

Avaya Solution & Interoperability Test Lab

# Application Notes for Integrated Research Prognosis for Unified Communications R11.7 with Avaya Aura® System Manager R8.1 - Issue 1.0

## Abstract

These Application Notes describe the procedures for configuring Integrated Research Prognosis for Unified Communications R11.7 to interoperate with Avaya Aura® System Manager R8.1.

Prognosis for Unified Communications R11.7 provides real-time monitoring and management solutions for IP telephony networks. Prognosis for Unified Communications R11.7 provides visibility of Avaya and other vendor's IP Telephony solutions from a single console and enables a reduction in complexity when managing complex IP telephony environments.

Readers should pay attention to **Section 2**, in particular the scope of testing as outlined in **Section 2.1** as well as any observations noted in **Section 2.2**, to ensure that their own use cases are adequately covered by this scope and results.

Information in these Application Notes has been obtained through DevConnect compliance testing and additional technical discussions. Testing was conducted via the DevConnect Program at the Avaya Solution and Interoperability Test Lab.

# 1. Introduction

These Application Notes describe the compliance tested configuration used to validate Prognosis for Unified Communications R11.7 (herein after referred to as Prognosis) with Avaya Aura® System Manager R8.1.

The Prognosis product uses Simple Network Management Protocol (SNMP) to collect configuration and status information from System Manager.

# 2. General Test Approach and Test Results

The general test approach was to use Prognosis web interface (webui) to display the hardware details of System Manager.

DevConnect Compliance Testing is conducted jointly by Avaya and DevConnect members. The jointly-defined test plan focuses on exercising APIs and/or standards-based interfaces pertinent to the interoperability of the tested products and their functionalities. DevConnect Compliance Testing is not intended to substitute full product performance or feature testing performed by DevConnect members, nor is it to be construed as an endorsement by Avaya of the suitability or completeness of a DevConnect member's solution.

Avaya recommends our customers implement Avaya solutions using appropriate security and encryption capabilities enabled by our products. The testing referenced in these DevConnect Application Notes included the enablement of supported encryption capabilities in the Avaya products. Readers should consult the appropriate Avaya product documentation for further information regarding security and encryption capabilities supported by those Avaya products.

Support for these security and encryption capabilities in any non-Avaya solution component is the responsibility of each individual vendor. Readers should consult the appropriate vendor-supplied product documentation for more information regarding those products.

For the testing associated with these Application Notes, the interface between Avaya systems and the Prognosis did not include use of any specific encryption features as requested by Integrated Research.

## 2.1. Interoperability Compliance Testing

For feature testing, Prognosis Webui was used to view the configurations of System Manager such as the memory and CPU utilizations, disk usage and status.

For serviceability testing, reboots were applied to the Prognosis and System Managers to simulate system unavailability. Loss of network connectivity to both Prognosis, System Manager were also performed during testing.

### 2.2. Test Results

All test cases passed successfully with the following being observed:

• Communication Manager name configured on Prognosis needs to have the name matched with that configured on System Manager SIP entities. Otherwise the correct PBX will not be monitored.

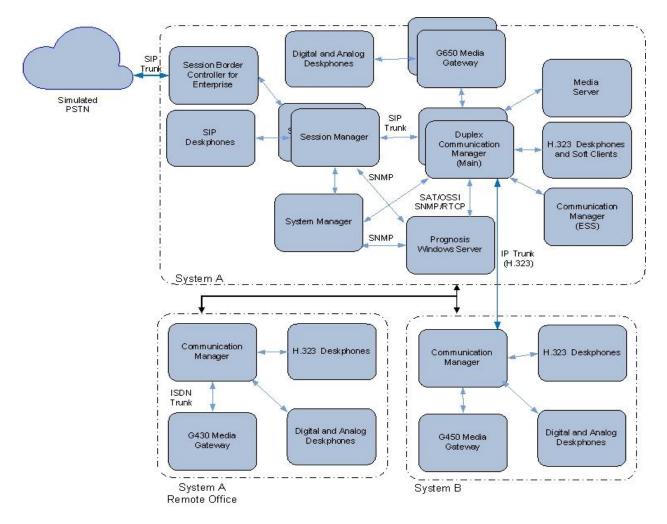
### 2.3. Support

For technical support on Prognosis, contact the Integrated Research Support Team at:

