

Avaya Solution & Interoperability Test Lab

Application Notes for Teleopti WFM with Avaya IP Office Contact Center – Issue 1.0

Abstract

These Application Notes describe the configuration steps required for Teleopti WFM to interoperate with Avaya IP Office Contact Center. Teleopti WFM is a work force management solution.

In the compliance testing, Teleopti WFM used the Web Service Collection interface from Avaya IP Office Contact Center to monitor real-time agent states, for analysis and display of agent states and adherence against planned schedules.

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 configuration steps required for Teleopti WFM to interoperate with Avaya IP Office Contact Center. WFM is a work force management solution.

In the compliance testing, WFM used the Web Service Collection (WSC) interface from IP Office Contact Center to monitor real-time agent states, for analysis and display of agent states and adherence against planned schedules.

The DirectoryWS web service of WSC is used by WFM to obtain basic and detail information on agents, and the MonitoringWS web service is used by WFM to monitor agents' working and logging states.

The IP Office Contact Center configuration included connection to an IP Office Server Edition environment consisted of two IP Office systems, a primary Linux server and an expansion IP500V2 that were connected via Small Community Network (SCN) trunks.

2. General Test Approach and Test Results

The feature test cases were performed both automatically and manually. Upon start of the WFM application, the application established WSC connectivity to IP Office Contact Center for obtaining agent information and for requesting agent monitor.

For the manual part of the testing, each call was handled manually on the agent desktop running the IP Office Contact Center User Interface to alter agent states.

The serviceability test cases were performed manually by disconnecting/reconnecting the Ethernet connection to WFM.

The verification of agent states included viewing of the reported agent states over the WFM web interface. For simplicity, the testing did not include creation of agent schedules.

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 IP Office Contact Center and WFM utilized the enabled capabilities of TLS.

2.1. Interoperability Compliance Testing

The interoperability compliance test included feature and serviceability testing.

The feature testing focused on verifying the following on WFM:

- Use of WSC DirectoryWS web service to obtain agent basic and detail information.
- Use of WSC MonitoringWS web service to monitor agent working and logging states.
- Proper reporting of agent states for scenarios involving log in, log out, on/off break, after call work, inbound, outbound, internal, external, personal, hold/reconnect, transfer, conference, multiple agents, long duration, and outbound campaign.

The feature testing included agents on both IP Office systems.

The serviceability testing focused on verifying the ability of WFM to recover from adverse conditions, such as disconnecting/reconnecting the Ethernet connection to WFM.

2.2. Test Results

All test cases were executed and verified.

The one observation on WFM is that by design, all agent states were initially reported as **Ungrouped states** by default. WFM required all desired agent states to manually occur and therefore captured by the application, before the administrator can configure the preferred reporting of such states.

2.3. Support

Technical support on WFM can be obtained through the following:

- Phone: <u>https://www.teleopti.com/wfm/about/contact/contact-me.aspx</u>
- Email: <u>servicedesk@teleopti.com</u>

3. Reference Configuration

WFM can be configured on a single server or with components distributed across multiple servers. The compliance testing used a single server configuration, as shown in **Figure 1**.

The detailed administration of basic connectivity between IP Office Contact Center and IP Office, and of contact center devices is not the focus of these Application Notes and will not be described.

The contact center devices used in the compliance testing is shown in the table below. In the testing, WFM monitored all agents shown below.

Contact Center Devices	Values
Supervisor User	37880
Agent Phones	21031, 22031
Agent Users	37881-4
Agent Names	Agent1-4



Figure 1: Compliance Testing Configuration

4. Equipment and Software Validated

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

Equipment/Software	Release/Version
Avaya IP Office Contact Center	10.1.0.0
Avaya IP Office Contact Center User Interface on Windows 10	10.1.0.0
Avaya IP Office Server Edition (Primary) in Virtual Environment	10.1.0.0.0
Avaya IP Office on IP500 V2 (Expansion)	10.1.0.0.0
Avaya 1608-I IP Deskphone (H.323)	1.3110
Avaya 9611G & 9641G IP Deskphone (H.323)	6.6506
Teleopti WFM on Windows Server 2012 • Web • Log Server • Microsoft SQL Server 2017	8.6.504.50953 R2 Standard 8.6.504.50953 7.2.1.74979 RC1

Compliance Testing is applicable when the tested solution is deployed with a standalone IP Office 500 V2 and also when deployed with IP Office Server Edition in all configurations.

