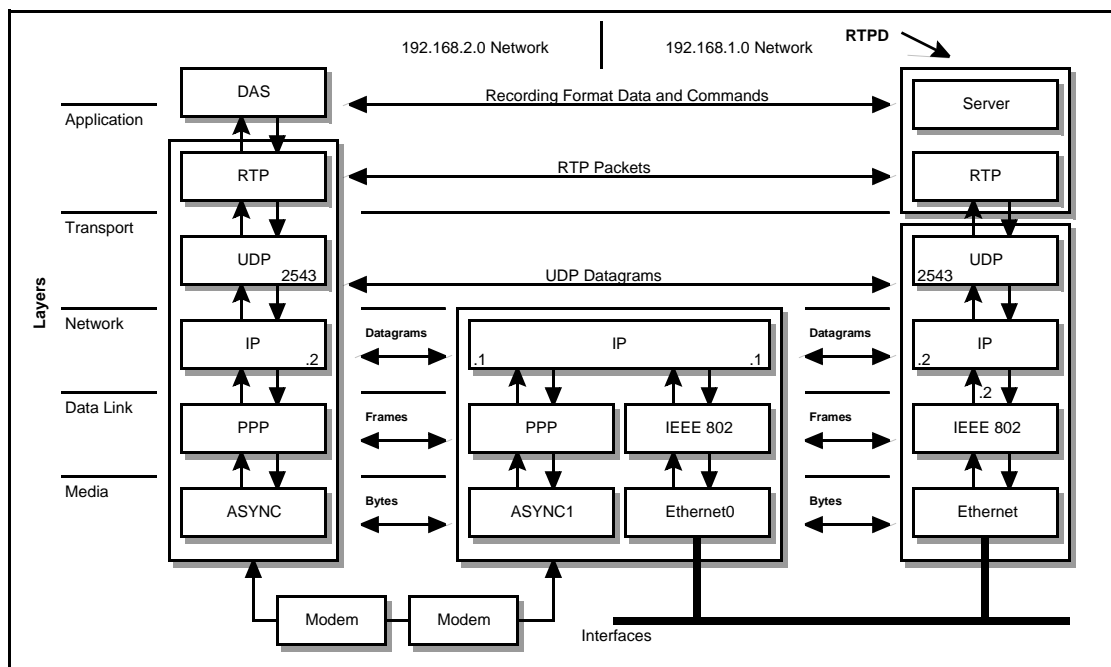




Refraction Technology™

RTPD Release Notes: Version 1.10.6



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This document is located at: M:\130\USER\RTPD\rtpdRN.book

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Update Notification

You can receive E-mail notification of updates by subscribing to one of the REF TEK 130 notification lists.

To subscribe:

- 1 Send an E-mail to listserv@reftek.com with one of the following in the body of the message: "subscribe <listname> <your name> where <list name> is one of the entries in the following table and <your name> is replaced by your name.
- 2 For the REF TEK 130 Data Acquisition System (130) product use `rt_130`.

DAS	<listname>	example
130	rt_130	subscribe rt_130 tom smith
130_ANSS	rt_130_anss	subscribe rt_130_anss john doe
130_SM	rt_130_sm	subscribe rt_130_sm mike smith
130-SMA	rt_130_sma	subscribe rt_130_sma tom smith

- 3 Your E-mail address is automatically extracted from the header of the E-Mail you send.
- 4 To obtain updates from our FTP site:

For REF TEK software, firmware, and documents:

[1] Login to our FTP site at: **`ftp.reftek.com\pub`**

[2] User name: **Anonymous**

[3] Password: **Your E-mail Address**

Revision History

Rev	Date	Reason for change	Affected Pages
A	02/06/03	RTPD Release Notes: Version 1.10.3 - February 06, 2003	All
	05/23/03	RTPD Release Note: Version 1.10.4 - May 23, 2003	All
	01/08/04	RTPD Release Note: version 1.10.5 - January 8, 2004	All
	10/08/04	RTPD Release Note: Version 1.10.6 - October 08, 2004	All

Notation Conventions

The following notation conventions are used throughout Ref Tek documentation:

