

# **BCD Harmonize Plug-in Configuration Guide**

# **Compatibility**

- The Harmonize iDRAC plugin is compatible with XProtect 2020 R3
- iDRAC 9w / Lifecycle Controller 3.36.36.36
- iDRAC Virtual Console will require an iDRAC Enterprise License
- The XProtect Event Server service will need to be running under a user account
- that is an admin on the server machine in order to get some of the data points
- The Windows username and password configured on the Harmonize custom

entity requires access to the WMI platform on the server

• You can test the connection by running the Windows Management Instrumentation Tester

• The account needs read privileges to the "root\cimv2" namespace

mespace:	nent instrumentatio	n vester	Connect
			Đit
Vbem Services			
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# Adding An iDRAC Node

Ensure that the HarmonizeInstaller.msi has installed the plugin prior to launching the XProtect Management Client

# Locating The iDRAC Plug-In In The XProtect Management Client

The iDRAC plugin configuration can be found in the XProtect Management configuration tree under the MIP Plug-ins node.





# **Creating An iDRAC Server Node**

Click on the iDRAC Servers element to start the configuration.





Right-click on the iDRAC Servers node, and select "Add New..."





#### A new iDRAC server node will be created.

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### Name

In the Name field, enter a recognizable identifier for the server.

# **Configuration Sections**

#### WINDOWS CONFIGURATION

dows Configuration -	
Host :	
Usemane :	
Password :	

In order to get certain server-telemetry, the iDRAC plugin will need to know the IP address and credentials of a windows user on the iDRAC Windows OS partition on the server.

Host : IPV4 address of the server. Username : Windows username Password : Window password

#### IDRAC CONFIGURATION

iDRAC Configuration	
Host :	
Usemane :	
Password :	
Statue :	Waiting for ip address and credentials

In the iDRAC configuration section, enter the relevant information.

Host : IPV4 address of the iDRAC server.

Username : iDRAC username

Password : iDRAC password

The Status field shows the last known status of the connection to the iDRAC server. When configuring the iDRAC plugin, the status will show

#### Waiting for ip address and credentials



#### **Possible Status Values:**

**Unknown:** No response was received from the Event Server when querying connection status

**Waiting for configuration:** The server has not loaded the iDRAC configuration yet (happens if the event server restarts while Managment Client is running)

**Created:** The server has loaded the iDRAC configuration, and will try to connect momentarily

**Waiting for ip address and credentials:** The iDRAC node has been created on the server, but is waiting for ip address and credentials.

Connecting...: The event server is trying to connect to the iDRAC server

Connected: The event server has connected to the iDRAC server

**Failed to connect to iDRAC node:** No connection to the iDRAC server could be established Authentication failure when connecting to iDRAC: A connection was made, but the credentials were not accepted

**Stopping...:** The event server is stopping the iDRAC connection. This happens when the configuration changes on the event server, or when the event server stops.

**Stopped:** The event server has stopped the iDRAC connection.



# Telemetry

Specify the thresholds for the telemetry values. If a value is determined to be above the threshold, the iDRAC plugin will trigger an event.

Telemetry							
CPU Load :	-						100
Temperature :	1						100
Memory Usage :	i		1				100

CPU Load: The max CPU load value in **percent** of total CPU load. Temperature : Temperature limit in **degrees Celsius**. Memory Usage: Amount of RAM used in **percent**.

## Actions

You can execute actions in the actions section. The section is only enabled when the Status field in the iDRAC Configuration section is "**Connected**".

Autorio -
LED Indicators : O On O Default
Restart Server : Restart

LED indicators:

On : LEDs are on permanently Default: LEDs will blink on activity (default)

#### Restart Server: Reboots the iDRAC server. Be careful when using this function!





## Launching The iDRAC Remote Console

Click "Launch Remote Console" to connect to the iDRAC remote console. The iDRAC plugin will connect to the IP given in the configuration, and pass the credentials to the login page.

Once the page has loaded:

- Select the "Password" field, but do not enter any value, leave the field as-is
- Click the "Log in" button

You are now able to navigate the iDRAC remote console.

