```

```

commit 48cfb66abe1074ce694c614fe498388dd6a64287
Author: Ankit Daftery <ankitdaf@gmail.com>
Date: Tue Jun 5 00:54:11 2012 +0530

```

Added Placeholder for Temporary Disconnect

```

diff --git a/.gitignore b/.gitignore
index 935f24c..772d0ed 100644
--- a/.gitignore
+++ b/.gitignore
@@ -2,3 +2,5 @@
 *gen/
 *.settings
 *.~
+*.properties
+*.classpath
diff --git a/sdk/project.properties b/sdk/project.properties
index ab7385d..a2de03e 100644
--- a/sdk/project.properties
+++ b/sdk/project.properties
@@ -8,5 +8,5 @@
 # project structure.

 # Project target.
-target=android-5
+target=android-8
 android.library=true
diff --git a/source/.classpath b/source/.classpath
index d593b44..a4763d1 100644
--- a/source/.classpath
+++ b/source/.classpath
@@ -4,6 +4,5 @@
 <classpathentry kind="src" path="gen"/>
 <classpathentry kind="con" path="com.android.ide.eclipse.adt.ANDROID_FRAMEWORK"/>
 <classpathentry kind="con" path="com.android.ide.eclipse.adt.LIBRARIES"/>
- <classpathentry combineaccessrules="false" kind="src" path="/TeclaAccess SDK"/>

```

```

<classpathentry kind="output" path="bin/classes"/>
</classpath>
diff --git a/source/project.properties b/source/project.properties
index 58cae00..f73f12a 100644
--- a/source/project.properties
+++ b/source/project.properties
@@ -8,5 +8,5 @@
# project structure.

# Project target.
-target=android-5
+target=android-8
  android.library.reference.1=../sdk
diff --git a/source/res/layout/activity_prefs.xml b/source/res/layout/activity_prefs.xml
index 1d87724..c402f0e 100644
--- a/source/res/layout/activity_prefs.xml
+++ b/source/res/layout/activity_prefs.xml
@@ -61,6 +61,13 @@
    android:defaultValue="false"
  />
  <CheckBoxPreference
+   android:key="shield_temp_disconnect"
+   android:title="@string/shield_temp_disconnect"
+   android:summary="@string/shield_temp_disconnect_summary"
+   android:persistent="true"
+   android:defaultValue="false"
+  />
+ <CheckBoxPreference
    android:key="fullscreen_switch"
    android:title="@string/fullscreen_switch"
    android:summary="@string/fullscreen_switch_summary"
diff --git a/source/res/values/strings.xml b/source/res/values/strings.xml
index 56791c2..9a3c415 100644
--- a/source/res/values/strings.xml
+++ b/source/res/values/strings.xml
@@ -228,6 +228,10 @@
  <string name="shield_connect_summary_BT_disabled">Bluetooth is disabled</string>
  <string name="shield_connect_summary">Check to connect to a nearby Tecla Shield</string>

+ <!-- Option to temporarily disconnect Tecla shield -->
+ <string name="shield_temp_disconnect">Temporarily Disconnect Tecla Shield</string>
+ <string name="shield_temp_disconnect_summary">Check to allow another device to connect to Tecla
Shield</string>
+
    <!-- Option to enable fullscreen switch mode -->
    <string name="fullscreen_switch">Fullscreen switch mode</string>
    <string name="fullscreen_switch_summary">Uses the entire screen as a single switch</string>
diff --git a/source/src/ca/idi/tekla/TeclaPrefs.java b/source/src/ca/idi/tekla/TeclaPrefs.java
index 71c5d88..c3cbe62 100644
--- a/source/src/ca/idi/tekla/TeclaPrefs.java
+++ b/source/src/ca/idi/tekla/TeclaPrefs.java
@@ -65,6 +65,7 @@ implements SharedPreferences.OnSharedPreferenceChangeListener {
    private CheckBoxPreference mPrefPersistentKeyboard;
    private Preference mPrefAutohideTimeout;
    private CheckBoxPreference mPrefConnectToShield;
+ private CheckBoxPreference mPrefTempDisconnect;
    private CheckBoxPreference mPrefFullScreenSwitch;
    private CheckBoxPreference mPrefSelfScanning;
    private CheckBoxPreference mPrefInverseScanning;
@@ -98,6 +99,7 @@ implements SharedPreferences.OnSharedPreferenceChangeListener {
    mAutohideTimeoutDialog = new NavKbdTimeoutDialog(this);
    mAutohideTimeoutDialog.setContentView(R.layout.dialog_autohide_timeout);
    mPrefConnectToShield = (CheckBoxPreference) findPreference(Persistence.PREF_CONNECT_TO_SHIELD);
+ mPrefTempDisconnect = (CheckBoxPreference) findPreference(Persistence.PREF_TEMP_SHIELD_DISCONNECT);
    mPrefFullScreenSwitch = (CheckBoxPreference) findPreference(Persistence.PREF_FULLSCREEN_SWITCH);
    mPrefSelfScanning = (CheckBoxPreference) findPreference(Persistence.PREF_SELF_SCANNING);
    mPrefInverseScanning = (CheckBoxPreference) findPreference(Persistence.PREF_INVERSE_SCANNING);
@@ -117,6 +119,8 @@ implements SharedPreferences.OnSharedPreferenceChangeListener {

    // If no alternative input selected, disable scanning
    if (!mPrefConnectToShield.isChecked() && !mPrefFullScreenSwitch.isChecked()) {
+   mPrefTempDisconnect.setChecked(false);
+   mPrefTempDisconnect.setEnabled(false);

```

```

mPrefSelfScanning.setChecked(false);
mPrefInverseScanning.setChecked(false);
mPrefSelfScanning.setEnabled(false);
@@ -131,6 +135,7 @@ implements SharedPreferences.OnSharedPreferenceChangeListener {
mPrefAutohideTimeout.setEnabled(false);
mPrefFullScreenSwitch.setEnabled(false);
mPrefConnectToShield.setEnabled(false);
+ mPrefTempDisconnect.setEnabled(false);
mPrefSelfScanning.setEnabled(false);
mPrefInverseScanning.setEnabled(false);
TeclaApp.getInstance().showToast(R.string.tecla_notselected);
@@ -229,6 +234,8 @@ implements SharedPreferences.OnSharedPreferenceChangeListener {
dismissDialog();
if (!mConnectionCancelled) TeclaApp.getInstance().showToast(R.string.no_shields_inrange);
mPrefConnectToShield.setChecked(false);
+ mPrefTempDisconnect.setChecked(false);
+ mPrefTempDisconnect.setEnabled(false);
}
}

@@ -238,6 +245,7 @@ implements SharedPreferences.OnSharedPreferenceChangeListener {
dismissDialog();
TeclaApp.getInstance().showToast(R.string.shield_connected);
// Enable scanning checkboxes so they can be turned on/off
+ mPrefTempDisconnect.setEnabled(true);
mPrefSelfScanning.setEnabled(true);
mPrefInverseScanning.setEnabled(true);
}

@@ -245,6 +253,8 @@ implements SharedPreferences.OnSharedPreferenceChangeListener {
if (intent.getAction().equals(SwitchEventProvider.ACTION_SHIELD_DISCONNECTED)) {
if (TeclaApp.DEBUG) Log.d(TeclaApp.TAG, CLASS_TAG + "SEP broadcast stopped");
dismissDialog();
+ mPrefTempDisconnect.setChecked(false);
+ mPrefTempDisconnect.setEnabled(false);
}
}
};

@@ -285,6 +295,8 @@ implements SharedPreferences.OnSharedPreferenceChangeListener {
mPrefInverseScanning.setEnabled(false);
mPrefFullScreenSwitch.setChecked(false);
mPrefConnectToShield.setChecked(false);
+ mPrefTempDisconnect.setChecked(false);
+ mPrefTempDisconnect.setEnabled(false);
TeclaApp.getInstance().requestHideIMEView();
}
}

@@ -299,6 +311,8 @@ implements SharedPreferences.OnSharedPreferenceChangeListener {
mPrefInverseScanning.setEnabled(false);
mPrefFullScreenSwitch.setChecked(false);
mPrefConnectToShield.setChecked(false);
+ mPrefTempDisconnect.setChecked(false);
+ mPrefTempDisconnect.setEnabled(false);
TeclaApp.getInstance().requestHideIMEView();
}
}

@@ -313,6 +327,8 @@ implements SharedPreferences.OnSharedPreferenceChangeListener {
// Should perhaps use Binding?
dismissDialog();
if (!mPrefFullScreenSwitch.isChecked()) {
+ mPrefTempDisconnect.setChecked(false);
+ mPrefTempDisconnect.setEnabled(false);
mPrefSelfScanning.setChecked(false);
mPrefSelfScanning.setEnabled(false);
mPrefInverseScanning.setChecked(false);
@@ -334,6 +350,8 @@ implements SharedPreferences.OnSharedPreferenceChangeListener {
TeclaApp.persistence.setNeverHideNavigationKeyboard();
} else {
if (!mPrefConnectToShield.isChecked()) {
+ mPrefTempDisconnect.setChecked(false);
+ mPrefTempDisconnect.setEnabled(false);
mPrefSelfScanning.setChecked(false);
mPrefSelfScanning.setEnabled(false);
mPrefInverseScanning.setChecked(false);

```

