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# Delta Media Server DeltaMonitor

User Guide





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# **DeltaMonitor: Overview**

DeltaMonitor is a single utility used to manage the Delta Media Server front panel, network connections and graphic settings for a Delta Media Server system (Infinity, Nucleus, Proton, Nano). R-Series servers, introduced in 2023, running Delta do not use DeltaMonitor.

The Utility has two separate interfaces, a dialog window local to the server itself and via Delta Web Service, accessed via a web browser.



The **Dialog interface** is accessed from the notification icon in the system tray on the windows task bar: to open, right click this icon and select 'Show' from the menu.

Some functionality is only available in the dialog window: these capabilities are primarily for engineering tasks and are not intended for most users. The dialog window is designed to give some basic information and functionality, although the majority of DeltaMonitor's capabilities are accessed from the web interface.

Delta Web Service can be accessed via two methods:

- Right click on the DeltaMonitor icon in the Windows notification tray, and select 'Launch Web Interface' from the menu.
- Click the 'Launch DeltaMonitor Web' link on the DeltaMonitor dialog window.

Delta Web Service has more status information and functionality. It is designed for users with a varied technical knowledge. The display page should be where users set up first set up their systems, once set up, the display settings should not need to be changed again unless their display setup changes.

# **DeltaMonitor Dialog**

The DeltaMonitor dialog provides some status information on the Delta server.



### **Front Panel**

Indicates whether the LED front panel on the front of all Delta servers is connected successfully or not.

### Control of Delta (via Ethernet) (older versions of DeltaMonitor only)

Indicated whether the LED front panel has a connection to the DeltaServer software and is able to control Delta. This is required for transport control.

### Launch DeltaMonitor web

Provides a link to <u>DeltaMonitor Web</u>

### Minimize DeltaMonitor

Minimizes DeltaMonitor to the notification tray in the taskbar, this is the default state for the system.

### **Close DeltaMonitor**

Kills the application and will also stop driving the server's front panel.

**Note**: Click the windows close (X) Button will minimize rather than kill the application, as this is the default state.

For Delta server front panel controls, see the <u>Delta Server Front Panel User Guide</u>.

# Service Mode

This main menu item appears only, and first, on Nano servers with Windows embedded.

DeltaMonitor > Service Mode > Enable/Disable

This feature is only for embedded systems to allow them to be put into 'Service Mode'. Service Mode allows the user to make changes to the systems configuration or setup.

# **Edit: Preferences**

DeltaMonitor > Edit > Preferences

The preferences menu provides controls for some of the configurable settings within DeltaMonitor.

# **DeltaMonitor Dialog**

Preferences	Х
Please select CommPort used by Front Panel	
☐ Ignore Delta ☐ Show Alerts	
[	

### **Front Panel Com Port Selection**

Allows the user to select the Com Port which Delta Monitor will attempt to communicate to the LED front panel via. The drop down list is populated with all active comports, and Delta Monitor will always default to Com Port 77.

### Ignore Delta

DeltaMonitor communicates between the DeltaServer software and the Media Server front panel. If you have rolled back to an older version of DeltaServer from a time when Media Servers did not have a matrix orbital front panel, the front panel will not be able to communicate with DeltaServer. DeltaMonitor, not knowing that DeltaServer is running, will fall into a red 'alert' display. This option stops DeltaMonitor listening to the DeltaServer software on this server, and prevents the apparent error state from showing. A default message is displayed instead.

### **Show Alerts**

Users can select this option to allow visual indications of incoming external controls. When external controls are received the front panel will change to a different block colour dependent on which control was received.

No alert:	Black
Play:	Green
Stop:	Red
Rewind:	Cyan
Forward:	Cyan
Cue Alert:	Orange
External Control Alert:	Purple
Marker Alert:	Light Cyan

# Service Menu

FrontPanel Service	Menu	×
	Program Default 7th Delta Startup Screen	
[	Custom Startup Screen	
	Restart Delta	
	ОК	

### Program Default 7thDelta Start up Screen

allows the user to program the Matrix Orbital with the default 7thSense start up screen.

### **Program Server Serial Number**

functionality for 7thSense engineers only, allows the server serial number to be recorded. This functionality is password protected.

### **Restart Delta**

kills and restarts DeltaServer application.

# **Registry Tools**

Some legacy Delta systems may have been running a Delta version in 32-bit. To ensure all Delta settings are not lost when transitioning between Delta versions, DeltaMonitor provides the facility to copy the registries between 64- and 32-bit.

This functionality should only be carried out by a 7thSense engineer or under the instruction of one. For this reason the functionality is password protected.



# **DeltaMonitor Web**

Any networked DeltaMonitor can be addressed remotely by browser at:

http://[serverIP]/api/deltamonitor/

Or from the server itself, you can 'Launch Web Interface' as localhost from the system tray icon, or right-click the icon to 'Show' and 'Launch DeltaMonitor Web' from the DeltaMonitor window:



Note the build number on the top right, since not all controls are available in earlier versions.