- Hotline: +61 (2) 9966 1066
- Email: support@ir.com

## 3. Reference Configuration

**Figure 1** illustrates the test configuration used to verify Prognosis interoperability with System Manager. The configuration consists of a duplex pair of Communication Manager system (System A) with two Avaya G650 Media Gateways and an Avaya G430 Media Gateway with Communication Manager as a Local Survivability Processor (LSP). A simplex Enterprise Survivable Server (ESS) was also configured. A second Communication Manager system (System B) has an Avaya G450 Media Gateway. Avaya H323, SIP, digital and analog endpoints, and Avaya one-X® Communicator user were configured for making and receiving calls. IP trunks connect the two systems together to allow calls between them. System Manager and Session Manager provided SIP support to the Avaya SIP endpoints. Prognosis was installed on a server running Microsoft Windows Server 2016. Both the Monitoring Node and Web Application software are installed on this server. Avaya Session Border Controller for Enterprise was used to complete a SIP trunk connection to simulate a PSTN connection to the Enterprise solution.



**Figure 1: Test Configuration** 

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# 4. Equipment and Software Validated

The following equipment and software were used for the sample configuration provided:

Equipmont/S of two	Dologo/Vargion		
Equipment/Software	Release/Version		
Avaya Aura® Communication Manager	R018x.01.0.890.0		
	R8.1.1.0.0 – FP1		
	Update ID 01.0.890.0-25763		
Avaya Aura® Media Server	R8.0.1.121		
G650 Media Gateway			
- TN2312BP IP Server Interface	HW07, FW058		
- TN799DP C-LAN Interface	HW01, FW044		
- TN2602AP IP Media Processor	HW02 FW067		
- TN2302AP IP Media Processor	HW20 FW121		
- TN2464BP DS1 Interface	HW05, FW025		
- TN2464CP DS1 Interface	HW02 FW025		
- TN793CP Analog Line	HW09, FW012		
- TN2214CP Digital Line	HW08, FW016		
- TN2501AP Announcement	HW03 FW023		
Avaya Aura® Communication Manager	R018x.01.0.890.0		
	R8.1.1.0.0 – FP1		
	Update ID 01.0.890.0-25763		
G450 Media Gateway	41.16.0		
- MM722AP BRI Media Module (MM)	HW01 FW008		
- MM712AP DCP MM	HW07 FW015		
- MM714AP Analog MM	HW10 FW0104		
- MM717AP DCP MM	HW03 FW015		
- MM710BP DS1 MM	HW11 FW054		
Avaya Aura® Communication Manager	R018x.01.0.890.0		
	R8.1.1.0.0 – FP1		
	Update ID 01.0.890.0-25763		
G430 Media Gateway	41.16.0		
- MM712AP DCP MM	HW04 FW015		
- MM716AP Analog MM	HW12 FW104		
- MM711AP Analog MM	HW31 FW104		
- MM710AP DS1 MM	HW05 FW022		
Avaya Aura® Communication Manager	R018x.01.0.890.0		
	R8.1.1.0.0 – FP1		
	Update ID 01.0.890.0-25763		
Avaya Aura® System Manager	System Manager 8.1.1.0		
	Build No. – 8.1.0.0.733078		
	Software Update Revision No:		
	8.1.1.0.0310912		
	Feature Pack 1		

Equipment/Software	Release/Version	
Avaya Aura® Session Manager	Session Manager R8.1 FP1	
	Build No. – 8.1.0.0.810021	
J100 Series IP Telephones		
- J179	4.0.2.1.3 (SIP)	
- J129	6.8202 (H323)	
96x1 Series IP Telephones		
- 9641G	7.1.6.1.3 (SIP)	
- 9611G	6.8202 (H323)	
Avaya IX Workplace	3.7.0.102.3 (SIP)	
1600 Series IP Telephones	1.312 (H.323)	
- 1616		
- 1603SW		
Digital Telephones	R20	
- 9408		
Avaya Analog Phones	-	
Desktop PC with Avaya one-X	6.2.13.04 SP13 (H.323)	
Communicator		
Prognosis running on Microsoft Windows	11.7	
Server 2016		

Note: All Avaya Aura® systems and Prognosis runs on VMware 6.x virtual platform.

