

Avaya Solution & Interoperability Test Lab

Application Notes for Merced Performance Suite with Avaya Call Management System using ODBC Interface – Issue 1.0

Abstract

These Application Notes describe the configuration steps required to integrate Merced Performance Suite (MPS) with Avaya Call Management System (CMS) via an ODBC connection. MPS is a web-based application that captures ACD call center data from Avaya CMS on a daily basis and presents that data in reports and dashboards. These reports and dashboards provide visibility into employee and operational performance. The call center data includes split/skill and agent activity data and is derived from Avaya Communication Manager.

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 to integrate Merced Performance Suite (MPS) with Avaya Call Management System (CMS) via an ODBC connection. MPS is a web-based application that captures ACD call center data from Avaya CMS on a daily basis and presents that data in reports and dashboards. These reports and dashboards provide visibility into employee and operational performance. The call center data includes split/skill and agent activity data and is derived from Avaya Communication Manager. The split and agent data queried by MPS is listed in the Appendix of these Application Notes.

1.1. Interoperability Compliance Testing

The interoperability compliance test focused on verifying the ability of Merced Performance Suite to import ACD call center data from Avaya CMS using the ODBC interface and displaying split/skill and agent data in MPS reports.

1.2. Support

Contact Merced Systems for technical support via the web, phone, or email.

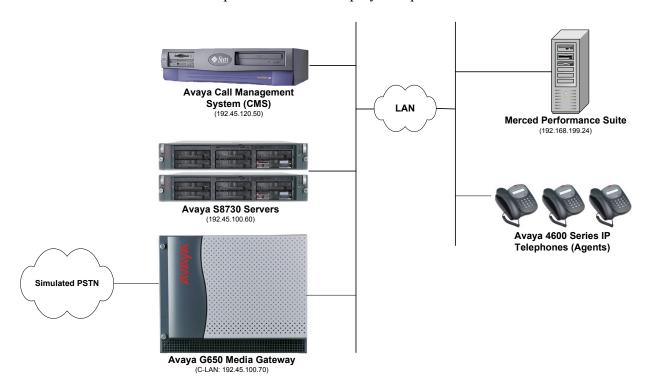
• Web: www.mercedsystems.com and go to Services

■ **Phone:** (650) 486-4000

■ Email: support@mercedsystems.com

2. Reference Configuration

The configuration illustrated below consists of Merced Performance Suite with Avaya Call Management System, Avaya S8730 Servers and G650 Media Gateway running Avaya Communication Manager, and Avaya 4600 Series IP telephones. The ACD call center was configured on Avaya Communication Manager with IP telephones assigned to each agent. The call center data was stored in an Informix database on Avaya CMS which was queried by MPS over an ODBC connection to capture the data to display in reports.



Merced Performance Suite with Avaya Call Management System

3. Equipment and Software Validated

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

Equipment	Software
Avaya S8730 Servers with G650 Media Gateway	Avaya Communication Manager 5.1.1 (R015x.01.1.415.1) with Service Pack 2.01 (Patch 19688)
Avaya Call Management System	r14aa.h
Avaya 4600 Series IP Telephones	2.8 (H.323)
Merced Performance Suite	3.5.3

4. Configure Avaya Communication Manager

This section provides the procedures for configuring Avaya Communication Manager. The procedures include the following areas:

- Verify Avaya Communication Manager Options.
- Administer adjunct CMS release.
- Administer IP node names for C-LAN.
- Administer IP interface for C-LAN.
- Administer data module for C-LAN.
- Administer processor interface channel.
- Administer measured VDN.
- Administer measured Skill.

The detailed administration of contact center devices such as ACD/Skill, VDN, Vector, and Agents are assumed to be in place. These Application Notes will only cover how to enable Split/Skill, VDN, and Agent data to be sent to Avaya CMS.

4.1. Verify Avaya Communication Manager Software Options

Log into the System Access Terminal (SAT) to verify that the Avaya Communication Manager license has proper permissions for features illustrated in these Application Notes. Use the "display system-parameters customer-options" command to verify that the **G3 Version** field is set to "V15" on **Page 1**, as shown below.

```
display system-parameters customer-options
                                                                     Page
                                                                            1 of 11
                                  OPTIONAL FEATURES
     G3 Version: V15
                                                    Software Package: Standard
       Location: 1
                                                 RFA System ID (SID): 1
       Platform: 6
                                                 RFA Module ID (MID): 1
                                                                  USED
                                  Platform Maximum Ports: 48000 779
                                        Maximum Stations: 36000 261
                               Maximum XMOBILE Stations: 0
                     Maximum Off-PBX Telephones - EC500: 50
                     Maximum Off-PBX Telephones - OPS: 50 Maximum Off-PBX Telephones - PBFMC: 0
                     Maximum Off-PBX Telephones - PVFMC: 0
                                                                  0
                     Maximum Off-PBX Telephones - SCCAN: 0
                                                                  Ω
        (NOTE: You must logoff & login to effect the permission changes.)
```

