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DevTalk - Enterprise Keyboard and the Enterprise Keyboard Designer



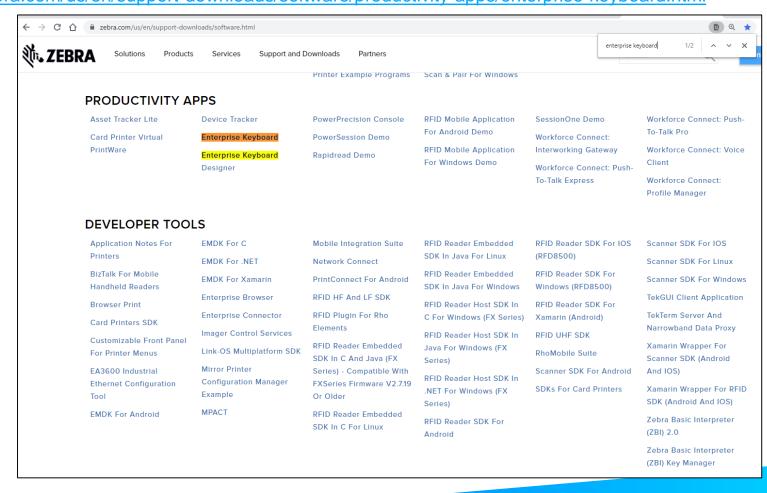
SW Architect, Zebra Technologies 18th November 2020



- Enterprise Keyboard (EKB) Overview
- EKB Keyboard on-device demo & available settings
- EKB mass configuration settings
- EKB API
- EKB API Demo
- Switching between Gboard & EKB
- EKD (EKD) Overview
- EKD Demo

Enterprise Keyboard Overview

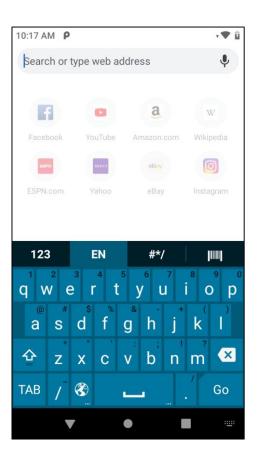
Maybe pre-installed on your device but you can download the latest version from:
 https://www.zebra.com/us/en/support-downloads/software/productivity-apps/enterprise-keyboard.html

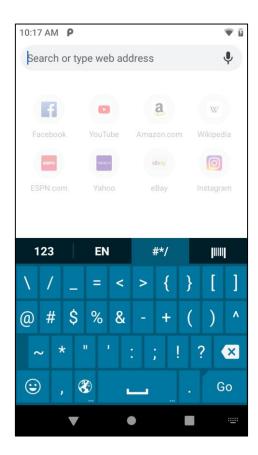


Enterprise Keyboard Overview

Swipe between layouts



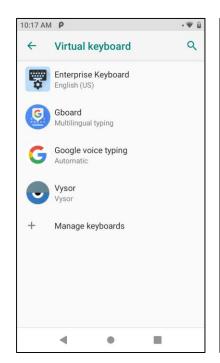


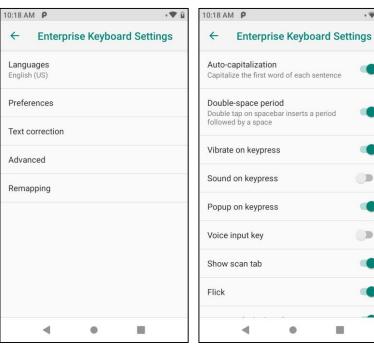




EKB On-device demo & available settings

- Enterprise Keyboard on-device demo & available settings
 - Settings → System → Languages & input (→ + Manage keyboards)