5. Configure Avaya IP Office Contact Center

This section provides the procedures for configuring IP Office Contact Center. The procedures include the following areas:

- Launch Administration
- Verify license
- Launch User Interface
- Administer agents
- Administer registry
- Restart services

The Certificate Authority root certificate and the IP Office Contact Center server identity certificate are assumed to be pre-installed on the IP Office Contact Center server.

5.1. Launch Administration

From the IP Office Contact Center server, access the Administration web-based interface by using the URL "https://host-name:28443/Administration" in an Internet browser window, where "host-name" is the host name of the IP Office Contact Center server.

Log in using the administrator credentials.

	IP Office Contac	t Center Administration
	User Name	
AVAYA	Password	
O'NO'NO	Language English	
		Login
	By logging in, you agree to be boun	by the terms of the End User License Agreement.
	©2017 Avaya Inc. All Rights Reserv	ed.

5.2. Verify License

The **Dashboard** screen is displayed. Select **Settings** \rightarrow **License** from the top menu.



The **License Manager - Information** screen is displayed next. Scroll the screen as necessary, and verify that there is sufficient license for **Number of concurrent Team Leaders**, as shown below.

Office Contact Center Manage -	Download 🗸	Settings 🗸		Administrat	or-
cense Manager - Information					
WebLM Address *	Port Number *				
10.64.101.235	52233				
URN*	WebLM Client ID				
/WebLM/LicenseServer	Client ID				
Feature		Expiration D	Licensed	Acquired	
Number of concurrent User with Extended Voice fea	atures	Permanent	10	3	-
Number of concurrent Team Leaders		Permanent	10	1	
		2 8	10	1	- 1
Number of concurrent Supervisors		Permanent	10	1	

5.3. Launch User Interface

From the IP Office Contact Center server, select **Start** \rightarrow **Apps**, and click on **User Interface** to display the screen below. Log in using administrative credentials.

A		YA	
IP O	ffice Cont	act Cente	ər
Username	[~ [Login
Password			<u>E</u> xit
Telephone Extension	<none></none>	~	

5.4. Administer Agents

The **IP Office Contact Center** screen is displayed. Expand **Administration** in the left pane, and click on the **Settings** icon shown below.

A IP Office C	ontact Ceni	ter							
<u>F</u> ile <u>G</u> o to <u>H</u> el	р								0:02 / 0:00
Agent Portal	Configuratio	in Systen	n Service	Windows	Help				
Supervision	View:	<al></al>							
Administration	⊅⊂ PBXs	р Засна	P server	VEAs	🛛 🍲 Countrie	es C	Queue devices	0 - Telephone	s (告Telephone groups
ά	©	Topics	Agent	groups 🛛 🔬	Agents	Profiles	🛛 😡 Teams	Customers	External destinations
-*									

Select the **Agents** tab, to display a list of agent users. Select **Create** to create a new agent user for WFM.