Navigate to **Page 6**, and verify that the **Call Center Release** field is set to "5.0", as shown below.

```
display system-parameters customer-options
                                                                 Page
                                                                        6 of 11
                         CALL CENTER OPTIONAL FEATURES
                          Call Center Release: 5.0
                                ACD? y
                                                                 Reason Codes? y
 BCMS (Basic)? y

BCMS/VuStats Service Level? y

BSR Local Treatment for IP & ISDN? n

Service Observing (Remote/By FAC)? y
                                          Service Observing (VDNs)? y
                  Business Advocate? y
                    Call Work Codes? n
                                                                    Timed ACW? y
      DTMF Feedback Signals For VRU? y
                                                            Vectoring (Basic)? y
                   Dynamic Advocate? y
                                                       Vectoring (Prompting)? y
                                                    Vectoring (G3V4 Enhanced)? y
      Expert Agent Selection (EAS)? y
                            EAS-PHD? y
                                                    Vectoring (3.0 Enhanced)? n
                   Forced ACD Calls? n
                                          Vectoring (ANI/II-Digits Routing)? y
                                           Vectoring (G3V4 Advanced Routing)? y
          Lookahead Interflow (LAI)? n
                                                            Vectoring (CINFO)? y
                                          Vectoring (Best Service Routing)? y
Multiple Call Handling (On Request)? y
   Multiple Call Handling (Forced)? y
                                                        Vectoring (Holidays)? y
  PASTE (Display PBX Data on Phone)? y
                                                        Vectoring (Variables)? n
        (NOTE: You must logoff & login to effect the permission changes.)
```

4.2. Administer Adjunct CMS Release

Use the "change system-parameters features" command and navigate to **Page 12**. Set the **CMS** (appl mis) field to the software release of the Avaya CMS. In this case, "R14" is used to correspond to Avaya CMS software release R14.0.

```
change system-parameters features
                                                               Page 12 of 17
                       FEATURE-RELATED SYSTEM PARAMETERS
 AGENT AND CALL SELECTION
                        MIA Across Splits or Skills? y
                        ACW Agents Considered Idle? y
                         Call Selection Measurement: current-wait-time
   Service Level Supervisor Call Selection Override? n
                                Auto Reserve Agents: all
 CALL MANAGEMENT SYSTEM
                          REPORTING ADJUNCT RELEASE
                                     CMS (appl mis): R14
                                     CCR (appl ccr):
                              BCMS/VuStats LoginIDs? y
                  BCMS/VuStats Measurement Interval: hour
          BCMS/VuStats Abandon Call Timer (seconds):
                    Validate BCMS/VuStats Login IDs? n
                          Clear VuStats Shift Data: on-login
                Remove Inactive BCMS/VuStats Agents? n
```

4.3. Administer IP Node Name for C-LAN

Use the "change node-names ip" command, to add entries for Avaya CMS and the C-LAN that will be used for connectivity. In this case, "cms" and "192.45.120.50" are entered as **Name** and **IP Address** for the Avaya CMS server, and "clan2" and "192.45.100.70" are entered as **Name** and **IP Address** for the C-LAN. The actual node names and IP addresses may vary. Submit these changes.

change node-names	ip			Page	1 of	1
	IP N	NODE NAMES				
Name	IP Address	Name	IP	Addres	SS	
clan	192.45 .100.66			•		
clan-1a05-AES2	192.45 .100.146			•		
cms	192.45 .120.50			•		
clan2	192.45 .100.70			•		

4.4. Administer IP Interface for C-LAN

Add the C-LAN to the system configuration using the "add ip-interface 2a02" command. The actual slot number may vary. In this case, "2a02" is used as the slot number. Enter the C-LAN node name assigned from **Section 4.3** into the **Node Name** field. The **IP Address** field will be populated automatically.