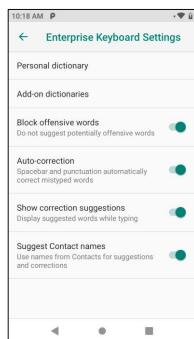






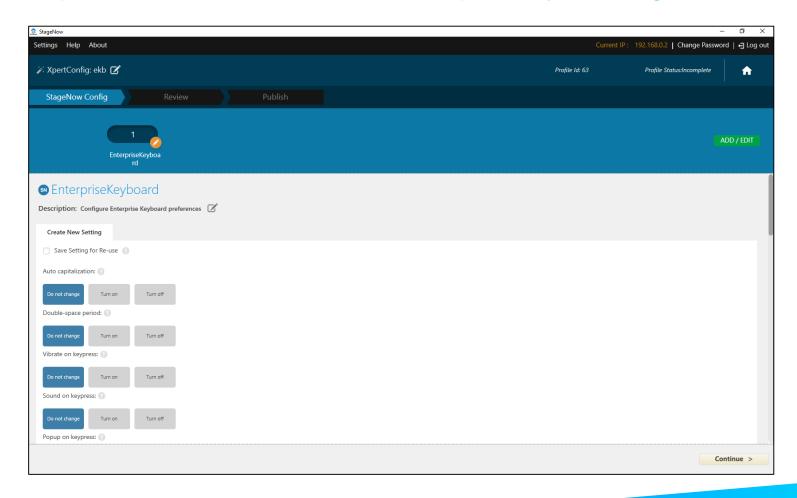
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EKB Mass configuration settings

Techdocs: https://techdocs.zebra.com/mx/enterprisekeyboardmgr/



Enterprise Keyboard API

- Techdocs: https://techdocs.zebra.com/enterprise-keyboard/latest/guide/apis/
- Enable (Boolean)
 - Allor or prevent EKB from being shown
- Get (Layouts)
 - Retrieve all available custom layouts
- Get (Current Layout)
 - Retrieve the current custom layout in use
- Set (Layout)
 - Cause the specified custom layout to be shown

- Show (Boolean)
 - Show or hide Enterprise Keyboard
- Reset
 - Return to the default layouts that ship with EKB

Enterprise Keyboard API

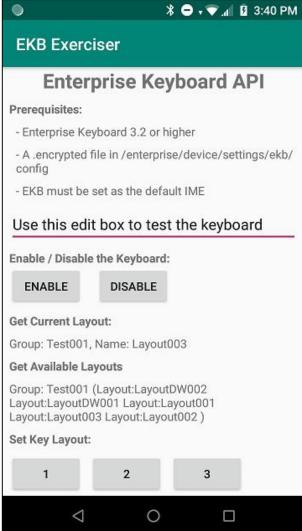
Set (Layout)

```
private void SetKeyboardLayout(String group name, String layout name)
  Intent intent = new Intent();
  intent.setAction("com.symbol.ekb.api.ACTION UPDATE");
  intent.setPackage("com.symbol.mxmf.csp.enterprisekeyboard");
  intent.addFlags(Intent.FLAG RECEIVER FOREGROUND);
  intent.putExtra("CURRENT_LAYOUT_GROUP", group_name);
  intent.putExtra("CURRENT LAYOUT NAME", layout name);
  PendingIntent piResponse = PendingIntent.getActivity(getApplicationContext(), 1,
    new Intent(this, MainActivity.class), PendingIntent.FLAG ONE SHOT);
  intent.putExtra("CALLBACK RESPONSE", piResponse);
  sendBroadcast(intent);
@Override protected void onNewIntent(Intent intent)
  super.onNewIntent(intent);
  ProcessEKBResponse(intent);
```

