

# SupportAssist Collections on Dell EMC's 14th generation of PowerEdge servers

# ABSTRACT

This white paper describes the various options available in the 14th generation of PowerEdge servers for generating and accessing SupportAssist collections across all iDRAC and Lifecycle Controller interfaces. It also provides resources and information required to use the available options in iDRAC and Lifecycle Controller.

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# **EXECUTIVE SUMMARY**

The white paper describes the SupportAssist collection capabilities across various iDRAC interfaces. iDRAC provides the customer and application interfaces for gathering information that enables Dell EMC Technical Support to resolve issues that may occur on your server.

# AUDIENCE

This white paper is intended for a system administrator or a technical support personnel who wants to generate a SupportAssist collection from a 14th generation PowerEdge server for gathering information about the system and system peripherals.

# **INTRODUCTION**

When you call Dell EMC Technical Support for an issue with your server, you would be requested to gather information from the system and send it to Dell EMC for diagnosing and troubleshooting the issue. The SupportAssist feature available on the 14th generation of PowerEdge servers provides the capability to collect system information quickly. As a result, the Technical Support personnel can spend more time on the critical task of analyzing the data to identify a resolution for the issue. This in turn also reduces the average time required for resolving the issue and also the cost of services and support.

The SupportAssist feature is built using the embedded management technologies that were introduced in the 11th generation of PowerEdge servers, and further enhanced in the 12th and 13th generation of PowerEdge servers. Technical Support Report (TSR) introduced in the 12th generation and enhanced in the 13th generation of PowerEdge servers, was the embedded solution that enabled gathering useful system and device information.

In the 14th generation of PowerEdge servers, the TSR solution is re-branded as SupportAssist, and the TSR collection is rebranded as SupportAssist collection. Additionally, features of the SupportAssist Enterprise application such as automated periodic collection, event monitoring, and case creation are also integrated in the SupportAssist feature available on the server.

# SUPPORTASSIST COLLECTION OVERVIEW

SupportAssist Collection contains the following categories of information that are collected from the server, host operating system, and devices that are present on the server.

- System Information (hardware and firmware data, Lifecycle Logs, and chassis logs on modular systems)
- Operating system (OS) logs and application data
- Storage controller logs
- Debug logs

# SUPPORTASSIST COLLECTION PREREQUISITES

- To access any of the iDRAC interfaces, you must have operator or higher-level privileges.
- For collecting OS logs and application data, the following prerequisites must be met:
  - The server must be turned on and running an operating system that is supported by iDRAC Service Module (iSM).
  - iSM must be installed and running on the host operating system (OS). iSM can be installed by using one of the following:
    - Dell Update Package (DUP) available in iDRAC The iSM DUP is factory installed on the iDRAC starting from the 14th generation of PowerEdge servers. The iSM DUP should be present in iDRAC unless LC Wipe or System erase has been performed.
    - o Downloading the iSM DUP available at Dell.com/support and installing it on the host OS.
  - OS Collector (OSC) package must be available in iDRAC. The OSC package is factory installed on the iDRAC. The OSC package should be on the iDRAC unless LC Wipe or System erase has been performed.
    - o If necessary, you can download and install the OSC DUP available at Dell.com/Support.

After the pre-requisites are installed, SupportAssist collection that includes OS logs and application data can be generated and accessed through any of the iDRAC interfaces that are specified in the following sections. For information on specific commands for generating the SupportAssist collection, see the respective interface sections in this white paper.

Note: The SupportAssist feature on the server does not have license restrictions. It is available with a base license.

# **IDRAC GUI**

For generating a SupportAssist collection through the iDRAC GUI:

- 1. Log in to the iDRAC GUI
- Click Maintenance→ SupportAssist. If the server is not registered for SupportAssist, the SupportAssist Registration wizard is displayed.
- 3. Click Cancel→ Cancel Registration.
- 4. Click Start a Collection.
- 5. Select the data sets that you want to include in the collection. Optionally, proceed with the default selections.
- 6. Optionally, select if the data sets need to be filtered for Personally Identifiable Information (PII).
- 7. Select the destination where you want to save the collection.
  - If the server is registered for SupportAssist, the **Send Now** option is enabled. If you select **Send Now**, the generated collection will be uploaded to Dell EMC.
  - To save the collection on the local system, select **Save Locally**.
  - To save the collection on a CIFS or NFS share, select Save to Network.

If you select **Save to Network**, the network details that you provided are saved as defaults (if no prior network share location has been saved) for any collections that are generated later.

The following screen captures illustrate the steps to save the collection on the local system.





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Mainten	ance					
Lifecycle Log	Job Queue	System Update	System Event Log	Troubleshooting	Diagnostics	SupportAssist
i 2%						

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Lifecycle Log	Job Queue	System Undate	System Event Log	Troubleshooting	Diagnostics	SupportAssist

# The following screen captures illustrate the steps to save the collection on a network share.

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Registe	r Start a Collection		System Information	n <b>()</b>			Visit Support Portal
Ormited			🗷 Storage Logs				
Service	Request Summary		OS and Application	Data 🕕			
			💷 Debug Logs 🏾				
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	Data unavaila	ble	Send Now	Save Locally	Save to Network		
			Network Settings		Test network connection	his device.	
			Protocol	NFS .			
Service	Requests Collection Log		IP Address*	10.32.17.89			
			Share Name*	/home/nfs_share			
			Domain Name			Date Onened	
100			UserName			Durit optimite	
الشا			Password			October 12, 2015	
					Cancel Collect		

Integrated Dell Remote Access Controller 9   Enterprise					
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Register Start a Collection		Protocol NFS			Visit Support P
Service Request Summary		IP Address 10.32.17.89			
		Share Name /home/nfs_share			
		Domain Name			
		User Name	ice		
Data unavailable		Password			
			Cancel Collect	s device.	
Service Requests Collection Log Status & Description					
Onan Sama Day Dispatch					
- Open Same Day Disparen					

Integrated Dell Remote Access Controller 9 Enterprise		1.0
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Maintenance	RAC0609: The job has been successfully added to the job queue.	
Lifecycle Log Job Queue System Update System Event Log Troubleshooting	The status of jobs can be viewed on the Job Queue page.	C Refresh
RAC0679: A job operation is already running. Retry the operation after the existing job is comp RAC0679: A job operation is already running. Retry the operation after the existing job is comp	Job Queue Ok	LOD Queue
Register Start a Collection		O Visit Support Portal
Service Request Summary	SupportAssist Overview	
	Service Contract	

Integrated Dell Remote Acc	ess Controller 9 Enterprise		( <b>1</b> • • •
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Job Queue			
🔟 Delete			
	Job		Status
+ 🗊 JID_985712871904	SupportAssist Collection		Running (2%)

Integrated Dell Remote Ac	cess Controller 9   Enterprise	± 0
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Maintenance		
Lifecycle Log Job Queue	System Update System Event Log Troubleshooting Diagnostics SupportAssi	C Refresh
Job Queue		
🛍 Delete		
	Job	Status
+ □ JID_985712871904	SupportAssist Collection	Completed (100%)
Delete           □         ID ∨           +         □         JID_985712871904	Job SupportAssist Collection	Status Completed (100%)

Integrated De	ell Remote Access Controller 9   E	nterprise		1 0
Dashboard	■ System ∨ ■ Storage ∨	Configuration 🗠 🖂	Maintenance V 🐘 💁 iDRAC Settings V	Enable Group Manager 💉
Maintena	ance			anton
Lifecycle Log	Job Queue System Update	System Event Log Troubl	eshooting Diagnostics SupportAssist	C Refresh
Lifecycle Lc	og			▼ Filter <b>7</b> Export
Severity	Date and Time	Message ID	Description	Comments
+ 🛛	2017-06-27 08:52:48	SRV108	The SupportAssist job JID_985712871904 is completed.	2
+ 🛛	2017-06-27 08:52:48	SRV088	The SupportAssist Collection and Export to Network operation is successfully completed	8
+ 🛛	2017-06-27 08:52:46	SRV092	The SupportAssist Collection TSR20170627085235_FZM10Z1.zip is successfully exported to the specified network share.	2
+ 🛛	2017-06-27 08:52:40	SRV098	The SupportAssist Collection operation is completed and the export operation is started.	2
+ 🖸	2017-06-27 08:52:39	SRV096	The SupportAssist Collection TSR20170627085235_FZM10Z1.zip is successfully created.	2
+ 🛛	2017-06-27 08:52:32	SRV007	The SupportAssist System information collection operation is successfully completed.	2
+ 🖸	2017-06-27 08:52:31	LOGODS	The complete Lifecycle Log was successfully created for an export operation.	8
+ 🛛	2017-06-27 08:52:26	SRV022	The SupportAssist OS and Application data collection operation is successfully completed.	8
+ 0	2017-06-27 08:51:53	RAC0401	IDRAC monitor: IDRAC service dsm-sa-snmp service failed to respond, recovering from hung state	8
+ 🛛	2017-06-27 08:48:48	SRV011	The SupportAssist Storage Controller Logs collection operation is completed.	8
+ 🔺	2017-06-27 08:48:48	SRV014	Unable to export Storage Controller Log because the storage controller AHCI Embedded 2-1 present in the server does not support the feature.	8
+ 🔺	2017-06-27 08:48:48	SRV014	Unable to export Storage Controller Log because the storage controller AHCI Embedded.1-1 present in the server does not support the feature.	2
+ 🛛	2017-06-27 08:48:20	LOGOD8	The complete Lifecycle Log was successfully created for an export operation.	2
+ 🛛	2017-06-27 08:48:08	SRV010	The SupportAssist Storage Controller Logs collection operation is started.	2
+ 🛛	2017-06-27 08:48:08	SRV021	The SupportAssist OS and Application data collection operation is started.	2
+ 🛛	2017-06-27 08:48:07	SRV006	The SupportAssist System information collection operation is started.	8
+ 🛛	2017-06-27 08:48:07	SRV001	The SupportAssist Collection operation is started by IDRAC_GUI.	2
+ 🛛	2017-06-27 08:48:07	SRV087	The SupportAssist Collection Job JID_985712871904 is successfully created.	2

# **WSMAN**

This section describes the packets that you can use for generating and retrieving SupportAssist Collections through WSMAN.