Enter proper values for the **Subnet Mask** and **Gateway Address** fields. In this case, "255.255.255.0" and "192.45.100.1" are used to correspond to the network configuration in these Application Notes. Set the **Enable Ethernet Port** field to "y". Default values may be used in the remaining fields. Submit these changes.

```
add ip-interface 2a02
                                                                    1 of
                                  TP INTERFACES
                 Type: C-LAN
                 Slot: 02A02
          Code/Suffix: TN799 D
            Node Name: clan2
           IP Address: 192.45 .100.70
                                                                 Link: 2
          Subnet Mask: 255.255.255.0
      Gateway Address: 192.45 .100.1
 Enable Ethernet Port? v
                                                Allow H.323 Endpoints? v
       Network Region: 1
                                                Allow H.248 Gateways? y
                                                  Gatekeeper Priority: 5
                 VLAN: n
Target socket load and Warning level: 400
      Receive Buffer TCP Window Size: 8320
                               ETHERNET OPTIONS
                 Auto? y
```

4.5. Administer Data Module for C-LAN

Add a new data module using the "add data-module n" command, where "n" is an available extension. Enter the following values, and submit these changes.

Name: A descriptive name.

■ **Type:** "ethernet"

• **Port:** Same slot number from **Section 4.4** above and port "17".

• **Link:** An available link number.

```
change data-module 24981

DATA MODULE

Data Extension: 24981

Name: Clan2

Type: ethernet
Port: 02A0217
Link: 2

Network uses 1's for Broadcast Addresses? y
```

4.6. Administer Processor Interface Channel

Assign a new processor interface channel with the "change communication-interface processor-channels" command. Add an entry with the following values, and submit these changes.

Enable: "y"Appl.: "mis"

■ **Mode:** "s" for server mode.

Interface Link: Link number for data module Ethernet port from Section 4.5.
 Interface Chan: TCP channel number for Avaya CMS. In this case "5001".

Destination Node: Avaya CMS server node name from Section 4.3.

Destination Port: "0"

• Session Local: Corresponding channel number in **Proc Chan** field. In this case "1".

• Session Remote: Corresponding channel number in Proc Chan field. In this case "1".

The **Interface Chan** field contains the Avaya CMS TCP channel number, which is defined as part of the Avaya CMS installation. For the compliance testing, the default TCP channel number of "5001" was used.

```
change communication-interface processor-channels

PROCESSOR CHANNEL ASSIGNMENT

Proc Gtwy Interface Destination Session Mach

Chan Enable Appl. To Mode Link/Chan Node Port Local/Remote IDnp

1: y mis s 2 5001 cms 0 1 1

2: n
```

4.7. Administer Measured VDN

Use the "change vdn n" command, where "n" is the extension of the VDN to be measured by Avaya CMS. Set the **Measured** field to "external" or "both" to enable measurement data on the VDN to be sent to Avaya CMS. Repeat this step for all VDNs that will be monitored by Avaya CMS.

```
change vdn 38000
                                                                Page
                                                                       1 of
                                                                               2
                            VECTOR DIRECTORY NUMBER
                             Extension: 38000
                                Name*: Merced VDN 1
                         Vector Number: 380
                  Meet-me Conferencing? n
                   Allow VDN Override? n
                                   COR: 1
                                   TN*: 1
                              Measured: both
       Acceptable Service Level (sec): 10
             Service Objective (sec): 20
        VDN of Origin Annc. Extension*:
                            1st Skill*:
                            2nd Skill*:
                            3rd Skill*:
* Follows VDN Override Rules
```