```

@@ -354,6 +372,8 @@ implements SharedPreferences.OnSharedPreferenceChangeListener {
    if (!mPrefInverseScanning.isChecked()) {
        mPrefFullScreenSwitch.setChecked(false);
        if (!mPrefConnectToShield.isChecked()) {
+           mPrefTempDisconnect.setChecked(false);
+           mPrefTempDisconnect.setEnabled(false);
            mPrefSelfScanning.setEnabled(false);
        }
    }
@@ -368,6 +388,8 @@ implements SharedPreferences.OnSharedPreferenceChangeListener {
    if (!mPrefSelfScanning.isChecked()) {
        mPrefFullScreenSwitch.setChecked(false);
        if (!mPrefConnectToShield.isChecked()) {
+           mPrefTempDisconnect.setChecked(false);
+           mPrefTempDisconnect.setEnabled(false);
            mPrefInverseScanning.setEnabled(false);
        }
    }
@@ -385,6 +407,8 @@ implements SharedPreferences.OnSharedPreferenceChangeListener {
    if (TeclaApp.DEBUG) Log.d(TeclaApp.TAG, CLASS_TAG + "Tecla Shield discovery cancelled");
    TeclaApp.getInstance().showToast(R.string.shield_connection_cancelled);
    mConnectionCancelled = true;
+   mPrefTempDisconnect.setChecked(false);
+   mPrefTempDisconnect.setEnabled(false);
    //Since we have cancelled the discovery the check state needs to be reset
    //(triggers onSharedPreferenceChanged)
    //mPrefConnectToShield.setChecked(false);
@@ -432,9 +456,13 @@ implements SharedPreferences.OnSharedPreferenceChangeListener {
    if (mBluetoothAdapter == null) {
        mPrefConnectToShield.setSummary(R.string.shield_connect_summary_BT_nosupport);
        mPrefConnectToShield.setEnabled(false);
+       mPrefTempDisconnect.setChecked(false);
+       mPrefTempDisconnect.setEnabled(false);
    } else if (!mBluetoothAdapter.isEnabled()) {
        mPrefConnectToShield.setSummary(R.string.shield_connect_summary_BT_disabled);
        mPrefConnectToShield.setEnabled(false);
+       mPrefTempDisconnect.setChecked(false);
+       mPrefTempDisconnect.setEnabled(false);
    } else {
        mPrefConnectToShield.setSummary(R.string.shield_connect_summary);
        mPrefConnectToShield.setEnabled(true);
diff --git a/source/src/ca/idi/tekla/util/Persistence.java b/source/src/ca/idi/tekla/util/Persistence.java
index c04f2a6..98226a5 100644
--- a/source/src/ca/idi/tekla/util/Persistence.java
+++ b/source/src/ca/idi/tekla/util/Persistence.java
@@ -21,6 +21,7 @@ public class Persistence {
    public static final String PREF_PERSISTENT_KEYBOARD = "persistent_keyboard";
    public static final String PREF_AUTOHIDE_TIMEOUT = "autohide_timeout";
    public static final String PREF_CONNECT_TO_SHIELD = "shield_connect";
+   public static final String PREF_TEMP_SHIELD_DISCONNECT = "shield_temp_disconnect";
    public static final String PREF_SHIELD_ADDRESS = "shield_address";
    public static final String PREF_FULLSCREEN_SWITCH = "fullscreen_switch";
    public static final String PREF_SELF_SCANNING = "self_scanning";

commit ece30f935ac1c1d74a76ecab02f65402b5f463a1
Author: Ankit Daftery <ankitdaf@gmail.com>
Date: Mon Mar 26 07:33:19 2012 +0530

```

Changed string to "Tecla Shield Connection Status"

```

diff --git a/source/res/values/strings.xml b/source/res/values/strings.xml
index dffe8df..aa7c2a4 100644
--- a/source/res/values/strings.xml
+++ b/source/res/values/strings.xml
@@ -284,7 +284,7 @@
    <string name="no_voice_actions_installed">Voice Actions is not installed!</string>

    <!-- Tecla: Titles and labels -->
-   <string name="sep_label">Tecla Shield Status</string>
+   <string name="sep_label">Tecla Shield Connection Status</string>
    <string name="voice_input">Tecla Voice Input</string>
    <string name="configuring_tecla">Configuring Tecla...</string>

```

commit 9985bcdb69e0ca85acfb2ea17cb6dd2631c180fa
Author: Ankit Daftery <ankitdaf@gmail.com>
Date: Sun Mar 25 09:11:54 2012 +0530

Fixed issue #30

```
diff --git a/source/res/values/strings.xml b/source/res/values/strings.xml
index 8c98977..dffe8df 100644
--- a/source/res/values/strings.xml
+++ b/source/res/values/strings.xml
@@ -284,7 +284,7 @@
 <string name="no_voice_actions_installed">Voice Actions is not installed!</string>

 <!-- Tecla: Titles and labels -->
- <string name="sep_label">Switch event provider</string>
+ <string name="sep_label">Tecla Shield Status</string>
 <string name="voice_input">Tecla Voice Input</string>
 <string name="configuring_tecla">Configuring Tecla...</string>
```

----- BRANCH DEVELOP -----

commit 333ed5c99a5c7701802b7df8be026644d982e385 (HEAD, origin/develop, develop)
Merge: 0769d17 dda0a04
Author: Ankit Daftery <ankitdaf@gmail.com>
Date: Fri Jul 13 08:10:31 2012 -0700

Merge pull request #2 from AKdroid/develop

develop branch pull request

commit 0769d1745e967bcf7c61c817ce470d3e34e9f72e
Author: Ankit Daftery <ankitdaf@gmail.com>
Date: Tue Apr 10 00:13:12 2012 +0530

Included bluez issue mention in README

```
diff --git a/emulator/README.md b/emulator/README.md
index a4925e3..dcba559 100644
--- a/emulator/README.md
+++ b/emulator/README.md
@@ -9,6 +9,14 @@ The emulator is basically a python script and requires [Pybluez](http://code.goo
###Important###
In order to use Tecla Emulator name your bluetooth device with TeclaShield prefix in order that
TeclaAccess App can connect to the emulator.

+The Emulator is known give issues with certain versions of bluez on Ubuntu.
+The following versions are known to work :
+
+bluez-4.99
+obexd-0.45
+bluez-hcidump-2.3 (Don't think if this is needed, but anyway )
+
+###How to run:###

1. Download teclaemu.py
```

----- BRANCH AUTO_CANCEL_SCAN -----

commit 6a9da27b0b8c298a29e8525f0b396bec98cfcbce
Author: Ankit Daftery <ankitdaf@gmail.com>
Date: Tue Jul 10 12:39:59 2012 +0530

Added functionality to Save As button

```
diff --git a/TeclaDesktop/src/com/akdroid/interfaces/ButonPref.java
b/TeclaDesktop/src/com/akdroid/interfaces/ButonPref.java
index ed35a32..f69a0fe 100644
--- a/TeclaDesktop/src/com/akdroid/interfaces/ButonPref.java
+++ b/TeclaDesktop/src/com/akdroid/interfaces/ButonPref.java
@@ -556,6 +556,5 @@ public class ButonPref extends javax.swing.JPanel {
 //Committhe changes to the file.
```



```
prefs.commitchanges(prefs.get_doc());
```

```
-  
}  
}  
diff --git a/TeclaDesktop/src/com/akdroid/tecladesk/PreferencesHandler.java  
b/TeclaDesktop/src/com/akdroid/tecladesk/PreferencesHandler.java  
index ae6f0e6..3555859 100644  
--- a/TeclaDesktop/src/com/akdroid/tecladesk/PreferencesHandler.java  
+++ b/TeclaDesktop/src/com/akdroid/tecladesk/PreferencesHandler.java  
@@ -157,6 +157,25 @@ public class PreferencesHandler {  
    }  
}  
  
+ public void save_config(File old_config, File new_config)  
+ {  
+     try {  
+         docf=DocumentBuilderFactory.newInstance(); //Initialize the document builder  
+         docb=docf.newDocumentBuilder(); //initialize document builder  
+         doc=docb.parse(old_config); //initialize the root element  
+         rootElement=(Element)doc.getFirstChild(); //initialize the root element  
+         rootElement.setAttribute("is_default", "false");  
+         current_config = new_config;  
+         commitchanges(doc);  
+     } catch (SAXException ex) {  
+         Logger.getLogger(PreferencesHandler.class.getName()).log(Level.SEVERE, null, ex);  
+     } catch (IOException ex) {  
+         Logger.getLogger(PreferencesHandler.class.getName()).log(Level.SEVERE, null, ex);  
+     } catch (ParserConfigurationException ex) {  
+         Logger.getLogger(PreferencesHandler.class.getName()).log(Level.SEVERE, null, ex);  
+     }  
+ }  
  
+ public void set_selected_config(File selected_config)  
+ {  
+     try {  
@@ -182,6 +201,11 @@ public class PreferencesHandler {  
    return current_config;  
    }  
  
+ public void set_current_config(File this_config)  
+ {  
+     current_config = this_config;  
+ }  
  
+ public void commitchanges(Document doc_){  
+     TransformerFactory tf =TransformerFactory.newInstance(); //  
+     try {
```

```
commit fa996e8e1f9d1353b3b9ad2aa82efd007b064e16
```

```
Author: Ankit Daftery <ankitdaf@gmail.com>
```

```
Date: Tue Jul 10 00:04:20 2012 +0530
```

Added button to delete configuration,placeholder for Save As configuration

```
diff --git a/TeclaDesktop/src/com/akdroid/interfaces/ConfigSel.form  
b/TeclaDesktop/src/com/akdroid/interfaces/ConfigSel.form  
index 04ffeb3..3d5f855 100644  
--- a/TeclaDesktop/src/com/akdroid/interfaces/ConfigSel.form  
+++ b/TeclaDesktop/src/com/akdroid/interfaces/ConfigSel.form  
@@ -19,7 +19,11 @@  
    <Group type="102" alignment="0" attributes="0">  
        <EmptySpace max="-2" attributes="0"/>  
        <Component id="jComboBox1" min="-2" pref="285" max="-2" attributes="0"/>  
-        <EmptySpace pref="103" max="32767" attributes="0"/>  
+        <EmptySpace min="-2" pref="31" max="-2" attributes="0"/>  
+        <Component id="save_as_button" min="-2" max="-2" attributes="0"/>  
+        <EmptySpace type="separate" max="-2" attributes="0"/>  
+        <Component id="delete_button" min="-2" max="-2" attributes="0"/>  
+        <EmptySpace pref="26" max="32767" attributes="0"/>  
    </Group>  
</Group>  
</DimensionLayout>
```



```

@@ -27,7 +31,13 @@
    <Group type="103" groupAlignment="0" attributes="0">
      <Group type="102" alignment="0" attributes="0">
        <EmptySpace max="-2" attributes="0"/>
-       <Component id="jComboBox1" min="-2" pref="36" max="-2" attributes="0"/>
+       <Group type="103" groupAlignment="1" attributes="0">
+         <Group type="103" groupAlignment="3" attributes="0">
+           <Component id="save_as_button" alignment="3" min="-2" max="-2" attributes="0"/>
+           <Component id="delete_button" alignment="3" min="-2" max="-2" attributes="0"/>
+         </Group>
+       <Component id="jComboBox1" min="-2" pref="36" max="-2" attributes="0"/>
+     </Group>
+   <EmptySpace pref="19" max="32767" attributes="0"/>
  </Group>
</Group>

```

```

@@ -41,5 +51,21 @@
  </Property>
</Properties>
</Component>
+ <Component class="javax.swing.JButton" name="save_as_button">
+   <Properties>
+     <Property name="text" type="java.lang.String" value="Save As.."/>
+   </Properties>
+   <Events>
+     <EventHandler event="actionPerformed" listener="java.awt.event.ActionListener"
parameters="java.awt.event.ActionEvent" handler="save_as_buttonActionPerformed"/>
+   </Events>
+ </Component>
+ <Component class="javax.swing.JButton" name="delete_button">
+   <Properties>
+     <Property name="text" type="java.lang.String" value="Delete"/>
+   </Properties>
+   <Events>
+     <EventHandler event="actionPerformed" listener="java.awt.event.ActionListener"
parameters="java.awt.event.ActionEvent" handler="delete_buttonActionPerformed"/>
+   </Events>
+ </Component>
</SubComponents>
</Form>

```