# 5. Configure Avaya Aura® System Manager

This section describes the steps needed to configure System Manager to interoperate with Prognosis. This includes configuration of the SNMP v3 user profile for System Manager.

### 5.1. Configure SNMP for Avaya Aura® System Manager

System Manager 8.1 supports SNMPv2 for notifications and GET/SET operations will work only for V3. The following shows the steps to create SNMPv3 user profiles and assign the profile to System Manager. Using a web browser, enter https://<IP address of System Manager> to connect to the System Manager server being configured and log in using appropriate credentials.

Recommended access to System Manager is via FQDN.	A
Go to central login for Single Sign-On	User ID:
If IP address access is your only option, then note that authentication will fail in the following cases:	Password:
<ul> <li>First time login with "admin" account</li> <li>Expired/Reset passwords</li> </ul>	Log On Cancel
Use the "Change Password" hyperlink on this page to change the password manually, and then login.	Change Password
Also note that single sign-on between servers in the same security domain is not supported when accessing via IP address.	O Supported Browsers: Internet Explorer 11.x or Firefox 65.0, 66.0 and 67.0.
This system is restricted solely to authorized users for legitimate business purposes only. The actual or attempted unauthorized access, use, or modification of this system is strictly prohibited.	
Unauthorized users are subject to company disciplinary procedures and or criminal and civil penalties under state, federal, or other applicable domestic and foreign laws.	
The use of this system may be monitored and recorded for administrative and security reasons. Anyone accessing this system expressly consents to such monitoring and recording, and is advised that if it reveals possible evidence of criminal activity, the evidence of such activity may be provided to law enforcement of dicals.	
All users must comply with all corporate instructions regarding the protection of information assets.	

On the home screen, select Services  $\rightarrow$  Inventory  $\rightarrow$  Manage Serviceability Agents  $\rightarrow$  SNMPv3 User Profiles.

	sers 🗸 🎤 Ele	ments v	Services v Widgets	; ~	Shortcuts v	
Aura® System Manager 8.1 Home Inventory			Backup and Restore			
Inventory ^	Managa	Comilaa	Bulk Import and Export			
Manage Elements	Manage	Servicea	Configurations			
Create Profiles and Disc	Serviceabil	ity Agents	Events			
Cicule Profiles and Dise	Action	Description				
Element Type Access	SNMPv3 User Profiles	Create, vie	Geographic Redundancy		profiles.	-
Subnet Configuration	SNMP Target Profiles	Create, vier	Inventory		Manage Elements	
-	Notification Filter Profile	Create, vier	Licenses		Create Profiles and Discover SRS/SCS	
Manage Serviceabilit ^	Serviceability Agents	Activate Se				to the selected Serviceab
SNMPv3 User Profil			Replication		Element Type Access	
SNMP Target Profiles			Reports		Subnet Configuration	
Notification Filter P			Scheduler		Manage Serviceability Agents >	SNMPv3 User Profiles
Serviceability Agents			Security		Synchronization >	SNMP Target Profiles
Synchronization 🗸 🗸 🗸 🗸 🗸			Shutdown		Connection Pooling >	Notification Filter Profile
Connection Pooling Y			Solution Deployment Manager			Serviceability Agents

LYM; Reviewed: SPOC 4/21/2020

Solution & Interoperability Test Lab Application Notes ©2020 Avaya Inc. All Rights Reserved. 7 of 21 PROG11\_7-SMGR81 Click **New** (not shown) to add a new user profile. Enter the details for the **User Details** according to security level required. The user profile will be defined in the Prognosis configuration **Section 6**. For more secured configuration, the profiles can be adjusted here, and the corresponding Prognosis configuration in **Section 6** must then be adjusted as well.

