



READ ME FIRST!!

DT-2020i

**Inter-Networking Mediation
Interface**

FOR SAM CONCENTRATORS

PRODUCT / RELEASE NOTES

RELEASE 11.1

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IMPORTANT !!

USER DOCUMENTATION IS AVAILABLE AT OUR WEB SITE.

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

The **DT-2020i** is shipped from the factory with the inslot “magic” jumper **enabled**. This is the normal configuration for the **DT-2020i**. Refer to the **DT-2020i** User’s Manual at <http://www.trdcusa.com> for instructions on changing this factory setting.

Special Installation and Upgrade Procedures

- **Database Conversion** – Release 10.1 and later will convert a DT-2020i database that is on releases 8 through 11.1 inclusive. User’s upgrading their DT-2020is from builds earlier than release 8 will need to use an intermediate release or a conversion failure will result. Conversion failures may require the DT-2020i to be repaired for recovery.
- **IP Address** – Starting with release 10.1, the IP address specified on the Datakit node controller will not overwrite the IP address specified on the DT-2020i.
- **Release Numbers** - Build numbers, beginning with release 10.1, consist of two parts: a release number and version level.
- **Activation Keys** – The DT-2020i, when initially manufactured and delivered to the customer, *may* need a software key to fully activate the software¹. If so, when initially delivered, the equipment can be installed, but the module cannot be restored to service after it is configured until the keys are entered. In addition, when the DT-2020i is upgraded with a new software build, a software key is required to activate the new software. The software initially is placed into a staging area and is not active. However, prior to the information being obtained for mechanized key generation, the device must be rebooted to make the new software active. When the reboot is executed without the new key being installed, the new software will execute, and the device will continue functioning as it did previously. However, no backup , reloads, or upgrades can be performed nor can any OA&M be performed or

¹ It is the intent of the manufacturer, and it’s resellers, to have already installed the key(s) before receipt by the end-customer, so that the software is fully functional.

parameters, such as an IP address, be changed until the key(s) have been installed for the active software. If the module is taken out of service, the module cannot be restored until the new key(s) are installed.

- **Mechanized Key Procedure** – A mechanized key procedure is required starting with release 10.1. The mechanized procedure simplified the key installation and allows many devices to be installed at the same time.
- **Serial Port Upgrade Anomaly** – There is an anomaly when performing the upgrade of a DT-2020i that is using a DTK41 I/O board through it's console serial port. An upgrade via the normal TELNET console is not affected. Should the anomaly occur, the upgrade download will fail. In that event, the –slow option of the upgrade utility is required. The –slow option will require an extended period for downloading, but is a workaround to this anomaly.

1 INTRODUCTION

These release notes highlight the product features, modifications, known caveats and any special considerations for the **DT-2020i** product. For detailed information on this product, reference the **DT-2020i** User's Manual.

2 PRODUCT FEATURES

The **DT-2020i** is a mediation product, which allows the re-use of SAM concentrator endpoints on an IP infrastructure without any BNS equipment presence. The **DT-2020i** provides an integrated solution. It resides in a SAM64 or SAM128 concentrator and supports up to 128 ports. The DT-2020i supports all of the current SAM port options and is compatible with the mediation function of the DT-4000².

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

² The DT-4000 is an internetworking device existing in BNS and IP, ATM, TDM or Frame Relay networks simultaneously. It acts like a SAM16, but supports IP inputs and higher port speeds. The DT-4000 communicates via Frame Relay, ATM, TDM or IP across the backbone network and becomes a stand-alone edge device in non-BNS networks.

3 RELEASE CHANGES

3.1 RELEASE 11.1 ERRATA

- Support for TACACS+ RADIUS servers is added. Two servers are supported, a primary and a secondary. Non-standard TCP ports are fully supported. Each server may be individually enabled. The syntax is as follows:

**Syntax: tac < PRI | SEC > [ipaddr=<IP Address>]
[port=<TCP Port>]
[key="Encryption Key" | NONE]
[ENABLE]
[DISABLE]**

- The BANNER page has been added with up to 24 lines of 80 characters each. The syntax is as follows:

Syntax: banner [clear] [L#="Line # Message"]

- A correction is implemented to the TCP that prevents the potential for some additional packets at connection teardown.
- The console timeout has semantic changes where the number of units specified is now in minutes. This was formerly seconds. The valid range is 1 through 255 minutes, or approximately 4 hours and 15 minutes. The SNMP agent has been updated to include protections from malicious attack. It should also be noted that access to the the SNMP agent can be restricted by closed user groups.

3.2 RELEASES PRIOR TO 11.1

Contact support@trdcusa.com with specific questions on releases older than 11.1.

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 dt_2020i.11.1**
Response: **44771 1403 dt_2020i.11.1**

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 **DT-2020i** must be registered when it is upgraded with new software. The **DT-2020i** 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 19.1 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 **DT-2020i** is powered via the SAM backplane. For planning purposes, a maximum consumption of 20 Watts is to be used. This is a worse case value. The actual power consumption will be substantially less than the planning value. -48VDC or 5VDC via an AC power adapter.

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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