There are three tabs. **Summary** is the same as in <u>Delta Web Service</u> > DeltaMonitor > Summary:

Delta Monitor			
Summary         AMD Display         Server Control         Delta Monitor 3.0 Build 34 Beta			
Delta Front Panel			
Top Left       Top Left         I       P       I       I       O       I			
Server Serial Number : 2901			
Current Show File : c:\shows\sintel.xml Timing : Automatic			
Group : 63 (Leader) Audio : 8 (7.1) (8 Channels)			
Delta Server App IP Address : 10.100.101.227 Delta Licenced : Yes			
Mode : Stop Service Mode : No			
Delta Ethernet Configuration			
Host Name : Delta2901			
Adapter 1: 10.100.101.227 (Static)			
Adapter 2: 127.0.0.1 (Static)			
Adapter 3: (Static)			
External Control TCP Port : 23			
External Control UDP Transmit Port : 7781			

**Server Control** is the same as in <u>Delta Web Service</u> > DeltaMonitor > Control:

Delta Monitor			
Summary AMD Display Server Control	Delta Monitor 3.0 Build 30 Beta		
Server Configuration			
Default Graphics Profile:	Use Customer Server Name		
Default.xml 🔻	Customer Server Name:		
Check Graphics Profile:	Enter Customer Server Name		
Off	Front Panel Default Page:		
On Boot Time Delay: 5 Seconds	Main 🔹		
0 120	Front Panel Backlight		
Polling Interval: 1 Minutes			
1 10			
Poll Genlock			
	H Save Settings		
Server Control			
WARNING: Any unsaved changes in Delta will be lost with these operations.			
Kill Det	ta Application		
Kill and Restart Delta Application			
Restart Server			
Shutdown Server			

The **Display** tab shows any installed GPUs, e.g. AMD / NVIDIA, and is the same as in <u>Delta Web</u> <u>Service</u> > *DeltaMonitor* > *Display*:

Delta Monitor	
Summary AMD Display Server Control	Delta Monitor 3.0 Build 30 Beta
Display Profile	
Current Profile: default*	Save Profile
AMD Driver Version: 15.301-160403a-301263E-Retail	
Advanced System Details	
EDID Management	
AMD Display Grouping	

## **External Control Commands**

These commands can be used as calls on any networked server directly to DeltaMonitor, producing the returns and/or actions as shown below.

### **Status**

http://[serverIP]/api/deltamonitor/server/status

### Returns:

```
{
    "data" : {
        "status" : {
            "isembedded" : "no",
            "servicemode" : "no"
        }
    }
}
```

### **GPU Temperature**

http://[serverIP]/api/deltamonitor/server/gputemp

Returns a JSON object containing a list of the gpus in the server and their temperatures:

```
{ "GPUS": [{"GPU_Id" : 0, "Temperature": 50}, {"GPU_Id" : 1,
"Temperature": 49}]}
```

### **Server Restart**

http://[serverIP]/api/deltamonitor/server/restart

Restarts the server. Returns:

"restart"

### Server Shutdown

http://[serverIP]/api/deltamonitor/server/shutdown

Shuts down the server. Returns:

"shutdown"

### **Server Status**

```
http://[serverIP]/api/deltamonitor/delta/status
```

Returns JSON data about Delta Server:

```
"data" : {
      "audio" : "2 (Stereo) ASIO",
      "audionumchannels" : 2,
      "cache" : 0,
      "chaseltc_tl1" : 0,
      "currentshow" : "default.xml",
      "deltaip" : "10.100.101.85",
      "dvisdi" : "Gfx: DVI",
      "externalcontroltcp" : 23,
      "externalcontroludprx" : 7780,
      "externalcontroludptx" : 7781,
      "graphicsheight" : 1080,
      "graphicsrefresh" : 60,
      "graphicswidth" : 1920,
      "group" : 1,
      "is32bit" : false,
      "isembedded" : false,
      "isstereo" : 0,
      "lastexternalcontrolmsg" : "fullstatusjson",
      "licenced" : 0,
      "leader" : 1,
      "mode_tl1" : "Stop",
      "rendermode" : "Flat",
      "serverinfo" : "DESKTOP-S1892E3 (Leader)",
      "serversingroup" : 1,
      "timelineframerate" : 30,
      "timing" : "Automatic",
      "version" : "2.5 Build 36 Release "
  }
```

## Kill Delta

http://[serverIP]/api/deltamonitor/delta/killDelta

Closes Delta Server. Returns:

"killDeltaApp"

### **Kill Delta and Restart**

http://[serverIP]/api/deltamonitor/delta/killandrestart

Restarts Delta Server. Returns:

"killandrestart"

### **DeltaMonitor Version**

http://[serverIP]/api/deltamonitor/version

Returns the current Delta Monitor version:

"{"major":"3","minor":"0","patch":"Build 28 Nvi-Beta"}"

## **Program Defaults**

http://[serverIP]/api/deltamonitor/frontpanel/programdefaults

Equivalent to clicking the 'program defaults' button in the service menu. Returns JSON:

"{Status: "Successful"}"

### **JSON DeltaMonitor Profile**

http://[serverIP]/api/deltamonitor/helpjson

Returns a JSON list of all the available urls and their input details:

```
{
   "data" : {
      "availableurls" : {
        " 0" : [
            {
               "url" : "/frontpanel/left"
            },
            {
               "inputdetails" : "None"
            }
         ],
         " 1" : [
           {
               "url" : "/frontpanel/right"
           },
            {
               "inputdetails" : "None"
        ],
           .....
         "34" : [
            {
               "url" : "httpGetGraphicsProfiles"
```



# Help

### Help > About

Displays a dialog window showing the DeltaMonitor version.

About D	eltaMonitor	×
	DeltaMonitor 3.0 Build 34 Beta Copyright (C) 7thSense Design 2015 Fingerprint ID: d186ef5 Fingerprint Date: 20191215	OK

From version 3.0 Build 34 (and Delta 2.6.74), a version 'fingerprint' has been added for precise version identification.

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May 2018	4	3.0.26	Edited and updated	Andie Davidson
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