# **Saving Your Configuration**

To complete the setup, click the save icon in the top left corner of the XProtect Management Client.



## **Removing An iDRAC Node**

- Right click on the node you want to delete in the XProtect Management Client.
- Select "Delete"
- The node will be deleted, and the Event Server will reload the iDRAC plugin configuration.



# **Events and Alarm Setup**

The iDRAC plugin exposes a number of events that can be used to generate alarms in the Milestone XProtect VMS.

The following events are provided:

- Temperature Above Threshold
- CPU Load Above Threshold
- RAM Load Above Threshold
- Fan Malfunction Event
- Power Supply Malfunction Event
- HDD Malfunction Event
- Network Interface Card Malfunction Event

Events do not trigger alarms w/o addition configuration via the management client.

# Create An iDRAC Alarm

In the management client, locate the Alarm node, and select it.



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#### Right click on the "Alarm Definitions" node, and select "add new ... "



#### A new alarm definition will be created

Alarm Definition	Aiam definition		
Fan	Enable		
HDD Memory	Name:	Alam Definition	
NIC	Instructions:		~ ·
Temperature			
	Tilgger		
I	Triggering event:		Ŷ
I			ų
I	Sources		Select
I	Activation parted		
I	Time profile:	Aways	v
I	O Event based:	Stat.	Select_
I		Sup:	Select
I	Мар		
I	Alarm manager view:		
I	Related map:		÷
I	Operator action required		
	Time imt:	1 minute	Ŷ
	Events triggered:		Select

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In the "Triggering event" dropdown select the iDRAC Events options.

CPU
· · · · · · · · · · · · · · · · · · ·
Access Control Event Categories Analytics Events Device Events External Events Hardware Events
IDEAC Events Recording Server Events System Events System Worldor Events
Transaction events
Step: Select



Once iDRAC Events has been selected, the iDRAC Events will be shown in the dropdown below. Select the type of iDRAC event that should create an alarm.

Alarm Definition Information		
Alarm definition		
Enable:	Ø	
Name:	CPU	
Instructions:		^
		2
Trigger		
-		
Inggenng event:	IDRAC Events	¥
Inggening event:	IDRAC Events	~
Sources:	ORAC Events CPU Load Above Threshold Fan Alam	~
Sources:	IDRAC Events CPUI Load Above Threshold Fan Aam HDD Aam HDD Aam Memory Load Above Threshold	~
Sources: Activation period Time profile:	IDRAC Events CPU Load Above Threshold Fan Alam HDD Alam Memory Load Above Threshold NIC Alam Power Supply Alam Temcerature Above Threshold	~
Sources: Activation period Time profile: D Event based:	IDRAC Events CPU Load Above Threshold Fan Alam HDD Alam Memory Load Above Threshold NIC Alam Power Supply Alam Temperature Above Threshold Start:	v V Select

Once the iDRAC event type has been selected, press the "Select..." button for "Sources".

Triggering event:	IDRAC Events	v
	CPU Load Above Threshold	¥
Sources:		Select





In the Source selection window, pick the relevant iDRAC node(s) and click the Add button. Refer to the Milestone XProtect documentation for details about the selection options.

Bect Sources			
Froups Servers		Selected:	
All IDRAC Servers     DESKTOP-VB0QLLO     IDRAC Servers     IDRAC 1999     New IDRAC monitor	Add Remove	IDRAC 1999	
		OK Can	- M

Then click OK to exit the selection dialog.

Alarm Definition	Alarm definition		
CPU Fan	Enable:		
HDD	Name:	CFU	
NIC	Instructions:		~
Temperature			~
	Tripper		
	Trippering event:	IDRAC Events	¥
	Triggering event:	IDRAC Events CPU Load Above Threshold	× ×
	Triggering event: Sources:	IDRAC Events CPU Load Above Threshold IDRAC 1999	v v Select
	Trippering event: Sources: Activation period	DRAC Events CPU Load Above Threshold DRAC 1999	∨ ∨ Select

For the remaining fields of the alarm, please refer to the Milestone XProtect documentation.

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