



Siemens Technical Bulletin STAB10-0061

ST750 & ST900 Main Firmware Update to PB801 Issue10

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Product: ST750/ST900**Modifications Req:** No**Retrospective Action Req:** No**Priority of Change:** Information only

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Introduction

The ST750/ST900 Firmware (667/1/12801/000) has been updated from PB801 Issue9 to PB801 Issue10.

Scope

The Main Processor Firmware PB801 Issue10 has now been released to correct the Special Conditioning problem found in Issue9 (see STAB10-0060). It will also support Siemens Wig-Wag Signals to TR2513A specification on ST900LED and ST900ELV Controllers.

Procedure

In this Issue10, the change in operation of the Special Conditioning timers (which was implemented in Issue9) has now been disabled, with the option of being enabled if specifically required.

However Issue10 still contains all the other fixes and improvements which were released in Issue9.

One of these was to support the release of Siemens Wig Wag signals on ST900LED and ST900ELV controllers. Such controllers need special consideration and must only be created by Intersection Engineering at Siemens, Poole.

As well as the Siemens Wig Wag support, both PB801 Issue9 and Issue10 also provide the following additional fixes & improvements to a number of minor problems:

- **Fixed:** On an ELV Controller, a spurious lamp fault may be logged against the aspect (colour) of a sensor that is not actually monitoring any load, e.g. WtOff. The problem starts when the other aspects (e.g. Wait) illuminate, and one reading taken during their in-rush is processed against the aspect that has no load (WtOff). This one spurious reading can cause the (WtOff) learnt load to increase, under some circumstances. The next time that aspect is monitored, the controller confirms the load is back to 0W, and the spurious lamp fault is logged (against WtOff). The problem has also been seen on other sensor types, e.g. ones that monitor red and green, but only green signals are fitted.
- **Improvement*:** Optional phases without a configured start-up demand no longer move to ROW during the start-up sequence. Use PMV=8 to disable this new functionality so all phases in the start-up stage move to ROW, as on previous versions of firmware.

Harry Smyth

Senior Product Engineer

Technical Support

Traffic Solutions

Sopers Lane, Poole, Dorset BH17 7ER

Tel: +44 (0)1202 782027

Mob: +44 (0)7921 242893

Email: > harry.smyth@siemens.com> www.siemens.co.uk/traffic

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- **Improvement*:** If the only demands present are for phases in the current stage but the phases are at no ROW (e.g. Type 1 peds) the arterial or next stage is automatically demanded so these demands can be serviced. This used to require Special Conditioning. Use PMV=16 to disable this new firmware feature.
- **Improvement:** Flashing is now synchronised with the signal sequence so the first flash of any signals is the correct duration.

NOTE: In order to get two or more PMV features you have to sum the values. So for the Improvements* above, you should enter PMV=24 to do both.

For the full details of all the changes in this release, please refer to 667/SU/32900/000 (Issue9 or later).

Related documents

➤ [667/SU/32900/000](#)

Approved by: Keith Manston

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