

# RTM Manager System Guide

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#### RTM Manager Startup

To start up the connections between the RTM units, and the manager you will need to run the following

On each managed RTM unit:

- 1. C:\Program Files (x86)\Video Clarity\RTMonitor\RTMserver
- 2. C:\Program Files (x86)\Video Clarity\RTM manager\start\_rmserv

On the RTM Manager unit:

- 1. C:\Program Files (x86)\Video Clarity\ClearView\StartCVserver
- 2. C:\Program Files (x86)\Video Clarity\RTM manager\start\_rm

## RTM Manager Configure

Configuration is managed via a browser interface. Log into this interface hosted by the RTM Manager unit. For example,

Log in   Django site admin	<del>،</del> (+				÷			x
( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	next=/admin/ 🔍	C C Search	☆ 自	÷		2. T	ø	≡
	RTM Manae Username: admin Password: •••••	ger setup Log in						

At the site administration page, select "Rtms"



If units have already been configured, you should a page similar to

▼ C Search	☆ 自 🔸	<b>⋒ ≉ - ⊝</b> ≡
	Welcome, admin.	Change password / Log out
		Add rtm +
Search		
0 of 2 selected		
Ipaddr	Desc	Monitor
192.168.1.116	Demo	0
192.168.1.92	Demo	0
	▼ C Q Search Search 0 of 2 selected Ipaddr 192.168.1.116 192.168.1.92	▼ C Q. Search     Welcome, admin.     Velcome, admin.     Search     0 of 2 selected     Ipaddr   192.168.1.116   Demo     192.168.1.92

This page above indicates that 2 RTM units have been configured with specific IP addresses. To add a new RTM unit, select the "Add rtm +".

To change an existing configuration, select the name of the RTM to change. For example, to change the IP address for RTM-1RU6:

### Individual RTM Configuration

Change rtm   Dj	ango site admin 🗙 +			_ <b>D</b> X
€ € 192.168.1	.188/admin/rm/rtm/RTM-1RU6/	▼ C Q Search	☆ 自 🕹 🎓 🦗	- @ =
RTM Manag	ger setup		Welcome, <b>admin</b> . Change passwo	ord / Log out
Home > Rm > Rtm	IS > RTM-1RU6			_
Change r	tm			History
Name:	RTM-1RU6			E
Ipaddr:	192.168.1.92			
Desc:				
Demo			.::	
Monitor				
Online:	0			
Runtime:	00:03:05:06			
Video	0			-

Enter a new description or IP address field. To save the new configuration scroll to the bottom of the page and select "Save".

### RTM Manager Status

9
(nput2 nvalid/ ropped
/ 0

To display the status page, select

This indicates that RTM-1RU6 is responding to the RTM manager, while RTM-1RU9 is not. Status is checked periodically and automatically updated from within the browser. The status page need not be manually reloaded.

For each managed RTM unit, manager gathers RTM status logs, RTM metric files, and RTM impairment files, and stores these on the RTM manager unit. For example,

### Viewing RTM impairments, metrics, and status

organize 👻 Include in library	<ul> <li>Share with </li> <li>New folder</li> </ul>				8≣ ▼	
Pictures	^ Name	Date modified	Туре	Size		
Videos	impairments	3/12/2015 6-52 PM	File folder			
	metrics	3/15/2015 8:15 AM	File folder			
🖏 Homegroup	status	3/12/2015 4:12 PM	File folder			
Computer						
KTM-S1081 (C:)						
Apache24						
F-Drive						
FTP_Root	E					
🎉 inetpub						
🌛 Intel						
🍌 PerfLogs						
Jeri64						
Program Files						
Program Files (x86)						
Python3						
🎉 rtms						
🍶 src						
Ilcere						

A impairments, metrics, and status folder will be created for each of the RTM's connected to the manager. The individual folder location is F:\rtms.

			, , )	
rganize 👻 Include in library 👻	Share with   New folder			III - 🔟
🌉 RTM-S1081 (C:)	Name	Date modified	Type Size	
퉬 Apache24	tmp.	3/12/2015 6:52 PM	File folder	
F-Drive	Beturn 2015 03 12 17 50	28 3/12/2015 6:52 PM	File 527 400 KB	
FTP_Root	Return 2015 03 12 17 50	28.aud 3/12/2015 6:52 PM	AUD File 62.712 KB	
🎍 inetpub	Return 2015 03 13 10 02	2 09 3/13/2015 11:03 AM	File 432.000 KB	
Jintel	Return 2015 03 13 10 02		AUD File 50,049 KB	
PerfLogs	Return_2015_03_13_15_42	2_09 3/14/2015 4:19 PM	File 1,620,000 KB	
Peri64	Return_2015_03_13_15_42	2_09.aud 3/14/2015 4:19 PM	AUD File 182,910 KB	
Program Files	sequences	3/13/2015 4:49 PM	File 100 KB	
Program Files (x86)	sequences.000	3/12/2015 6:52 PM	000 File 34 KB	
Python3	sequences.001	3/13/2015 11:03 AM	001 File 67 KB	
	=			
Iren				
Windows				
New Volume (D:)				
Extra Storage (E:)				
1111 Intel 480 (F:)				
📕 rtms				
WindowsImageBackup	-			

