



Siemens Technical Bulletin STAB14-0090

# ST950 Firmware 'Service Release 1'

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**Product:** ST950**Modifications Req:** No**Retrospective Action Req:** No**Priority of Change:** Action only if problem arises

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Email: > [harry.smyth@siemens.com](mailto:harry.smyth@siemens.com)> [www.siemens.co.uk/traffic](http://www.siemens.co.uk/traffic)*Committed to quality traffic solutions and service excellence***Introduction**

The ST950 firmware 667/TZ/46059/000 has now been upgraded to Issue 8. This new firmware is referred to as 'Service Release 1' and includes several new features, improvements and fixes as well as updates to the Operating System and Network Services. The > [ST950 Compatibility Handbook](#) summarises all the changes.

**Scope**

ST950LV &amp; ST950ELV Firmware upgrades

The previous general release of ST950 firmware was issue 5, where issues 6 and 7 have only been released to specific trial sites. For those controllers running the issue 6 or issue 7 trial versions, please note that the Mozilla Firefox team is planning to remove the security certificate work-around in November. It is therefore recommended that these controllers are updated to issue 8 (or later) before then, otherwise there is a risk that an automatic upgrade to Firefox towards the end of 2014 will prevent any connection (either locally or remotely) to an ST950 controller running firmware issue 6 or 7. (Note: If upgrading from 7 to 8, the upgrade will commence as soon as the package file has been validated; the programming sequence is not needed because only the EFC software needs to be upgraded.)

**Procedure**

To Upgrade to ST950 firmware 46059 Issue8 please follow the following steps:

**1. Prerequisites**

The firmware package file REL\_46059\_8\_0.pkg can be downloaded from our website:

> [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 of the controller.

**2. Before Upgrading**

We recommend that a restore point is 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 - Controller - Heart - Backup & Restore* web page. The controller 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 suitable then this restore point can be saved by pressing the *Retain* button. If its time of creation is not suitable then creation of a new restore point can be requested by pressing the *Refresh* button. The *Retain* button should be pressed on completion of the refresh operation.

Restore point operations can take time to complete and the *Controller - Heart - Backup & Restore* web page reports the current status. It is important not to turn off the controller 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

Use the *Status and Configuration - System - Upgrade* page to upgrade the firmware.

The Package File named REL\_46059\_8\_0.pkg is used for this upgrade. After the file has been imported and verified, the upgrade will be placed on hold until the PRG button is pressed.

This is a large upgrade and there can be several minutes between pressing the PRG button and the blue PRG LED starting to fast flash to indicate re-programming.

**DO NOT SWITCH OFF THE POWER** until the Blue PRG LED remains illuminated and is no longer flashing.

### 4. After the Upgrade

While upgrading from issue 5 (or earlier) to issue 8, the web interface will not automatically refresh and so may continue to indicate that the controller is rebooting. This is because of the change from HTTP to the more secure connection HTTPS connection. A refresh of the browser interface can be requested by pressing F5 while the Blue PRG LED fast flashes (to indicate it is programming the CPUs) or while it remains illuminated (after completing the programming).

On first connection after the upgrade the browser will display a security warning. Please follow the browser's instructions to create an exception for the site - see the [ST950 User Interface Handbook](#) for information on how to do this.

On completion of upgrade the Fault Table may indicate that the upgrade failed. This is a known problem with the original firmware. Please visit the System web page and confirm that the package version is 8.0. This indicates that upgrade has completed successfully. The upgrade fault on the Fault Table can then be cleared by pressing the button associated with the fault text.

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### Related Releases

Where the ST950 Traffic Controllers are connected to an OSS (Outstation Support Server), the OSS needs to be updated to software version 8 (part number 667/TZ/32450/000). OSS running software version 7 (or earlier) will fail to recognise any ST950 controllers running firmware issue 8 (or later).

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### Related Documents

➤ [667/SU/46000/000 ST950 Compatibility Handbook](#) Issue 4 (or later) for a list of all the changes.

➤ [667/HU/46000/000 ST950 User Interface Handbook](#) Issue 2 (or later) for changes to the user interface, including details on the change from HTTP to HTTPS and from TELNET to SSH.

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**Approved by:** Keith Manston