# DCIM\_LCService.SupportAssistAcceptEULA()

Note: The End User License Agreement (EULA) must be accepted before you generate a SupportAssist Collection.

To accept the EULA, send the following SOAP packet to the WSMAN service.

#### WSMAN SOAP packet:

```
<?xml version="1.0" encoding="UTF-8"?>
<s:Envelope_xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing"
xmlns:wsman="http://schemas.dmtf.org/wbem/wsman/1/wsman.xsd"
xmlns:n1="http://schemas.dmtf.org/wbem/wscim/1/cim-schema/2/DCIM_LCService">
     <s:Header>
        <wsa:To s:mustUnderstand="true">https://10.94.225.31:443/wsman</wsa:To>
<wsman:ResourceURI s:mustUnderstand="true">http://schemas.dmtf.org/wbem/wscim/1/cim-
schema/2/DCIM_LCService</wsman:ResourceURI>
        <wsa:ReplyTo>
            <wsa:Address
s:mustUnderstand="true">http://schemas.xmlsoap.org/ws/2004/08/addressing/role/anonymous</wsa:A
ddress>
        </wsa:ReplyTo>
        <wsa:Action s:mustUnderstand="true">http://schemas.dmtf.org/wbem/wscim/1/cim-
<wsa:MessageID s:mustUnderstand="true">urn:uuid:699156c1-33db-11e7-8542-
64006a57bb6c</wsa:MessageID>
        <wsman:OperationTimeout>PT120.0S</wsman:OperationTimeout>
        <wsman:SelectorSet>
            <wsman:Selector Name="___cimnamespace">root/dcim</wsman:Selector>
<wsman:Selector Name="SystemCreationClassName">DCIM_ComputerSystem</wsman:Selector>
<wsman:Selector Name="SystemName">DCIM:ComputerSystem</wsman:Selector>
<wsman:Selector Name="CreationClassName">DCIM_ComputerSystem</wsman:Selector>
<wsman:Selector Name="CreationClassName">DCIM_ComputerSystem</wsman:Selector>
</wsman:Selector Name="CreationClassName">Nor_Name="CreationClassName">Selector</a>
            <wsman:Selector Name="Name">DCIM:LCService</wsman:Selector>
        </wsman:SelectorSet>
    </s:Header>
    <s:Body>
        <n1:SupportAssistAcceptEULA_INPUT/>
     </s:Body>
</s:Envelope>
```

#### **Output WSMAN SOAP packet:**

<?xml version="1.0" encoding="UTF-8"?> <s:Envelope\_xmlns:s="http://www.w3.org/2003/05/soap-envelope" xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing xmlns:n1="http://schemas.dmtf.org/wbem/wscim/1/cim-schema/2/root/dcim/DCIM\_LCService"> <s:Header> <wsa:To>http://schemas.xmlsoap.org/ws/2004/08/addressing/role/anonymous</wsa:To> <wsa:Action>http://schemas.dmtf.org/wbem/wscim/1/cimschema/2/root/dcim/DCIM\_LCService/SupportAssistAcceptEULAResponse</wsa:Action> <wsa:RelatesTo>uuid:381c73e9-4fdb-1fdb-8002-6cbb576a0064</wsa:RelatesTo>
<wsa:MessageID>uuid:0284b730-f672-1672-800a-2403d5eb7b84</wsa:MessageID> </s:Header> <s:Body> <n1:SupportAssistAcceptEULA\_OUTPUT> <n1:Message>The SupportAssist End User License Agreement (EULA) is accepted by iDRAC user root via iDRAC interface WSMan.</nl:Message> <n1:MessageArguments>root</n1:MessageArguments> <n1:MessageArguments>WSMan</n1:MessageArguments> <n1:MessageID>SRV074</n1:MessageID> <n1:ReturnValue>0</n1:ReturnValue> </n1:SupportAssistAcceptEULA\_OUTPUT> </s:Body> </s:Envelope>

# DCIM\_LCService.SupportAssistGetEULAStatus()

To get information about the EULA acceptance, send the following SOAP packet to the WSMAN service.

#### WSMAN SOAP packet:

```
<?xml version="1.0" encoding="UTF-8"?>
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing"
xmlns:wsman="http://schemas.dmtf.org/wbem/wsman/1/wsman.xsd"
xmlns:n1="http://schemas.dmtf.org/wbem/wscim/1/cim-schema/2/DCIM_LCService">
   <s:Header>
      <wsa:To s:mustUnderstand="true">https://10.94.225.31:443/wsman</wsa:To>
<wsman:ResourceURI s:mustUnderstand="true">http://schemas.dmtf.org/wbem/wscim/1/cim-
schema/2/DCIM_LCService</wsman:ResourceURI>
      <wsa:ReplyTo>
         <wsa: Address
s:mustUnderstand="true">http://schemas.xmlsoap.org/ws/2004/08/addressing/role/anonymous</wsa:A
ddress>
      </wsa:ReplyTo>
<wsa:Action s:mustUnderstand="true">http://schemas.dmtf.org/wbem/wscim/1/cim-
schema/2/DCIM_LCService/SupportAssistGetEULAStatus</wsa:Action>
      <wsa:MessageID s:mustUnderstand="true">512000</wsman:MaxEnvelopeSize>
64006a57bb6c</wsa:MessageID>
      <wsman:OperationTimeout>PT120.0S</wsman:OperationTimeout>
      <wsman:SelectorSet>
         sman:Selector Name="__cimnamespace">root/dcim</wsman:Selector>
<wsman:Selector Name="SystemCreationClassName">DCIM_ComputerSystem</wsman:Selector>
<wsman:Selector Name="SystemName">DCIM:ComputerSystem</wsman:Selector>
<wsman:Selector Name="CreationClassName">DCIM_LCService</wsman:Selector>
<wsman:Selector Name="CreationClassName">DCIM_LCService</wsman:Selector>
<wsman:Selector Name="Name">DCIM:LCService</wsman:Selector>
      </wsman:SelectorSet>
   </s:Header>
   <s:Body>
      <n1:SupportAssistGetEULAStatus_INPUT/>
   </s:Body>
</s:Envelope>
```

#### Output WSMAN SOAP packet:

```
<?xml version="1.0" encoding="UTF-8"?>
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing"
xmlns:n1="http://schemas.dmtf.org/wbem/wscim/1/cim-schema/2/DCIM_LCService">
  <s:Header>
    <wsa:To>http://schemas.xmlsoap.org/ws/2004/08/addressing/role/anonymous</wsa:To>
     <wsa:Action>http://schemas.dmtf.org/wbem/wscim/1/cim-
schema/2/DCIM_LCService/SupportAssistGetEULAStatusResponse</wsa:Action>
    <wsa:RelatesTo>urn:uuid:ecc265c1-33db-11e7-8542-64006a57bb6c</wsa:RelatesTo>
    <wsa:MessageID>uuid:c6827ae0-f597-1597-8549-2403d5eb7b84</wsa:MessageID>
  </s:Header>
  <s:Body>
    <n1:SupportAssistGetEULAStatus_OUTPUT>
       <n1:Interface>2</n1:Interface>
       <n1:IsRegistered>1</n1:IsRegistered>
       <n1:Message>The SupportAssist End User License Agreement (EULA) is accepted by iDRAC user
root via iDRAC interface RACADM.</nl:Message>
       <n1:MessageArguments>root</n1:MessageArguments>
       <n1:MessageArguments>RACADM</n1:MessageArguments>
       <n1:MessageID>SRV074</n1:MessageID>
       <n1:ReturnValue>0</n1:ReturnValue>
       <n1:Time>Tue Feb 21 02:57:07 CST 2023</n1:Time>
       <n1:User>root</n1:User>
     </nl:SupportAssistGetEULAStatus_OUTPUT>
  </s:Body>
</s:Envelope>
```

## Note:

- The IsRegistered parameter will be 0 if server is registered or 1 if the SupportAssist solution on the server is not registered.
- The iDRAC username in the Message and MessageArguments parameter is the iDRAC username that has accepted the EULA. The iDRAC username that accepted the EULA may be different from the iDRAC username of the user who ran the SupportAssistGetEULAStatus method.

# DCIM\_LCService.SupportAssistCollection()

To trigger a SupportAssist Collection and optionally send the collection to a network share or to Dell EMC (on registered servers), use the following method.