4.8. Administer Measured Skill

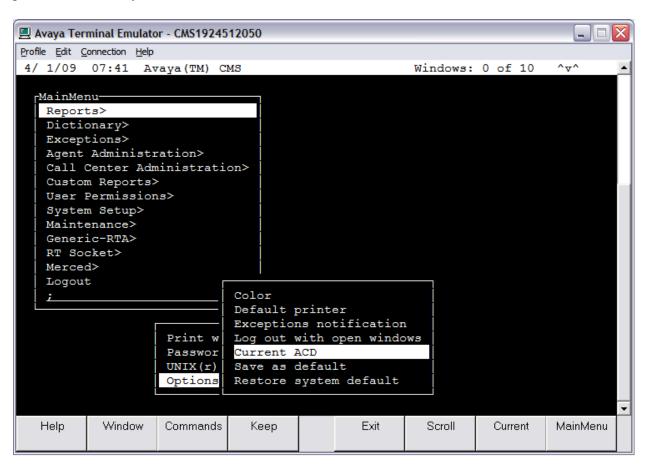
Use the "change hunt-group n" command, where "n" is the extension of the ACD/Skill group number to be measured by Avaya CMS. Set the **Measured** field to "external" or "both" to enable real-time measurement data on the ACD/Skill group and the associated agents to be sent to Avaya CMS. Repeat this step for all ACD/Skill groups that will be measured by Avaya CMS.

```
change hunt-group 280
                                                                       2 of
                                                                              3
                                                                Page
                                 HUNT GROUP
                                 Expected Call Handling Time (sec): 180
                   Skill? y
                     AAS? n
                                  Service Level Target (% in sec): 80 in 20
                Measured: both
                                           Service Objective (sec): 20
                                          Service Level Supervisor? y
    Supervisor Extension:
                                   Activate on Oldest Call Waiting? y
                                            Call Selection Override? n
     Controlling Adjunct: none
                                           Level 1 Threshold (sec): 50
                                           Level 2 Threshold (sec):
                                      Dynamic Threshold Adjustment? n
       VuStats Objective:
Timed ACW Interval (sec):
                                             Dynamic Queue Position? n
  Multiple Call Handling: none
                                Redirect on No Answer (rings):
                                              Redirect to VDN:
                  Forced Entry of Stroke Counts or Call Work Codes? n
```

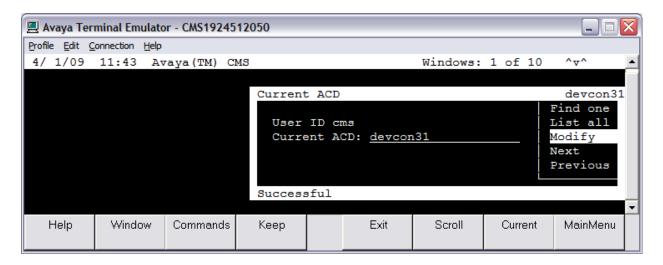
5. Configure Avaya Call Management System

This section covers the configuration of Avaya CMS to support the import of splits/skills, VDN, and agent data from Merced Performance Suite via the ODBC interface.

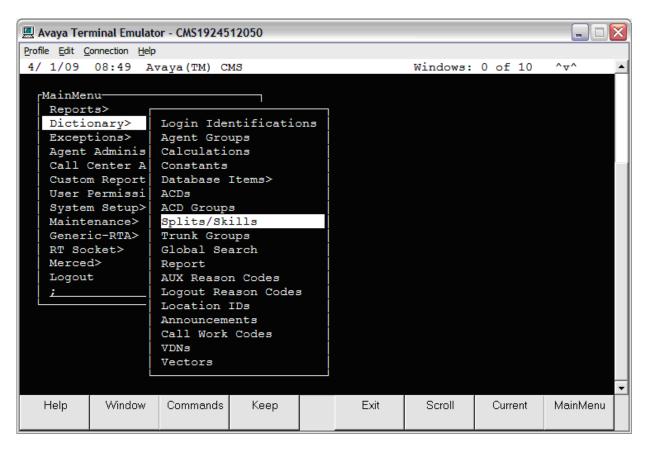
Use a terminal emulator to connect to the Avaya CMS server, and log in with the proper credentials. Enter "cms" at the command prompt to display the **Main Menu** screen. The first step is to configure the **Current ACD**, which in this case is *devcon31*, an ACD name assigned on Avaya CMS. From the CMS terminal emulator click on the **Commands** option button at the bottom of the screen. Navigate to **Options** — **Current ACD** to specify the current ACD and press the **Enter** key.



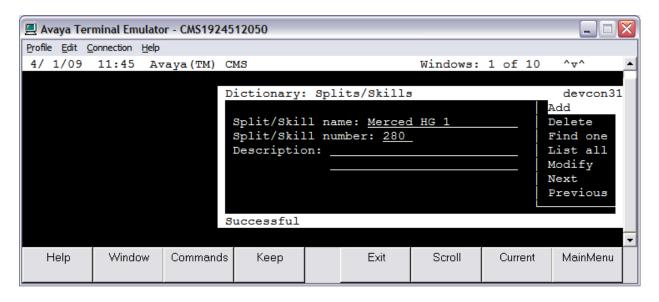
In the following screen, set the **Current ACD** field to *devcon31* (or the corresponding ACD number, which is '3' in this case) and then select **Modify** in the right pane of the screen. Hit the **Enter** key. Upon completion, *Successful* is displayed in the dialog box as shown in the figure below. Click the **Exit** button to return to the CMS main menu.