	<alb< th=""><th></th><th></th><th></th><th></th><th></th><th></th></alb<>						
PBXs	SCHAP server 25	/EAs 🌪 (s 🧕 Agent	Countries 😭 s <u>(</u> Profiles	Queue devices	0⊟ Telephones Customers ₪	(E Telephone groups 🍋 (External destinations] An	Chat server 🎕 Chat scrip nouncement scripts 🔗 IV
Name		< Tel	E-mail Chat	Number	PBX	E-mail address	Edit
Agent 1		X		37881	PBXServer		
Agent2		X		37882	PBXServer		<u>C</u> reate
Agent3		X		37886	PBXServer		Copy
Agent4 Supervise	-1	×		3/88/ 2700n	PBXServer		
Supervisor	-2	Ŷ		37000	PBXServer		Delete
		~~~~					<u>R</u> efresh
			1		T	1	100 million (100 million)

The **[Agent]** – **Create** screen is displayed. Enter desired **System name** and **Login name**, and retain the default values in the remaining fields. Select **Password**.

[Agent] - Create		
		ОК
Teleopti     Task types       Teleopti     Telephony       E-mail     Chat	Password 2nd password	Cancel
	Variables	
<system language=""></system>	Skills	
) Mr. Image		
<none></none>	Authorization	
User defined		
Standard		
	Teleopti Task types   Teleopti Telephony   E-mail Chat     (System language>     Mr.     Image     (None>     User defined     Standard	Teleopti Task types   Teleopti Telephony   E-mail 2nd   Password   2nd   password   Skills   Variables   Skills   Availability     Mr.   Image   Image   Image   Image   Image     Authorization     Standard

In the Overwrite Login Password pop-up box, enter desired password, and click OK.

The [Agent] – Create screen from above is displayed again. Click on the box next to **Privileges**.

<u>N</u> ew password:	•••••	ОК
Confirm password:	********	Cancel

The Agent privileges screen is displayed. Check all parameters under Team leader, as shown below.

Agent       UI       E-mail       Configuration       Variables       OK         Reporting       Realtime Information       Task Row Editor       Others       Cancel         - Agent       P       All agents (Authorization)       P       Cancel         Callback from call list       Pick up       P       P       Redirect       P         Delete from call list       Pick up       Redirect from Queue       P       P       P         Team leader       P       Trunk realtime information       P       P       P       P         Qut of office notice       Imagent All agent History       P       P       P       P       P         Supervisor       Supervisor Emergency       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P <t< th=""><th>۲</th><th>A</th><th>Agent privileges</th><th></th><th>x</th></t<>	۲	A	Agent privileges		x
Agent       P       All agents (Authorization)       P         Callback from call list       Pick up       P         Delete from call list       Redirect       P         Redirect from Queue       Redirect from Queue       P         Vertice and the provided of th	Agent UI Reporting Realtin	E-mail E-mail	Configuration <u>V</u> ariables Task Flow Editor Others		OK Cancel
Team leader   Realtime information   Remote functions   Out of office notice   Agent History   Supervisor   Configuration   Silent Monitoring   Supervisor Assistance	Agent     Callback from call list     Delete from call list	P	All agents (Authorization) Pick up Redirect Redirect from Queue	P	
	<ul> <li>Team leader</li> <li>Realtime information</li> <li>Remote functions</li> <li>Out of office notice</li> <li>Supervisor</li> <li>Configuration</li> <li>Silent Monitoring</li> </ul>		<ul> <li>Trunk realtime information</li> <li>Agent History</li> <li>Supervisor Emergency</li> <li>Supervisor Assistance</li> </ul>		

The [Agent] - Create screen is	displayed again.	Select Authorization.
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1		[Agent] - create		-
eneral Advanced System name: Login name:	Teleopti Teleopti	Task types Telephony Email Chat	Password 2nd password	OK Cancel
Nias: Language: Title	<system langu<="" th=""><th>age&gt; V</th><th>Variables Skills Availability</th><th></th></system>	age> V	Variables Skills Availability	
⊖ Ms. Last name: First name: Employee ID:		Image		
Cost center:				

The **Authorizations** screen is displayed. Select the **Topic** tab. Select the desired topics to be monitored by WFM, followed by **Add**. In the compliance testing, the **<All>** entry was selected to enable WFM to monitor all topics.