## WSMAN SOAP packet:

```
<?xml version="1.0"?>
<s:Envelope_xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing"
xmlns:wsman="http://schemas.dmtf.org/wbem/wsman/1/wsman.xsd"
xmlns:wsa='
xmlns:n1="http://schemas.dmtf.org/wbem/wscim/1/cim-schema/2/root/dcim/DCIM_LCService">
  <s:Header>

<wsa:Action s:mustUnderstand="true">http://schemas.dmtf.org/wbem/wscim/1/cim-
schema/2/root/dcim/DCIM_LCService/SupportAssistCollection</wsa:Action>
<wsa:To s:mustUnderstand="true">https://10.94.225.31:443/wsman</wsa:To>
<wsman:ResourceURI
s:mustUnderstand="true">http://schemas.dmtf.org/wbem/wscim/1/cim-
6cbb576a0064</wsa:MessageID>
     <wsa:ReplyTo>
<wsa:Address>http://schemas.xmlsoap.org/ws/2004/08/addressing/role/anonymous</wsa:Addre</pre>
SS>
     </wsa:ReplyTo>
     <wsman:SelectorSet>
       <wsman:Selector Name="Name">DCIM:LCService</wsman:Selector>
<wsman:Selector Name="SystemName">DCIM:ComputerSystem</wsman:Selector>
       <wsman:Selector Name="CreationClassName">DCIM_LCService</wsman:Selector>
       <wsman:Selector
Name="SystemCreationClassName">DCIM_ComputerSystem</wsman:Selector>
     </wsman:SelectorSet>
  </s:Header>
  <s:Body>
     <n1:SupportAssistCollection_INPUT>
       <n1:DataSelectorArrayIn>0</n1:DataSelectorArrayIn>
       <n1:DataSelectorArrayIn>1</n1:DataSelectorArrayIn>
       <nl:DataSelectorArrayIn>2</nl:DataSelectorArrayIn>
       <nl:DataSelectorArrayIn>3</nl:DataSelectorArrayIn><nl:IPAddress>10.94.224.124</nl:IPAddress>
       <n1:ShareType>2</n1:ShareType>
       <n1:Filter>0</n1:Filter>
       <nl:Username>root</nl:Username>
       <n1:Password>dell123</n1:Password>
       <n1:Transmit>0</n1:Transmit>
     </nl:SupportAssistCollection_INPUT>
  </s:Body>
</s:Envelope>
```

To generate a collection with all data sets included and to export it to a CIFS network share, use the following input parameters.

Note: Replace Server IP Address, Share Name, Share UserName, and Share Password with the actual values.

<p:SupportAssistCollection\_INPUT xmIns:p="http://schemas.dmtf.org/wbem/wscim/1/cimschema/2/root/dcim/DCIM\_LCService"> <!-- 0 = System Information, 1 = OSApp Data, 2 = Storage Logs, 3 = Debug logs --> <p:DataSelectorArrayIn>0</p:DataSelectorArrayIn> <p:DataSelectorArrayIn>1</p:DataSelectorArrayIn> <p:DataSelectorArrayIn>2</p:DataSelectorArrayIn> <p:DataSelectorArrayIn>3</p:DataSelectorArrayIn> <p:IPAddress>Server IP Address <p:ShareName>Share Name</p:ShareName> <p:ShareType>2</p:ShareType> <p:Filter>0</p:Filter> <p:Username>Share UserName</p:Username>

<p:Password>Share Password</p:Password>

<!--p:Workgroup></p:Workgroup-->

<p:Transmit>0</p:Transmit>

</p:SupportAssistCollection\_INPUT>

To generate a collection with all data sets included and to export it to NFS network share, use the following as sa\_collection.xml.

Note: Replace Server IP Address and Share Name with the actual values.

<p:SupportAssistCollection\_INPUT xmlns:p="http://schemas.dmtf.org/wbem/wscim/1/cimschema/2/root/dcim/DCIM\_LCService"> <!-- 0 = System Information, 1 = OSApp Data, 2 = Storage Logs, 3 = Debug logs --> <p:DataSelectorArrayIn>0</p:DataSelectorArrayIn> <p:DataSelectorArrayIn>1</p:DataSelectorArrayIn> <p:DataSelectorArrayIn>2</p:DataSelectorArrayIn> <p:DataSelectorArrayIn>3</p:DataSelectorArrayIn> <p:IPAddress>Server IP Address</p:IPAddress> <p:ShareName>Share Name</p:ShareName> <p:ShareType>0</p:ShareType> <p:Filter>0</p:Filter> <!--p:Username></p:Username--> <!--p:Password></p:Password--> <!--p:Workgroup></p:Workgroup--> <p:Transmit>0</p:Transmit> </p:SupportAssistCollection\_INPUT>

To generate a collection and to send it to Dell EMC (when iDRAC is registered for SupportAssist), set the transmit option in the input XML:

<p:Transmit>1</p:Transmit>

**Note:** For information on registering for SupportAssist, see the SupportAssist on Dell EMC's 14th generation of PowerEdge servers technical white paper.

To generate a collection on the local system, set ShareType as 4 in the input XML:

<p:ShareType>4</p:ShareType>

<p:Transmit>0</p:Transmit>

#### **Output WSMAN SOAP packet:**

```
<?xml version="1.0" encoding="UTF-8"?>
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing"
xmlns:n1="http://schemas.dmtf.org/wbem/wscim/1/cim-schema/2/root/dcim/DCIM_LCService"
xmlns:wsman="http://schemas.dmtf.org/wbem/wsman/1/wsman.xsd">
  <s:Header>
    <wsa:To>http://schemas.xmlsoap.org/ws/2004/08/addressing/role/anonymous</wsa:To>
    <wsa:Action>http://schemas.dmtf.org/wbem/wscim/1/cim-
schema/2/root/dcim/DCIM_LCService/SupportAssistCollectionResponse</wsa:Action>
    <wsa:RelatesTo>uuid:681bdfa8-4f01-1f01-8002-6cbb576a0064</wsa:RelatesTo>
     <wsa:MessageID>uuid:3269ec70-f598-1598-85c8-2403d5eb7b84</wsa:MessageID>
  </s:Header>
  <s:Body>
    <n1:SupportAssistCollection_OUTPUT>
       <n1:Job>
         <wsa:EndpointReference>
<wsa:Address>http://schemas.xmlsoap.org/ws/2004/08/addressing/role/anonymous</wsa:Address>
           <wsa:ReferenceParameters>
             <wsman:ResourceURI>http://schemas.dell.com/wbem/wscim/1/cim-
schema/2/DCIM_LifecycleJob</wsman:ResourceURI>
             <wsman:SelectorSet>
               <wsman:Selector Name="InstanceID">JID_774089131508</wsman:Selector>
<wsman:Selector Name="___cimnamespace">root/dcim</wsman:Selector>
             </wsman:SelectorSet>
           </wsa:ReferenceParameters>
         </wsa:EndpointReference>
       </n1:Job>
      <n1:ReturnValue>4096</n1:ReturnValue>
    </n1:SupportAssistCollection_OUTPUT>
  </s:Body>
       </s:Envelope>
```

# DCIM\_LCService.SupportAssistExportLastCollection()

To export an existing SupportAssist Collection to a network share or to the default network share, if set (See <u>Setting Default</u> <u>Network</u>), use the following method.

## WSMAN SOAP packet:

To export the existing collection to a default network share (See Setting Default Network)

```
<?xml version="1.0"?>
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"</pre>
xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing"
xmlns:wsman="http://schemas.dmtf.org/wbem/wsman/1/wsman.xsd"
xmlns:n1="http://schemas.dmtf.org/wbem/wscim/1/cim-schema/2/root/dcim/DCIM_LCService">
  <s:Header>
    <wsa:Action s:mustUnderstand="true">http://schemas.dmtf.org/wbem/wscim/1/cim-
6cbb576a0064</wsa:MessageID>
    <wsa:ReplyTo>
<wsa:Address>http://schemas.xmlsoap.org/ws/2004/08/addressing/role/anonymous</wsa:Address>
    </wsa:ReplyTo>
    <wsman:SelectorSet>
      <wsman:Selector Name="Name">DCIM:LCService</wsman:Selector>
<wsman:Selector Name="SystemName">DCIM:ComputerSystem</wsman:Selector>
      <wsman:Selector Name="CreationClassName">DCIM_LCService</wsman:Selector>
<wsman:Selector Name="SystemCreationClassName">DCIM_ComputerSystem</wsman:Selector>
    </wsman:SelectorSet>
  </s:Header>
  <s:Body>
    <n1:SupportAssistExportLastCollection_INPUT/>
  </s:Body>
</s:Envelope>
```

To export the existing collection to a specific network share (non-default location)