- User Name: avayasnmp [Enter a descriptive name desired]
- Authentication Protocol: [Select MD5 or SHA]
- Authentication Password: [Enter and confirm password]
- **Privacy Protocol**: [Select DES or AES]
- **Privacy Password**: [Enter and confirm password]
- **Privileges**: Read

Click **Commit** to submit. Below is the configuration setup in this compliance test.

New User Profile	Commit Back
User Details	
* User Name: avayasnmp	
* Authentication Protocol: MD5 <b>•</b>	
* Authentication Password: ••••••	
* Confirm Authentication Password: •••••••	
* Privacy Protocol: AES 🔻	
* Privacy Password: ••••••	
* Confirm Privacy Password: ••••••	
* Privileges: Read 🔻	
*Required	Commit Back

Navigate to **Inventory**  $\rightarrow$  **Manage Serviceability Agents**  $\rightarrow$  **Serviceability Agents**. Check that the System Manager Agent Status is active. Select the System Manager (**smgr.sglab.com**) and select the **Manage Profiles** tab.

entory ^			-			Help
Manage Elements	Se	rviceability A	igents			
Create Profiles and Disc	Age	nt List				
Element Type Access	A	ctivate Manage Pr	ofiles Generate Test A	Alarm Repair Serviceability Agent Mar	nage Profile Job Status Reset 1	Table Advanced Search •
Subnet Configuration	8 Ite	ms I 🍣 I Show 🛛 All 🔻	]			Filter: Enable
		Hostname	IP Address	System Name	System OID	Status
Manage Serviceabilit 🔺		g450-US	IP Address 127.0.0.1	g450-US	System OID	Status
-					System OID	
Manage Serviceabilit ^ SNMPv3 User Profil		g450-US	127.0.0.1	g450-US	System OID	active
- SNMPv3 User Profil		g450-US Utility-Services	127.0.0.1 10.1.40.14	g450-US Utility-Services	System OID	active
-		g450-US Utility-Services sm1.sglab.com	127.0.0.1 10.1.40.14 10.1.10.60	g450-US Utility-Services sm1.sglab.com		active inactive inactive
SNMPv3 User Profil		g450-US Utility-Services sm1.sglab.com sm1.sglab.com	127.0.0.1 10.1.40.14 10.1.10.60 10.1.10.59	g450-US Utility-Services sm1.sglab.com Session Manager		active inactive inactive inactive
- SNMPv3 User Profil		g450-US Utility-Services sm1.sglab.com sm1.sglab.com sm3.sglab.com	127.0.0.1 10.1.40.14 10.1.10.60 10.1.10.59 10.1.10.47	g450-US Utility-Services sm1.sglab.com Session Manager sm3.sglab.com	.1.3.6.1.4.1.6889.1.36	active inactive inactive active

#### Select SNMPv3 User Profiles tab.

Home Inventory *		0		
Inventory     Home / Services / 1	nventory / Manage Service	ability Agents / Serviceability Ag	ents	
Manage Elements Create Profiles and Discover SRS/SCS	ofile			Commit Back
Element Type Access Selected Agents	SNMP Target Profiles	SNMPv3 User Profiles		
Subnet Configuration  Manage  Selected Age	jents 💌			
Serviceability Agents 1 Item 🍣			Fi	lter: Enable
SNMPv3 User Hostname	IP Address	System Name	System OID	Status
Profiles smgr.sglab.com	n 10.1.10.46	Avaya-Aura-System-Manager	1.3.6.1.4.1.6889.1.35	active
SNMP Target Profiles Notification Filter Profile Serviceability Agents				Commit Back

Click *down arrow* beside **Assignable Profiles** section if it is not expanded. Select the user profile created earlier. Click **Assign** to assign the profile to System Manager. The user profile will move to the **Removable Profiles** section as shown below. Click **Commit** to submit the changes.

