

Avaya Solution & Interoperability Test Lab

Application Notes for Teleopti CCC with Teleopti Log Server and Avaya Call Management System - Issue 1.0

Abstract

These Application Notes describe the configuration steps required for Teleopti CCC with Teleopti Log Server to successfully interoperate with Avaya Call Management System (CMS).

Teleopti CCC is a workforce management solution for contact centres and uses the Avaya CMS Generic Real-Time Adherence (RTA) package to gain access to real-time agent information from the Avaya CMS.

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 CCC with Teleopti Log Server to successfully interoperate with Avaya Call Management System (CMS).

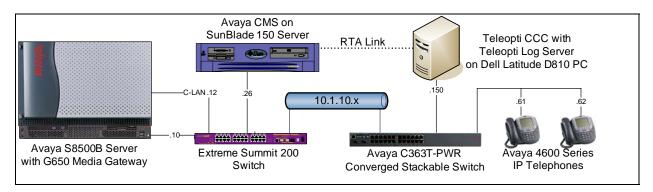
Teleopti CCC is a Workforce Management application suite. It is designed to help plan customer contact centres in optimising customer satisfaction, profitability, and employee satisfaction.

The Teleopti Log Server is an optional component providing real-time updates from an Avaya CMS running the Generic-Real-Time Adherence (RTA) package. This allows the supervisor to see at a glance both the planned call centre activities overlaid with the actual situation. Coloured text is used to highlight discrepancies between the two situations, and whether these discrepancies are having a positive or negative effect on the performance of the contact centre.

Although the link between Avaya CMS and Teleopti Log Server is the Generic-RTA package of CMS, it is necessary for an ACD to be configured on Avaya Communication Manager for this interface to generate data. Whilst a full description of the configuration of a CMS is beyond the scope of these Application Notes, it is important to understand that this is essential for an operational system.

These Application Notes focus on the configuration of the Generic-RTA package on Avaya CMS and the configuration of the Teleopti Log Server on the Teleopti CCC server.

The configuration shown in the diagram below shows the compliance-tested configuration.



2. Equipment and Software Validated

The following equipment and software were used in the compliance-tested configuration.

Equipment	Software
Avaya S8500B Server	Avaya Communication Manager 4.0.1
Avaya G650 Media Gateway	N/A
C-LAN TN799DP	HW1 FW24
Sun Blade 150	Sun Solaris 9.0
	Avaya CMSr14aa.h
	Generic-RTA package v6.0_pl2
Avaya 4610SW IP Telephones (H.323)	2.8
Avaya 4602SW IP Telephones (H.323)	2.3
Avaya 9620SW IP Telephones (H.323)	1.5
Dell Latitude D810	Microsoft Windows XP, Service Pack 2
	Teleopti CCC 6.6
	Teleopti Log Server 7.0
	Microsoft SQL Server 2000

3. Configure Avaya CMS

This section provides the procedures for configuring the Generic-RTA package on Avaya CMS.

Please note that it is expected that the installer is familiar with configuring the switch integration, storage intervals etc. on the Avaya CMS as the focus of these Application Notes is on the configuration of the Generic-RTA interface only. For all other provisioning information, such as software installation, installation of optional components, basic configuration of Avaya CMS, etc., refer to the Avaya CMS product documentation in reference [1].

3.1. Configure the Generic-RTA package on Avaya CMS

A file, "install.txt", with instructions on how to configure the Generic-RTA package, accompanies the Generic-RTA Package for CMS. The parts of this file relevant to these Application Notes have been included below with informational annotations in italics.

Step 4 assumes that the Generic-RTA package (genCpio.Z) is installed in the /usr/spool/uucppublic directory. This command must be changed if this path is not correct.

```
4) uncompress genCpio.Z
```

- 5) cpio -iv < genCpio
- 6) sh setup

The "setup" shell script from **Step 6** then asks a few questions about the installation so that the files can be customised. These include the name of the installer and ticket number, which were fictional in this configuration. It also asks the name of the remote host (this is the Teleopti RTA Server) and whether EAS has been configured. In this configuration, the remote host was called RTAHost and EAS was configured on the ACD.