<pre><?xml version="1.0"?></pre>
<pre><s:envelope <="" pre="" xmins:s="http://www.w3.org/2003/05/soap-envelope"></s:envelope></pre>
xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing"
xmlns:wsman="http://schemas.dmtf.org/wbem/wsman/1/wsman.xsd"
xmlns:n1="http://schemas.dmtf.org/wbem/wscim/1/cim-schema/2/root/dcim/DCIM_LCService">
<s:header></s:header>
<pre><wsa:action s:mustunderstand="true">http://schemas.dmtf.org/wbem/wscim/1/cim-</wsa:action></pre>
schema/2/root/dcim/DCIM_LCService/SupportAssistExportLastCollection
<pre><wsa:to s:mustunderstand="true">https://100.97.151.51:443/wsman</wsa:to></pre>
<pre><wsman:resourceuri s:mustunderstand="true">http://schemas.dmtf.org/wbem/wscim/1/cim-</wsman:resourceuri></pre>
schema/2/root/dcim/DCIM_LCService
<pre><wsa:messagetd_s:mustunderstand="true">uuid:726ab95a-4fdb-1fdb-8002-</wsa:messagetd_s:mustunderstand="true"></pre>
6cbb576a0064
<pre><wsa:benlyto></wsa:benlyto></pre>
<pre><wsa:address>http://schemas_xmlsoan_org/ws/2004/08/addressing/role/anonymous</wsa:address></pre>
wsman SelectorSet
wishing Selector Name-"Name" DCTM: (Cervice / Wisman: Selector)
wishin Selector Name- System and >DCTM LOSANCE System (wishin Selector)
wishing isoloctor Name- Creation Croation Classiane / DCTM_LCSTV/CC/Wishin.Setector/
<pre></pre>
<n: supportassistexportlastcollection_inpui=""></n:>
<n1:1paddress>1/2.31.100.3/</n1:1paddress>
<ni:snarename>nTS_VMI</ni:snarename>
<n1:sharetype>U</n1:sharetype>

To export the collection to a specific CIFS share other than the default network share, use the following the configuration for input parameters

<p:SupportAssistExportLastCollection\_INPUT xmlns:p="http://schemas.dell.com/wbem/wscim/1/cim-schema/2/root/dcim/DCIM\_LCService">

<p:ShareType>2</p:ShareType>

<p:ShareName> Server ShareName </p:ShareName>

<p:IPAddress> Server IP Address </p:IPAddress>

<p:Username> CIFS UserName </p:Username>

<p:Password> CIFS Password</p:Password>

</p:SupportAssistExportLastCollection\_INPUT>

To export to a specific NFS share other than default network share, use the following as sa\_export.xml

<p:SupportAssistExportLastCollection\_INPUT xmlns:p="http://schemas.dell.com/wbem/wscim/1/cim-schema/2/root/dcim/DCIM\_LCService">

<p:ShareType>0</p:ShareType>

<p:ShareName> Server ShareName </p:ShareName>

<p:IPAddress> Server IP Address </p:IPAddress>

<!--p:Username> </p:Username-->

<!--p:Password></p:Password-->

</p:SupportAssistExportLastCollection\_INPUT>

#### Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing"
xmlns:n1="http://schemas.dmtf.org/wbem/wscim/1/cim-schema/2/root/dcim/DCIM_LCService"
xmlns:wsman="http://schemas.dmtf.org/wbem/wsman/1/wsman.xsd">
  <s:Header>
    <wsa:To>http://schemas.xmlsoap.org/ws/2004/08/addressing/role/anonymous</wsa:To>
    <wsa:Action>http://schemas.dmtf.org/wbem/wscim/1/cim-
<wsa:MessageID>uuid:52666670-f598-1598-85f0-2403d5eb7b84</wsa:MessageID>
  </s:Header>
  <s:Bodv>
    <n1:SupportAssistExportLastCollection_OUTPUT>
      <n1:Job>
        <wsa:EndpointReference>
<wsa:Address>http://schemas.xmlsoap.org/ws/2004/08/addressing/role/anonymous</wsa:Address>
          <wsa:ReferenceParameters>
            <wsman:ResourceURI>http://schemas.dell.com/wbem/wscim/1/cim-
schema/2/DCIM_LifecycleJob</wsman:ResourceURI>
            <wsman:SelectorSet>
              <wsman:Selector Name="InstanceID">JID_774094497951</wsman:Selector>
<wsman:Selector Name="___cimnamespace">root/dcim</wsman:Selector>
            </wsman:SelectorSet>
          </wsa:ReferenceParameters>
        </wsa:EndpointReference>
      </n1:Job>
      <n1:ReturnValue>4096</n1:ReturnValue>
    </nl:SupportAssistExportLastCollection_OUTPUT>
  </s:Body>
</s:Envelope>
```

# DCIM\_LCService.SupportAssistUploadLastCollection()

To export an existing SupportAssist collection to Dell (on registered servers), use the following method.

**Note:** For information on registering for SupportAssist, see the *SupportAssist on Dell EMC's 14th generation of PowerEdge servers* technical white paper.

```
<?xml version="1.0"?>
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing"
xmlns:wsman="http://schemas.dmtf.org/wbem/wsman/1/wsman.xsd"
xmlns:n1="http://schemas.dmtf.org/wbem/wscim/1/cim-schema/2/root/dcim/DCIM_LCService">
   <s:Header>

schema/2/root/dcim/DCIM_LCService</wsman:ResourceURI</pre>
      <wsa:MessageID s:mustUnderstand="true">uuid:a83761cc-4f01-1f01-8002-
6cbb576a0064</wsa:MessageID>
     <wsa:ReplyTo>
<wsa:Address>http://schemas.xmlsoap.org/ws/2004/08/addressing/role/anonymous</wsa:Address>
     </wsa:ReplyTo>
     <wsman:SelectorSet>
       <wsman:Selector Name="Name">DCIM:LCService</wsman:Selector>
<wsman:Selector Name="SystemName">DCIM:ComputerSystem</wsman:Selector>
<wsman:Selector Name="CreationClassName">DCIM_LCService</wsman:Selector>
        <wsman:Selector Name="SystemCreationClassName">DCIM_ComputerSystem</wsman:Selector>
     </wsman:SelectorSet>
   </s:Header>
   <s:Body>
     <n1:SupportAssistUploadLastCollection_INPUT/>
   </s:Body>
</s:Envelope>
```

#### Output:

```
<?xml version="1.0" encoding="UTF-8"?>
<s:Envelope_xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing"
xmlns:n1="http://schemas.dmtf.org/wbem/wscim/1/cim-schema/2/root/dcim/DCIM_LCService"
xmlns:wsman="http://schemas.dmtf.org/wbem/wsman/1/wsman.xsd">
  <s:Header>
    <wsa:To>http://schemas.xmlsoap.org/ws/2004/08/addressing/role/anonymous</wsa:To>
    <wsa:Action>http://schemas.dmtf.org/wbem/wscim/1/cim-
schema/2/root/dcim/DCIM_LCService/SupportAssistUploadLastCollectionResponse</wsa:Action>
    wsa:RelatesTo>uuid:8818051b-4f01-1f01-8002-6cbb576a0064</wsa:RelatesTo>
     <wsa:MessageID>uuid:52666670-f598-1598-85f0-2403d5eb7b84</wsa:MessageID>
  </s:Header>
  <s:Body>
    <n1:SupportAssistUploadLastCollection_OUTPUT>
       <n1:Job>
         <wsa:EndpointReference>
<wsa:Address>http://schemas.xmlsoap.org/ws/2004/08/addressing/role/anonymous</wsa:Address>
           <wsa:ReferenceParameters>
              <wsman:ResourceURI>http://schemas.dell.com/wbem/wscim/1/cim-
schema/2/DCIM_LifecycleJob</wsman:ResourceURI>
              <wsman:SelectorSet>
                <wsman:Selector Name="InstanceID">JID_774094497953</wsman:Selector>
<wsman:Selector Name="___cimnamespace">root/dcim</wsman:Selector>
              </wsman:SelectorSet>
            </wsa:ReferenceParameters>
         </wsa:EndpointReference>
       </n1:Job>
       <n1:ReturnValue>4096</n1:ReturnValue>
    </nl:SupportAssistUploadLastCollection_OUTPUT>
  </s:Body>
</s:Envelope>
```

## **Job Status**

To check the status of a job, use the following packet with the correct JOBID