```

diff --git a/TeclaDesktop/src/com/akdroid/interfaces/ConfigSel.java
b/TeclaDesktop/src/com/akdroid/interfaces/ConfigSel.java
index 89c7010..5a54dee 100644

```

```

--- a/TeclaDesktop/src/com/akdroid/interfaces/ConfigSel.java
+++ b/TeclaDesktop/src/com/akdroid/interfaces/ConfigSel.java
@@ -20,6 +20,7 @@ import java.io.File;

```

```

    PreferencesHandler pref;
    ClientMain clientmain;
+   ActionListener al;

    /**
     * Creates new form ConfigSel
@@ -29,8 +30,8 @@ import java.io.File;
    pref=pref_;
    show_all_configs();
    clientmain=clientmain_;
-   jComboBox1.addActionListener( new ActionListener() {
-
+   al = new ActionListener() {
+
        @Override
        public void actionPerformed(ActionEvent ae) {
@@ -38,12 +39,15 @@ import java.io.File;
            save_current_config();
            set_selected_config(selected_config);
        }
-   });
+   };
+
+   jComboBox1.addActionListener(al);
}

```

```

public void show_all_configs()
{
+   jComboBox1.removeAllItems();
   File[] available_configs = pref.get_available_configs();

   for (int i=0;i<available_configs.length;i++)
@@ -56,6 +60,7 @@ import java.io.File;

public void save_current_config()
{
+   if(pref.get_current_config() != null)
   pref.save_config(pref.get_current_config());
}

@@ -77,6 +82,22 @@ import java.io.File;
private void initComponents() {

   jComboBox1 = new javax.swing.JComboBox();
+   save_as_button = new javax.swing.JButton();
+   delete_button = new javax.swing.JButton();

+   save_as_button.setText("Save As..");
+   save_as_button.addActionListener(new java.awt.event.ActionListener() {
+       public void actionPerformed(java.awt.event.ActionEvent evt) {
+           save_as_buttonActionPerformed(evt);
+       }
+   });

+   delete_button.setText("Delete");
+   delete_button.addActionListener(new java.awt.event.ActionListener() {
+       public void actionPerformed(java.awt.event.ActionEvent evt) {
+           delete_buttonActionPerformed(evt);
+       }
+   });

   javax.swing.GroupLayout layout = new javax.swing.GroupLayout(this);
   this.setLayout(layout);
@@ -85,18 +106,50 @@ import java.io.File;
   .addGroup(layout.createSequentialGroup()
       .addContainerGap()
       .addComponent(jComboBox1, javax.swing.GroupLayout.PREFERRED_SIZE, 285,
+       javax.swing.GroupLayout.PREFERRED_SIZE)
-       .addContainerGap(103, Short.MAX_VALUE))
+       .addGap(31, 31, 31)
+       .addComponent(save_as_button)
+       .addGap(18, 18, 18)
+       .addComponent(delete_button)
+       .addContainerGap(26, Short.MAX_VALUE))
   );
   layout.setVerticalGroup(
       layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
       .addGroup(layout.createSequentialGroup()
           .addContainerGap()
-           .addComponent(jComboBox1, javax.swing.GroupLayout.PREFERRED_SIZE, 36,
+           javax.swing.GroupLayout.PREFERRED_SIZE)
+           .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
+               .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
+                   .addComponent(save_as_button)
+                   .addComponent(delete_button))
+               .addComponent(jComboBox1, javax.swing.GroupLayout.PREFERRED_SIZE, 36,
+                   javax.swing.GroupLayout.PREFERRED_SIZE))
           .addContainerGap(19, Short.MAX_VALUE))
       );
} // </editor-fold> //GEN-END: initComponents

+   private void save_as_buttonActionPerformed(java.awt.event.ActionEvent evt) { //GEN-
FIRST:event_save_as_buttonActionPerformed
+       // TODO add your handling code here:
+   } //GEN-LAST:event_save_as_buttonActionPerformed

+   private void delete_buttonActionPerformed(java.awt.event.ActionEvent evt) { //GEN-
FIRST:event_delete_buttonActionPerformed

```

```

+ // TODO add your handling code here:
+ jComboBox1.removeActionListener(al);
+ File to_delete = pref.get_current_config();
+ to_delete.delete();
+ jComboBox1.removeAllItems();
+ File [] available_configs = pref.get_available_configs();
+ set_selected_config(available_configs[0]);
+
+ for (int i=0;i<available_configs.length;i++)
+ {
+     jComboBox1.addItem(available_configs[i]);
+ }
+ jComboBox1.setSelectedItem(pref.get_current_config());
+ jComboBox1.addActionListener(al);
+ }//GEN-LAST:event_delete_buttonActionPerformed
+
+ // Variables declaration - do not modify//GEN-BEGIN:variables
+ private javax.swing.JButton delete_button;
+ private javax.swing.JComboBox jComboBox1;
+ private javax.swing.JButton save_as_button;
+ // End of variables declaration//GEN-END:variables
+
+ }
diff --git a/TeclaDesktop/src/com/akdroid/tecladesk/PreferencesHandler.java
b/TeclaDesktop/src/com/akdroid/tecladesk/PreferencesHandler.java
index 2e86466..ae6f0e6 100644
--- a/TeclaDesktop/src/com/akdroid/tecladesk/PreferencesHandler.java
+++ b/TeclaDesktop/src/com/akdroid/tecladesk/PreferencesHandler.java
@@ -125,6 +125,12 @@ public class PreferencesHandler {

    public File[] get_available_configs()
    {
+         available_configs=dir.listFiles();
+         if(available_configs == null || available_configs.length==0)
+         {
+             createXmlFile();
+             available_configs=dir.listFiles();
+         }
        return available_configs;
    }
}

```

```

diff --git a/TeclaDesktop/src/com/akdroid/tecladesk/PreferencesHandler.java
b/TeclaDesktop/src/com/akdroid/tecladesk/PreferencesHandler.java
index 2e86466..ae6f0e6 100644

```

```

--- a/TeclaDesktop/src/com/akdroid/tecladesk/PreferencesHandler.java
+++ b/TeclaDesktop/src/com/akdroid/tecladesk/PreferencesHandler.java
@@ -125,6 +125,12 @@ public class PreferencesHandler {

```

```

@@ -125,6 +125,12 @@ public class PreferencesHandler {

    public File[] get_available_configs()
    {
+         available_configs=dir.listFiles();
+         if(available_configs == null || available_configs.length==0)
+         {
+             createXmlFile();
+             available_configs=dir.listFiles();
+         }
        return available_configs;
    }
}

```

```

commit 13cd2dee81c9fb0c7ee91ec2db1e6d542171498d
Author: Ankit Daftery <ankitdaf@gmail.com>
Date: Thu Jul 5 20:15:39 2012 +0530

```

Added support for multiple configurations

```

diff --git a/TeclaDesktop/Preferences/default.xml b/TeclaDesktop/Preferences/default.xml
new file mode 100644
index 0000000..bea69aa
--- /dev/null
+++ b/TeclaDesktop/Preferences/default.xml
@@ -0,0 +1 @@
+<?xml version="1.0" encoding="UTF-8" standalone="no"?><TeclaClient is_default="false"
name="raw"><ShieldButton value="0"><ShieldEvent device="1" eventid="0" options="5,5"
value="1,"/><ShieldEvent device="2" eventid="1" options="5,5" value="17,86,"/><ShieldEvent device="1"
eventid="2" options="5,5" value="5,"/><ShieldEvent device="0" eventid="3" options="0,0"
value="0,"/><ShieldEvent device="0" eventid="4" options="0,0" value="0,"/></ShieldButton><ShieldButton
value="1"><ShieldEvent device="1" eventid="0" options="0,5" value="0,"/><ShieldEvent device="0"
eventid="1" options="0,0" value="0,"/><ShieldEvent device="0" eventid="2" options="0,0"
value="0,"/><ShieldEvent device="0" eventid="3" options="0,0" value="0,"/><ShieldEvent device="0"
eventid="4" options="0,0" value="0,"/></ShieldButton><ShieldButton value="2"><ShieldEvent device="1"
eventid="0" options="-5,0" value="0,"/><ShieldEvent device="0" eventid="1" options="0,0"
value="0,"/><ShieldEvent device="0" eventid="2" options="0,0" value="0,"/><ShieldEvent
device="0" eventid="3" options="0,0" value="0,"/><ShieldEvent device="0" eventid="4" options="0,0"
value="0,"/></ShieldButton><ShieldButton value="3"><ShieldEvent device="1" eventid="0" options="5,0"
value="0,"/><ShieldEvent device="2" eventid="1" options="5,5" value="16,16,16,75,75,75,"/><ShieldEvent
device="0" eventid="2" options="0,0" value="0,"/><ShieldEvent device="0" eventid="3" options="0,0"
value="0,"/><ShieldEvent device="0" eventid="4" options="0,0" value="0,"/></ShieldButton><ShieldButton
value="4"><ShieldEvent device="0" eventid="0" options="0,0" value="0,"/><ShieldEvent device="0"
eventid="1" options="0,0" value="0,"/><ShieldEvent device="1" eventid="2" options="5,5"
value="1,"/><ShieldEvent device="1" eventid="3" options="5,5" value="3,"/><ShieldEvent device="0"

```