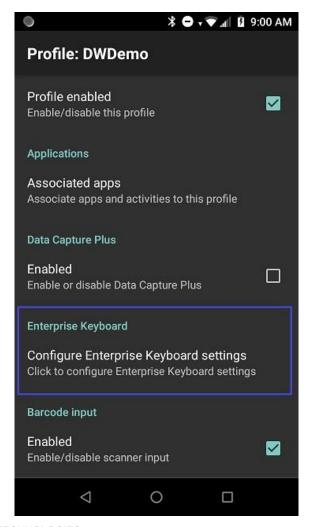
Enterprise Keyboard API Demo

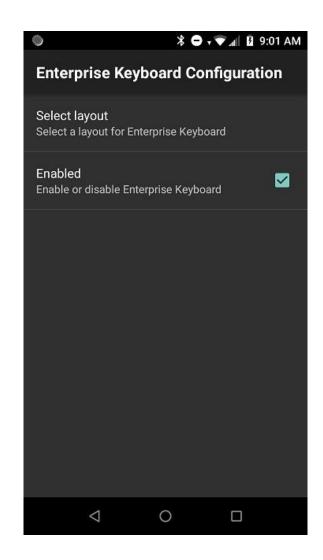
- Enterprise Keyboard API Demo
 - https://github.com/darryncampbell/En terprise_Keyboard_Exerciser

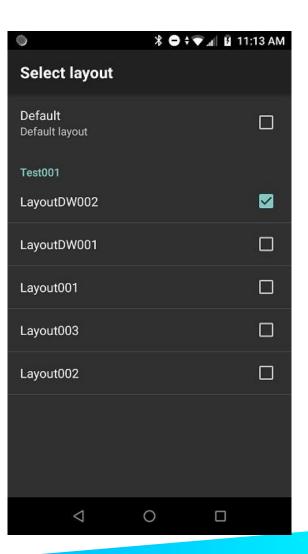




Enterprise Keyboard Via DataWedge

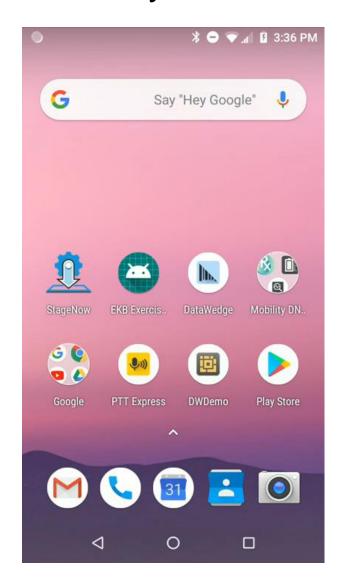


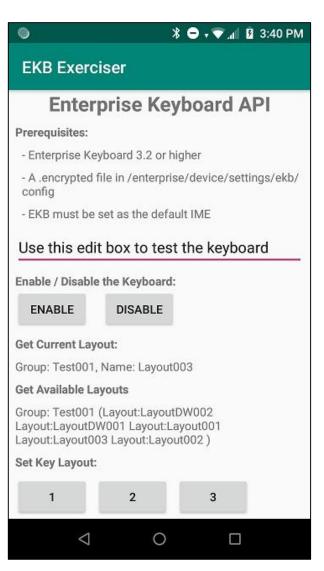




Enterprise Keyboard API Demo

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 - https://github.com/darryncampbell/En terprise_Keyboard_Exerciser