```
<?xml version="1.0"?>
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing"
xmlns:wsman="http://schemas.dmtf.org/wbem/wsman/1/wsman.xsd">
  <s:Header>
   <wsa:Action
6cbb576a0064</wsa:MessageID>
   <wsa:ReplyTo>
<wsa:Address>http://schemas.xmlsoap.org/ws/2004/08/addressing/role/anonymous</wsa:Address>
   </wsa:ReplyTo>
   <wsman:SelectorSet>
     <wsman:Selector Name="InstanceID">JID_949794202321</wsman:Selector>
   </wsman:SelectorSet>
  </s:Header>
  <s:Body/>
</s:Envelope>
```

#### **Output WSMAN SOAP packet:**

<?xml version="1.0" encoding="UTF-8"?> <s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope" xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing" xmlns:n1="http://schemas.dmtf.org/wbem/wscim/1/cim-schema/2/root/dcim/DCIM\_LifeCycleJob"> <s:Header> <wsa:To>http://schemas.xmlsoap.org/ws/2004/08/addressing/role/anonymous</wsa:To> <wsa:Action>http://schemas.xmlsoap.org/ws/2004/09/transfer/GetResponse</wsa:Action>
<wsa:RelatesTo>uuid:959628f3-4fdb-1fdb-8002-6cbb576a0064</wsa:RelatesTo>
<wsa:MessageID>uuid:0a665b50-4fad-1fad-80e9-96ffd5eb7b84</wsa:MessageID> </s:Header> <s:Body> <n1:DCIM\_LifeCycleJob>
 <n1:ElapsedTimeSinceCompletion>1</n1:ElapsedTimeSinceCompletion> <n1:InstanceID>JID\_949794202321</n1:InstanceID> <n1:JobStartTime>NA</n1:JobStartTime> <n1:JobStatus>Completed</n1:JobStatus> <n1:JobUntilTime>NA</n1:JobUntilTime> <n1:Message>The SupportAssist Transmission Operation is completed successfully.</nl:Message> <nl:MessageArguments>NA</nl:MessageArguments> <n1:MessageID>SRV088</n1:MessageID> <n1:Name>SupportAssist Collection</n1:Name> <n1:PercentComplete>100</n1:PercentComplete> </n1:DCIM\_LifeCycleJob> </s:Body> </s:Envelope>

# RACADM

This section describes the RACADM commands that you can use for generating and retrieving SupportAssist Collections.

## racadm supportassist accepteula

Note: The End User License Agreement (EULA) must be accepted before you register SupportAssist.

To accept the EULA, use the supportassist accepteula command.

## Output:

SRV074: The SupportAssist End User License Agreement (EULA) is accepted by iDRAC user <iDRAC username> via iDRAC RACADM interface

## racadm supportassist geteulastatus

To get the information about EULA acceptance, use the supportassist geteulastatus command.

#### Output:

SRV074: The SupportAssist End User License Agreement (EULA) is accepted by iDRAC user <iDRAC username> via iDRAC RACADM interface

## racadm supportassist collect

To start a SupportAssist Collection and optionally export the collection to network share and/or send it to Dell EMC, run the **supportassist collect** command. It also supports an option to filter the report for Personally Identifiable Information. The supported options are as follows:

-t: <logtype> : The supported log types are:
SysInfo – System Information
OSAppAll – OS and Application data
TTYLog – TTYLog data
Debug – Debug logs and core files
If –t option is not specified, System Information Data is collected.
Multiple options can be given by using a comma as a delimiter.
The options are case-insensitive.
-l: <CIFS/NFS share> : Network share location where the collection must be exported.
-u: <username> : Username for the remote share where the collection must be exported.
-p: <password> : Password for the remote share where the collection must be exported.
-filter : The collection will be filtered for Personally Identifiable Information.
-upload : To send Collection to Dell

• To generate a collection with all data sets included, and to export it to a CIFS network share, use the following command:

racadm supportassist collect -t SysInfo, OSAppAll, TTYLog, Debug -I //192.168.10.24/share -u username -p passwd

• To generate a collection with all data sets included, and to export it to a NFS network share, use the following command:

racadm supportassist collect -t SysInfo, OSAppAll, TTYLog, Debug -I 10.94.161.103:/supportassist\_share

To generate a collection and to send it to Dell EMC (when iDRAC is registered for SupportAssist), use the following command.
 Note: For information on registering for SupportAssist, see the SupportAssist on Dell EMC's 14th generation of PowerEdge servers technical white paper.

racadm supportassist collect -t SysInfo, OSAppAll, TTYLog, Debug --upload

# Note:

- Export to network share and upload to Dell EMC can be combined in a single collect command.
- If none of the export or upload options are specified, the Collection is generated and persisted in iDRAC.

## Output:

Job ID = JID\_123456789012

RAC1154: The requested operation is initiated.

Run the RACADM jobqueue sub-command, using the job id to check the status of the requested operation.

# racadm supportassist exportlastcollection

To export an existing SupportAssist Collection to a specific network share or to a default network share (See <u>Setting Default</u> <u>Network</u>).

- To export an existing collection to the default network share (See <u>Setting Default Network</u>), use the following command: racadm supportassist exportlastcollection
- To export an existing collection to a specific CIFS share other than the default network share, use the following command: racadm supportassist exportlastcollection -I //192.168.10.24/share -u username -p passwd
- To export an existing collection to a specific NFS share other than the default network share, use the following command: racadm supportassist exportlastcollection –I 10.94.161.103:/supportassist\_share

## Output:

Job ID = JID\_123456789012 RAC1154: The requested operation is initiated. Run the RACADM jobqueue sub-command, using the job id to check the status of the requested operation.

# racadm supportassist uploadlastcollection

To export an existing SupportAssist Collection to Dell EMC (on registered servers), use the **supportassist uploadlastcollection** command.

**Note:** For information on registering for SupportAssist, see the *SupportAssist on Dell EMC's 14th generation of PowerEdge servers* technical white paper.

## Output:

Job ID = JID\_123456789012 RAC1154: The requested operation is initiated. Run the RACADM jobqueue sub-command, using the job id to check the status of the requested operation.

# Job status

To check the status of a job, use the following command:

racadm jobqueue view -- i JID\_123456789012

[Job ID=JID\_123456789012] Job Name=SupportAssist Collection Status=Completed Start Time=[Not Applicable] Expiration Time=[Not Applicable] Message=[SRV088: The SupportAssist Collection and Transmission Operation is completed successfully.] Percent Complete=[100]

# LIFECYCLE CONTROLLER

For generating a SupportAssist Collection through the Lifecycle Controller User Interface in a pre-boot environment:

- 1. Reboot server and boot to Lifecycle Controller (F10).
- 3. Accept the Terms and Conditions and click Next.
- Select the desired data sets to be included in the collection and click Next. Note: Previous collected and cached operating system logs and application data will be included in the collection, if available and selected.
- 5. Select the destination where the collection has to be sent. The available options are USB Drive or Network share (CIFS/NFS/HTTPs are supported in 14th generation of PowerEdge servers)
- 6. Review the Summary and click Finish to start generating the collection.

The following screen captures illustrate the steps to save the collection to a USB drive.



erms and Conditions	Hardware Diagnostics: Export SupportAssist collection
elect Export Settings	Step 1 of 4: Terms and Conditions
immary	Select the checkbox to allow Technical Support to collect and use the SupportAssist collection informati
	□ I agree to allow Technical Support to use the SupportAssist collection information.
	Full Terms and Conditions
	By using SupportAssist, you allow Dell to save your contact information (e.g. name, phone number, and/or email address) which would be used to provide technical support for your Dell products and services. Dell may use the information for providing recommendations to improve your IT infrastructure.
	SupportAssist is a feature that collects information about your computer hardware and software, providing you with an enhanced, personalized and efficient support experience.
	How does it work?
	SupportAssist collects diagnostic logs and configuration information from monitored systems. This information allows Dell to provide an enhanced support experience and monitor configuration status.
	What data is collected?

	Help About Exit
✓ Terms and Conditions Select Report Data	Hardware Diagnostics: Export SupportAssist collection
Select Export Settings	Step 2 of 4: Select Report Data
Summary	Select the SupportAssist information you would like to export.  ✓ Hardware  C RAID Controller Logs  Operating System and Application Data  Ø Debug Logs Available Data : Wed Apr 26 16:33:19 2017
PowerEdge B740xd	
	Cancel Back Next

Terms and Conditions     Select Pepert Data	Hardware Diagnostics: Export Sup	portAssist collection		
Select Export Settings	Step 3 of 4: Select Export Settings			
Summary	<ul> <li>Select the device and location to export Su</li> <li>✓ USB Drive</li> </ul>	pportAssist collection		
	Select Device	USER USB (Back USB 1)	¥	
	File Path			
	Network Share			
	CIES ONES ONTTP			
	Share Name			
	Domain and User Name			
	Password			
	File Path			
	Proxy Settings			
	Server			
	Port			1
	User Name			
	Password			

	ler	Help Al	bout   Exit
<ul> <li>✓ Terms and Conditions</li> <li>✓ Select Report Data</li> </ul>	Hardware Diagnostics: Export SupportAssist collection		
✓ Select Export Settings Summary	Step 4 of 4: Summary		
•	To export the SupportAssist collection, click Finish		
	Report Data Hardware Data and Debug Logs		
	Export Settings USB Drive ( USER USB (Back USB 1):\)		
PowerEdge R740xd	Cance	Back	Finish

	er	Help Ab	out   Exit
Terms and Conditions  Select Report Data	Hardware Diagnostics: Export SupportAssist collection		
✓ Select Export Settings Summary	Step 4 of 4: Summary		
	To export the SupportAssist collection, click Finish		
	Report Data Hardware Data and Debug Logs	_	
	Information		
	Export		
	Please wait. This operation may take a few minutes.		
PowerEdge R740xd	Ca	ncel Back	Finish



The following screen captures illustrate the steps to save the collection to a NFS share.





	oller	Help A	bout   Exit
Terms and Conditions     Select Report Data	Hardware Diagnostics: Export SupportAssist collection		
Select Export Settings Summary	Step 2 of 4: Select Report Data		
	<ul> <li>Select the SupportAssist information you would like to export.</li> <li>Hardware</li> </ul>		
	<ul> <li>RAID Controller Logs</li> <li>Operating System and Application Data</li> </ul>		
	Debug Logs     Available Data : Wed Apr 26 16:33:19 2017		
			ß
PowerEdge R740xd	Cancel	Back	Next

Terms and Conditions	Hardware Diagnostics: Export Sup	portAssist collection	
Select Export Settings	Step 3 of 4: Select Export Settings		
Summary	<ul> <li>Select the device and location to export Select the Device and location to export Select the Device</li> </ul>	upportAssist collection	
	Select Device	USER USB (Back USB 1)	T
	File Path		
	✓ Network Share		
	○ CIFS ● NFS ○ HTTP		
	Share Name	\\10.94.160.137\share	
	Domain and User Name		
	Password		
	File Path		
	Proxy Settings		
	Enable Settings		
	Server		
	Port		
	User Name		
	Password		

	blier	Help   A	bout   Exit
<ul> <li>✓ Terms and Conditions</li> <li>✓ Select Report Data</li> </ul>	Hardware Diagnostics: Export SupportAssist collection	n	
✓ Select Export Settings Summary	Step 4 of 4: Summary		
	To export the SupportAssist collection, click Finish		
	Report Data Hardware Data and Debug Logs		
	Export Settings Network Share ( \\10.94.160.137\share\)		
PowerEdge R740xd		Cancel Back	Finish

DELLEMC Lifecycle Control	ller		Help Al	bout   Exit
✓ Terms and Conditions ✓ Select Report Data	Hardware Diagnostics: Export SupportAssist collection	1		
✓ Select Export Settings Summary	Step 4 of 4: Summary			
	To export the SupportAssist collection, click Finish Report Data Hardware Data and Debug Logs			
	Information Export			
	Please wait. This operation may take a few minutes.			
PowerEdge R740xd	C	ancel	Back	Finish



# **IPMI (HOST OS)**

If iDRAC is not setup for using any of the iDRAC interfaces (iDRAC GUI, WSMAN, or RACADM), SupportAssist Collection (System information logs only) can be generated from the Host Operating System by using the following IPMI commands.

#### 1. Initiate a SupportAssist Collection

To start a SupportAssist Collection, run the following IPMI Command. The command output status code pending (0x02) indicates that the collection has started and is running.



Successful completion of the collection can be verified by using <u>Get Command Status</u>. This command returns pending (0x02) when the operation is running, and success (0x00) when the operation is complete.

After the SupportAssist Collection operation is complete, the user (Host) displays a removable drive that contains the SupportAssist Collection.



## 2. Close SupportAssist Collection Results

You can save the SupportAssist Collection results to a desired location for viewing at a later time. After the results are saved, you can choose to close the removable drive. If the drive is not explicitly closed, it will be closed automatically by iDRAC after approximately 30 minutes from the time that it was created.

The following IPMI command can be used to close the drive containing the results.



Successful completion of the collection can be verified by using <u>Get Command Status</u>. This command returns pending (0x02) when the operation is running, and success (0x00) when the operation is complete.

#### 3. Get Command Status

The SupportAssist Collection start and Close Results operation status can be checked by using the following status command. The output returned would be the status of last triggered SupportAssist IPMI command. Some of the key return values of the Status command are as follows:

0x00 – Success 0x01 – Failure 0x02 – Pending

Operation in running state:



Operation in successfully completed:

C:\>ipmitool -I wmi raw 0x30 0xa8 0x07 0x00 0x00 00 00 00

## 4. Cancel SupportAssist Collection operation

While the SupportAssist Collection is running, if necessary, you can cancel the collection. The following IPMI command stops the SupportAssist Collection process.