Home Inventory					
Inventory ^	Manage <b>P</b> rofile				Commit Back
Create Profiles and Disc	Selected Agents SN	MP Target Profiles	SNMPv3 User Profiles		
Element Type Access	Assignable Profil	es 👳			
Subnet Configuration	Assign				
Manage Serviceabilit 🔨	0 Items 🛛 😂	Authentication P	entocal	Privacy Protocol	Privileges
SNMPv3 User Profil	No records to displ		010001	The protocol	Trivileges
SNMP Target Profiles	Removable Profil	es 🔹			
Notification Filter P	1 Item 🛛 🍣				
Serviceability Agents	User Name	Authentication	Protocol	Privacy Protocol	Privileges
Synchronization 🗸 🗸	avayasnmp	MD5		DES	R
Connection Pooling V	Select : All, None				Commit Back

SSH into the System Manager command line interface and log in as valid user. Verify that the SNMP service is **active (running)** using the command "**service snmpd status**". Otherwise, run the command "**service snmpd restart/start**" to start SNMP service daemon. Login with sufficient privileges to perform this verification.

cust >service snmpd status
<ul> <li>snmpd.service - Simple Network Management Protocol (SNMP) Daemon.</li> </ul>
Loaded: loaded (/usr/lib/systemd/system/snmpd.service; enabled; vendor preset: disabled
Active: active (running) since Mon 2020-01-06 10:34:42 +08; 4 weeks 1 days ago
Main PID: 5982 (snmpd)
CGroup: /system.slice/snmpd.service
└─5982 /usr/sbin/snmpd -LSO-63 -f
cust >

## 5.2. Download SIP Entities and Entity Links XML Files

The SIP Entities and Entity Links XML files are required for input into Prognosis for configuration of all the SIP Entities and Entity Links. These files can be downloaded from System Manager.

On the System Manager home screen (not shown), select **Elements**  $\rightarrow$  **Routing**  $\rightarrow$  **SIP Entities** and select **Export all data** in the **More Actions** drop-down menu. Save the zip file into the local PC hard disk. Extract the files "*<user name>EntityLinks.xml*" and "*<user name>SipEntities.xml*". Rename the files without the user name. Upload the renamed files "EntityLinks.xml' and "SipEntities.xml" into the Prognosis server in **Section 6**.

Home	Session Manager	Rou	ting				
Routing	^	SIP	Entities			Help	
Doma	ains	New	Edit Delete Duplicate	More Actions			
Locati	tions	10 Ite	ems I 🍣	SIP Entity Reference Report Import Export SIP Entities		Filter: Enable	
Condi	litions		Name	Export all data	Туре	Notes	
			AAEP-MPP	Deny new service for all Entity Links	Voice Portal	Voice Portal	
Adapt	otations ~		<u>AA Messaging</u>	Accept new service for all Entity Links	Other	AAM on DL360G7	
SIP En			<u>Avaya-CE</u>	10.1.10.20	Avaya Breeze		
SIPER	nuties		CM7-Duplex	10.1.10.230	CM		
Entity	/ Links		<u>g450-CM</u>	10.1.60.18	CM		
Linuty			IPSE Expansion	10.1.30.151	SIP Trunk		
Time	Ranges		IPSE Primary	10.1.10.121	SIP Trunk		
			presence	10.1.10.20	Presence Services		
Routir	ing Policies		<u>sm1</u>	10.1.10.60	Session Manager	VMware 10.1.10.137	
			<u>sm2</u>	10.1.10.42	Session Manager	VMWare 10.1.10.135	
Dial P	Patterns Y	Select	t : All, None				

# 6. Configure Integrated Research Prognosis

This section describes the configuration of Prognosis required to interoperate with System Manager.

Log into the Prognosis Windows 2016 server with administrative privileges. Launch the Prognosis Administration by clicking **Start**  $\rightarrow$  **All Programs**  $\rightarrow$  **Prognosis**  $\rightarrow$  **Prognosis Administration**. Log in with the appropriate password.

	prognosis	
Use	rname	
Pas	sword	
	Login	
	Prognosis Online   Community	

#### Click Add System.

in prognosis   Administration						
Home	🗄 🏪 \WIN-5MNFV5FJ64V	Description				
Call Recording Assurance		Prognosis node - WIN-5MNFV5FJ				
Assured Users		Details				
		IP Address:	10.1.10.124			
Tenants		Version:	Prognosis 11.7.0			
Navigation		Operating System:	Windows Server 2016 Standard			
Security		Status:	Connected			
Web Reports		UC & Infrastructu	re Configuration			
Automation		Add System				

Select **Avaya System/Session Manager** from the drop-down menu. Click **Add** to add a new System Manager.

