



READ ME FIRST!!

IP-MPA

MULTIPLE PROTOCOL

“ALL IN ONE”

INTEGRATED ACCESS DEVICE

PRODUCT / RELEASE NOTES

RELEASE 4.5

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Important Safety Instructions



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

When installing, operating, or maintaining this equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and injury to persons, including the following:

- ☐ Read and understand all instructions.
- ☐ Follow all warnings and instructions marked on this product.
- ☐ For information on proper mounting instructions, consult the User's Manual provided with this product.
- ☐ The telecommunications interface should not leave the building premises unless connected to telecommunication devices providing primary and secondary protection.
- ☐ This product should only be operated from the type of power source indicated in the User's Manual.
- ☐ This unit is intended to be powered from either -48 V DC or AC voltage sources. See User's Manual before connecting to the power source.
- ☐ The -48 V DC input terminals are only provided for installations in Restricted Access Areas locations.
- ☐ Do not use this product near water, for example, in a wet basement.
- ☐ Never touch uninsulated wiring or terminals carrying direct current or leave this wiring exposed. Protect and tape wiring and terminals to avoid risk of fire, electric shock, and injury to service personnel.
- ☐ To reduce the risk of electrical shock, do not disassemble this product. Service should be performed by trained personnel only. Opening or removing covers and/or circuit boards may expose you to dangerous voltages or other risks. Incorrect re-assembly can cause electric shock when the unit is subsequently used.
- ☐ For a unit intended to be powered from -48 V DC voltage sources, read and understand the following:
 - This equipment must be provided with a readily accessible disconnect device as part of the building installation.
 - Ensure that there is no exposed wire when the input power cables are connected to the unit.
 - Installation must include an independent frame ground drop to building ground. Refer to User's Manual.



This symbol is marked on the 4284, adjacent to the ground (earth) area for the connection of the ground (earth) conductor.

- ☐ This Equipment is to be Installed Only in Restricted Access Areas on Business and Customer Premises Applications in Accordance with Articles 110-16, 110-17, and 110-18 of the National Electrical Code, ANSI/NFPA No. 70. Other Installations Exempt from the Enforcement of the National Electrical Code May Be Engineered According to the Accepted Practices of the Local Telecommunications Utility.
- ☐ For a unit equipped with an AC Wall Plug-In Unit, read and understand the following:
 - Use only the Astrodyne Part # SPU15A-111 48v power supply adapter with this product.
 - Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
 - Do not staple or otherwise attach the power supply cord to the building surfaces.
 - Do not overload wall outlets and extension cords as this can result in the risk of fire or electric shock.
 - The socket outlet shall be installed near the equipment and shall be readily accessible.
 - The Wall Plug-In unit may be equipped with a three-wire grounding type plug, a plug having a third (grounding) pin. This plug is intended to fit only into a grounding type power outlet. Do not defeat the safety purpose of the grounding type plug.
 - Do not allow anything to rest on the power cord. Do not locate this product where the cord may be abused by persons walking on it.
 - Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - a) When the power supply cord or plug is damaged or frayed.
 - b) If liquid has been spilled into the product.
 - c) If the product has been exposed to rain or water.
 - d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions because improper adjustment of other controls may result in damage and will often require extensive work by qualified technician to restore the product to normal operation.
 - e) If the product has been dropped or the cabinet has been damaged.
 - f) If the product exhibits a distinct change in performance.

Save These Instructions

IMPORTANT !!

USER DOCUMENTATION IS AVAILABLE AT OUR WEB SITE.

Documentation:	http://www.trdcusa.com
Sales:	sales@trdcusa.com

The **IPMPA** is initially configured by attaching the unit to a serial console via an adapter that uses the secondary interface on the DB25 connector. This adapter is removed before the **IPMPA** is attached to the Network Element. As a minimum, the IP parameters require configuration to allow subsequent use of the telnet console.

1 INTRODUCTION

The **IP-MPA** is designed for those situations where only one or a few ports are needed. It provides an inexpensive manner to provide protocol mediation and diversity. The units may be direct powered or via the 10BaseT LAN interface using 802.3af Power over Ethernet.

For detailed information on this product, reference the User's Manual.