C:\>ipmitool.exe -I wmi raw 0x30 0xa8 0x09 0x00 0x00 02 00 00

The status of the cancel request can be verified by using <u>Get Command Status</u>. After the operation is canceled, the status command will return 0x07 indicating that you had requested to cancel the collection.

# **IDRAC SERVICE MODULE (ISM) SERVICE IN HOST OS**

If iDRAC is not setup for using any of the iDRAC interfaces (iDRAC GUI, WSMAN, or RACADM), SupportAssist Collection can be generated from the Host Operating System by using iSM.

A collection generated through iSM will include System Information, OS logs, and application data. A collection generated through iSM can also be filtered for Personally Identifiable Information. For more information on filtering, see the <u>Filtered Vs Non-Filtered</u> <u>Collection</u> section.

## **Pre-requisites:**

- iSM should be installed and running in the Host OS.
- Host OS user must have administrator privileges to generate a SupportAssist Collection.

To generate a SupportAssist Collection through iSM, use the following command.

# Starting a collection on Windows

- 1. Open a Command Prompt.
- 2. Type cd C:\Program Files\Dell\SysMgt\iSM\shared\bin and press Enter.
- 3. Type Invoke-SupportAssistCollection.exe and press Enter.

The SupportAssist Collection will be downloaded to the default location. On Windows, the default download location is the user's Downloads folder.

	Administrator: C:\Windows\System32\cmd.exe
Microsoft Windows [Version 6.3.9600] (c) 2013 Microsoft Corporation. All rights reserved.	
C:\Program Files\Dell\SysMgt\iSM\shared\bin>Invoke-Supp	ortAssistCollection.exe
SupportAssist log Collection is in progress	
C	]100%
Downloading the collected log file is in progress	
SupportAssist Collection logs can be found in path C:\U	sers\Administrator\Downloads\TSR20170404160110_R740PT6.zip
C:\Program Files\Dell\SysMgt\iSM\shared\bin>	

# Starting a collection on Linux or ESXi

- 1. Open the terminal window.
- 2. Type cd /opt/dell/srvadmin/iSM/bin/ and press Enter.
- 3. Type Invoke-SupportAssistCollection and press Enter.

The SupportAssist Collection will be downloaded at the default location. On Linux, the default download location is the user's Downloads directory. If the directory is not present, the collection is downloaded to the user's home directory.

On ESXi, the default download location is the temp directory.

## **Command Usage**

## Invoke-SupportAssistCollection [ options ]

options:

[--help/-h]
 To display the help content.
 [--filepath/-f] <Destination directory>
 Use this option to download SupportAssist logs to the user specified directory.

You can specify the destination path by using the -f command line option.

# **COLLECTION VIEWER**

The SupportAssist Collection Viewer is a HTML file that is bundled along with the SupportAssist Collection. The Collection Viewer file can be found in the collection directory under /tsr.

The Collection Viewer displays the inventory, configuration, and LC-related information of the iDRAC.

SupportAssist Collection Viewer						Inventory	Config	Raw	Lifec	ycle Log
				Overview	Board CPU N	Memory Power	PCI Networ	k 🕶 Stor	age 🕶	Sensors
	System			Historic SEL Entries			₽ Severity •			
	Model OS Host		PowerEdge R740xd Microsoft Windows Server 2012 R2 Standard WIN 02CODDHD ITC	2017-04-12 21:26:39	The system board connected, or is im The system board	VGA cable or interco properly connected.	onnect is not			
	Report Ge	enerated	2017-04-13 02:37:37	2017-04-12 21.04.34	connected, or is im	properly connected.	Innect is not			
	Inventor			2017-04-12 18:50:05 2017-04-12 18:50:05 2017-04-12 18:50:05	An OEM diagnosti An OEM diagnosti An OEM diagnosti	c event occurred. c event occurred. c event occurred.				
	Inventor	Y		2017-04-12 18:50:04	An OEM diagnosti	c event occurred.				
	CPUs	1&2	Xeon Gold 6130 (16 cores each)	2017-04-12 18:50:04	An OEM diagnosti	c event occurred.				
	DIMMs	A1-B1	Micron Technology 9ASF1G72PZ-2G6D1 8 GB Single-Rank DDR4 2.67 GHz	2017-04-12 18:50:04 2017-04-12 18:50:04 2017-04-12 18:50:04 2017-04-12 18:50:03	An OEM diagnosti An OEM diagnosti An OEM diagnosti Correctable Mach	c event occurred. c event occurred. c event occurred. ine Check Exception	detected on			
	NICs	Integrated 1	Broadcom Limited NetXtreme BCM5720 Gigabit Ethernet PCIe	2017-04-12 18:33:36	CPU 1. An OEM diagnosti	c event occurred.				
	Storage	Slot 6	PERC H730P Adapter	2017-04-12 18:33:35	An OEM diagnosti	c event occurred.				
	Disks	Internal 0-1, Slot 0	SEAGATE 600 GB ST600MM0238	2017-04-12 18:33:35 2017-04-12 18:33:35 2017-04-12 18:33:35	An OEM diagnosti An OEM diagnosti An OEM diagnosti	c event occurred. c event occurred. c event occurred.				
a de la companya de l				2017-04-12 18:33:34	An OEM diagnosti	c event occurred.				
	Firmware	e		2017-04-12 18:33:34 2017-04-12 18:33:34 2017-04-12 17:50:21	An OEM diagnosti An OEM diagnosti An OEM diagnosti	c event occurred. c event occurred. c event occurred.				
	BIOS		0.5.0	2017-04-12 17:50:20	An OEM diagnosti	c event occurred.				
	CPLD		0.4.0	2017-04-12 17:50:20	An OEM diagnosti	c event occurred.				
	DRAC & LC		3.20.20.20	2017-04-12 17:50:20 2017-04-12 17:50:19 2017-04-12 17:50:19	An OEM diagnosti An OEM diagnosti An OEM diagnosti	c event occurred. c event occurred. c event occurre <u>d.</u>				

You can navigate the page for overview of the system info, SEL entries, board, CPU, Memory, Power, PCI devices, Network (Ethernet and Fibre), Storage (Controllers, Enclosures, Batteries, and Disks), and Sensors. The following are some examples of the categories of information that are collected.

Ethernet							
Location	Bus:Dev:Func	Model	Speed	Link	MAC Address	VLAN	Firmware
Integrated 1, Port 1	024:00:00	NetXtreme BCM5720 Gigabit Ethernet PCIe	1 Gbps	Connected	18:66:DA:F0:DA:5C	Disabled	7.10.0
Integrated 1, Port 2	024:00:01	NetXtreme BCM5720 Gigabit Ethernet PCIe	Unknown	Disconnected	18:66:DA:F0:DA:5D	Disabled	7.10.0
Integrated 1, Port 3	025:00:00	NetXtreme BCM5720 Gigabit Ethernet PCIe	Unknown	Disconnected	18:66:DA:F0:DA:5E	Disabled	7.10.0
Integrated 1, Port 4	025:00:01	NetXtreme BCM5720 Gigabit Ethernet PCIe	Unknown	Disconnected	18:66:DA:F0:DA:5F	Disabled	7.10.0

#### **PCI Devices** Bus:Dev:Func Vendor Description Location 000:17:05 Intel Corporation Lewisburg SSATA Controller [AHCI mode] AHCI.Embedded.1-1 AHCI.Embedded.2-1 000:23:00 Intel Corporation Lewisburg SATA Controller [AHCI mode] P2PBridge.Embedded.1-1 P2PBridge.Embedded.2-1 Lewisburg LPC Controller 000:31:04 Intel Corporation Lewisburg SMBus SMBus.Embedded.3-1 Matrox Electronics Systems Ltd. Matrox Electronics Systems Ltd. Video.Embedded.1-1 003:00:00 NIC.Integrated.1-1-1 024:00:00 **Broadcom Limited** NetXtreme BCM5720 Gigabit Ethernet PCIe 024:00:01 **Broadcom Limited** NetXtreme BCM5720 Gigabit Ethernet PCIe NIC.Integrated.1-2-1 025:00:00 **Broadcom Limited** NetXtreme BCM5720 Gigabit Ethernet PCIe NIC.Integrated.1-3-1 025:00:01 **Broadcom Limited** NetXtreme BCM5720 Gigabit Ethernet PCIe NIC.Integrated.1-4-1 RAID.Slot.6-1 026:00:00 LSI Logic / Symbios Logic PERC H730P Adapter

Power S	upplies							
In	dex	Vendor	Output	Input	Redundancy	Part	PPID	Firmware
	1	Delta	750W	212V	Redundancy Capable	5NF18	CN05NF18179723595PI6A01	07.2B.80
	2	Delta	750W	212V	Redundancy Capable	5NF18	CN05NF18179723595PIGA01	07.2B.80

The Config tab displays all the configuration related information of the system. It also provides a search option that you can use to filter by keywords for faster lookup.

SupportAssist Collect	portAssist Collection Viewer				Lifecycle Log
				_	
	Config	power	Q		
	← F2 System Setup				
	+ System BIOS				
	- System Information				
	System Model Name				
	- Processor Settings				
	Logical Processor Iding Configurable TDP		Disabled Nominal		
	- System Profile Settings				
	CPU Power Management Power Saver		SysDbpm Disabled		
	<ul> <li>System Security Settings</li> </ul>				
	Power Button AC Power Recovery AC Power Recovery Delay		Enabled Last Immediate		
	+ iDRAC Settings				
	- Front Panel Security				
	System Power Units		Watts		
	- Power Configuration				
	Power Cap Policy Maximum Power Cap Minimum Power Cap Power Cap (Watts) Redundancy Policy Enable Hot Spare Brimser, Bwurg Sumdkul Init	Not	Disabled 628 413 32767 Redundant Enabled DSI 11		
	Enable Power Factor Correction		Disabled		
	SupportAssist Collection Viewer v1.0 . Convriets & Dell EMC 2017 . About				

The Raw tab displays the complete inventory information. You can use the options in the View menu to view the Full Inventory or Firmware Only information.

SupportAssist Collect	ction Viewer				Inventory	Config	Raw	Lifecycle Log
	Raw		● View -	🖗 Compare Another	Filter By Device / Param Q	Export		
	Device	Parameter	Full Inventor Firmware Or	y nly	Value			
	AHCI.Embedded.1-1	AlarmState		Unknown				
		Bus		0				
		BusNumber		0				
		CachecadeCapability		Cachecade Virtua	Disk not supported			
		CacheSizeInMB		0 MB				
		ConnectorCount						
		ControllerFirmwareVersion						
		DataBusWidth		Unknown				
		Description		Lewisburg SSATA	Controller [AHCI mode]			
		Device						
		DeviceCardDataBusWidth		Unknown				
		DeviceCardManufacturer		DELL				
		DeviceCardSlotLength		Unknown				
		DeviceCardSlotType		Unknown				
		DeviceDescription		Embedded AHCI 1				
		DeviceNumber		17				
		DriverVersion		Not Applicable				
		EncryptionCapability		None				
		EncryptionMode		None				
		FQDD		AHCI.Embedded.1	l-1			
		Function		0				
		FunctionNumber		5				
		InstanceID		AHCI.Embedded.1	l-1			
		KeyID						
		LastSystemInventoryTime		2017-04-05T21:0	4:17			
		LastUpdateTime		2017-04-01T01:3	7:39			

The Collection Viewer also enables you to compare two viewer files. With one viewer file open, you can drag and drop the second viewer file that you want to compare. This creates a compare tab that displays a comparison of all collected attributes.

Additionally, the raw data or comparison data can be exported to the local system by using the Export tab.

SupportAssist Collec	tion Viewer					Inventory	Config	Compare	Lifecycle Log
	Compare	View -	A Include Matching	Include Times	A Include Unique IDs	Filter By Device / Param	Q 🕹 Exp	ort	
	Device		Parameter	(20	<b>R740xd</b> 017-04-13 02:37:37)	FZM10Z1 (2017-04-13)	- <b>R640</b> 11:43:14)		
	AHCI.Embedded.1-1	AlarmState							
		Bus							
		BusNumber							
		CachecadeC	Capability	Cachecade Vi		Cachecade Virtual Disk			
		CacheSizeIn	MB						
		ConnectorC	ount						
		ControllerFi	irmwareVersion						
		DataBusWic	ith						
		Description			ATA Controller [AHCI mode]		oller [AHCI mo		
		Device							
		DeviceCard	DataBusWidth	Unknown		Unknown			
		DeviceCard	Manufacturer	DELL		DELL			
		DeviceCard	SlotLength						
		DeviceCard	SlotType	Unknown		Unknown			
		DeviceDesc	ription	Embedded AF	ICI 1	Embedded AHCI 1			
		DeviceNum	ber						
		DriverVersio	on See all the	Not Applicable		Not Applicable			
		EncryptionC	apability	None		None			
		Encryption	100e	None	4				
		FUDD		AnCI.Embedd	160.1-1	Anci.cinbedded.1-1			
		Function	mbor						
		InstanceID	mber		lod 1 1	J AUCI Emboddod 1 1			
		KovID		Anci.empeut	icu.1-1	Anci.Linbedded.1-1			
		LastSystemI	nventoryTime	2017-04-05T	21:04:17	2017-04-06T14:48:09			

The Lifecycle Logs can also be viewed based on a range of dates that you select. You can also export these logs to local system.

SupportAssist Collec	tion Viewer															Inventory	Config	Raw	Lifecycle Log
	Lifecycle Log			© V	ïew <del>-</del>	٩	<sup>1</sup> Sever	rity <del>-</del>		🛗 R	ange	•	ື	Flip		쉽 Page 1 of 94 🗸 >	🕹 Export 🗸		
	2017-04-12 21:36:41	LOG008	2017	-04-1	1			f	20	017-0	04-12	2				Past Week			
	2017-04-12 21:36:25	SRV006				47						004	47			Past 2 Weeks			
	2017-04-12 21:36:25	SRV001		M	lar 20	1/					Ap	or 201	1/						
	2017-04-12 21:36:25	SRV087	Su Mo	o Tu	We	Th	Fr Sa	a -	Su	Mo	Tu	We	Th	Fr	Sa	Past Month			
	2017-04-12 21:33:25	USR0032	26 27	28	1	2	3 4		<del>26</del>	27	<del>28</del>	<del>29</del>	30	31	4	Past 3 Months			
	2017-04-12 21:33:20	SRV008	E 4	7	0	0	10 11	1	2	2	4	5	4	7					
	2017-04-12 21:33:11	SRV005	3 0	+	0	7 :	10 11	t	Ź	3	4	9	0	+	°	Past 6 Months			
	2017-04-12 21:33:11	SRV009	12 13	14	<del>15</del>	16	17 18	3	9	10	11	12	13	-14	15	Past Year			
	2017-04-12 21:33:05	SRV006	19 20	21	22	23	24 25	5	<del>16</del>	17	18	19	<del>20</del>	21	22	Entire Pange			
	2017-04-12 21:33:05	SRV001	24 27	20	20	20	1 1		22	24	25	26	07	20	20	Entire Kange			
	2017-04-12 21:33:05	SRV087 *	20 27	- 28	29	30 -	54 ±		23	24	72	20	27	28	<del>2</del> 7	Custom Range			
	2017-04-12 21:32:42	LOG008	2 3	4	5	6	78	-	<del>30</del>	4	2	3	4	5	6				
	2017-04-12 21:32:37	SRV008		~					-	5007					_				
	2017-04-12 21:32:37	SRV005		e Supp		sist jot	6_UIL 6	2050		5227	IS Ca								
	2017-04-12 21:32:37	SRV009	The	ere wa	as an is	sue re	crievin storp ir	ig Sysi	tem	n coll	matic		Sup	port/	ASSIST.				
	2017-04-12 21.32.20	SRV000	The	s Supr	JUI LAS	sist Sy	llectio	none	ratio	n ic c	eculu	ad by				ı. II FD			
	2017-04-12 21:32:20	SRV087	The	Supr	ortAs	sist Co	llectio	n Joh		920	5074	6522	7 is s		ssfully	created			
	2017-04-12 21:31:10	USR0030	Suc	cessf	ullv lo	gged ir	using	root.	from	10.3	30.18	9.6 a	nd SS	SH.	, ssian,	ci catca.			
	2017-04-12 21:31:10	LOG007	The	prev	ious lo	og entr	v was r	repeat	ted 3	3 time	25.								
	2017-04-12 21:30:30	USR0030	Suc	cessfi	ully lo	gged ir	using	root.	from	n 10.3	35.22	4.21	8 and	lwsm	nan.				
	2017-04-12 21:30:30	LOG007	The	e prev	ious lo	og entr	y was r	repeat	ted 3	3 time	es.								
	2017-04-12 21:30:19	USR0030	Suc	cessf	ully lo	gged ir	using	root,	from	n 10.3	32.19	2.03	and	vsma	an.				
	2017-04-12 21:30:19	LOG007	The	e prev	ious lo	ogentr	y was r	repeat	ted 3	3 time	es.								
																	Next Page		

# SETTING DEFAULT NETWORK SHARE FOR SAVING COLLECTIONS

# **iDRAC GUI**

1. Log in to the iDRAC GUI

- Click Maintenance→ SupportAssist. If the server is not registered for SupportAssist, the SupportAssist Registration wizard is displayed.
- 3. Click Cancel → Cancel Registration.
- 4. Scroll to the bottom of the page and click Settings→ Collection Settings→ Set Archive Directory.
- 5. Select the protocol and enter the network share details.
- 6. Click Set as Default to set it as the default share for saving collections.

## WSMAN

#### ApplyAttributes()

To set the default attributes for network share, send the following WSMAN SOAP packet.

## Request SOAP packet:

