

Configuring Motorola OmniStar Devices in TNCS Application Note

Overview

Purpose

The purpose of this document is to provide instructions for configuring Motorola OmniStar devices in Transmission Networks Control System (TNCS). This document is a supplement to the *TNCS Administrator Software User Guide*, part number 4013494. The Motorola OmniStar product line can be monitored and controlled by TNCS. This document outlines the modules that are supported and provides the procedures required to configure OmniStar products in TNCS.

Who Should Use This Document

This document is intended for authorized personnel who have experience working with similar equipment. The personnel should have appropriate background and knowledge to complete the procedures described in this document. Service engineers who help system operators manage their systems will also find the contents of this document useful.

Qualified Personnel

Only appropriately qualified and skilled personnel should attempt to install, operate, maintain, and service this product.



WARNING:

Allow only qualified and skilled personnel to install, operate, maintain, and service this product. Otherwise, personal injury or equipment damage may occur.

Related Publications

You may find the following publications useful as you implement the procedures in this document.

- *TNCS Administrator Software User Guide*, part number 4013494
- *TNCS Cabling Guide*, part number 736790

Safe Operation for Software Controlling Optical Transmission Equipment

If this manual discusses software, the software described is used to monitor and/or control Scientific Atlanta and other vendors' electrical and optical equipment designed to transmit video, voice, or data signals. Certain safety precautions should be observed when operating equipment of this nature.

For equipment specific safety requirements, refer to the appropriate section of the equipment documentation.

For safe operation of this software, refer to the following warnings.



WARNING:

- Ensure that all optical connections are complete or terminated before using this equipment to remotely control a laser device. An optical or laser device can pose a hazard to remotely located personnel when operated without their knowledge.
- Allow only personnel trained in laser safety to operate this software. Otherwise, injuries to personnel may occur.
- Restrict access of this software to authorized personnel only.
- Install this software in equipment that is located in a restricted access area.

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OmniStar Devices

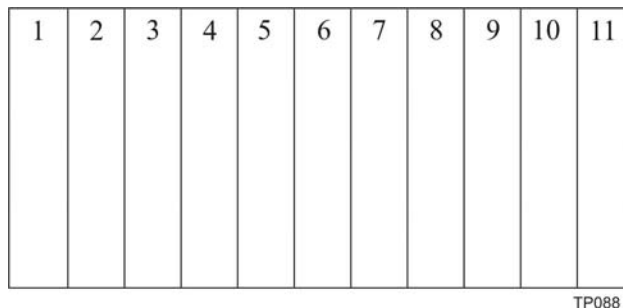
The following modules are supported in TNCS.

Description	Model	Devtype
Forward Path Receiver – 860R	860R	Omni_860R.txt
Return Path Receiver – RPR/2C	RPR/2C	Omni_rpr2c.txt
Dual Return Path Receiver – RPR/2	RPR/2	Omni_rpr2.txt
RF Switch	SWITCH	Omni_Switch.txt
Advance Laser Module ALM 12/80	ALM-12	Omni_alm12.txt
Advance Laser Module ALM 2	ALM-2	Omni_alm2.txt
Control Module	CM1	Omni_CM1.txt
Laser Module	LM	Omnistar_lm.txt
48 VDC Power Supply	PS/DC-48	Omni_psd48.txt
AC Power Supply	PS/AC-1	Not Applicable

Configuring OmniStar Devices

Introduction

TNCS communicates with the Motorola OmniStar chassis and all of the modules within the chassis through the CM1 Control Module. The address of the Control Module is the last six digits of its serial number. A label that is usually found on the side of the Control Module lists the serial number. The following illustration shows a typical OmniStar chassis.



TP088

Configuring Devices

When configuring OmniStar in TNCS, make sure to follow these guidelines.

Control Module

- Slot eleven is reserved for the Control Module.
- The Control Module is one half the width of a standard single module.
- The address of the Control Module is the last six characters of the serial number.
- A label on the side of the Control Module displays the serial number.

