

Use of Stratos Outstation Firmware and Hardware Configurations 667/SU/52255/000

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Change History:

Issue	Change Reference	Date	Author
1	Firmware issue 7.	Nov 2017	Dave Martin
3	Firmware issue 10.	July 2018	Alan Doyle
4	TS009223. Firmware issue 13.	June 2019	Martin Cable

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1 INTRODUCTION

1.1 Purpose

The purpose of this document is to summarise the different firmware releases of the Stratos Outstation and identify any compatibility issues with the hardware.

1.2 Scope

All issues of Stratos Outstation firmware and hardware.

A description of the Stratos Outstation can be found in the Stratos Outstation Handbook 667/HB/52250/000.

1.3 Glossary and Common Terms

Reference numbers in the form 'TS00####' refer to change request documents (RFC) within the Siemens Poole change control system.

Reference numbers in the form 'Ref 00####' refer to fault and enhancement reports within the Siemens Poole 'bug tracker' system.

Reference numbers in the form 'STAB##-####' refer Siemens Technical Bulletins as released by Siemens Poole.

Also refer to the list of Abbreviations in the Stratos Outstation Handbook 667/HB/52250/000.

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2 Firmware Descriptions

The following sub-sections detail the changes made in each release of Stratos Outstation firmware package 667/1/52255/000.

2.1 Issue 1: 2014 Sep, Trial Version

Package 667/1/52255/000 issue 1 was produced as part of the initial Stratos Outstation street trials.

2.2 Issue 2: 2014 Nov, Trial Version

Package 667/1/52255/000 issue 2 was produced as part of the Stratos Outstation street trials.

2.3 Issue 3: November 2014, First Production Release

Issue 3 is the first production release.

2.4 Issue 4: September 2015, Maintenance Release

Issue 4 is a maintenance release of the Stratos Outstation:-

- Identify the complete product (GeminiMK3) in the OTU MIB "Hardware Type" field.
- Include MOVA 7 emergency/priority fix.

2.5 Issue 5: Development Version

Issue 5 was used for internal development and not released to the field.

2.6 Issue 6: Development Version

Issue 6 was used for internal development and not released to the field.

2.7 Issue 7: November 2016, First Stratos Release

Issue 7 is the first release to include the ability for the outstation to connect to and be monitored by Stratos. Other new features include:-

- Monitoring of the following controller types via the controller handset port:
 - Siemens ST900
 - Siemens ST800
 - Siemens ST750
 - Siemens ST700
 - Siemens ST400
 - Peek PTC-1
 - Peek TSP
- Loadable monitoring packages to extend monitoring to new controller types without having to update the firmware.
- Support for user credentials issued by Stratos to identify users to the equipment for authentication and change identification.
- Recent fault and notification histories available through *View History* buttons on *Fault Table* web page.
- *Movacomm* command in web terminal.
- Support UTMCI interface to NEMA TS1 type controllers. See NEMA Adaptor Handbook for Stratos Outstation 667/HB/52250/001 for details.

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2.8 Issue 8: Not released

Installed in some sites for field trial only.

2.9 Issue 9: Not released

Installed in some sites for field trial only.

2.10 Issue 10: July 2018

Along with various maintenance fixes and security enhancements, the new features of this release are:

- Support for later versions of Dynniq PTC1 controller.
- TCP Proxy application to support new Vehicle to Infrastructure developments.
- Incorporation of file system cleanup within ControllerMonitor to enable space to be cleared prior to file system upgrade.

2.11 Issue 11: Development Version

Issue 11 was used for internal development and not released to the field.

2.12 Issue 12: Development Version

Issue 12 was used for internal development and not released to the field.

2.13 Issue 13: June 2019

Along with various maintenance fixes and security enhancements, the new features of this release are:

- Energy Efficient Intersection Service.
- NEMA over IP (US and related markets only – not for use in the UK).
- User can selectively inhibit the exchange of UTC / MOVA messages on the ESP link to a Siemens controller.
- The “debug get all” command output is sorted alphabetically.

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3 COMPATIBILITY

3.1 Stratos Outstation Cards

There are no known compatibility issues between different issues of outstation cards.

3.2 Other Peripherals & Products

3.2.1 Stratos

Firmware 46059 issue 11 onwards supports connection to Stratos.

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4 KNOWN PROBLEMS AND CONCESSIONS

4.1 Technical Bulletins

STAB15-0093: ST950 & Stratos Outstation USB Network Driver Issues on Windows 8.1.

STAB15-0095: Issue with TRL MOVA7 Software.

STAB16-0104: Stratos Outstation Firmware Upgrade to 52255 Issue 7.

4.2 Known Limitations with the Stratos Outstation Web Pages

We are aware of the following issues with the Stratos Outstation web pages:

- After changing the site name, the user may be asked to enter their username and password twice. (Ref 0020683)
- When using Windows Server 2003 and IE8, it is not possible to save the changes made on some of the controller web pages and the error 'Submit Failed, access denied' is displayed. Work-around: Use a different web browser. (Ref 0021956)
- For other known limitations, refer the user interface handbook 667/HU/46000/000.

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