```
eventid="4" options="0,0" value="0,"/></ShieldButton><ShieldButton value="5"><ShieldEvent device="0"
eventid="0" options="0,0" value="0,"/><ShieldEvent device="0" eventid="1" options="0,0"
value="0,"/><ShieldEvent device="1" eventid="2"
options="5,5" value="3,"/><ShieldEvent device="2" eventid="3" options="5,5" value="18,9,"/><ShieldEvent
device="0" eventid="4" options="0,0" value="0,"/></ShieldButton></TeclaClient>
\ No newline at end of file
diff --git a/TeclaDesktop/Preferences/raw.xml b/TeclaDesktop/Preferences/raw.xml
new file mode 100644
index 0000000..819029d
--- /dev/null
+++ b/TeclaDesktop/Preferences/raw.xml
@@ -0,0 +1 @@
+<?xml version="1.0" encoding="UTF-8" standalone="no"?><TeclaClient is_default="true"
name="raw"><ShieldButton value="0"><ShieldEvent device="1" eventid="0" options="0,-5"
value="0,"/><ShieldEvent device="2" eventid="1" options="5,5" value="17,77,"/><ShieldEvent device="1"
eventid="2" options="5,5" value="3,"/><ShieldEvent device="0" eventid="3" options="0,0"
value="0,"/><ShieldEvent device="0" eventid="4" options="0,0" value="0,"/></ShieldButton><ShieldButton
value="1"><ShieldEvent device="1" eventid="0" options="0,5" value="0,"/><ShieldEvent device="0"
eventid="1" options="0,0" value="0,"/><ShieldEvent device="0" eventid="2" options="0,0"
value="0,"/><ShieldEvent device="0" eventid="3" options="0,0" value="0,"/><ShieldEvent device="0"
eventid="4" options="0,0" value="0,"/></ShieldButton><ShieldButton value="2"><ShieldEvent device="1"
eventid="0" options="-5,0" value="0,"/><ShieldEvent device="0" eventid="1" options="0,0"
value="0,"/><ShieldEvent device="0" eventid="2" options="0,0" value="0,"/><ShieldEvent
device="0" eventid="3" options="0,0" value="0,"/><ShieldEvent device="0" eventid="4" options="0,0"
value="0,"/></ShieldButton><ShieldButton value="3"><ShieldEvent device="1" eventid="0" options="5,0"
value="0,"/><ShieldEvent device="2" eventid="1" options="5,5" value="16,16,16,75,75,75,"/><ShieldEvent
device="0" eventid="2" options="0,0" value="0,"/><ShieldEvent device="0" eventid="3" options="0,0"
value="0,"/><ShieldEvent device="0" eventid="4" options="0,0" value="0,"/></ShieldButton><ShieldButton
value="4"><ShieldEvent device="2" eventid="0" options="5,5" value="17,44,77,"/><ShieldEvent device="0"
eventid="1" options="0,0" value="0,"/><ShieldEvent device="1" eventid="2" options="5,5"
value="1,"/><ShieldEvent device="1" eventid="3" options="5,5" value="3,"/><ShieldEvent device="0"
eventid="4" options="0,0" value="0,"/></ShieldButton><ShieldButton value="5"><ShieldEvent device="0"
eventid="0" options="0,0" value="0,"/><ShieldEvent device="0" eventid="1" options="0,0"
value="0,"/><ShieldEvent device="1"
eventid="2" options="5,5" value="3,"/><ShieldEvent device="2" eventid="3" options="5,5"
value="18,9,"/><ShieldEvent device="0" eventid="4" options="0,0" value="0,"/></ShieldButton></TeclaClient>
\ No newline at end of file
diff --git a/TeclaDesktop/build.xml b/TeclaDesktop/build.xml
deleted file mode 100644
index dd548ce..0000000
--- a/TeclaDesktop/build.xml
+++ /dev/null
@@ -1,74 +0,0 @@
-<?xml version="1.0" encoding="UTF-8"?>
-<!-- You may freely edit this file. See commented blocks below for -->
-<!-- some examples of how to customize the build. -->
-<!-- (If you delete it and reopen the project it will be recreated.) -->
-<!-- By default, only the Clean and Build commands use this build script. -->
-<!-- Commands such as Run, Debug, and Test only use this build script if -->
-<!-- the Compile on Save feature is turned off for the project. -->
-<!-- You can turn off the Compile on Save (or Deploy on Save) setting -->
-<!-- in the project's Project Properties dialog box.-->
-<project name="TeclaDesktop" default="default" basedir=".">
-  <description>Builds, tests, and runs the project TeclaDesktop.</description>
-  <import file="nbproject/build-impl.xml"/>
-  <!--
-
-  There exist several targets which are by default empty and which can be
-  used for execution of your tasks. These targets are usually executed
-  before and after some main targets. They are:
-
-  -pre-init:           called before initialization of project properties
-  -post-init:          called after initialization of project properties
-  -pre-compile:        called before javac compilation
-  -post-compile:       called after javac compilation
-  -pre-compile-single: called before javac compilation of single file
-  -post-compile-single: called after javac compilation of single file
-  -pre-compile-test:   called before javac compilation of JUnit tests
-  -post-compile-test:  called after javac compilation of JUnit tests
-  -pre-compile-test-single: called before javac compilation of single JUnit test
-  -post-compile-test-single: called after javac compilation of single JUnit test
-  -pre-jar:            called before JAR building
-  -post-jar:           called after JAR building
-
-  -->
-</project>
```

```

-   -post-clean:                called after cleaning build products
-
- (Targets beginning with '-' are not intended to be called on their own.)
-
- Example of inserting an obfuscator after compilation could look like this:
-
-   <target name="-post-compile">
-     <obfuscate>
-       <fileset dir="${build.classes.dir}"/>
-     </obfuscate>
-   </target>

```

For list of available properties check the imported nbproject/build-impl.xml file.

Another way to customize the build is by overriding existing main targets. The targets of interest are:

```

-   -init-macrodef-javac:       defines macro for javac compilation
-   -init-macrodef-junit:       defines macro for junit execution
-   -init-macrodef-debug:       defines macro for class debugging
-   -init-macrodef-java:        defines macro for class execution
-   -do-jar-with-manifest:      JAR building (if you are using a manifest)
-   -do-jar-without-manifest:   JAR building (if you are not using a manifest)
-   run:                         execution of project
-   -javadoc-build:             Javadoc generation
-   test-report:                 JUnit report generation

```

An example of overriding the target for project execution could look like this:

```

-   <target name="run" depends="TeclaDesktop-impl.jar">
-     <exec dir="bin" executable="launcher.exe">
-       <arg file="${dist.jar}"/>
-     </exec>
-   </target>

```

Notice that the overridden target depends on the jar target and not only on the compile target as the regular run target does. Again, for a list of available properties which you can use, check the target you are overriding in the nbproject/build-impl.xml file.

```

-   -->
- </project>
diff --git a/TeclaDesktop/src/com/akdroid/interfaces/ButtonPref.java
b/TeclaDesktop/src/com/akdroid/interfaces/ButtonPref.java
index f43324f..ed35a32 100644
--- a/TeclaDesktop/src/com/akdroid/interfaces/ButtonPref.java
+++ b/TeclaDesktop/src/com/akdroid/interfaces/ButtonPref.java
@@ -16,6 +16,7 @@ import org.w3c.dom.Element;
 * a single Shield button.This panel will display all the current preferences
 * The edit button will allow you to edit by triggering ValueSetter form.
 * @author Akhil
+ * @author ankitdaf
 */
public class ButtonPref extends javax.swing.JPanel {

@@ -27,11 +28,10 @@ public class ButtonPref extends javax.swing.JPanel {

    ShieldButton Sbutton;
    PreferencesHandler prefs;
-   public ButtonPref(ShieldButton buttonS,PreferencesHandler prefs_) {
+   public ButtonPref(int shieldeventid,PreferencesHandler prefs_) {
        initComponents();
        prefs=prefs_;
        Sbutton=buttonS;
        //System.out.print(buttonS.buttonid);
+       Sbutton=prefs.getShieldButton(shieldeventid);
        updateOnPress(Sbutton.eventlist[ShieldEvent.EVENT_PRESSED]);
        updateOnRelease(Sbutton.eventlist[ShieldEvent.EVENT_RELEASED]);
        updateOnClick(Sbutton.eventlist[ShieldEvent.EVENT_CLICK]);
@@ -554,7 +554,7 @@ public class ButtonPref extends javax.swing.JPanel {
    event.setAttribute("value", "" + eventvalues);

```

```

    //Commit the changes to the file.
-   prefs.commitchanges(prefs.doc);
+   prefs.commitchanges(prefs.get_doc());

}
diff --git a/TeclaDesktop/src/com/akdroid/interfaces/ClientMain.form
b/TeclaDesktop/src/com/akdroid/interfaces/ClientMain.form
index 4932b7c..aaf16c8 100644
--- a/TeclaDesktop/src/com/akdroid/interfaces/ClientMain.form
+++ b/TeclaDesktop/src/com/akdroid/interfaces/ClientMain.form
@@ -29,16 +29,21 @@
    <Group type="103" groupAlignment="0" attributes="0">
      <Group type="102" alignment="1" attributes="0">
        <EmptySpace pref="128" max="32767" attributes="0"/>
-       <Component id="preftab" min="-2" pref="777" max="-2" attributes="0"/>
+       <Group type="103" groupAlignment="0" attributes="0">
+         <Component id="preftab" min="-2" pref="777" max="-2" attributes="0"/>
+         <Component id="jPanel1" min="-2" max="-2" attributes="0"/>
+       </Group>
        <EmptySpace max="-2" attributes="0"/>
      </Group>
    </Group>
  </DimensionLayout>
  <DimensionLayout dim="1">
    <Group type="103" groupAlignment="0" attributes="0">
-     <Group type="102" alignment="0" attributes="0">
-       <EmptySpace min="-2" pref="60" max="-2" attributes="0"/>
-       <Component id="preftab" pref="461" max="32767" attributes="0"/>
+     <Group type="102" alignment="1" attributes="0">
+       <EmptySpace min="-2" pref="55" max="-2" attributes="0"/>
+       <Component id="jPanel1" min="-2" max="-2" attributes="0"/>
+       <EmptySpace pref="63" max="32767" attributes="0"/>
+       <Component id="preftab" min="-2" pref="502" max="-2" attributes="0"/>
+       <EmptySpace max="-2" attributes="0"/>
    </Group>
  </Group>
@@ -49,5 +54,20 @@
    <Layout class="org.netbeans.modules.form.compat2.layouts.support.JTabbedPaneSupportLayout"/>
  </Container>
+ <Container class="javax.swing.JPanel" name="jPanel1">
+   <Layout>
+     <DimensionLayout dim="0">
+       <Group type="103" groupAlignment="0" attributes="0">
+         <EmptySpace min="0" pref="408" max="32767" attributes="0"/>
+       </Group>
+     </DimensionLayout>
+     <DimensionLayout dim="1">
+       <Group type="103" groupAlignment="0" attributes="0">
+         <EmptySpace min="0" pref="100" max="32767" attributes="0"/>
+       </Group>
+     </DimensionLayout>
+   </Layout>
+ </Container>
  </SubComponents>
</Form>
diff --git a/TeclaDesktop/src/com/akdroid/interfaces/ClientMain.java
b/TeclaDesktop/src/com/akdroid/interfaces/ClientMain.java
index 7544d0a..b7c0a6f 100644
--- a/TeclaDesktop/src/com/akdroid/interfaces/ClientMain.java
+++ b/TeclaDesktop/src/com/akdroid/interfaces/ClientMain.java
@@ -9,8 +9,6 @@ import com.akdroid.tecladesk.PreferencesHandler;
import java.awt.*;
import java.awt.event.MouseEvent;
import java.awt.event.MouseListener;
- import java.util.logging.Level;
- import java.util.logging.Logger;
import javax.swing.JFrame;