Notation	Description
ASCII	Indicates the entry conforms to the American Standard Code for Information Interchange definition of character (text) information.
Binary	Indicates the entry is a raw, numeric value.
Hex	Indicates hexadecimal notation. This is used with both ASCII characters (0 – 9, A – F) and numeric values.
BCD	Indicates the entry is a numeric value where each four bits represents a decimal digit.
FP n	Indicates the entry is the ASCII representation of a floating-point number with n places following the decimal point.
< n >	Indicates a single 8-bit byte. When the contents are numeric, it indicates a hexadecimal numeric value; i.e. <84> represents hexadecimal 84 (132 decimal). When the contents are capital letters, it represents a named ASCII control character; i.e. <SP> represents a space character, <CR> represents a carriage return character and <LF> represents a line feed character.
MSB	Most Significant Byte of a multi-byte value.
MSbit	Most Significant Bit of a binary number.
LSB	Least Significant Byte of a multi-byte value.
LSbit	Least Significant Bit (bit 0) of a binary number.
YYYY	Year as a 4-digit number
DDD	Day of year
HH	Hour of day in 24-hour format
MM	Minutes of hour
SS	Seconds of minute
TTT	Thousandths of a second (milliseconds)
IIII	Unit ID number
n, nS	nano, nanoSecond; $10^{-9} = 0.000000001$
u, uS	micro, microSecond; $10^{-6} = 0.000001$
m, mS	milli, milliSecond; $10^{-3} = 0.001$
K, KHz	Kilo, KiloHertz; $10^3 = 1,000$
M, MHz	Mega, MegaHertz; $10^6 = 1,000,000$
G, GHz	Giga, GigaHertz; $10^9 = 1,000,000,000$
Kb, KB	Kilobit, KiloByte; $2^{10} = 1,024$
Mb, MB	Megabit, MegaByte; $2^{20} = 1,048,576$
Gb, GB	Gigabit, GigaByte; $2^{30} = 1,073,741,824$

Related Manuals:

130-01 System Documents	Number	PDF file
130-01 System Startup	1301-SYS-001	130_startup_01.pdf
PFC_130 Users Guide	130-PFC-001	130_pfc.pdf
REF TEK Utilities Users Guide	UTILS-OP-002	130_utilities.pdf
130 Theory of Operations	130-SYS-002	130_theory.pdf
130 PFC Release Notes	130-RN-001	130_PFCRN.pdf
130 CPU Release Notes	130-RN-002	130_CPURN.pdf
130 Command Reference	130-CR-001	130_command.pdf
130 Recording Format	130-RF-001	130_record.pdf
130-GPS/01	130-TR-003	gps01.pdf
130-01 Board Documents	Number	130_techr_01.pdf
RT505 - A/D Board	130-RT505	RT505r.pdf ^a
RT506 - CPU Board	130-RT506	RT506r.pdf
RT520 - Lid Interconnect Board	130-RT520	RT520r.pdf
RT526 - MicroDrive/Flash Board	130-RT526	RT526rB01.pdf
RT527 - Sensor Control Board (optional)	130-RT527	RT527rB01.pdf
RT535 - Mass Memory Board	130-RT535	RT535rB01.pdf
Optional Manuals	Number	PDF file
SNDP Installation and Users Guide	SNDP-OP-003	SNDPUser.pdf
SNDP Reference Guide	SNDP-S-002	SNDPRef.pdf
RNC2 Installation Guide	RNC2-OP-006	RNCinstallation.pdf
RNC2 Users Guide	RNC2-OP-007	RNC2user.pdf
RTPD Installation and Users Guide	RTPD-OP-005	RTPD.pdf
RTP Protocol	RTP-S-004	RTP.pdf
131A-01/3 Standard Triaxial Accelerometer	131A-TR-004	131A.pdf
131A-01/2 Low Noise Triaxial Accelerometer		
131A-01/1 Uniaxial Accelerometer	131A-TR-005	131A011.pdf

a. r = Revision level of 130 Board

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Appendix A

RTPD Release Notes

A.1 Version 1.10.6 (October 08, 2004)

This section of this manual lists and describes the functional modifications made to the Ref Tek RTPD software version 1.10.5 to create version 1.10.6, as follows:

1. Correction to Handling of Lone ET packet
2. Addition of Log Messages for Write Errors
3. Correction to use of Mutex for syslogd

Please review all release notes between the firmware version you are running and the version you wish to install.

1 Correction to Handling of Lone ET packet

Previously, the file name for an event was only constructed when an EH or DT packet arrived. Therefore, if an ET packet arrived, with no previous EH or DT packets, no filename would exist for the event, an error would occur upon opening the file, and the archiver would shutdown. A correction was made to ensure that the filename is constructed on an ET packet if the name does not exist. Therefore, the archive will not be shutdown if it receives a lone ET packet

2 Addition of Log Messages for Write Errors

Additional messages were added to give more information upon any write error. For example , the filename and path of the file trying to be written are output.

