Software Release Notice

TimeProvider 1000 and 1100
Release 2.1 IMC.srec

Introduction

This document provides information about Release 2.0 IMC.srec of the downloadable firmware for Symmetricom's TimeProvider 1000 and 1100 products.

What's New In This Release

This release adds the following major functions to the TimeProvider.

- Primary Reference Receiver mode – by connecting the Symmetricom GPS Antenna and the TimeProvider Interface Unit (TPIU), the TimeProvider can function as a Primary Reference Receiver, as defined in ITU-T G.811 and Telcordia GR-2830.
- Performance monitoring – the TimeProvider can monitor and qualify enabled input signals based on phase measurements. From these measurements, the TimeProvider can calculate MTIE, TDEV, and FFOF for the input signals. See the *TimeProvider User's Guide* for more details.
- Japanese-specification signals – the TimeProvider can accept Japanese Composite Clock (JCC) and JCC4 input signals as well as 1.544 and 6.312 MHz inputs. It can also generate JCC, JCC4, 1.544 and 6.312 MHz output signals.

Known Issues

- 20589: Excesive EXPFAIL alarms occur when you change the alarm level to NA from MN when the optional Expansion Panel is not installed.
  To prevent the EXPFAIL alarm from occurring, Symmetricom suggests that you change the alarm level to NR (No Report) by issuing the `set-attr::sys:aid::expfail=nr` command. Excessive alarms are not issued; this alarm does not appear when you retrieve alarms.
- 20593: If you issue an invalid `rtrv-pm` command, the deny response is SSTP instead of the expected SROF.

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- 20611: In the Subtending mode, the output phase shifts when the input switches from Input 1 to Input 2. This phase shift occurs on a JCC4 output when a LOS occurs on a JCC4 active reference signal.

  Work Around: Avoid causing a LOS on the active input channel. Prior to performing maintenance on the active input channel, issue the `ed-sync::sys::inpref=inp2;` command to change the input reference source.

- 20615: Downloading to the IMC using the serial port at 57600 baud rate may fail.

  Work Around: If the download fails, try again. Downloads failed less than 10% of the time during Symmetricom testing. Downloading using the Ethernet port is reliable.

- 20624: When the TimeProvider is configured for Subtending mode using JCC4 inputs, removing the Tip or Ring from the input creates a Connection Reversed alarm.

  Work Around: Avoid removing the Tip or Ring from the Input module when performing maintenance on the active input channel. Prior to performing maintenance, issue the `ed-sync::sys::inpref=inp2;` command to change the input reference source. To clear the alarm, reconnect the Tip and Ring to the Input module for one to two minutes.

- 20658: When the TimeProvider is configured for Subtending mode, removing the Active IOC creates a Tip/Ring Connection Reversed (INPTRR) alarm and causes a blinking LED on the remaining IOC.

  Work Around: Avoid removing the Active IOC when performing maintenance on the active input channel. To clear the alarm and the blinking LED, issue the `ed-sync::sys::ccalign;` command. Outputs are not affected by this alarm.

- 20661: The response format is incorrect for the `rtrv-sync::aid::fltdelay;` and `rtrv-sync::aid::clrdelay;` commands.

- 20674: The response format for the `rtrv-th` command does not include the aid.

- 20722: The TIDQUIET command does not work on a Local port.

- 20765: If you install an IOC that was previously installed in a shelf provisioned to PRR mode into a shelf that is currently provisioned to SSU mode with the GPS input enabled, the GPS input may be disabled. This occurs only in a shelf with two redundant IOCs and you install the IOC in Slot 1.

  Work Around: Enable the GPS input by issuing the `ed-eqpt` command.

- 20766: During a firmware download, SynCraft indicates that the command is complete before the IMC transfers the file to the IOC. Sending another command to the IOC before the transfer is complete could corrupt the file.

  Work Around: Wait 30 minutes after sending the `act-swdl` command. If you inadvertently corrupt the file, resend the `act-swdl` command.

- 20767: On a system with one IOC, when replacing that IOC there is a possibility that the IOC may show an alarm that the IMC does not see. This only happens on a system with no Expansion Panel.

  Work Around: Reboot the IMC using the `init-sys` command.

Ensuring Hardware Compatibility

This software release notice covers software for the following hardware model:

- TimeProvider 1000 and 1100

Using the Release CD

To launch the CD for Windows 95/98/Me/NT 4.0/2000/XP, insert the CD into your computer's CD-ROM drive, then do the following:

- In the Windows Explorer, double-click on the PDF documentation file for your product.

Available Documentation

The following documents are provided to help you set up and configure your product:

- Software Release Notice (this document)
- *TimeProvider User's Guide* (located on the accompanying CD)
- *TimeProvider TL-1 Reference Guide* (located on the accompanying CD)

This Software Release Notice and the User's Guide are included in PDF format on the CD. Use Adobe Acrobat Reader to open the appropriate file on the CD.

You will need the version of Adobe Acrobat Reader that is appropriate for your Operating System to view and print these documents. If you don't have Acrobat Reader already installed on your system, you can install it from the CD or download it from Adobe's Web site (**http://www.adobe.com**).

Where to Find Installation Procedures

Please refer to Chapter 6 in the *TimeProvider User's Guide* for instructions for installing and updating the software.

Compatibility

When you use redundant IOC cards, Symmetricom recommends that you use the same revision of firmware for proper operation. The following tables illustrate the compatibility between hardware and firmware revisions.

Table 1-1. IMC Hardware/Firmware Compatibility

IMC Hardware Versions	IMC Firmware Version	
	1.01.xx	1.02.xx
1	Y	Y
A	Y	Y

Table 1-2. IOC Hardware/Firmware Compatibility

IOC Hardware Versions	IOC Firmware Version	
	1.01.xx	1.02.xx
1	Y	Y
A	Y	Y
B	N	Y

Table 1-3. Hardware Compatibility Between IOC and IMC Versions

IOC Hardware Versions	IMC Hardware Version	
	1	A
1	Y	Y
A	Y	Y
B	Y	Y

Table 1-4. IMC/IOC Firmware Compatibility

IMC Firmware Versions	IOC Firmware Version	
	1.01.xx	1.02.xx
1.01.xx	Y	N[a]
1.02.xx	Y	Y

Note:
[a]No alarm is generated

Table 1-5. IOC Firmware Compatibility

IOC1 Firmware Versions	IOC2 Firmware Version	
	1.01.xx	1.02.xx
1.01.xx	Y	N[a]
1.02.xx	N	Y

Note:
[a]The IOC Alarm LED lights

Table 1-6. Hardware Compatibility Between IOCs

IOC1 Hardware Versions	IOC2 Hardware Version		
	1	A	B
1	Y	Y	Y
A	Y	Y	Y
B	Y	Y	Y

Contacting Technical Support

If you encounter any difficulty installing the update or operating the product, contact Symmetricom Global Services at:

Symmetricom, Inc.
2300 Orchard Parkway
San Jose, CA 95131-1017

U.S.A. Call Center:
888-367-7966 (from inside U.S.A. only – toll-free)
408-428-7907
Fax: 408-428-7998

Europe, Middle East, and Africa (EMEA) Call Center:
+44 (0) 1189 699 799
Fax: +44 (0) 1189 277 520
E-mail: cac@symmetricom.com

Internet: http://www.symmetricom.com