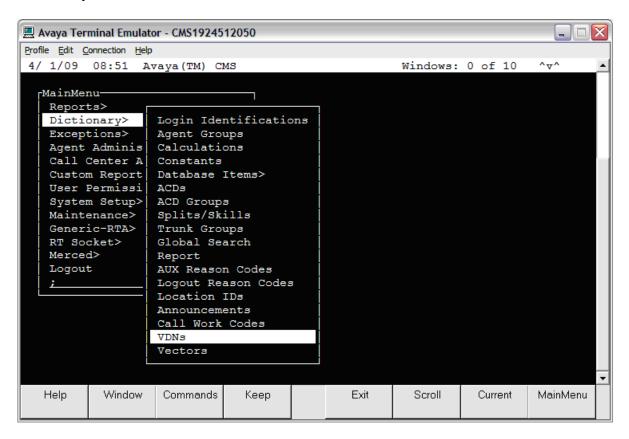
From the CMS main menu, navigate to **Dictionary** Splits/Skills, as shown below, to configure the splits/skills that will be monitored by MPS. Hit the **Enter** key.



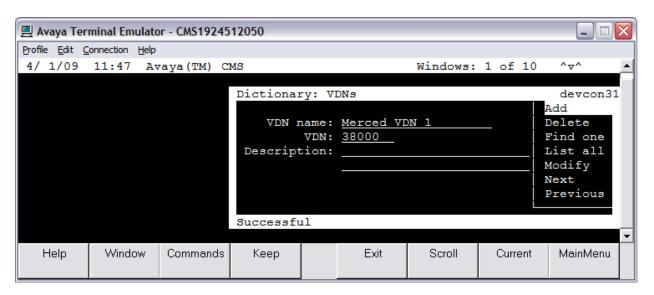
The **Dictionary:** Splits/Skills screen is displayed. Provide a descriptive name for the split/skill and the number assigned to the split/skill in Avaya Communication Manager (see section 4.8). Click the **Add** option in the right pane. Repeat this step for each split/skill to be monitored by MPS.



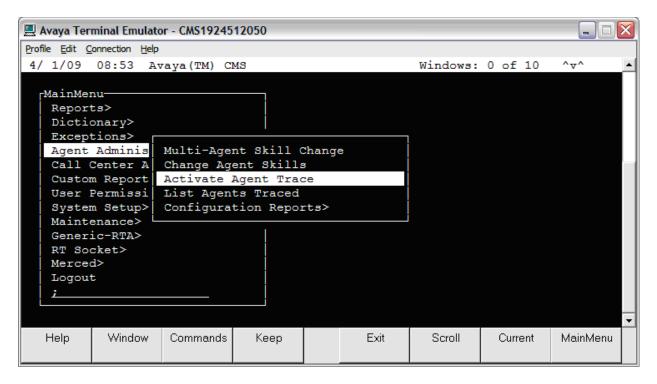
Return to the CMS main menu and navigate to **Dictionary VDNs** to configure the VDNs to be monitored by MPS.



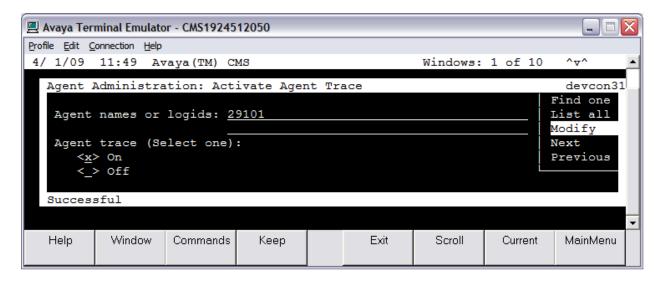
The **Dictionary: VDNs** screen is displayed. Provide a descriptive name for the VDN and the extension assigned to the VDN in Avaya Communication Manager (see **Section 4.7**). Click the **Add** option in the right pane. Repeat this step for each VDN to be monitored by MPS.



Next, agent tracing needs to be enabled for each ACD agent configured in Avaya Communication Manager to make the agent data accessible to MPS over the ODBC interface. From the CMS main menu, navigate to **Agent Administration** Activate Agent Trace and hit the Enter key.



From the **Agent Administration: Activate Agent Trace** screen shown below provide the login agent IDs for each agent and set the **Agent trace** field to *on*. Select **Modify** in the right pane. Click the **Exit** button at the bottom of the screen to return to the CMS main menu.