/**

```



```

@@ -28,23 +26,17 @@ public class ClientMain extends javax.swing.JFrame {
    SystemTray systray;
    TrayIcon icon;
    boolean systray_available;
+   ConfigSel cfgsel;
+
    public ClientMain(PreferencesHandler pref,BluetoothClient bcl_) {
        initComponents();
-       //initialize buttonpref panels
-       b1=new ButtonPref(pref.getShieldButton(ShieldEvent.ECU1),pref);
-       b2=new ButtonPref(pref.getShieldButton(ShieldEvent.ECU2),pref);
-       b3=new ButtonPref(pref.getShieldButton(ShieldEvent.ECU3),pref);
-       b4=new ButtonPref(pref.getShieldButton(ShieldEvent.ECU4),pref);
-       b5=new ButtonPref(pref.getShieldButton(ShieldEvent.E1),pref);
-       b6=new ButtonPref(pref.getShieldButton(ShieldEvent.E2),pref);
-       //Add button tabs to the panel
-       preftab.addTab("ECU UP",b1);
-       preftab.addTab("ECU DOWN",b2);
-       preftab.addTab("ECU LEFT",b3);
-       preftab.addTab("ECU RIGHT",b4);
-       preftab.addTab("SWITCH 1",b5);
-       preftab.addTab("SWITCH 2",b6);
+       //Select the desired configurations
+       cfgsel=new ConfigSel(this,pref);
+       jPanel1.setLayout(new BorderLayout());
+       jPanel1.add(cfgsel);
+       refresh_display(pref);
+       bcl=bcl_;
+
        //Set Application icon in the title bar
        setIconImage(Toolkit.getDefaultToolkit().createImage(TECLA_ICON_PATH));
        //Get the System Tray of the system.
@@ -99,6 +91,26 @@ public class ClientMain extends javax.swing.JFrame {
    }

    }

+   public void refresh_display(PreferencesHandler pref)
+   {
+       //initialize buttonpref panels
+       b1=new ButtonPref(ShieldEvent.ECU1,pref);
+       b2=new ButtonPref(ShieldEvent.ECU2,pref);
+       b3=new ButtonPref(ShieldEvent.ECU3,pref);
+       b4=new ButtonPref(ShieldEvent.ECU4,pref);
+       b5=new ButtonPref(ShieldEvent.E1,pref);
+       b6=new ButtonPref(ShieldEvent.E2,pref);
+       //Add button tabs to the panel
+       preftab.removeAll(); // Cleanup all tabs
+       preftab.addTab("ECU UP",b1);
+       preftab.addTab("ECU DOWN",b2);
+       preftab.addTab("ECU LEFT",b3);
+       preftab.addTab("ECU RIGHT",b4);
+       preftab.addTab("SWITCH 1",b5);
+       preftab.addTab("SWITCH 2",b6);
+   }

    /**
     * This method is called from within the constructor to initialize the form.
@@ -110,6 +122,7 @@ public class ClientMain extends javax.swing.JFrame {
    private void initComponents() {

        preftab = new javax.swing.JTabbedPane();
+       jPanel1 = new javax.swing.JPanel();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        setTitle("TeclaClient");
@@ -122,20 +135,35 @@ public class ClientMain extends javax.swing.JFrame {
    }
    });

+   javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
+   jPanel1.setLayout(jPanel1Layout);

```



```

+     jPanel1Layout.setHorizontalGroup(
+         jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
+         .addGap(0, 408, Short.MAX_VALUE)
+     );
+     jPanel1Layout.setVerticalGroup(
+         jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
+         .addGap(0, 100, Short.MAX_VALUE)
+     );
+
+     javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
+     getContentPane().setLayout(layout);
+     layout.setHorizontalGroup(
+         layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
+         .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()
+             .addContainerGap(128, Short.MAX_VALUE)
+             .addComponent(preftab, javax.swing.GroupLayout.PREFERRED_SIZE, 777,
- javax.swing.GroupLayout.PREFERRED_SIZE)
+             .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
+                 .addComponent(preftab, javax.swing.GroupLayout.PREFERRED_SIZE, 777,
+ javax.swing.GroupLayout.PREFERRED_SIZE)
+                 .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
+ javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
+             .addContainerGap())
+     );
+     layout.setVerticalGroup(
+         layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
+         .addGroup(layout.createSequentialGroup()
+             .addGroup(layout.createSequentialGroup()
+                 .addGap(60, 60, 60)
+                 .addComponent(preftab, javax.swing.GroupLayout.DEFAULT_SIZE, 461, Short.MAX_VALUE)
+             )
+             .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()
+                 .addGap(55, 55, 55)
+                 .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
+ javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
+                 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 63, Short.MAX_VALUE)
+                 .addComponent(preftab, javax.swing.GroupLayout.PREFERRED_SIZE, 502,
+ javax.swing.GroupLayout.PREFERRED_SIZE)
+                 .addContainerGap())
+         );

```

```

@@ -201,6 +229,7 @@ public class ClientMain extends javax.swing.JFrame {
    });
}

```

```

// Variables declaration - do not modify//GEN-BEGIN:variables
+ private javax.swing.JPanel jPanel1;
+ private javax.swing.JTabbedPane preftab;
// End of variables declaration//GEN-END:variables
}

```

```

diff --git a/TeclaDesktop/src/com/akdroid/interfaces/ConfigSel.form
b/TeclaDesktop/src/com/akdroid/interfaces/ConfigSel.form

```

```

new file mode 100644
index 0000000..04ffeb3

```

```

--- /dev/null

```

```

+++ b/TeclaDesktop/src/com/akdroid/interfaces/ConfigSel.form

```

```

@@ -0,0 +1,45 @@

```

```

+<?xml version="1.0" encoding="UTF-8" ?>

```

```

+

```

```

+<Form version="1.3" maxVersion="1.8" type="org.netbeans.modules.form.forminfo.JPanelFormInfo">

```

```

+ <AuxValues>

```

```

+ <AuxValue name="FormSettings_autoResourcing" type="java.lang.Integer" value="0"/>

```

```

+ <AuxValue name="FormSettings_autoSetComponentName" type="java.lang.Boolean" value="false"/>

```

```

+ <AuxValue name="FormSettings_generateFQN" type="java.lang.Boolean" value="true"/>

```

```

+ <AuxValue name="FormSettings_generateMnemonicsCode" type="java.lang.Boolean" value="false"/>

```

```

+ <AuxValue name="FormSettings_i18nAutoMode" type="java.lang.Boolean" value="false"/>

```

```

+ <AuxValue name="FormSettings_layoutCodeTarget" type="java.lang.Integer" value="1"/>

```

```

+ <AuxValue name="FormSettings_listenerGenerationStyle" type="java.lang.Integer" value="0"/>

```

```

+ <AuxValue name="FormSettings_variablesLocal" type="java.lang.Boolean" value="false"/>

```

```

+ <AuxValue name="FormSettings_variablesModifier" type="java.lang.Integer" value="2"/>

```

```

+ </AuxValues>

```

```

+

```

```

+ <Layout>

```

```

+ <DimensionLayout dim="0">

```

```

+ <Group type="103" groupAlignment="0" attributes="0">

```

```

+ <Group type="102" alignment="0" attributes="0">

```

```

+         <EmptySpace max="-2" attributes="0"/>
+         <Component id="jComboBox1" min="-2" pref="285" max="-2" attributes="0"/>
+         <EmptySpace pref="103" max="32767" attributes="0"/>
+     </Group>
+ </Group>
+ </DimensionLayout>
+ <DimensionLayout dim="1">
+     <Group type="103" groupAlignment="0" attributes="0">
+         <Group type="102" alignment="0" attributes="0">
+             <EmptySpace max="-2" attributes="0"/>
+             <Component id="jComboBox1" min="-2" pref="36" max="-2" attributes="0"/>
+             <EmptySpace pref="19" max="32767" attributes="0"/>
+         </Group>
+     </Group>
+ </DimensionLayout>
+ </Layout>
+ <SubComponents>
+     <Component class="javax.swing.JComboBox" name="jComboBox1">
+         <Properties>
+             <Property name="model" type="javax.swing.ComboBoxModel"
editor="org.netbeans.modules.form.editors2.ComboBoxModelEditor">
+                 <StringArray count="0"/>
+             </Property>
+         </Properties>
+     </Component>
+ </SubComponents>
+ </Form>

```

```
diff --git a/TeclaDesktop/src/com/akdroid/interfaces/ConfigSel.java
```

```
b/TeclaDesktop/src/com/akdroid/interfaces/ConfigSel.java
```

```
new file mode 100644
```

```
index 0000000..89c7010
```

```
--- /dev/null
```

```
+++ b/TeclaDesktop/src/com/akdroid/interfaces/ConfigSel.java
```

```
@@ -0,0 +1,102 @@
```

```

+/*
+ * To change this template, choose Tools | Templates
+ * and open the template in the editor.
+ */

```

```
+package com.akdroid.interfaces;
```

```

+
+import com.akdroid.tecladesk.PreferencesHandler;
+import java.awt.event.ActionEvent;
+import java.awt.event.ActionListener;
+import java.io.File;
+
+
+/**
+ *
+ * Configuration selector to provide for and choose between
+ * multiple configurations
+ * @author ankitdaf
+ */

```

```

+ public class ConfigSel extends javax.swing.JPanel {
+
+     PreferencesHandler pref;
+     ClientMain clientmain;
+
+     /**
+      * Creates new form ConfigSel
+      */
+     public ConfigSel(ClientMain clientmain_, PreferencesHandler pref_) {
+         initComponents();
+         pref=pref_;
+         show_all_configs();
+         clientmain=clientmain_;
+         jComboBox1.addActionListener( new ActionListener() {
+
+             @Override
+             public void actionPerformed(ActionEvent ae) {
+                 Object obj = jComboBox1.getSelectedItem();
+                 File selected_config = (File) obj;
+                 save_current_config();
+                 set_selected_config(selected_config);
+             }
+         });
+     }
+ }

```