Repeat this procedure to set the desired resources to be monitored by WFM in all remaining tabs. In the compliance testing, the **<All>** entry was selected in all tabs.

Authoriza	ations
View: <all> Agent Magent Magent Compared to the second second</all>	View View Assigned Free All

### 5.5. Administer Registry

For IP Office Contact Center servers that are upgraded from release 9.x, the registry setting needs to be updated to enable support for TLS 1.1 and 1.2.

Select Start  $\rightarrow$  Run, and enter "regedit" to display the **Registry Editor** screen. Navigate to Computer  $\rightarrow$  HKEY_LOCAL_MACHINE  $\rightarrow$  SOFTWARE  $\rightarrow$  Avaya  $\rightarrow$  IPOCC  $\rightarrow$  Procrun 2.0  $\rightarrow$  Tomcat_WSC  $\rightarrow$  Parameters  $\rightarrow$  Java, and double click on the Options parameter shown below.

1 Alexandre and a second se	Regist	ry Editor		_ <b>_</b> X
File       Edit       View       Favorites       Help         Image: HKEY_LOCAL_MACHINE       Image: HKEY_LOCAL_MACHINE       Image: HKEY_LOCAL_MACHINE         Image: HKEY_LOCAL_MACHINE       Image: Hardware       Image: Hardware         Image: HKEY_LOCAL_MACHINE       Image: Hardware       Image: Hardware         Image: Hardware       Image: Hardware <th>Regist ↑</th> <th>Ry Editor Name (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (</th> <th>Type REG_SZ REG_SZ REG_SZ REG_MULTI_SZ</th> <th>Lata (value not set) C:\Program Files (x86)\Avaya' C:\Program Files (x86)\Avaya' -Xmx1280M -Xss128K -XX:Ma</th>	Regist ↑	Ry Editor Name (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (Default) (	Type REG_SZ REG_SZ REG_SZ REG_MULTI_SZ	Lata (value not set) C:\Program Files (x86)\Avaya' C:\Program Files (x86)\Avaya' -Xmx1280M -Xss128K -XX:Ma
▷ - Jorcat ▲ - Jorcat WSC ▲ - Jorcat Parameters - Java - Log	~	<	Ш	
Computer\HKEY_LOCAL_MACHINE\SOFTWARE\Avaya\IPOCC\Pr	rocrun 2	.0\Tomcat_WSC\Pa	irameters\Java	At

The **Edit Multi-String** dialog box is displayed. Add the "–Dhttps.protocols=TLSv1.1, TLSv1.2" line as shown below.

Edit Multi-String
Value name:
Options
Value data:
-Xmx1280M -Xss128K -XX:MaxPermSize=256M -Dcatalina.home=C:\Program Files (x86)\Avaya\IP Office Contact -Dcatalina.base=C:\Program Files (x86)\Avaya\IP Office Contact -Djava.endorsed.dirs=C:\Program Files (x86)\Avaya\IP Office Cor -Djava.io.tmpdir=C:\ProgramData\Avaya\IPOCC\Web Service Co -Djava.util.logging.manager=org.apache.juli.ClassLoaderLogMana -Djava.util.logging.config.file=C:\Program Files (x86)\Avaya\IP Off -Dhttps.protocols=TLSv1.1,TLSv1.2
< III >
OK Cancel

#### 5.6. Start Services

Select Start  $\rightarrow$  Administrative Tools  $\rightarrow$  Services to display the Services screen. Restart the **IPOCC Tomcat WSC** service.

0		_ 🗆 🗙				
File Action View	Help					
	à 🔒 🛛 🖬 🕨 🔳 🕪					
🔍 Services (Local)	Name ^	Description	Status	Startup Type	Log On As	^
	🔍 IPOCC Statistic Generator	Avaya IP Of	Running	Manual	Local Syste	
	🧟 IPOCC Statistic Scheduler	Avaya IP Of	Running	Manual	Local Syste	
	🔍 IPOCC Tomcat	Avaya IP Of	Running	Manual	Local Syste	
	🔅 IPOCC Tomcat WSC	Avaya IP Of	Running	Manual	Local Syste	
	🔍 IPOCC Tomcat WWW	Avaya IP Of	Running	Manual	Local Syste	
	🔍 IPOCC Trace Server	Avaya IP Of	Running	Automatic	Local Syste	
	🌼 IPOCC UI Session Manager	Avaya IP Of	Running	Manual	Local Syste	
	🧠 IPOCC UM ClientAdapter	Avaya IP Of	Running	Manual	Local Syste	
	🍓 IPOCC UM ConfigServer	Avaya IP Of	Running	Manual	Local Syste	
	🔍 IPOCC UM POP3IMAP4 Clie	Avaya IP Of	Running	Manual	Local Syste	~
	Extended Standard					

## 6. Configure Teleopti WFM

This section provides the procedures for configuring WFM. The procedures include the following areas:

- Administer Teleopti WFM Integrations
- Administer agents
- Administer state groups and states
- Administer people

The configuration of WFM is typically performed by Teleopti Professional Services. The procedural steps are presented in these Application Notes for informational purposes.

The Certificate Authority root certificate and the WFM server identity certificate are assumed to be pre-installed on the WFM server.

#### 6.1. Administer Teleopti WFM Integrations

From the WFM server running the Log Server component, navigate to the C:\Program Files (x86)\Teleopti\TeleoptiLog Server\ Integrations directory, and double click on Teleopti.Ccc.Integration.exe.