3 Correction to use of Mutex for syslogd

A mutex is unlocked only when not using syslogd.

A.2 Version 1.10.5 (January 08, 2004)

This section of this manual lists and describes the functional modifications made to the Ref Tek RTPD software version 1.10.4 to create version 1.10.5, as follows:

1. Correction to Handling of Unit ID

<p>Please review all release notes between the firmware version you are running and the version you wish to install.</p>

1 Correction to Handling of Unit ID

A correction was made to ensure proper handling and display of Unit ID numbers from 72A series DAS units as well as the 130 series DAS units.

A.3 Version 1.10.4 (May 23, 2003)

This section of this manual lists and describes the functional modifications made to the Ref Tek RTPD software version 1.10.3 to create version 1.10.4, as follows:

1. Correction to RTP Library Log Functions
2. Correction to RTP Library Internal Variable
3. Correction to RTPD Log File
4. Update of RTPC
5. Update of CHKDATA
6. Addition of RTPID Program

<p>WARNING: Please review all release notes between the software version you are running and the version you wish to install.</p>
--

1 Correction to RTP Library Log Functions

Corrections were made to several functions in the RTP library related to log file creation and handling.

2 Correction to RTP Library Internal Variable

A correction was made in the declaration of an internal variable in one of the RTP library routines. The incorrect declaration caused unpredictable behavior under Solaris 9.

3 Correction to RTPD Log File

Corrections were made to ensure that the program name is properly included in the RTPD.LOG file.

4 Update of RTPC

RTPC was rebuilt due to modifications in the RTP library.

5 Update of CHKDATA

CHKDATA was rebuilt due to modifications in the RTP library.

6 Addition of RTPID Program

A new program was added to the RTPD distribution for all supported platforms. RTPID connects to RTPD and monitors incoming transmissions. When it detects that a 130 DAS has not communicated for a designated time out period, it issues an ID request through RTPD. It stops monitoring a particular DAS after 5 unanswered requests.

A.4 Version 1.10.3 (February 06, 2003)

This section of this manual lists and describes the functional modifications made to the Ref Tek RTPD software version 1.10.0 to create version 1.10.3, as follows:

1. Correction to Resolve Protocol Errors
2. Correction to Unit ID Numbers in Log File
3. Modification to Start Behavior for Invalid Switch
4. Modification to Require Log File
5. Modification to Default Location of RTPD.INI (Windows only)
6. Addition of RTPD.INI Location Option to Help Screen
7. Addition of Current Directory to Log File
8. Addition of RTPD.INI Location to Log File
9. Addition of Command Line to Log File

<p>WARNING: Please review all release notes between the software version you are running and the version you wish to install.</p>
--

1 Correction to Resolve Protocol Errors

Corrections were made to resolve the occurrence of protocol errors. Protocol errors occur when RTPD detects invalid sequence numbers for the incoming packets. In some cases, RTPD was getting confused when packet errors occurred.

2 Correction to Unit ID Numbers in Log File

Corrections were made to ensure that Unit ID numbers for 72A DAS instruments are entered properly in the RTPD.LOG file.

3 Modification to Start Behavior for Invalid Switch

RTPD was modified to display the help screen and shut down if an invalid command line switch is detected. Previously, RTPD ignored the error and continued.

4 Modification to Require Log File

RTPD was modified to shut down and output an error message if it cannot open its log file on start up.

5 Modification to Default Location of RTPD.INI (Windows only)

The default location of the RTPD.INI file under Windows was changed from C:\REFTEK to the directory containing the executable program (rtpudpsvc.exe or rtpudpcon.exe). (The location of RTPD.INI can be overridden by a command line option.)

6 Addition of RTPD.INI Location Option to Help Screen

The command line option for specifying the location of the RTPD.INI file was added to the help screen. This option has been available, but was left off the help screen.

7 Addition of Current Directory to Log File

The current working directory is now logged to RTPD.LOG when RTPD starts.

8 Addition of RTPD.INI Location to Log File

The location of RTPD.INI is now logged to RTPD.LOG when RTPD starts.

9 Addition of Command Line to Log File

The command line invocation of RTPD is now logged to RTPD.LOG when RTPD starts.