```

+     }
+ });
+
+ }
+
+ public void show_all_configs()
+ {
+     File[] available_configs = pref.get_available_configs();
+
+     for (int i=0;i<available_configs.length;i++)
+     {
+         jComboBox1.addItem(available_configs[i]);
+     }
+     jComboBox1.setSelectedItem(pref.get_current_config());
+
+ }
+
+ public void save_current_config()
+ {
+     pref.save_config(pref.get_current_config());
+ }
+
+ public void set_selected_config(File selected_config)
+ {
+     pref.set_selected_config(selected_config);
+     clientmain.refresh_display(pref);
+
+ }
+
+ /**
+  * This method is called from within the constructor to initialize the form.
+  * WARNING: Do NOT modify this code. The content of this method is always
+  * regenerated by the Form Editor.
+  */
+ @SuppressWarnings("unchecked")
+ // <editor-fold defaultstate="collapsed" desc="Generated Code">//GEN-BEGIN:initComponents
+ private void initComponents() {
+
+     jComboBox1 = new javax.swing.JComboBox();
+
+     javax.swing.GroupLayout layout = new javax.swing.GroupLayout(this);
+     this.setLayout(layout);
+     layout.setHorizontalGroup(
+         layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
+             .addGroup(layout.createSequentialGroup()
+                 .addGap(103, 0, 0)
+                 .addComponent(jComboBox1, javax.swing.GroupLayout.PREFERRED_SIZE, 285,
+ javax.swing.GroupLayout.PREFERRED_SIZE)
+                 .addGap(103, 0, 0)
+             )
+     );
+     layout.setVerticalGroup(
+         layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
+             .addGroup(layout.createSequentialGroup()
+                 .addGap(19, 0, 0)
+                 .addComponent(jComboBox1, javax.swing.GroupLayout.PREFERRED_SIZE, 36,
+ javax.swing.GroupLayout.PREFERRED_SIZE)
+             )
+     );
+ }// </editor-fold>//GEN-END:initComponents
+ // Variables declaration - do not modify//GEN-BEGIN:variables
+ private javax.swing.JComboBox jComboBox1;
+ // End of variables declaration//GEN-END:variables
+
+}
diff --git a/TeclaDesktop/src/com/akdroid/interfaces/ValueSetter.java
b/TeclaDesktop/src/com/akdroid/interfaces/ValueSetter.java
index d6e90bb..05d5029 100644
--- a/TeclaDesktop/src/com/akdroid/interfaces/ValueSetter.java
+++ b/TeclaDesktop/src/com/akdroid/interfaces/ValueSetter.java
@@ -266,7 +266,6 @@ public class ValueSetter extends javax.swing.JFrame implements KeyListener {
     }// </editor-fold>//GEN-END:initComponents

```

```

private void RkeyStateChanged(javax.swing.event.ChangeEvent evt) { //GEN-FIRST:event_RkeyStateChanged
- // TODO add your handling code here:
/*
* if keyboard is selected ,disable options and make Keyboard listening
* To change the currently set value,click on combobox and press the
@@ -322,7 +321,6 @@ public class ValueSetter extends javax.swing.JFrame implements KeyListener {
} //GEN-LAST:event_RmouseStateChanged

private void RnoneStateChanged(javax.swing.event.ChangeEvent evt) { //GEN-
FIRST:event_RnoneStateChanged
- // TODO add your handling code here:
/*
* don't assign a device
* or Computer Device
@@ -339,7 +337,6 @@ public class ValueSetter extends javax.swing.JFrame implements KeyListener {
} //GEN-LAST:event_RnoneStateChanged

private void CvalueItemStateChanged(java.awt.event.ItemEvent evt) { //GEN-
FIRST:event_CvalueItemStateChanged
- // TODO add your handling code here:
temp.values=new ArrayList<Integer>();
Integer i=Cvalue.getSelectedIndex();
temp.values.add(i);
diff --git a/TeclaDesktop/src/com/akdroid/tecladesk/PreferencesHandler.java
b/TeclaDesktop/src/com/akdroid/tecladesk/PreferencesHandler.java
index f283ce7..2e86466 100644
--- a/TeclaDesktop/src/com/akdroid/tecladesk/PreferencesHandler.java
+++ b/TeclaDesktop/src/com/akdroid/tecladesk/PreferencesHandler.java
@@ -29,7 +29,7 @@ import org.xml.sax.SAXException;
* Support for multiple documents has to be added.
* This class creates,reads and modifies the XML document.
* Document Format:
- * <TeclaClient>
+ * <TeclaClient name="client_name">
* <ShieldButton value="button_number">
* <ShieldEvent
* eventId="shieldevent_id"
@@ -44,21 +44,22 @@ import org.xml.sax.SAXException;
* where button_number,shieldevent_id,device number,dx_value,dy_value,val1,val2,val3 are integers
* the last comma in value field of ShieldEvent is essential for proper parsing.
* @author Akhil
+ * @author ankitdaf
*/

public class PreferencesHandler {

-
- File config; //File object representing the xml file
+ File dir; //Path where all preferences will be stored
+ File current_config; //File object representing the xml file for the current configuration
+ File[] available_configs; //Configuration list
+ DocumentBuilderFactory docfb; //Documentfactory used to build documents as per w3c
+ DocumentBuilder docb; //Document builder used to create documents
+ public Document doc; //xml Document object.
- FileWriter filew; //Filewwriter used to write to the file.
+ FileWriter filew; //Filewwriter used to write to the file.
+ Element rootElement; //the element directly below the document in DOM heirarchy
+ ShieldButton ecu1,ecu2,ecu3,ecu4,e1,e2; //ShieldButton objects one for each button.

-
- public PreferencesHandler(String filepath){
+ public PreferencesHandler(String filepath) {
/*
*
* This constructor uses filepath to open the config file.
@@ -67,41 +68,114 @@ public class PreferencesHandler {
* if the file exists the file will be parsed into the document.
*
*/
- config=new File(filepath); //initialize file and document factory
- docfb=DocumentBuilderFactory.newInstance();
-
+ dir=new File(filepath); //Directory containing preferences

```

```

+         available_configs = dir.listFiles(); //List all available configs in the directory
+         if(available_configs==null || available_configs.length==0)
+         {
+             createXmlFile();
+         }
+         else{
+             try {
-                 docb=docf.newDocumentBuilder(); //initialize document builder
-             } catch (ParserConfigurationException ex) {
+                 current_config=available_configs[0]; //Default config if erroneously none are set to
true
+                 for (int i=0;i < available_configs.length ; i++)
+                 {
+                     docf=DocumentBuilderFactory.newInstance(); //Initialize the document builder
+                     docb=docf.newDocumentBuilder(); //initialize document builder
+                     doc=docb.parse(available_configs[i]); //parse the config file into documents
consisting of nodelist
+                     rootElement=(Element)doc.getFirstChild(); //initialize the root element
+                     if(rootElement.getAttribute("is_default").equals("true"))
+                     {
+                         current_config=available_configs[i];
+                         break;
+                     }
+                 }
+             } catch (SAXException ex) {
+                 Logger.getLogger(PreferencesHandler.class.getName()).log(Level.SEVERE, null, ex);
+             } catch (IOException ex) {
+                 Logger.getLogger(PreferencesHandler.class.getName()).log(Level.SEVERE, null, ex);
+             } catch (ParserConfigurationException ex) {
+                 Logger.getLogger(PreferencesHandler.class.getName()).log(Level.SEVERE, null, ex);
-             }
-             if(!config.exists())
-                 createXmlFile(); //create a new xml config file.
-             else{
+                 }
+             }
+             initialize_events(); //Parse the information in the config file to ComEvents.
+         }
+     }
+     public void createXmlFile(){
+         try {
+             try {
-                 doc=docb.parse(config); //parse the config file into documents consisting of nodelist
-                 rootElement=(Element)doc.getFirstChild(); //initialize the root element
-             } catch (SAXException ex) {
-                 Logger.getLogger(PreferencesHandler.class.getName()).log(Level.SEVERE, null, ex);
+                 current_config = new File("Preferences/default.xml"); //Create a default config
+                 current_config.getParentFile().mkdirs(); //Create all parent directories
+                 current_config.createNewFile();
+             } catch (IOException ex) {
+                 Logger.getLogger(PreferencesHandler.class.getName()).log(Level.SEVERE, null, ex);
-             }
-             initialize_events(); //Parse th information in the config file to ComEvents.
+                 docf=DocumentBuilderFactory.newInstance();
+                 docb=docf.newDocumentBuilder();
+                 doc=docb.newDocument();//Create a new empty DOM document.
+                 rootElement=doc.createElement("TeclaClient"); //RootElement=>TeclaClient
+                 rootElement.setAttribute("name", "default");
+                 rootElement.setAttribute("is_default", "true"); //Make the current config the default
+                 doc.appendChild(rootElement); //appends the rootelement to the document as Child.
+                 makedefault(doc,rootElement); //Initialize all the values.
+                 commitchanges(doc); //Write changes to the file.
+             } catch (ParserConfigurationException ex) {
+                 Logger.getLogger(PreferencesHandler.class.getName()).log(Level.SEVERE, null, ex);
+             }
+         }
+     }
+     public void createXmlFile(){
+     }
+     public File[] get_available_configs()
+     {
+         return available_configs;
+     }

```

```

+
+ public Document get_doc()
+ {
+     return doc;
+ }
+
+ public void save_config(File selected_config)
+ {
+     try {
-         config.createNewFile(); //Create an empty file.
+         docf=DocumentBuilderFactory.newInstance(); //Initialize the document builder
+         docb=docf.newDocumentBuilder(); //initialize document builder
+         doc=docb.parse(selected_config); //initialize the root element
+         rootElement=(Element)doc.getFirstChild(); //initialize the root element
+         rootElement.setAttribute("is_default", "false");
+         commitchanges(doc);
+     } catch (SAXException ex) {
+         Logger.getLogger(PreferencesHandler.class.getName()).log(Level.SEVERE, null, ex);
+     } catch (IOException ex) {
+         Logger.getLogger(PreferencesHandler.class.getName()).log(Level.SEVERE, null, ex);
+     } catch (ParserConfigurationException ex) {
+         Logger.getLogger(PreferencesHandler.class.getName()).log(Level.SEVERE, null, ex);
+     }
-     doc=docb.newDocument();//Create a new empty DOM document.
-     rootElement=doc.createElement("TeclaClient"); //RootElement=>TeclaClient
-     doc.appendChild(rootElement); //appends the rootelement to the document as Child.
-     makedefault(doc,rootElement); //Initialize all the values.
-     commitchanges(doc); //Write changes to the file.
-
+ }
+
+ public void set_selected_config(File selected_config)
+ {
+     try {
+         current_config=selected_config; // Use the config selected as the current
config
+         docf=DocumentBuilderFactory.newInstance(); //Initialize the document builder
+         docb=docf.newDocumentBuilder(); //initialize document builder
+         doc = docb.parse(selected_config); //parse the config file into documents consisting of
nodelist
+         rootElement=(Element)doc.getFirstChild(); //initialize the root element
+         rootElement.setAttribute("is_default", "true");
+         commitchanges(doc);
+         initialize_events();
+     } catch (ParserConfigurationException ex) {
+         Logger.getLogger(PreferencesHandler.class.getName()).log(Level.SEVERE, null, ex);
+     } catch (SAXException ex) {
+         Logger.getLogger(PreferencesHandler.class.getName()).log(Level.SEVERE, null, ex);
+     } catch (IOException ex) {
+         Logger.getLogger(PreferencesHandler.class.getName()).log(Level.SEVERE, null, ex);
+     }
+ }
+
+ public File get_current_config()
+ {
+     return current_config;
+ }
+
+ public void commitchanges(Document doc_){
+     TransformerFactory tf =TransformerFactory.newInstance(); //
+     try {
@@ -109,13 +183,16 @@ public class PreferencesHandler {
+         //a stream output such as stdout or file.
+         DOMSource source=new DOMSource(doc_); //source document
+     try {
-         filew=new FileWriter(config);
+         filew=new FileWriter(current_config);
+     } catch (IOException ex) {
+         Logger.getLogger(PreferencesHandler.class.getName()).log(Level.SEVERE, null, ex);
+     }
+     StreamResult result=new StreamResult(filew); //destination stream
+     try {
+         transformer.transform(source, result); //transform the source into result.

```