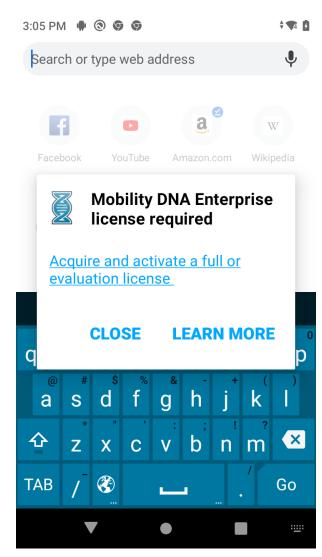




Enterprise Keyboard Licensing

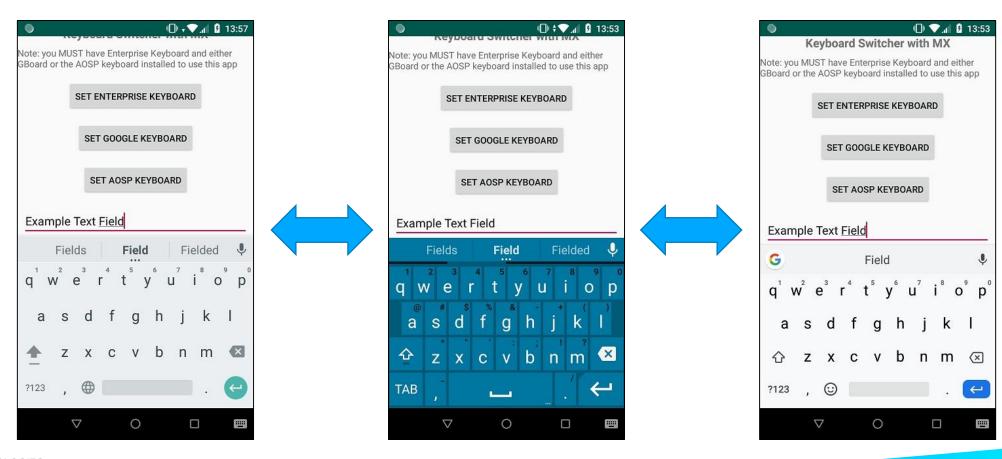
MDNA License

- For the majority of our portfolio (so called Enterprise devices), EKB will be free to use
- Beginning with EKB 3.9, an MDNA Enterprise license is required to use Enterprise Keyboard on Zebra Professional-series devices, including the TC21 and TC26. These devices arrive with a non-functional EKB "dummy" client, which must be replaced with the functional EKB v3.9 (or later) client after purchasing a Zebra MDNA Enterprise license.
- When unlicensed, EKB displays a "license required" prompt (see below) whenever app focus comes to a text input box, but is otherwise fully functional.
- https://techdocs.zebra.com/enterprise-keyboard/3-9/guide/about/#mdnaenterpriselicense



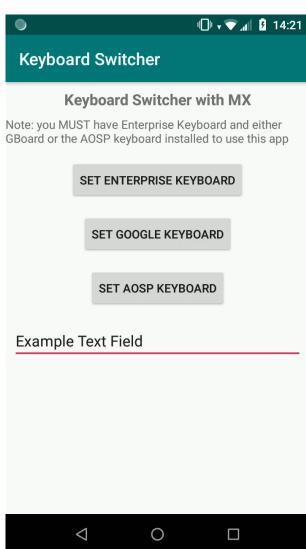
Switching between Gboard & Enterprise Keyboard

Switching between Gboard & Enterprise Keyboard



Switching between Gboard & Enterprise Keyboard

- Switching between Gboard & Enterprise Keyboard
- Sample app: https://github.com/darryncampbell/KeyboardSwitcher
 - Uses MX Profile Manager to set the InputMethod though the UIManager CSP

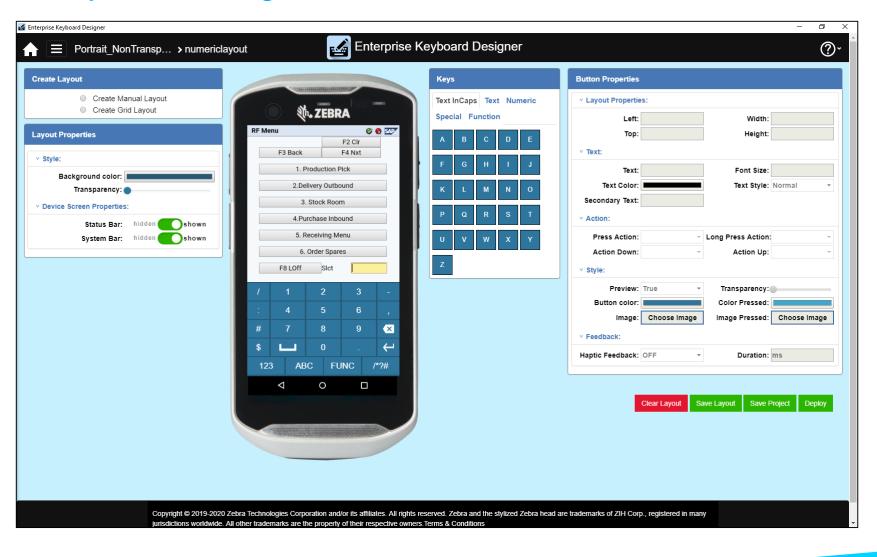


Switching between Gboard & Enterprise Keyboard

- Switching between Gboard & Enterprise Keyboard
- More detail: https://developer.zebra.com/blog/dynamically-switching-keyboards-zebra-android-devices