```
<?xml version="1.0"?>
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"</pre>
xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing"
xmlns:wsman="http://schemas.dmtf.org/wbem/wsman/1/wsman.xsd"
xmlns:n1="http://schemas.dmtf.org/wbem/wscim/1/cim-schema/2/root/dcim/DCIM_iDRACCardService">
  <s:Header>
    <wsa:Action s:mustUnderstand="true">http://schemas.dmtf.org/wbem/wscim/1/cim-
6cbb576a0064</wsa:MessageID>
    <wsa:ReplyTo>
<wsa:Address>http://schemas.xmlsoap.org/ws/2004/08/addressing/role/anonymous</wsa:Address>
    </wsa:ReplvTo>
    <wsman:SelectorSet>
     </wsman:SelectorSet>
  </s:Header>
  <s:Body>
    <n1:ApplyAttributes_INPUT>
     <n1:Target>iDRAC.Embedded.1</n1:Target>
     <nl:AttributeName>SupportAssist.1#DefaultProtocol</nl:AttributeName>
      <n1:AttributeValue>NFS</n1:AttributeValue>
      <nl:AttributeName>SupportAssist.1#DefaultIPAddress</nl:AttributeName>
     <n1:AttributeValue>10.94.224.124</n1:AttributeValue>
     <nl:AttributeName>SupportAssist.1#DefaultShareName</nl:AttributeName>
<nl:AttributeValue>/home/kiran_k2/nfsshare</nl:AttributeValue>
      <nl:AttributeName>SupportAssist.1#DefaultUserName</nl:AttributeName>
      <n1:AttributeValue>wsman</n1:AttributeValue>
     <n1:AttributeName>SupportAssist.1#DefaultPassword</n1:AttributeName>
     <n1:AttributeValue>password</n1:AttributeValue>
      <nl:AttributeName>SupportAssist.1#DefaultWorkgroupName</nl:AttributeName>
      <n1:AttributeValue>work</n1:AttributeValue>
    </nl:ApplyAttributes_INPUT>
  </s:Body>
</s:Envelope>
```

#### **Output WSMAN SOAP packet:**