System/Session Manage	ers		
Avaya System/Session Manager		Add	

In this test configuration, the following entries are added for System Manager with display name of **SMGR8** and IP address as **10.1.10.46**.

The following settings were configured during the compliance test.

**Basic Details**:

- Display Name: SMGR8
- IP address: 10.1.10.46
- Customer Name: Avaya
- Site Name: DevCon Lab

#### **Configuration**:

Browse for the SIP Entities and Entity Links XML files downloaded in **Section 5.2** and copy into the Prognosis server.

#### **SNMP Connection Details**:

Select "Use SNMP Version 3" and enter the settings as configured in Section 5.1.

Leave the **Databases and Thresholds** as checked. Click **Add** at the bottom to affect the addition.

Add Avaya System Man	ager	
Basic Details		
Display Name: *	SMGR8	
IP Address: *	10.1.10.46	
Customer Name:	Avaya	
Site Name:	DevCon Lab	
Configuration		
Sip Entities XML File:	C:\Users\Administrator\I	Browse
Entity Links XML File:	C:\Users\Administrator\I	Browse
SNMP Connection Details		
O Use SNMP Version 2c		
Use SNMP Version 3		
Authentication Protocol:	MD5	~
Authentication User Name: *	avayasnmp	
Authentication Password: *	•••••	
Encryption Method:	DES	$\checkmark$
Encryption Password: *	•••••	
Databases and Thresholds		
Start standard databases a	and thresholds	
Add Cancel		

Solution & Interoperability Test Lab Application Notes ©2020 Avaya Inc. All Rights Reserved. Return to the home screen; check that **SMGR8** is created under the server name in the middle pane. Click on the **SMGR8** highlighted below.

in prognosis   Administration View S						
Home	E 👫 \WIN-5MNFV5FJ64V					
Call Recording Assurance		Prognosis node - WIN-5MNFV5FJ64V				
Assured Users	CM8-DUPLEX	Details				
	<b>A</b> ESS	IP Address: 10.1.10.124				
Tenants	A G450-CM	Version: Prognosis 11.7.0				
Navigation	A SMGR8	Operating System: Windows Server 2016 Standard				
Security		Status: Connected				
Web Reports		UC & Infrastructure Configuration				
Automation		Add System				
Configuration Item Mapping						
Alert Suppression		Do you have Microsoft Skype for Business? Why do I need this?	ß			
High Availability		Manage Prognosis Regions				

On the right pane, check that the **Sip Entities XML File** and **Entity Links XML File** are **LOADED**.

LSPREMOTE	Update Avaya System Manager Session Managers					
A CM8-DUPLEX						
A ESS	Name	SIP Address	Management IP	Monitor		
▲ G450-CM	SM1	10.1.10.60		No	Edit	
A SMGR8	SM2	10.1.10.42		No	Edit	
	Basic Detail	s				
		IP Address: *	10.1.10.46			
		Display Name:	SMGR8			
	System	Manager Version:	0			
		Customer Name:	Avaya			
	4	Site Name:	DevCon Lab			
	Configuratio	on				
	Sij	p Entities XML File:	LOADED	*		Browse
	En	tity Links XML File:	LOADED	39		Browse

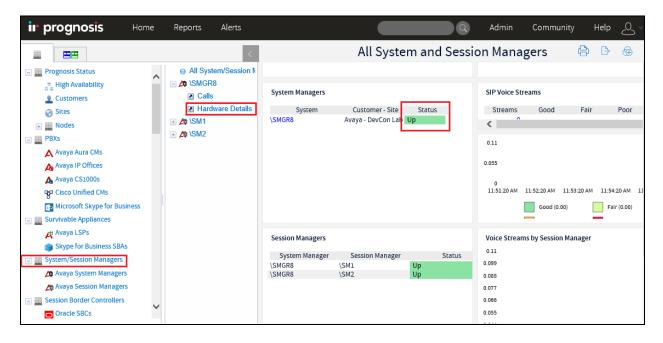
# 7. Verification Steps

This section provides the tests that can be performed to verify proper configuration of Prognosis. The following steps are done using the Prognosis webui.

