

Siemens Technical Action Bulletin No.**STAB19-0113****TITLE****Stratos Outstation Firmware Upgrade to
52255 Issue13**

Product	ST900	T400	Cuckoos	Street Furniture	Gemini3/ Stratos	OTU	INSTATION SOFTWARE	OTHER
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Are Modifications Required?**No****Retrospective Action Required?****No****Priority of the
Change**URGENT
ASAPACTION
AT NEXT
SITE VISITACTION
WITHIN 3
MONTHSACTION
AT
NEXT PIACTION
ONLY IF
PROBLEM
ARISESINFORMATION
ONLY

Introduction

This bulletin provides notification that the Gemini3/Stratos Outstation Firmware 52255 has now been updated to Issue13 and is available from [Siemens Traffic Downloads](#).

The New Features/Enhancements of this release are:

- **Several up to date security patches applied**
- **Inhibit the exchange of UTC / MOVA messages on the ESP link**

On occasion, the Outstation may be required to use the serial comms link to a Siemens Controller, whilst the Controller is configured for MOVA / UTC control (integral or remote). In this scenario, the UTC / MOVA messages on the ESP link must be inhibited to prevent the Controller from reporting a fault indicating UTC / MOVA control detected on multiple interfaces.

- **Energy Efficient Intersection Service**
(This is a V2X facility which should not be used without guidance from Siemens Engineering in Poole. It requires the installation of other roadside infrastructure to operate)
- **NEMA over IP**
(This is a facility developed for the US and aligned markets. It should not be operated in the UK)

There is no specific charge for this updated firmware but if a customer wants to upgrade an existing site, a price for upgrading should be negotiated with the local Field organization.

However, Stratos Remote Monitoring functionality is a licensed feature. Normally Stratos Outstations are supplied with a UTMC OTU license which will automatically enable the Monitoring functionality in the controller. If the outstation is not fitted with a license a UTMC License will also need to be purchased.

Connection to Stratos requires that the customer has the Stratos Traffic Signals module appropriately enabled. For Remote Monitoring Outstations connected directly to Stratos, the firmware upgrade is completed automatically by the system.

Scope

Gemini3/Stratos Outstation Firmware upgrades.

Procedure

Please note that you can **ONLY** upgrade to Stratos Outstation Firmware Iss13 from Iss7 or above. Therefore if you have <Iss7 then please refer to [STAB16-0104](#) to upgrade to Iss7 first.

To upgrade to Stratos Outstation Firmware 52255 to Issue13 please follow the following steps:

1. Prerequisites

The firmware package file **REL_52255_13_1_0.pkg** can be downloaded from [Siemens Traffic Downloads](#)

This file needs to be loaded onto the laptop or mobile device that will be used to access the web browser interface. We recommend the web browser interface rather than WIZ is used to perform the firmware upgrade and check the operation after upgrade.

In case there is a problem during the upgrade, it is advisable to also have:

- **Replacement Stratos Outstation**

This Firmware Upgrade will cause the outstation to reboot and so be offline briefly. Ensure that the Customer and any Central Office Staff are aware beforehand.

2. Before Upgrading

A restore point may be saved before performing an upgrade so that it is possible to return to the existing system if desired in the future.

Restore points are managed using the *Status and Configuration – Heart* web page.

The outstation can automatically maintain a restore point; this is known as the latest restore point and is listed at the top of this web page. If the time of creation of this restore point is not suitable or timings / settings changes have been made since then, a new restore point can be created by pressing the [Refresh] button. This will take a few minutes.

Press the [Retain] button so a backup of the system running current firmware will always be available on the Heart SD Card. Retaining a backup should only take a few seconds. If problems occur during or after the upgrade, one option available will be to return the system to this Restore Point.

It is important not to turn off the outstation while a requested operation is in progress or very soon after it completes as doing so will cause the requested operation to fail.

3. Performing the Upgrade

IMPORTANT: If the restore points on the Heart are to be retained then replace the Heart and store it safely.

Use the Status and Configuration – System – Upgrade page to upgrade the firmware. The Package File named **REL_52255_13_1_0.pkg** is used for this upgrade. After the file has been imported and verified, the upgrade will commence which will involve the outstation restarting.

This is a large upgrade and can take several minutes to complete.

DO NOT SWITCH OFF THE POWER during the upgrade.

4. Verify the Upgrade

Completion of the upgrade is indicated by the status LEDs returning to their normal flashing pattern. Navigate to System web page and verify that the Package Version is displayed as: **13.1.0**

Navigate to Fault Table web page and verify that no unexpected faults or notifications are present.

Related Documents

[667/SU/52255/000 Stratos Outstation Compatibility Handbook](#) Issue 4 (or later) for v13 features.