6. Configure Merced Performance Suite

This section provides the procedure for configuring Merced Performance Suite. MPS configuration is performed through the MPS web-based interface and properties files. Some of the procedures are outside the scope of these Application Notes, but they are mentioned in order to provide an overview of the configuration process. The MPS configuration is covered in detail in the Merced documentation listed in the References section. In addition, Merced Client Services can perform the configuration for customers. The procedures fall into the following areas, but are not limited to these areas:

- Configure the ODBC interface to Avaya CMS
- Configure hierarchy containing the organizational structure
- Configure the data conversion to extract the data from Avaya CMS and load it into MPS
- Run the conversion to pull the data from Avaya CMS and store it in MPS
- Create the split and agent reports
- Run the split and agent reports to display the data

Note: The specific names of the properties files mentioned in this section are not provided because they can be different for each customer.

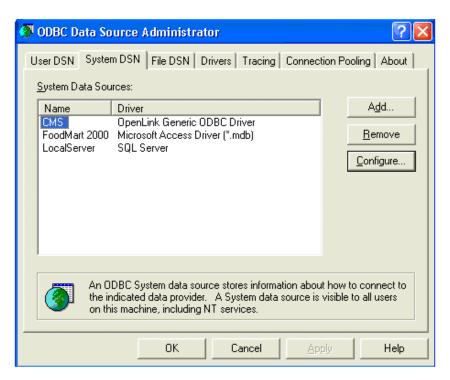
6.1. Configure the ODBC Interface

This section covers the configuration of the ODBC interface to Avaya CMS. A connection to the Avaya CMS Informix database is established using the OpenLink ODBC 5.2 client software installed on the MPS server. The ODBC client software is supplied with the Avaya CMS software. Refer to [3] for additional information.

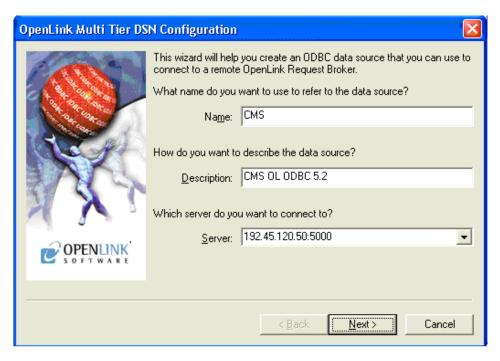
MPS requires the ODBC connection configuration file shown below containing the database login credentials.

```
#
# $Id:
//eng/YOGI/foundation/cc/acd/avaya/cms/src/com/merced/service/jdbc/config/AVA
YACMS1.properties#1 $
#
$class=com.merced.service.jdbc.config.ExternalJdbcConfiguration
$scope=global
# driverClass
driverClass=sun.jdbc.odbc.JdbcOdbcDriver
# user
user=cms
# password
password=*****
# url
url=jdbc:odbc:CMS
```

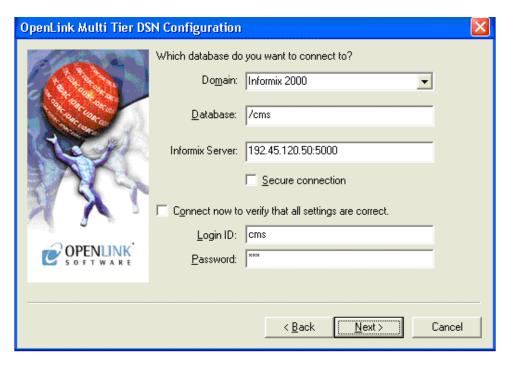
To configure the ODBC interface, navigate to **Administrative Tools** Data Sources (ODBC) in the Windows control panel of the MPS server. The ODBC Data Source Administrator screen is displayed. Note that the following screen lists the ODBC data source for Avaya CMS, which is already configured.



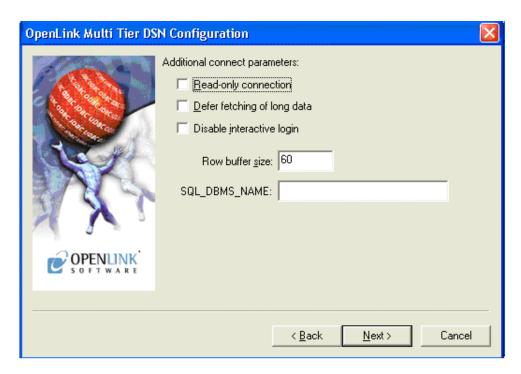
The ODBC data source configuration is shown in the subsequent figures. In the following window, specify a descriptive name for the data source, the CMS IP address, and the port.



