



Gemini 3U OMU GSM Modem Loss of Communications

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Product: 3U OMU

Modifications Req: No

Retrospective Action Req : No

Priority of Change: Action only if problem exists

- ✓ Introduction
- ✓ Scope
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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.siemenstraffic.com

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Introduction

There have been a number of reports recently where communications between the RMS instation and Gemini / 3U outstation over the GSM network has been lost. Typically the Gemini fails to call in at its predefined time or the instation is unable to make contact with it. This normally requires a site visit and results in the Gemini being power cycled in order to regain communications.

The cause of the problem has been traced to network issues that cause the modem to loose registration with the network. A solution has been incorporated in the latest Gemini2 firmware (12687 issue 3) and Gemini1 firmware (12684 issue 8) which should be installed if the problem arises.

The change has not been incorporated in the 3U OMU firmware. Instead it has been decided to make use of a feature of the modem itself to bring about re-registration.

Scope

This bulletin details the procedure to follow in order to avoid the GSM Modem de-registration problem on a Gemini 3U OMU Outstation.

Procedure

In the case of the 3U OMU the following procedure should be followed.

1. First determine that an appropriate modem with suitable firmware is fitted. It should be a Siemens TC35i.

2. Disconnect the modem serial interface and connect to a laptop or handset with baud rate set to 19200 baud and character framing 8 bits no parity, one stop bit.

Type *ATI<CR>*

The modem should return with hardware type and firmware version as follows:

SIEMENS

TC35i

REVISION 02.07

OK

3. If it is not a TC35i or the firmware version is not 02.07 or higher then it must be replaced with one that is.

4. Now enter the following:

AT^SCFG="Autoexec",1,1,0,5,"at+cfun=1,1","001:00:00"<CR>

5. Once the command has been entered the following will be output by the TC35i to verify the settings...

^SCFG: "AutoExec","0","0","0","0",""

^SCFG: "AutoExec","1","1","0","5","at+cfun=1,1","001:00:00","010:00:00"

^SCFG: "AutoExec","0","1","1","0","","000:00:00","000:00:00"

^SCFG: "AutoExec","0","1","2","0","","000:00:00","000:00:00"

OK

6. Reconnect the modem to the outstation.

This will cause the modem to reset every hour and re-register with the network. It will not reset if in use.

Related documents

667/HB/26568/000

Approved by : Keith Manston