2 PRODUCT FEATURES

The **IP-MPA** is a Multiple Protocol Inter-Networking device with enhanced vertical services. The IPMPA is a single port device. The port may be synchronous, or asynchronous with rates up to 115.2 kbps. Popular protocols such as asynchronous, HDLC, SDLC, X.25, and BX.25 are all supported interchangeably on a per port basis. In addition, vertical services for X.25 typically found on Embedded Network Processors have been incorporated. This allows the **IP-MPA** to directly mediate X.25 to individual circuits over TCP/IP connections.

Consult the User's manual for a complete enumeration of the features..

3 RELEASE CHANGES

3.1 RELEASE 4.5 ERRATA

- The IP-MPA could not be recognized by SNMP managers. This was due to an improperly formed UDP response. It is corrected in this release.
- The SNMP configuration could report that a community could not be set. In fact, it had been set. This would occur when the community had been set, then cleared, then set again with the exact same syntax. This problem has been corrected in this release.
- The serial console is disabled within 10 seconds of a reboot unless a ^C is entered when prompted. The disabling of the serial console is necessary to avoid problems associated with cabling that has not been terminated. After initial installation, the telnet console is normally used for all OA&M functions.

3.2 RELEASE 4.4 ERRATA

- Release 4.4 is the first officially deployed release. This release inhibits the disabling of the serial console at reboot. This is a temporary measure for this release alone. It is disabled in the next maintenance release.

3.3 RELEASES PRIOR TO 4.4

Contact support@trdcusa.com with specific questions on releases older than 4.4.

4 INSTALLATION ADDENDUM

4.1 OBTAINING INFORMATION FROM TELECOMP R&D

Load modules for all the TeleComp R&D products are obtained by sending email to support@trdcusa.com. All other documentation, including release notes, user manuals, “white-papers”, etc. can be accessed on the TeleComp R&D web site and downloaded for your use.

To insure that the correct version of the binary load modules have been retrieved and has not been corrupted during the transmission process, the UNIX® **sum** command can be used.

On some hosts, the “-s” flag must be used with the **sum** command. On X86 linux hosts, the **-sysv** flag must be used with the **sum** command.

Key-in **sum** < name of load module file>.

The values returned must match the numbers shown below:

For example:

Key-in: **sum -sysv ipmpa.4.5**

Response: **14626 1646 ipmpa.4.5**

4.2 DATABASE CONVERSIONS

When moving from one release or version to the next, the database is usually automatically converted. Therefore, **do not attempt** to perform a **backup** on an earlier release/version and then do a **reload** on the new release/version. The database structures may not be the same. For safety reasons, do a **backup** on the earlier release/version in case you need to revert back to this release/version. Then upgrade to the new release/version, and do a backup again which will now be the converted database for use with this release/version. Backups and restores should only be used with the same release/version, not across releases or versions.

4.3 SOFTWARE REGISTRATION

The **IPMPA** must be registered when it is upgraded with new software. The **IPMPA** will continue to operate without registration, but **user ports cannot be placed into service until registration is complete**. See the User's Manual for the registration procedure.

4.4 UTILITIES

The current version of the upgrade, backup, and reload utilities are 19.2 respectively. The getinfo, devrep, and setreg utilities have a current revision level of 2.1 respectively. All of the utilities are available by contacting support@trdcusa.com. Please note that the TCP port for the console is 1023.

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4.5 POWER

The **IPMPA** may be powered via -48VDC directly, or via an AC power adapter. In addition, the devices support 802.3af Power over Ethernet. Should a new unit not illuminate it's power LED, review that the power connections.

5 DOCUMENTATION

The current version of the User manual, and this release letter, may be downloaded from the support area of <http://www.trdcusa.com>.

6 HARDWARE WARRANTY

The warranty period for hardware shall be ninety (90) days from the date of shipment from TeleComp R&D or a designated manufacturer. Replacements and repairs are guaranteed for the longer of the remaining original warranty period or 30 days.

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Manufacturer warrants that (a) the SOFTWARE will perform substantially in accordance with the accompanying written materials for a period of ninety (90) days from the date of shipment from TeleComp R&D or a designated manufacturer. Software support is limited to the hours of 9 AM to 5 PM ET Monday through Friday excluding TeleComp R&D observed holidays. Other coverage and extended warranty may be purchased at additional cost. Any implied warranties on the SOFTWARE are limited to ninety (90) days. Some states/jurisdictions do not allow limitations on duration of an implied warranty, so the above limitation may not apply to you.

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