Power Supplies

- Slots one and two can only be used for Power Supply modules.
- AC Power Supply is a double-wide module that uses both slots one and two.
- The Control Module monitors the performance of the AC Power Supply module so there is no AC Power Supply devtype. TNCS assumes the AC Power Supply module is present unless a 48 V DC Power Supply module is specified in the devlist.
- 48 V DC Power Supply module is a standard single-wide module.
- Two 48 V DC Power Supply modules can be installed in the chassis.
- Slot one will be the primary. Slot two will be the redundant.

Dual Return Path Receivers (RPR)

- Dual Return Path Receiver modules are a standard single-wide module.
- Each receiver in the Dual Return Path Receivers requires an entry in the devlist.
- Receiver “A” is identified as “subslot=0” in the devlist.
- Receiver “B” is identified as “subslot=1” in the devlist.

Sample Devlist

The following shows a sample OmniStar devlist.

```
Group Chassis desc="Chassis 02" graphic="Chassis OmniStar" Address=1001
omni_cm1 controller address=E51C78 port=COM2 slonum=11
omni_860R FwdRcvr address=E51C78 port=COM2 slonum=7
omni_alm2 ALM-2 address=E51C78 port=COM2 slonum=6
omni_switch sw1 address=E51C78 port=COM2 slonum=8
omni_rpr2 testprA address=E51C78 port=COM2 slonum=5 subslot=0
omni_rpr2 testprB address=E51C78 port=COM2 slonum=5 subslot=1
omni_rpr2c,RX1,address=E51C78,port=COM2,slonum=4,subslot=0
omni_rpr2c,RX2,address=E51C78,port=COM2,slonum=4,subslot=1
```

Note: The address for each module is the same as the Control Module because communications to all modules is through the Control Module.

For Information

Support Telephone Numbers

Use the following table to find the Technical Support and Customer Service telephone numbers for your area.

Region	Centers	Telephone and Fax Numbers
North America	SciCare™ Broadband Services	For <i>Technical Support</i> , call: <ul style="list-style-type: none"> ■ Toll-free: 1-800-722-2009 ■ Local: 770-236-6900 (Press 2 at the prompt)
	Atlanta, Georgia United States	For <i>Customer Service</i> or to request an RMA number, call: <ul style="list-style-type: none"> ■ Toll-free: 1-800-722-2009 ■ Local: 770-236-6900 (Press 3 at the prompt) ■ Fax: 770-236-5477
Europe	Belgium	For <i>Technical Support</i> , call: <ul style="list-style-type: none"> ■ Telephone: 32-56-445-197 or 32-56-445-155 ■ Fax: 32-56-445-053 For <i>Customer Service</i> or to request an RMA number, call: <ul style="list-style-type: none"> ■ Telephone: 32-56-445-118 ■ Fax: 32-56-445-051
Asia-Pacific Australia	Hong Kong	Telephone: 852-2522-5059 Fax: 852-2522-5624
Brazil	Brazil	For <i>Technical Support</i> , call: <ul style="list-style-type: none"> ■ Telephone: 55-11-3845-9154 ext 230 ■ Fax: 55-11-3845-2514 For <i>Customer Service</i> or to request an RMA number, call: <ul style="list-style-type: none"> ■ Telephone: 770-236-5662 ■ Fax: 770-236-5888
South America, other than Brazil	Argentina	For <i>Technical Support</i> , call: <ul style="list-style-type: none"> ■ Telephone: 54-23-20-403340 ext 109 ■ Fax: 54-23-20-403340 ext 103 For <i>Customer Service</i> or to request an RMA number, call: <ul style="list-style-type: none"> ■ Telephone: 770-236-5662 ■ Fax: 770-236-5888
Mexico, Central America	Mexico	For <i>Technical Support</i> , call: <ul style="list-style-type: none"> ■ Telephone: 52-3515152599 ■ Fax: 52-3515152599 For <i>Customer Service</i> or to request an RMA number, call: <ul style="list-style-type: none"> ■ Telephone: 5255-50818425 ■ Fax: 5255-52610893



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