The **Teleopti WFM Integrations** screen is displayed. Retain the default values and click **Connect**.

	×					
Teleopti	WFM Integrations					
O Windows Authentication						
⊙ SQL Serv	ver authetication					
User name	teleopti					
Password	•••••					
O Monitor	only <ul> <li>Edit settings</li> <li><u>C</u>onnect</li> </ul>					
Choose account to use when	inserting integration (at least DbCreator + SecurityAdmin roles)					

The screen below is displayed next. Select and expand the pertinent and pre-configured aggregation database in the left pane, followed by **RTA** under the relevant logging object, in this case **TeleoptiAgg_IPOCC**  $\rightarrow$  **IPOCC**  $\rightarrow$  **RTA**. This **Source** screen is displayed. Enter the following values for the specified fields.

- AccessLoginName: The agent user credentials from Section 5.4.
- AccessPassword: The agent user credentials from Section 5.4.
- DirectoryWsHost: The IP address of the IP Office Contact Center server.
- DirectoryWsPort: "18443"
- MonitoringWsEndpointObser: "5443"
- MonitoringWsHost: The IP address of the IP Office Contact Center server.
- MonitoringWsPort: "18443"
- UseIpAddressForMonitorObs: "YES"
- UseSSL: "True"

Teleopti WF	M Integrations - Data	a Import Configuration	Tool - Version 7.2.1.74979	_ 🗆 🗙
Monitor TeleoptiAgg_Demo TeleoptiAgg_IPOCC (1) IPOCC RTA Stats Import File Import	Source	AccessLoginName AccessPassword DirectoryWsHost DirectoryWsPort MonitoringWsEndpointObser MonitoringWsHost MonitoringWsPort UseIpAddressForMonitorObs UseSSL	Teleopti         10.64.101.227         18443         5443         10.64.101.227         18443         YES         True	

#### 6.2. Administer Agents

From the WFM server running the SQL Server component, navigate to Start  $\rightarrow$  Apps  $\rightarrow$  Microsoft SQL Server Management Studio 17 to launch and connect to the SQL Server.

	SQL Server				
Server type:	Database Engine	~			
<u>S</u> erver name:	WIN-LD0N0TK8GKE\SQLEXPRESS				
Authentication:	SQL Server Authentication	~			
<u>L</u> ogin:	toptiuser				
Password:	+				
	Remember password				

Expand the relevant database tables, in this case **TeleoptiAgg_IPOCC**  $\rightarrow$  **Tables**. Right click on the **dbo.agent_info** entry and select **Edit Top 200 Rows**. In the right pane, add an entry for each agent to monitor from **Section 5.4**.

- Agent_name: A desired and unique name.
- is_active: "True"
- log_object_id: The relevant object ID, in this case "1".
- orig_agent_id: The corresponding agent name from Section 5.4.



### 6.3. Administer State Groups and States

From the WFM server, access the web interface by using the URL "http://hostname/TeleoptiWFM" in an Internet browser window, where "host-name" is the host name of the WFM server running the Web component. Log in using the administrative credentials (not shown). The **TELEOPTI** screen below is displayed. Select **Resource Planners**.



The Teleopti WFM: Main portal IPOCCC screen is displayed next. Select the FILE tab.



The screen is updated as shown below. Select **Options** in the left pane.

$\odot$	Teleopti WFM: Main portal IPOCCC	? _ 🗖 X
Options		
Permissions		
My profile		
Help F1		

In the updated screen, select **Real Time Adherence**  $\rightarrow$  **State Groups and States** in the left pane, to display the **Manage State Groups and States** screen.

The **Manage State Groups and States** screen will be initially empty, with only the **Ungrouped states** category. As new agent states are received from IP Office Contact Center, the states will begin to appear in this screen and shown under the **Ungrouped states** category. Follow reference [4] to create desired groups and drag the ungrouped states into the created groups. The screen below shows the states groups and states generated and configured in the compliance testing.



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### 6.4. Administer People

Follow the procedures in **Section 6.3** to display the **Teleopti WFM: Main portal IPOCCC** screen. Select **People** from the bottom of the screen, followed by the **Business Hierarchy** tab in the left pane. Double click on the pre-configured site entry, in this case "test".

Teleopti WF	M: Main portal IPOCCC ? – 🗖 🗙