After logging into Prognosis webui as in **Section 6**, expand the server "WIN-5MNFV5FJ64V" in the middle pane and verify that the System Manager **SMGR8** is listed. Then select **View Systems** on the top right icon (not shown).

Home	🗉 🔡 \WIN-5MNFV5FJ64V	<b>.</b> .						
Call Recording Assurance	K LSPREMOTE	Prognosis node - WIN-5MNFV5FJ64V						
Assured Users	CM8-DUPLEX	Details						
Tenants	<b>A</b> ESS	IP Address:	10.1.10.124					
	▲ G450-CM	Version:	Prognosis 11.7.0					
Navigation	SMGR8	Operating System:	Windows Server 2016 Standard					
Security		Status:	Connected					
Web Reports		UC & Infrastruct	ure Configuration					
Automation		Add System						
Configuration Item Mapping								

Select **System/Session Managers** on the left pane. Check that the System Manager created earlier i.e., **SMGR8** is shown. Verify also the System Manager **Status** is **Up**. Expand SMGR8 by clicking the + symbol and select **Hardware Details**.



		Av	/aya System l	Manager -	Hardware	Print 🕒	Excel Export	Add to Mashup
Node: \SMGR8								
System Details								
Name	IP Address	Status	Up Time					
\SMGR8	10.1.10.46	Up	29 days 6 hrs					
System Descript	on							
	Description		Contact	Lo	cation			
"Avaya Aura Syste		support@a		Avaya				
Memory Utilizati	on %			Total CPU Ut	ilization %			
100				100				
90				90				
80				80				CPU 0
70				70				CPU 1
60			Physical memory	60				
50			Swap space	50				CPU 2
40			=	40				CPU 3
30			Total	30				CPU 4
20				20				CPU 5
10				10				
0 4:41:30 PM 4:44:30 F	PM 4:47:30 PM 4:50:30 PM	4:53:30 PM		0 4:41:30 PM 4:44	4:00 PM 4:46:30 PM	4:49:00 PM 4:5	1:30 PM 4:54:00 PM	1
Physical Drives				Virtual Drive	s			
Index Cap	(GB) Type	Removable	Access	Index	Description	Cap (GB)	Full (%)	Failures
				1	Physical memory	11.58		0
					Virtual memory	15.58		0
					Memory buffers Cached memory	11.58		0
					Shared memory	0.72		ō
				31	1	4.14		0
					/dev/shm /run	5.79 5.79		0
				30	Jun	5.79	1	v

### Verify the hardware of System Manager and it has the correct IP Address.

## 8. Conclusion

These Application Notes describe the procedures for configuring the Integrated Research Prognosis R11.7 to interoperate with Avaya Aura® System Manager 8.1. In the configuration described in these Application Notes, Prognosis obtained the configuration and status information through SNMP from System Manager. During compliance testing, all test cases were completed successfully with observations in **Section 2.2**.

## 9. Additional References

The following Avaya documentations can be obtained on the http://support.avaya.com.

- [1] Administering Avaya Aura® Communication Manager, Release 8.1.x, Issue 5, Nov 2019.
- [2] Administering Avaya Aura® System Manager, Release 8.1.x, Issue 3, Jul 2019
- [3] Application Notes for Integrated Research's Prognosis for Unified Communications 11.7 with Avaya Aura® Communication Manager R8.1.
- [4] Application Notes for Integrated Research Prognosis for Unified Communications 11.7 with Avaya Aura® Session Manager R8.1.
- [5] Avaya Aura® System Manager 7.1 SNMP Whitepaper, Issue 1.0, Apr 2017.

Prognosis documentations are provided in the online help that comes with the software package.

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