Keyboard Name	Package Name	Class Name
Enterprise Keyboard	com.symbol.mxmf.csp.enterprisekeyboard	com.android.inputmethod.latin.LatinIME
Gboard	com.google.android.input.method.latin	com.android.inputmethod.latin.LatinIME
AOSP Keyboard	com.android.inputmethod.latin	com.android.inputmethod.latin.LatinIME

Enterprise Keyboard Designer Overview

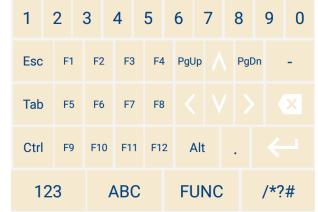


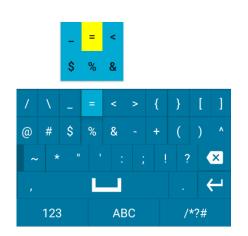


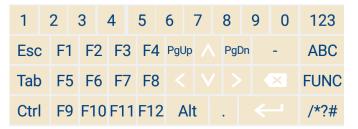
Enterprise Keyboard Designer Overview

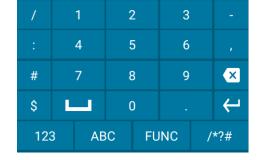
- New in EKD 1.4 (will need to update EKB also):
 - Support for canned text
 - Support for a default layout
- New in EKD 1.9:
 - Repeat keys function
 - Macros feature
 - Undo
 - Deploy button
 - Sample Layouts (https://techdocs.zebra.com/ekd/1-9/samples/)

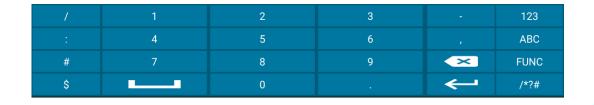








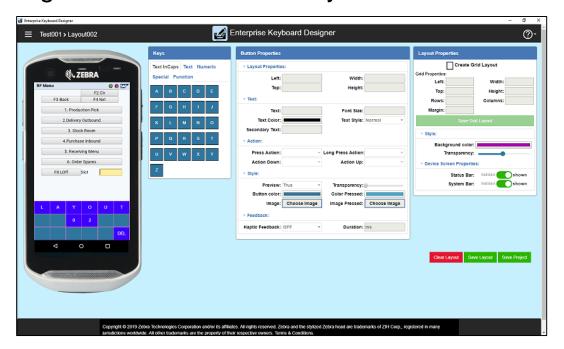




Enterprise Keyboard Designer Demo



- Download from https://www.zebra.com/us/en/support-downloads/software/productivity-apps/enterprise-keyboard-designer.html
- Create new custom keyboard
- adb push name.encrypted /enterprise/device/settings/ekb/config/name.encrypted
- Easiest to use DataWedge to demonstrate the layouts but could also use the Layout API.



Resources

- Download:
 - https://www.zebra.com/us/en/support-downloads/software.html
- Techdocs:
 - Mass configuration: https://techdocs.zebra.com/mx/enterprisekeyboardmgr/
 - Using EKD: https://techdocs.zebra.com/ekd/latest/guide/usage/
- Exploring the Enterprise Keyboard API:
 - https://developer.zebra.com/blog/exploring-enterprise-keyboard-api
 - https://github.com/darryncampbell/Enterprise_Keyboard_Exerciser
- Dynamically Switching Keyboards on Android devices:
 - https://developer.zebra.com/blog/dynamically-switching-keyboards-zebra-android-devices
 - https://github.com/darryncampbell/KeyboardSwitcher



Questions?

http://developer.zebra.com