For **Step 7** only a single ACD, and therefore a single session, was used in this configuration, although a customer environment may have several configured.

```
8) edit startrta, stoprta & testrta
      change rta_XXX to rta_gen
      change "HOST" & "acdl" as needed
      the last command line arg should be 'acdl'
      acdX is the ACD that will be used for the time stamp
      If non-EAS add "-n" as the lst command line option.
```

The files in **Step 8** *should have been configured by the install script – verify the values are correct.*

The 1st section of **Step 9** must be performed from the CMS menus and not from the command prompt. Many installations do not have a "root2" user and so use "root" instead. It is necessary to start "screen painter" having created the report, so that the last copy command has a destination file name. The actual command is "cp" rather than "copy".

```
9) As 'cmssvc', create a private Custom Real Time report named 'rta_gen'.
   "F3" to Unix
   su root2
   cd /cms/db/gem/r_custom
   ls -ltr
  copy '/export/home/pserv/rta_gen/rta_gen.gem' to the newly created file
 Note:
 If EAS or EAS-Phd, use rta_gen.gem.
 If non-EAS, use Nrta_gen.gem.
 Note: If they do not have at least r3v6as.g you will have to change
         AGDURATION to AGTIME.
10) Create a main menu addition
  Main Menu - Sys Setup
    Main Menu Addition
      name - Generic-RTA
      path - /export/home/pserv/rta_gen/menurta
      add
   Main Menu - User Permissions
    Main Menu Addition Access
      User IDs = cms
      Addition = Generic-RTA
      Access = y
      Modify
11) If this is an HA CMS configuration, and Generic-RTA is installed on both
   CMS's, edit "startrta" and make the indicated "CHANGE".
   NOTE: If this is an HA CMS and they have RTA soley on the Secondary,
           the Screen Painter report must still be installed on both.
```

For Step 11 high availability was NOT tested as part of this process.

```
12) Test the software.

./testrpt - runs the report - no logging

./testrta - sends the output to the port & Log & screen

Note:

if no data - vi .rtainpl

field 1 = ACD(s)

field 2 = skills

field 3 = refresh
13) Test the Main Menu addition.

run the Main Menu addition - 1) Start Generic-RTA

shut off Gen-RTA from the menu addition - 2) Stop Generic-RTA

from Unix:

>Log (to clear the log)
14) If there are multiple ACDs and they are in different time zones, edit

"offset" and make the necessary CHANGE(s).
```

Since the Generic RTA package needs a license in order to run as a Main Menu addition, contact the Avaya Professional Services Organisation to request a license file. This is linked to the Avaya CMS server's MAC address for security purposes. The command "hostid" will return the value as required by the license generation process.

4. Configure Teleopti CCC with Teleopti Log Server

This section provides the procedures for configuring Teleopti Log Server on the Windows XP server used by Teleopti CCC.

Please note that it is expected that the installer is familiar with configuring the database mappings, data collection, etc., on the Teleopti CCC server as the focus of these Application Notes is on the configuration of the CMS Generic RTA interface only. For all other provisioning information, such as software installation, installation of optional components, basic configuration of Teleopti CCC, etc., refer to the Teleopti CCC product documentation in reference [2].

4.1. Configure Teleopti Log Server on Teleopti CCC

Select **Start > Programs > Teleopti Log > Teleopti Log Server Settings**. On the Teleopti Log Server Settings screen, select **New Setting**.

Teleopti Log Server Sett	tings						
	Log Node	Enabled	Туре	Schedule	Status	Colum	
New Setting							
Edit Setting							
Delete Setting							
Schedule							
New Setting Edit Setting Delete Setting Schedule Utilities							

Configure the fields on the **New Setting** screen as follows.

- Main Node: Select the node name that was created during the install of Teleopti Log Server from the drop down box.
- Log Scenario: Select Avaya RTA from the drop down box.

Select the **TCP Server** radio button and select **Next**.