#### Impairments

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🌀 🍚 🗣 🕨 🕨 Computer 🕨 Intel	480 (F:) ▶ rtms ▶ RTM-1RU6 ▶ status ▶		<b>▼</b> 4 <sub>7</sub>	Search status			2
Organize 👻 Include in library 👻	Share with 👻 New folder						•
🏭 RTM-S1081 (C:)	^ Name	Date modified	Туре	Size			
Apache24	AudioAlign.log	3/15/2015 11:44 AM	Text Document	25 KB			
F-Drive	AudioAvg.log	3/15/2015 11:44 AM	Text Document	132 KB			
FTP_Root	LKFS.log	3/15/2015 11:44 AM	Text Document	30 KB			
inetpub	PsnrAvg.log	3/15/2015 11:44 AM	Text Document	53 KB			
intel De C	RTMLog.log	3/15/2015 10:57 AM	Text Document	11 KB			
Perilogs	🔒 status.zip	3/15/2015 11:44 AM	Compressed (zipp	28 KB			
Breeram Eiler							
Program Files (v86)							
Python3							
it rtms							
src	E						
Users							
Windows							
👝 New Volume (D:)							
👝 Extra Storage (E:)							
10 Intel 480 (F:)							
🎉 rtms							
🎉 WindowsImageBackup	*						
6 items							



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🔾 🗢 📕 🕨 Computer 🕨 Intel	480 (F:) + rtms + RTM-1RU6 + metrics +		• 4 <sub>7</sub>	Search metrics			Q
Organize 👻 Include in library 👻	Share with 👻 New folder				855	-	•
RTM-SL081 (C:)     Apache24     FTP_Root     FTP_Root     Intepub     Intel     PerfLogs     PerfG4     Program Files     Program Files     Program Files     Vorgram Files     Sec     Users     Users     Verrolows     New Volume (D:)     Extra Storage (E:)     Intel     Merical All (D:)     Intel     Intel	Name metrics.zip Source_2015_03_12_17_50_28.psnr Source_2015_03_13_10_02_09.psnr Source_2015_03_13_15_42_09.psnr	Date modified 3/15/2015 8:15 AM 3/14/2015 12:54 PM 3/14/2015 12:54 PM 3/15/2015 8:15 AM	Type Compressed (zipp PSNR File PSNR File PSNR File	Size 10 KB 28 KB 23 KB 83 KB			
4 items	*						



### **RTM Scheduler**

RTM scheduler is a tool that generates a sequence of RTM server commands according to a schedule defined by an input text file.

The input file is assumed to be called 'rtmcron.tab', and must be located in the same directory as the RTM Scheduler tool itself. The input file is tab-delimited, containing fields for :

- Date and time to launch the command sequence
- The IP address for the target RTM unit
- ";" -delimited sequence of RTM commands

If the input file is modified while the tool is running, the schedule is regenerated internally as the tool continues execution.

Rows may specify a "daily" schedule. This indicates that the corresponding commands should be invoked at the specified time each day.

Rows may specify an "hourly" schedule. This indicates that the corresponding commands should be invoked at the specified time each hour of each day.

#### Running the Scheduler:

To start the tool, use Windows Explorer to select the tool. This will open a command window that also captures log status. Alternatively, the tool may be invoked directly from a command window. Status for all runs is logged in rtmcron.txt

The tool continues to execute as long as there exists RTM commands scheduled sometime in the future. If the input text file contains line starting wither "daily" or "hourly", the tool continues to run until it is manually stopped.

Administrator: Command Prompt - "\Program Files (x86)\Video Clarity\RTM scheduler\rtmcronexe"	
Microsoft Windows [Version 6.1.7601] Copyright (c) 2009 Microsoft Corporation. All rights reserved.	
C:\Users\Tim>"\Program Files (x86)\Video Clarity\RTM scheduler\rtmcron.exe" 2015-03-02 16:25:41,327 [INFO] Starting 2015-03-02 16:25:41,329 [INFO] Processing 2015-03-02 16:25:41,329 [INFO] Waiting 258 seconds to launch {'cmdstr': 'status;	
stop;configinputip 1 231.1.1.1 1111 uďp 1;start', 'date': 'hourly', 'time': '30: 00', 'start': datetime.datetime(2015, 3, 2, 16, 30), 'ipaddr': '127.0.0.1'}	
	Ŧ

#### Example 1

rtmcron.tab - Notepad		
File Edit Format View Help		
<pre># Sample tab(s)-delimited input file fo # Date HH:mm:Ss IPaddr 2015-02-11 07:30:04 127.0.0.1 2015-02-12 09:33:02 127.0.0.1 2015-02-12 11:12:01 127.0.0.1 daily 12:00:00 192.168.1.35 hourly 30:01 192.168.1.35 hourly 30:01 127.0.0.1</pre>	or rtmcron RTM commands version;boardtemp status boardtemp status status	*
		*

In this example three sets of commands will be sent at a specific date, and time. One command to check board temperature will be sent daily, and the status of two RTM's will be checked hourly.

#### Example 2

rtmcron.tak	b - Notepad		
File Edit F	ormat View Help		
# Change u # Date daily hourly hourly hourly hourly hourly hourly	ormat view Heip inicast every 10 min HH:mm:ss 00:00:01 00:00 10:00 20:00 30:00 40:00 50:00	utes IPaddr 127.0.0.1 127.0.0.1 127.0.0.1 127.0.0.1 127.0.0.1 127.0.0.1 127.0.0.1	RTM commands version;versiondate status;stop;configinputip 1 231.1.1.1 1111 udp 1;start status;stop;configinputip 1 232.2.2.2 2222 udp 1;start status;stop;configinputip 1 233.3.3 3333 udp 1;start status;stop;configinputip 1 231.1.1.1 1111 udp 1;start status;stop;configinputip 1 232.2.2.2 2222 udp 1;start status;stop;configinputip 1 233.3.3 3333 udp 1;start

In this example the scheduler is telling RTM to switch unicast addresses every 10 minutes. A series of commands is separated by semicolons to check the status, stop RTM, configure the new input, then start back up again.