```

+         filew.close();
+     } catch (IOException ex) {
+         Logger.getLogger(PreferencesHandler.class.getName()).log(Level.SEVERE, null, ex);
+     } catch (TransformerException ex) {
+         Logger.getLogger(PreferencesHandler.class.getName()).log(Level.SEVERE, null, ex);
+     }
@@ -254,7 +331,7 @@ public class PreferencesHandler {
    case ShieldEvent.ECU2:
        buttonret= ecu2;
        break;
-    case ShieldEvent.ECU3:
+    case ShieldEvent.ECU3:
        buttonret= ecu3;
        break;
    case ShieldEvent.ECU4:
diff --git a/TeclaDesktop/src/com/akdroid/tecladesk/TeclaDesktop.java
b/TeclaDesktop/src/com/akdroid/tecladesk/TeclaDesktop.java
index 02db80e..3821792 100644
--- a/TeclaDesktop/src/com/akdroid/tecladesk/TeclaDesktop.java
+++ b/TeclaDesktop/src/com/akdroid/tecladesk/TeclaDesktop.java
@@ -7,6 +7,10 @@ package com.akdroid.tecladesk;
import com.akdroid.interfaces.ClientMain;
import com.akdroid.interfaces.ShieldEvent;
import com.akdroid.interfaces.ShieldEventListener;
+import java.io.IOException;
+import java.util.logging.Level;
+import java.util.logging.Logger;
+import org.xml.sax.SAXException;

/**
 *
@@ -14,65 +18,65 @@ import com.akdroid.interfaces.ShieldEventListener;
 */
public class TeclaDesktop {
    public static final String uuidstring = "0000110100001000800000805F9B34FB";
-    public static final String location = "Preferences/config.xml";
+    public static final String location = "Preferences";
+    //public static final String configlocation = "Preferences/config.xml";
    /**
     * @param args the command line arguments
     */
    public static void main(String[] args) {
-        final PreferencesHandler prefs=new PreferencesHandler(location);
-        BluetoothClient btclient=new BluetoothClient(uuidstring);
-        ClientMain client=new ClientMain(prefs,btclient);
-        client.setVisible(true);
-        //final PreferencesHandler prefs=new PreferencesHandler(location);
-
-        final EventGenerator eventgen =new EventGenerator();
-
-        btclient.start();
-        //while(btclient == null);
-        btclient.addShieldEventListener(new ShieldEventListener(){
+            final PreferencesHandler prefs=new PreferencesHandler(location);
+            BluetoothClient btclient=new BluetoothClient(uuidstring);
+            ClientMain client=new ClientMain(prefs,btclient);
+            client.setVisible(true);
+            final EventGenerator eventgen =new EventGenerator();
+
+            btclient.start();
+            //while(btclient == null);
+            btclient.addShieldEventListener(new ShieldEventListener(){
-
-            @Override
-            public void onButtonPressed(ShieldEvent e) {
-                ShieldButton current=prefs.getShieldButton(e.getbutton());
-                if(current!=null)
-                    eventgen.interpret(current.eventlist[ShieldEvent.EVENT_PRESSED]);
-                System.out.println("Event of press"+e.getbutton());
-                // throw new UnsupportedOperationException("Not supported yet.");
-            }
+
+            @Override
+            public void onButtonPressed(ShieldEvent e) {

```



```

+         ShieldButton current=prefs.getShieldButton(e.getbutton());
+         if(current!=null)
+             eventgen.interpret(current.eventlist[ShieldEvent.EVENT_PRESSED]);
+         System.out.println("Event of press"+e.getbutton());
+         // throw new UnsupportedOperationException("Not supported yet.");
+     }
-
- @Override
- public void onButtonReleased(ShieldEvent e) {
-     ShieldButton current=prefs.getShieldButton(e.getbutton());
-     if(current!=null)
-         eventgen.interpret(current.eventlist[ShieldEvent.EVENT_RELEASED]);
-         //System.out.println("Released");
-         // throw new UnsupportedOperationException("Not supported yet.");
- }
+
+     @Override
+     public void onButtonReleased(ShieldEvent e) {
+         ShieldButton current=prefs.getShieldButton(e.getbutton());
+         if(current!=null)
+             eventgen.interpret(current.eventlist[ShieldEvent.EVENT_RELEASED]);
+             //System.out.println("Released");
+             // throw new UnsupportedOperationException("Not supported yet.");
+     }
-
- @Override
- public void onButtonClick(ShieldEvent e) {
-     ShieldButton current=prefs.getShieldButton(e.getbutton());
-     if(current!=null)
-         eventgen.interpret(current.eventlist[ShieldEvent.EVENT_CLICK]);
-         // throw new UnsupportedOperationException("Not supported yet.");
- }
+
+     @Override
+     public void onButtonClick(ShieldEvent e) {
+         ShieldButton current=prefs.getShieldButton(e.getbutton());
+         if(current!=null)
+             eventgen.interpret(current.eventlist[ShieldEvent.EVENT_CLICK]);
+             // throw new UnsupportedOperationException("Not supported yet.");
+     }
-
- @Override
- public void onButtonDbClick(ShieldEvent e) {
-     ShieldButton current=prefs.getShieldButton(e.getbutton());
-     if(current!=null)
-         eventgen.interpret(current.eventlist[ShieldEvent.EVENT_DOUBLECLICK]);
-         // throw new UnsupportedOperationException("Not supported yet.");
- }
+
+     @Override
+     public void onButtonDbClick(ShieldEvent e) {
+         ShieldButton current=prefs.getShieldButton(e.getbutton());
+         if(current!=null)
+             eventgen.interpret(current.eventlist[ShieldEvent.EVENT_DOUBLECLICK]);
+             // throw new UnsupportedOperationException("Not supported yet.");
+     }
+
+     @Override
+     public void onLongPress(ShieldEvent e) {
+         ShieldButton current=prefs.getShieldButton(e.getbutton());
+         if(current!=null)
+             eventgen.interpret(current.eventlist[ShieldEvent.EVENT_LONGPRESS]);
+             // throw new UnsupportedOperationException("Not supported yet.");
+     }
+ });
-
- @Override
- public void onLongPress(ShieldEvent e) {
-     ShieldButton current=prefs.getShieldButton(e.getbutton());
-     if(current!=null)
-         eventgen.interpret(current.eventlist[ShieldEvent.EVENT_LONGPRESS]);
-         // throw new UnsupportedOperationException("Not supported yet.");
- }
-
- });

```

```

}
}
diff --git a/linux-setup.sh b/linux-setup.sh
deleted file mode 100644
index 9bdcf4b..0000000
--- a/linux-setup.sh
+++ /dev/null
@@ -1 +0,0 @@
-#nothing here for now
diff --git a/linux-setup.sh~ b/linux-setup.sh~
deleted file mode 100644
index 8b13789..0000000
--- a/linux-setup.sh~
+++ /dev/null
@@ -1 +0,0 @@
-

commit c40a5029e279be38b5242fd6511212aaac8ff6f0
Author: Ankit Daftery <ankitdaf@gmail.com>
Date: Sat Jun 9 00:14:13 2012 +0530

```

Added missed out helpstrings

```

diff --git a/emulator/teclaemu.py b/emulator/teclaemu.py
index 52d173b..ffa63be 100644
--- a/emulator/teclaemu.py
+++ b/emulator/teclaemu.py
@@ -165,6 +165,20 @@ keymessage= {
    "Q": "Quitting the emulator"
}

+#Help menu
+helpstring = "\nw/W => Generate Event on Joystick 1"
+helpstring=helpstring + "\ns/S => Generate Event on Joystick 2 "
+helpstring=helpstring + "\na/A => Generate Event on Joystick 3 "
+helpstring=helpstring + "\nd/D => Generate Event on Joystick 4 "
+helpstring=helpstring + "\n1 => Generate Event on Switch Port 1"
+helpstring=helpstring + "\n2 => Generate Event on Switch Port 2"
+helpstring=helpstring + "\nh/H => view possible commands"
+helpstring=helpstring + "\nr/R => Generate release switch event"
+helpstring=helpstring + "\nt/T => Toggle auto switch release event"
+helpstring=helpstring + "\nq/Q => Quit "
+helpstring=helpstring + "\n\n\n#####Auto switch release mode is a mode in which switch release events are
inserted after every switch event \nDefault set to true.\nCan be turned on or off by command t/T"
+
+
#Initial notifss
version = "v0.2"
print 'Tecla - Emulator ' , version ;

```

```

commit 47961a1861048d1a5934259578a80ce63f10afc7
Author: Ankit Daftery <ankitdaf@gmail.com>
Date: Sat Jun 9 00:06:58 2012 +0530

```

Added support for reconnection

```

diff --git a/emulator/README.md b/emulator/README.md
index dcba559..ae593f2 100644
--- a/emulator/README.md
+++ b/emulator/README.md
@@ -1,4 +1,4 @@
-##Tecla Emulator version 1.1##
+##Tecla Emulator version 1.2##

###Written and Submitted by Akhil Rao aka akdroid###

@@ -16,6 +16,9 @@ bluez-4.99
obexd-0.45
bluez-hcidump-2.3 (Don't think if this is needed, but anyway )