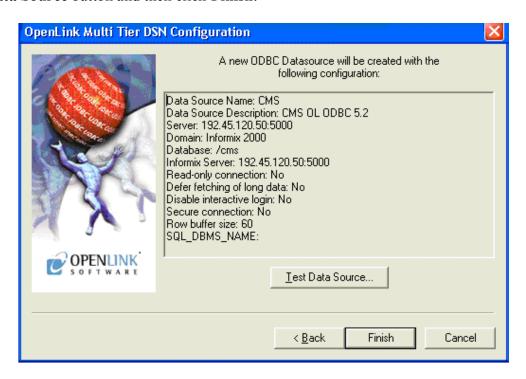
In the next window, set the **Domain** field to "Informix 2000", the **Database** field to "/cms", and the IP address of the **Informix Server**, which is the same as the Avaya CMS server. In addition, provide the login credentials.



Lastly, set the **Row buffer size** field to "60".

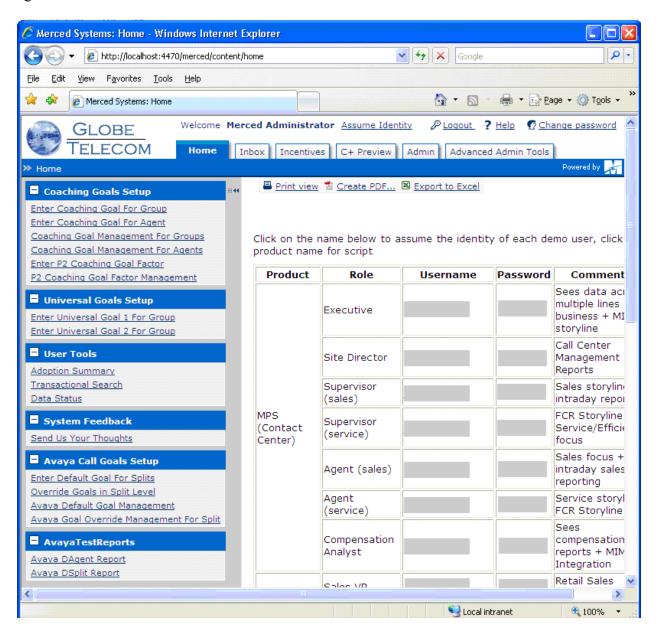


In the last window, review the configuration information. To test the data source, click on the **Test Data Source** button and then click **Finish**.



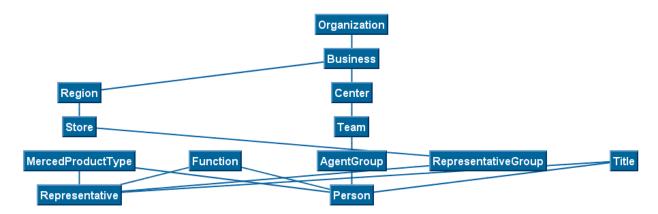
6.2. Configure Hierarchy

The MPS configuration described in this section is performed through the MPS application. To launch the application, enter the MPS hostname or IP address and port 4470 in the URL field of a web browser. Log in with the appropriate credentials. The following webpage is displayed. In this example, a sales demo webpage is displayed with the branding of a fictional company, Globe Telecom. The sub-sections proceed with the configuration of the organization, split, and agent hierarchies.



6.2.1. Create Organization's Hierarchy

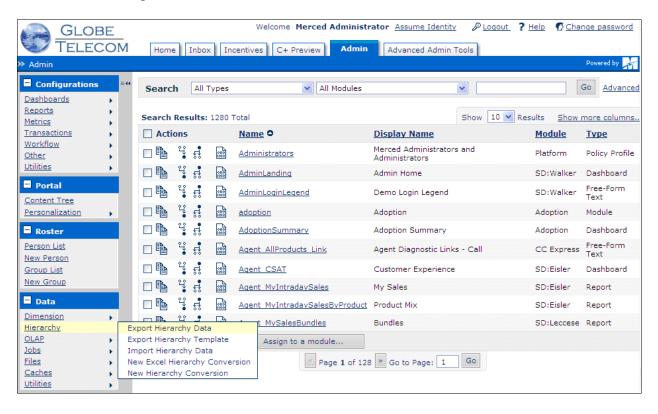
These Application Notes assume that the hierarchy of a company's organization has already been configured. The hierarchy describes the leveled relationships between entity types as those entities are structured in the MPS database. The following figure provides an illustration of a sample hierarchy. Refer to [7] for information on configuring the hierarchy.



