



YUNEX Technical Bulletin

STAB22-0136

ST950 & Stratos Outstation
New On-Board Smart Card Reader

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TRAFFIC

Introduction

The ST950 and Stratos Outstation main processor PCBs have been updated with a new on-board Smart Card Reader device. This is the device used to read the licenses and certificates on the Smart Card installed on the PCB.

Priority of Change: *If problem occurs*

Scope

Identification of the new PCBs:

Description	PCB Part Number	Variant
ST950 CPU Board	667/1/46010/xxx	/102
Stratos Outstation	667/1/47160/xxx	/002

If these new PCBs are used as spares in existing sites and as recommended a Restore Point is used to retrieve the original firmware and settings for the site from the Heart SD Card, then a workaround is needed to get the Smart Card to function correctly.

Alternatively, the firmware can be upgraded to ST950 v28 (or later) or Stratos Outstation v15 (or later).

Procedure

The preferred workaround is to upgrade the firmware to the latest version: ST950 v28 (or later) and Stratos Outstation v15 (or later).

Alternatively, the following workaround can be used with older firmware:

Step 1: Connect to the ST950 / Stratos Outstation web pages via a USB cable or Wi-Fi.

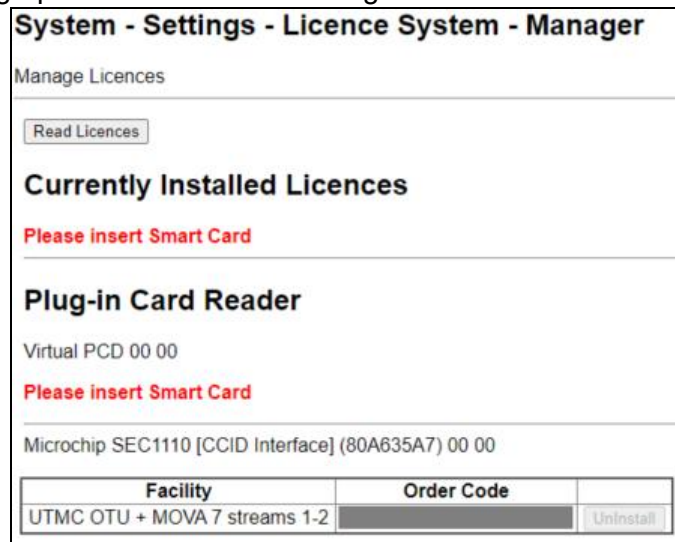
Note: Remote access to the web pages will be unavailable because the network communications are likely to be disabled while the device is unable to read the licences from the new Smart Card reader.

Step 2: Check the licences are shown as not installed

Open the web page 'System - Settings - Licence System - Manager'

Press the 'Read Licences' button to refresh the contents of the page. After a short delay, if the firmware is incompatible with the Smart Card reader device fitted on the PCB the page will indicate that no licences are installed and instead the expected licences are shown on a Plug-in Card Reader.

Example: the 'UTMC OTU + MOVA' licence on the Smart Card fitted to the PCB is incorrectly showing up as connected via a Plug-In Card Reader:



Step 3: Make a note of the serial number of the Smart Card reader.

In the example above, that is the 8-digit serial number: **80A635A7**

Step 4: Enter the workaround command

Open a Terminal window. Enter the following `cfgitem` command, but replace the serial number with the one shown on the earlier web page:

```
> cfgitem smartcard/onboardreader "^Microchip SEC1110 .+80A635A7"
new value for "smartcard/onboardreader" set to "^Microchip SEC1110 .+80A635A7"
```

Remember to replace the serial number shown in the example above with the actual serial number for the Card Reader shown on the web page. Note that there is a space character after 'SEC1110' but **not** between '+' and the serial number (as highlighted by the arrows in the image above).

Step 5: Check the licences are now shown as installed

Open the web page 'System - Settings - Licence System - Manager'. Press the 'Read Licences' button to refresh the contents of the page. After a short delay, the page should indicate that expected licences are shown as 'installed'.

Example: the 'UTMC OTU + MOVA' licence is now shown as installed:

Facility	Order Code	
UTMC OTU + MOVA 7 streams 1-2		Uninstall

If the licences are still not shown as 'installed', check the command entered in the previous step is correct and try re-entering the command.

Step 6: Restart and check the licenced facilities are working

Switch the power off and on, then check the various licenced facilities are now operating correctly.

Tip: If required, the workaround can be deleted using the following `cfgdelete` command:

```
> cfgdelete smartcard/onboardreader
Item "smartcard/onboardreader" deleted
```

Related Documents

- 667/HU/46000/000 User Interface Handbook for ST950 and Stratos Outstation