Business Hierarchy       Contract       Contract ≤ M       M       ▼         11/1/2017       ▼         ▲ ◎ IPOCCC	Please configure your email address to access Teleopti resources.
►	
A People 🛗 Forecasts 🤇	Shifts 武 Schedules …

The **People – Teleopti WFM** screen is displayed next. Follow reference [4] to create an entry for each agent from **Section 6.2**. Note that the available external logons shown in the right pane were automatically picked up from IP Office Contact Center via the WSC interface.

- Full name: A desired and unique name.
- Site/Team: Select the pertinent pre-configured site and team, in this case "test/test".
- External logon: Select the pertinent logon name from the right pane, as shown below.

<u>ج</u>	HOME SE	TTINGS		Pec	ople – 1	eleopti WFM				?	- <b>-</b> ×
Sav File	e Cut Copy Paste ▼ Clipboard	New 🗸	) Filter	F	ilter perso Filter	onal account	11/1, <<	/2017 < > Periods	>>	•	
	Full name	Date	Site/Tea	m	Skills	External logo	n		Skills	External lo	gon
1	Agent1 Primary	10/16/201 -	test/test			IPOCC-agent1 (IPO	OCC)	default	Filteri	ng	504 - H
2	Agent2 Primary	10/16/2017 👻	test/test	-		IPOCC-agent2 (IPO	CC)	default			
3	Agent3 Expansion	10/16/2017 -	test/test	-		IPOCC-agent3 (IPO	CC)	default	-	lanar insur	
4	Agent4 Expansion	10/16/2017 👻	test/test	-		IPOCC-agent4 (IPO	CC)	default	Has	External logon	Log object
		5.5							V	IPOCC-agent1	IPOCC
										IPOCC-agent2	IPOCC
										IPOCC-agent3	IPOCC
										IPOCC-agent4	IPOCC

# 7. Verification Steps

This section provides the tests that can be performed to verify proper configuration of IP Office Contact Center and WFM.

Access the WFM web interface by using the URL "http://ip-address/TeleoptiWFM" in an Internet browser window, where "ip-address" is the IP address of the WFM server hosting the Web component. Log in using the appropriate credentials (not shown).

The **Teleopti WFM IPOCCC** screen is displayed. Select **Real Time Adherence** from the left pane, to display a list of monitored agents and their states. Verify that all agent states are reflected properly.

⇐ Teleopti WFM IPOCC	Č.▼		3	• • • G				
• Permissions	O Agents DASHBOARD AGENTS			<b>a</b>				
🖻 Requests	Monitor up to 50 agents							
🛈 Real Time Adherence	Select a skill Selec	Teams: test	_					
Ø Intraday								
🕰 Teams	<b>V</b> Filter agent na		IN ALA	ARM ALL				
💵 Reports	Name † = Site/Team =	18:00 19:00	20:00 21	State ≡ :				
🐻 MyTime	Agent1Primary test/test		Not	ready				
	Agent2 Primary test/test		Logg	ged out				
	Agent3 Expansion test/test		Logg	ged out				
	Agent4 Expansion test/test		Read	yk				

Establish an ACD call from the PSTN with an IP Office Contact Center agent. Verify that the answering agent's state is updated properly, in this case "Agent4 Expansion" state updated to "Busy", as shown below.

← Teleopti WFM IPOCC			ê 🗘 🖯 🕞					
• Permissions	O Agents DASHBOARD AG	ENTS	<u> </u>					
🖻 Requests	Monitor up to 50 agents							
🛈 Real Time Adherence	Select a skill	Select skill area	Teams: test					
Ø Intraday								
🕰 Teams	<b>T</b> Filter agent na		IN ALARM ALL					
L Reports	Name↑ = Site/Team	= 18:00 19:00	20:00 21 State = ;					
🐻 MyTime	Agent1Primary test/test		Not ready					
	Agent2 Primary test/test		Logged out					
	Agent3 Expansion test/test		Logged out					
	Agent4 Expansion test/test		Busy					

## 8. Conclusion

These Application Notes describe the configuration steps required for Teleopti WFM to successfully interoperate with Avaya IP Office Contact Center. All feature and serviceability test cases were completed with observations noted in **Section 2.2**.

## 9. Additional References

This section references the product documentation relevant to these Application Notes.

- 1. Using Avaya IP Office Contact Center Web Administration Portal, Release 10.1, Issue 1, May 2017, available at <u>http://support.avaya.com</u>.
- **2.** Using the Avaya IP Office Contact Center Configuration and User Interface Configuration Modules, Release 10.1, Issue 1, May 2017, available at <a href="http://support.avaya.com">http://support.avaya.com</a>.
- **3.** Administering Avaya IP Office[™] Platform with Manager, Release 10.1, June 2017, available at <u>http://support.avaya.com</u>.
- 4. *Teleopti WFM Installation Guide*, 2017-06-02, available at <u>http://www.teleopti.com</u>.

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