

In this sample we wish to map [F5] physical key as the Ctrl key on a Honeywell CK65 device.

Working with TELNET_VT emulation:

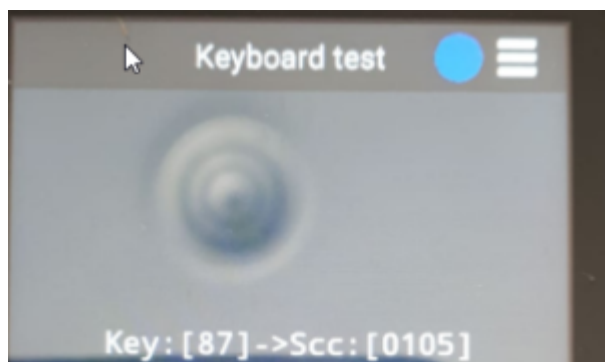
Physical Keyboard

From the Hardware Keyboard Test, click on the corresponding hardware key F5

```
---
DeviceID : 6
Action   : ACTION_DOWN
Flags    : 1000b
DisplayLab:
MetaState :
Unicode  : 0 (0x0)
Scancode : 6 (0x6)
Keycode  : 135 (0x87)
Key      : KEYCODE_F5

---
DeviceID : 6
Action   : ACTION_UP
Flags    : 1000b
DisplayLab:
MetaState :
Unicode  : 0 (0x0)
Scancode : 6 (0x6)
Keycode  : 135 (0x87)
Key      : KEYCODE_F5
```

The corresponding keycode is 0x87, the same as if we use the Keyboard Test and press on this hardware key

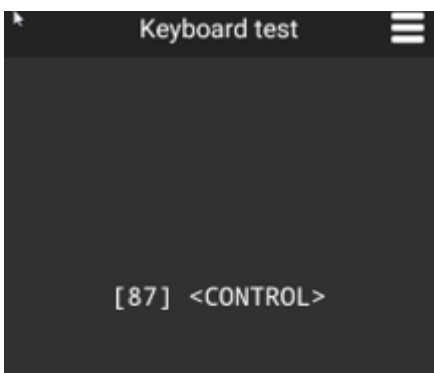


We need to make some changes in the configuration files:

In the first hand, edit the `_tnx_profile.jcf` file and change the parameter `Keyboard.ControlKey` from 2221 (default value) to 0087 (the keycode for hardware F5 key)

```
"Keyboard": {
  "PreviousKey": "0879",
  "NextKey": "087A",
  "CloseKey": "0878",
  "ControlKey": "0087",
  "ShiftKey": "2220",
  "AltKey": "2222",
  "FunctionKey": "2223"
```

In that way, if we launch again the Keyboard Test, the F5 key has been associated with the CONTROL key



In the second hand, it is a VT emulation, so the original remapping of the F5 key should not be done. Edit the `_tnx_process.jcf` file, `ScnToCmdMappings.TnVT` parameter, as follows:

```
{
  "Label": "Key F5",
  "ScanCode": "",
  "InternalCommand": ""
},
```

and the `EscapeSequences.VTXXX` parameter:

```
{
  "Label": "Fn F5",
  "InternalCommand": "",
  "Data": ""
},
```

Let's add to our example, the use of the following key combinations:

CTRL + A (0001) => F5 + A
CTRL + E (0005) => F5 + E
CTRL + W (0017) => F5 + W
CTRL + X (0018) => F5 + X
CTRL + L (000C) => F5 + L
CTRL + M (000D) => F5 + M

We need to add the SccToSccMappings:

```
"SccToSccMappings": [  
  {  
    "Received": "0841",  
    "Sent": "0001"  
  },  
  {  
    "Received": "0845",  
    "Sent": "0005"  
  },  
  {  
    "Received": "0857",  
    "Sent": "0017"  
  },  
  {  
    "Received": "0858",  
    "Sent": "0018"  
  },  
  {  
    "Received": "084C",  
    "Sent": "000C"  
  },  
  {  
    "Received": "084D",  
    "Sent": "000D"  
  }  
],
```

E.g. If we execute the Keyboard Test, and click on the combination F5+A, we get:

```
Key:[41]->Scc:[0841] Replaced  
By [0001]  
Char:[A]
```

Virtual Keyboard

For F5 key to work as Ctrl in the virtual keyboard, we need to modify the `_tnx_keyboard_vt.jcf` file. The F5 key should be remapped to the keycode 0087

```
}, {  
  "Label": "F5",  
  "ScanCode": "0087"  
}, {  
  "Label": "F6",  
  "ScanCode": "0088"
```