```
<?xml version="1.0" encoding="UTF-8"?>
<s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope"
xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing
xmlns:n1="http://schemas.dmtf.org/wbem/wscim/1/cim-schema/2/root/dcim/DCIM_iDRACCardService"
xmlns:wsman="http://schemas.dmtf.org/wbem/wsman/1/wsman.xsd">
  <s:Header>
     <wsa:To>http://schemas.xmlsoap.org/ws/2004/08/addressing/role/anonymous</wsa:To>
     <wsa:Action>http://schemas.dmtf.org/wbem/wscim/1/cim-
schema/2/root/dcim/DCIM_iDRACCardService/ApplyAttributesResponse</wsa:Action>
     <wsa:RelatesTo>uuid:82de0cd8-4f16-1f16-8002-6cbb576a0064</wsa:RelatesTo>
<wsa:MessageID>uuid:4d36d620-f5ad-15ad-818a-2403d5eb7b84</wsa:MessageID>
  </s:Header>
  <s:Body>
     <n1:ApplyAttributes_OUTPUT>
       <n1:job>
          <wsa:EndpointReference>
<wsa:Address>http://schemas.xmlsoap.org/ws/2004/08/addressing/role/anonymous</wsa:Address>
            <wsa:ReferenceParameters>
               <wsman:ResourceURI>http://schemas.dell.com/wbem/wscim/1/cim-
schema/2/DCIM_LifecycleJob</wsman:ResourceURI>
               <wsman:SelectorSet>
                 <wsman:Selector Name="InstanceID">JID_774995571198</wsman:Selector>
<wsman:Selector Name="___cimnamespace">root/dcim</wsman:Selector>
               </wsman:SelectorSet>
            </wsa:ReferenceParameters>
          </wsa:EndpointReference>
       </nl:Job>
       <n1:ReturnValue>4096</n1:ReturnValue>
     </n1:ApplyAttributes_OUTPUT>
  </s:Body>
</s:Envelope>
```

The default network share attributes that you can set are as follows:

- SupportAssist.1#DefaultProtocol
- SupportAssist.1#DefaultIPAddress
- SupportAssist.1#DefaultShareName
- SupportAssist.1#DefaultUserName
- SupportAssist.1#DefaultPassword
- SupportAssist.1#DefaultWorkgroupName

# RACADM

- To save a default protocol for network share, use the following command: racadm set idrac.supportassist.DefaultProtocol 1
   The accepted protocol are NFS (1) and CIFS (2). The default protocol is CIFS.
- To save a default sharename for network share, use the following command: racadm set idrac.supportassist.DefaultShareName /home/nfs\_share
   The ShareName attribute accepts a string of 0 to 64 characters in length.
- To save a default IP Address for network share, use the following command: racadm set idrac.supportassist. DefaultIPAddress 10.232.117.89
   The IPAddress attribute accepts valid IPv4 and IPv6 address.
- To save a default User Name for network share, use the following command: racadm set idrac.supportassist. DefaultUserName *user1* The UserName attribute accepts a string of 0 to 64 characters in length.
- To save a default Password for network share, use the following command: racadm set idrac.supportassist. DefaultPassword *password* The Password attribute accepts a string of 0 to 64 characters in length.
- To save a default workgroup name for network share, use the following command: racadm set idrac.supportassist. DefaultWorkgroupName *workgroupname* The WorkgroupName attribute accepts a string of 0 to 64 characters in length.

# FILTERED VS NON-FILTERED COLLECTION

If necessary, you can also filtered Personally Identifiable Information (PII) from SupportAssist Collections. The option to filter the SupportAssist Collection can be selected during a manual collection generation through all available iDRAC interfaces.

# **IDRAC GUI**

SupportAssist Collection	on	0
Select the data to include	in the SupportAssist Collection	
Data to Collect		
System Information	1 1	
🖉 Storage Logs		
OS and Application	Data 🕕	
🔲 Debug Logs 🌀		
Collection Preferences		
🗹 Filter Data 🕕		
Send Now	Save Locally	Save to Network
		Consol Collector
		Cancel Collect

# WSMAN

<p:Filter>1</p:Filter>

# RACADM

## racadm supportassist collect - - filter

- Filtered collections will exclude Personally Identifiable Information from System Information Data.
- Filtered collections will include filtered OS Application Data, if available on the installed Host Operating System.
- Filtered collections will exclude the entire Storage Logs and Debug logs (if these data sets were selected during collection generation).
- Filtered collections will exclude Chassis logs on Odyssey platforms.
- Filtered collections will include Chassis logs for Enclosure Controller (14th generation modular) platforms.
- By default filtering is disabled, when the filter option is not specified.
- For scheduled auto collections, the filtering option can be set in SupportAssist settings. For information on filtering automatic collections, see the SupportAssist on Dell EMC's 14th generation of PowerEdge servers technical white paper.

# **APPENDIX**

 How to build and execute wsman commands: http://en.community.dell.com/techcenter/systems-management/w/wiki/4374.how-to-build-and-execute-wsman-methodcommands