+###Changelog###
+
+Added support for reconnection [ankitdaf]

```

```
###How to run:###
```

```
diff --git a/emulator/teclaemu.py b/emulator/teclaemu.py
index 8ff30b5..52d173b 100644
--- a/emulator/teclaemu.py
+++ b/emulator/teclaemu.py
@@ -1,114 +1,134 @@
 # -*- coding: utf-8 -*-
 import time
 from bluetooth import *
-from threading import Thread
+import threading
+
 #
-# Tecla Emulator v0.2
+# Tecla Emulator v1.2
 # written by Akhil Rao
+# Extended by Ankit Daftery
 #

## {{{ http://code.activestate.com/recipes/134892/ (r2)
+## Modified to support non-blocking I/O
 class _Getch:
-    """Gets a single character from standard input. Does not echo to the
+    """Gets a single character from standard input. Does not echo to the
     screen."""
-    def __init__(self):
-        try:
-            self.impl = _GetchWindows()
-        except ImportError:
-            self.impl = _GetchUnix()
-
-    def __call__(self): return self.impl()
+ def __init__(self):
+     try:
+         self.impl = _GetchWindows()
+     except ImportError:
+         self.impl = _GetchUnix()
+
+ def __call__(self): return self.impl()

 class _GetchUnix:
-    def __init__(self):
-        import tty, sys
-
-    def __call__(self):
-        import sys, tty, termios
-        fd = sys.stdin.fileno()
-        old_settings = termios.tcgetattr(fd)
-        try:
-            tty.setraw(sys.stdin.fileno())
-            ch = sys.stdin.read(1)
-        finally:
-            termios.tcsetattr(fd, termios.TCSADRAIN, old_settings)
-        return ch
+ def __init__(self):
+     import tty, sys
+
+ def __call__(self):
+     import sys, tty, termios
+     from select import select # Using select for non-blocking I/o
+     fd = sys.stdin.fileno()
+     old_settings = termios.tcgetattr(fd)
+     try:
+         tty.setraw(sys.stdin.fileno())
+         [i, o, e] = select([sys.stdin.fileno()], [], [], 5) # Timeout in 5 seconds if no input
+         if i: ch=sys.stdin.read(1)
+         else: ch='.' # Dummy character to avoid KeyError in sendEvent
+     finally:
+         termios.tcsetattr(fd, termios.TCSADRAIN, old_settings)
+     return ch
```

```

class _GetchWindows:
-   def __init__(self):
-       import msvcrt
-
-   def __call__(self):
-       import msvcrt
-       return msvcrt.getch()
-
+ def __init__(self):
+   import msvcrt
+
+ def __call__(self):
+   import msvcrt
+   return msvcrt.getch()

getch = _Getch()
## end of http://code.activestate.com/recipes/134892/ }}}

-def sendEvent(event):
- client_socket.send(chr(keyvalue[event]))
-
-def listenkeys():
- auto_release = True;
- exitflag=False;
- while not exitflag :
-   print ("Your switch action w/s/a/d/1/2/r?");
-   c = getch();
-   c = c.upper();
-   if(c in "WSAD12QHRT"):
-     #Valid key pressed
-     if(c in "HTQ"):
-       #Command key pressed
-       if c == "H": #Help
-         print helpstring
-       if c == "T": #Help
-         auto_release = not auto_release;
-         if auto_release:
-           print "Auto-release ON"
-         else:
-           print "Auto-release OFF"
-       if c == "Q": #Help
-         exitflag= True;
-         print keymessage[c]
-
-     if(c in "WSAD12R"):
-       #Switch key pressed
-       sendEvent(c)
-       print keymessage[c];
-       if auto_release:
-         time.sleep(0.1) #Connection seems to have long latency
-         sendEvent('R')
-     else:
-       #Invalid key pressed
-       print "Invalid value"
-
-
- version = "v0.2"
- print 'Tecla - Emulator ' , version ;
- print 'press h/H for list of possible commands'
- print 'press q/Q to quit'
- print 'Auto switch release mode set to True'
-
-#setup the bluetooth RFCOMM socket i.e bind and start listening
- server_socket = BluetoothSocket( RFCOMM )
- server_socket.bind(('', 1))
- server_socket.listen(1)
-
-#uuid can be used if bluetooth client side program is written to minimize discovery and filtering time
- uuid = "00001101-0000-1000-8000-00805F9B34FB"
- advertise_service(
-   server_socket,
-   "SPP",

```

```

- uuid,
- service_classes=[SERIAL_PORT_CLASS],
- profiles=[SERIAL_PORT_PROFILE]
- )

-print 'Waiting for a device .....'
-client_socket, addr = server_socket.accept()
-print 'Accepted connection from ', addr
+class TeclaThread(threading.Thread):
+ """
+ Threaded Class to handle sockets to the TeclaShields
+ """
+ def __init__(self,client_socket,address):
+ self.client_socket = client_socket
+ self.address = address
+ self.exitflag=False
+ self.c="." #Null character initialised to avoid transmitting
+ threading.Thread.__init__(self)
+
+ def disconnect(self):
+ """
+ Close the socket
+ """
+ self.client_socket.close()
+ self.exitflag=True
+
+ def sendEvent(self,event):
+ """
+ Transmit a Shield keyevent to TeclaAccess
+ """
+ try:
+ self.client_socket.send(chr(keyvalue[event]))
+ except BluetoothError,err:
+ print "Bluetooth Error in TeclaThread",err
+
+ def listenkeys(self):
+ """
+ Function to generate keyevents based on user input
+ """
+ global flag #Global is necessary to allow thread synchronisation
+ self.auto_release = True;
+ self.exitflag=False;
+ while not self.exitflag :
+ print ("Your switch action w/s/a/d/1/2/r?");
+ self.c= getch()
+ self.c = self.c.upper();
+ if(self.c in "WSAD12QHRT"):
+ #Valid key pressed
+ if(self.c in "HTQ"):
+ #Command key pressed
+ if self.c == "H": #Help
+ print helpstring
+ if self.c == "T": #Help
+ self.auto_release = not self.auto_release;
+ if self.auto_release:
+ print "Auto-release ON"
+ else:
+ print "Auto-release OFF"
+ if self.c == "Q": #Hel
+ self.disconnect()
+ flag=True
+ print keymessage[self.c]
+
+ if(self.c in "WSAD12R"):
+ #Switch key pressed
+ self.sendEvent(self.c)
+ print keymessage[self.c];
+ if self.auto_release:
+ time.sleep(0.1) #Connection seems to have long latency
+ self.sendEvent('R')
+ else:
+ if('.') inself.c):
+ print "No input received\n"

```

```

+         #Invalid key pressed
+         else:
+             print "Invalid value %s"%(self.c)
+
+ def run(self):
+     """
+     Overriden run function
+     """
+     print 'Accepted connection from ', self.address
+     self.listenkeys()

#Keyboard
#ECU1 -> Highlight next
@@ -133,6 +153,7 @@ keyvalue={
    "T":0x99,    #Toggle release event mode
}

+#keymessage dictionary to notify users of action performed on keypress
keymessage= {
    "R":"All Switches Released ",
    "W":"ECU1 pressed",
@@ -144,26 +165,48 @@ keymessage= {
    "Q":"Quitting the emulator"
}

-helpstring = "\nw/W => Generate Event on Joystick 1"
-helpstring=helpstring + "\ns/S => Generate Event on Joystick 2 "
-helpstring=helpstring + "\na/A => Generate Event on Joystick 3 "
-helpstring=helpstring + "\nd/D => Generate Event on Joystick 4 "
-helpstring=helpstring + "\n1 => Generate Event on Switch Port 1"
-helpstring=helpstring + "\n2 => Generate Event on Switch Port 2"
-helpstring=helpstring + "\nh/H => view possible commands"
-helpstring=helpstring + "\nr/R => Generate release switch event"
-helpstring=helpstring + "\nt/T => Toggle auto switch release event"
-helpstring=helpstring + "\nq/Q => Quit "
-helpstring=helpstring + "\n\n\n#####Auto switch release mode is a mode in which switch release events
are inserted after every switch event \nDefault set to true.\nCan be turned on or off by command t/T"
-
-main_thread= Thread(target=listenkeys);
-main_thread.start();
-while main_thread.isAlive():
- time.sleep(0.1)
- data_in=client_socket.recv(128)
- if(len(data_in) > 0):
-     client_socket.send(data_in)
+#Initial notifss
+version = "v0.2"
+print 'Tecla - Emulator ', version ;
+print 'press h/H for list of possible commands'
+print 'press q/Q to quit'
+print 'Auto switch release mode set to True'
+
+#setup the bluetooth RFCOMM socket i.e bind and start listening
+server_socket = BluetoothSocket( RFCOMM )
+server_socket.bind(('', PORT_ANY))
+server_socket.listen(1)

-client_socket.close()
+#uuid can be used if bluetooth client side program is written to minimize discovery and filtering time
+uuid = "00001101-0000-1000-8000-00805F9B34FB"
+advertise_service(
+ server_socket,
+ "SPP",
+ uuid,
+ service_classes=[SERIAL_PORT_CLASS],
+ profiles=[SERIAL_PORT_PROFILE]
+ )
+
+#Global variable to check for quit
+flag = False
+
+while (not flag):
+ print 'Waiting for a device .....'

```



```

+ client_socket, address = server_socket.accept()
+ t = TeclaThread(client_socket,address)
+ t.start()
+ while t.isAlive():
+     time.sleep(0.1)
+     try:
+         data_in=t.client_socket.recv(128)
+         if(len(data_in) > 0):
+             t.client_socket.send(data_in)
+     except BluetoothError:
+         t.disconnect()
+         t.join()
+         break
+
+#Clean up
server_socket.close()
+client_socket.close()
print "Disconnected"

```

commit 0769d1745e967bcf7c61c817ce470d3e34e9f72e

Author: Ankit Daftery <ankitdaf@gmail.com>

Date: Tue Apr 10 00:13:12 2012 +0530

Included bluez issue mention in README

```
diff --git a/emulator/README.md b/emulator/README.md
```

```
index a4925e3..dcba559 100644
```

```
--- a/emulator/README.md
```

```
+++ b/emulator/README.md
```

```
@@ -9,6 +9,14 @@ The emulator is basically a python script and requires [Pybluez](http://code.goo
```

```
###Important###
```

```
In order to use Tecla Emulator name your bluetooth device with TeclaShield prefix in order that
```

```
TeclaAccess App can connect to the emulator.
```

```
+The Emulator is known give issues with certain versions of bluez on Ubuntu.
```

```
+The following versions are known to work :
```

```
+
```

```
+bluez-4.99
```

```
+obexd-0.45
```

```
+bluez-hcidump-2.3 (Don't think if this is needed, but anyway )
```

```
+
```

```
+
```

```
###How to run:###
```

```
1. Download teclaemu.py
```