New Setting	×
Í.	D
Main Node	
Guildford Avaya RTA	
Log Scenario	
Avaya RTA	
Communication	
Rtp TCP Server Direct Telnet TCP Client None	
< Back Next > Cancel	

Solution & Interoperability Test Lab Application Notes ©2007 Avaya Inc. All Rights Reserved. Configure the fields on the Edit Setting screen as follows.

- **Port:** Enter "6996", this is the default port for RTA
- **RowDelimiter:** "VBLF"
- **ShowDebug:** "False"
- StartTag: "TS"
- **StoppTag:** "EOD"
- WriteToTextFile: "False"

Select Finish.

Settings	Guildford Avaya	RTA Avaya RTA		£
paramete	er	value		
Port		6996		
RowDelin	niter	VBLF		
ShowDeb	bug	False		
StartTag		TS		
StoppTa	9	EOD		
WriteToT	'extFile	False		

5. Interoperability Compliance Testing

The interoperability compliance test included feature and serviceability testing.

The feature testing focused on verifying Teleopti CCC w/Teleopti Log Server's ability to receive Real-Time Adherence data from Avaya CMS using the CMS Generic-RTA package. A small call centre was setup in Avaya Communication Manager and various tests were executed including.

- Agent in various states, e.g. Available, Aux Work, After Call Work, etc.
- Agent on ACD calls.
- Agent on non-ACD calls.

The serviceability testing focused on verifying Teleopti CCC w/Teleopti Log Server's ability to recover from outages between itself and Avaya CMS.

5.1. General Test Approach

All feature and serviceability tests were performed manually. The verification included checking the agent states on the Teleopti web client and comparing them with the agent states on the Avaya CMS and Avaya Communication Manager.

5.2. Test Results

All test cases were executed and passed.

6. Verification Steps

This section provides the tests that can be performed to verify proper configuration of Avaya CMS and Teleopti CCC with Teleopti Log Server.

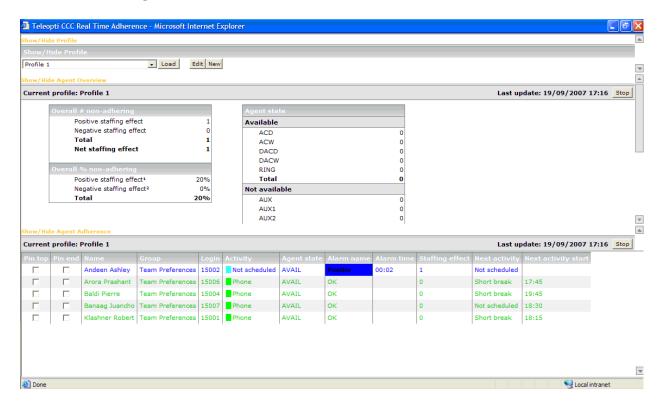
6.1. Verify Avaya CMS

Log into Avaya CMS as user "cms". From the main menu choose **Generic_RTA** (not shown). From the Generic-RTA Menu choose option 3, **Check Status**. If RTA is running and connected to Teleopti CCC with Teleopti Log Server, the following message should appear.

Generic-RTA session 1 is running and connected.

6.2. Verify Teleopti CCC

Log into the Teleopti CCC Real Time Adherence web client. The correct agent states should be shown under the **Agent State** column.



7. Support

For technical support on Teleopti CCC w/Teleopti Log Server, use the following information.

- Email: <u>support@teleopti.com</u>
- Phone: +46 8 544 90 560

8. Conclusion

These Application Notes describe the configuration steps required for Teleopti CCC with the Teleopti Log Server module to successfully interoperate with Avaya Call Management System (CMS). All tests were executed and passed successfully.

9. Additional References

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

- [1] Avaya Call Management System, Release 14, Software Installation, Maintenance, and Troubleshooting Guide, Document ID 07-601578, February 2007, available at: <u>http://support.avaya.com</u>.
- [2] Teleopti CCC product documentation is available, on request, from <u>http://www.teleopti.com</u>.

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