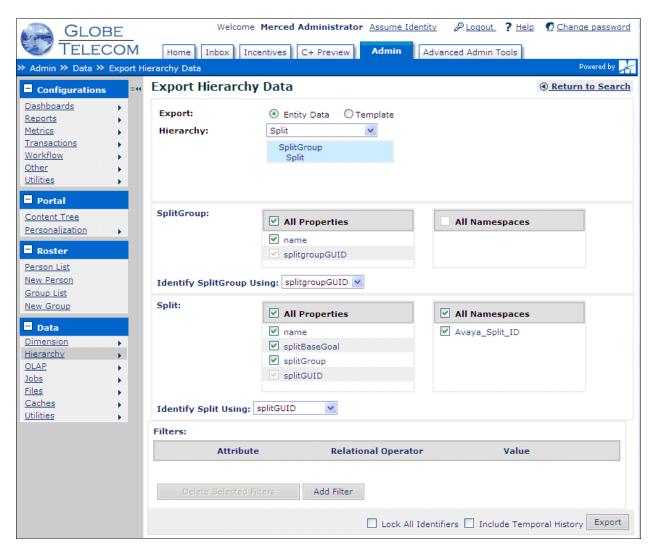
6.2.2. Create Split Hierarchy

Merced Client Services will build a model of the split hierarchy in the database and provide the customer with a template in a spreadsheet format. The customer will then fill out the template, including the split groups and split numbers. This spreadsheet is known as the "split seed hierarchy".

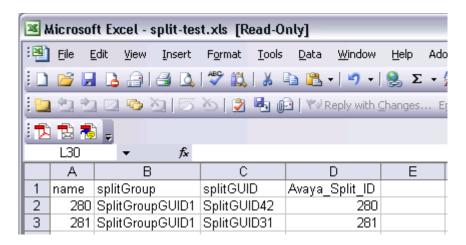
Exporting the organizational data of the split hierarchy is done from the MPS application. Select the **Admin** tab and then navigate to **Data** Hierarchy Export Hierarchy **Data** as shown below. It is assumed that the organizational data already exists in the database; otherwise, if this is the initial setup (i.e., the organizational data needs to be imported), a template is exported and filled out with the split data, as described above.



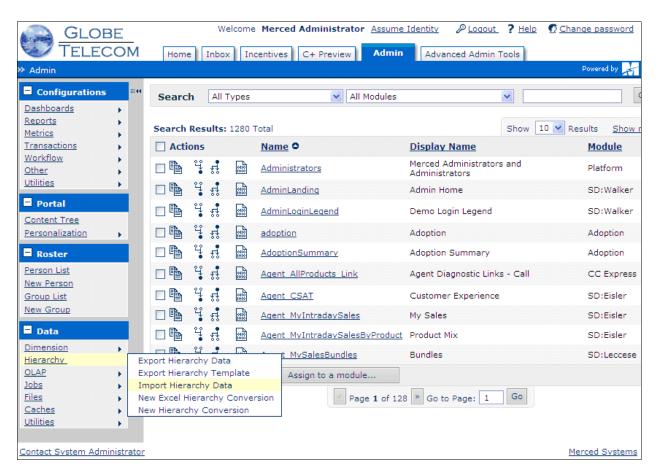
The **Export Hierarchy Data** webpage is displayed. Set the **Export** field to "Entity Data". To export a template, set the **Export** field to "Template". Next, set the **Hierarchy** field to "Split", and highlight "Split Group" and "Split" below the **Hierarchy** field. Configure the remaining fields as shown below. Click the **Export** button at the bottom.



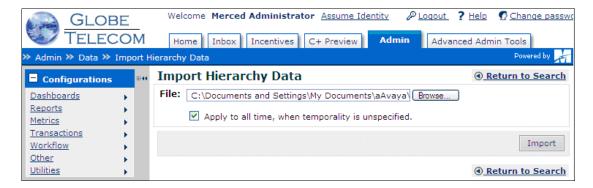
Once the "split seed hierarchy" with organizational data or template has been exported, it can be changed to include the split numbers used by the organization. The "split seed hierarchy" is a spreadsheet and a sample is displayed below containing the splits used for the compliance testing. In this example, splits 280 and 281 were used. The spreadsheet is called "split-test.xls". Afterwards, the data can be imported to MPS.



From the MPS application, navigate to **Data** Hierarchy Hierarchy **Data** in the **Admin** tab as shown below.

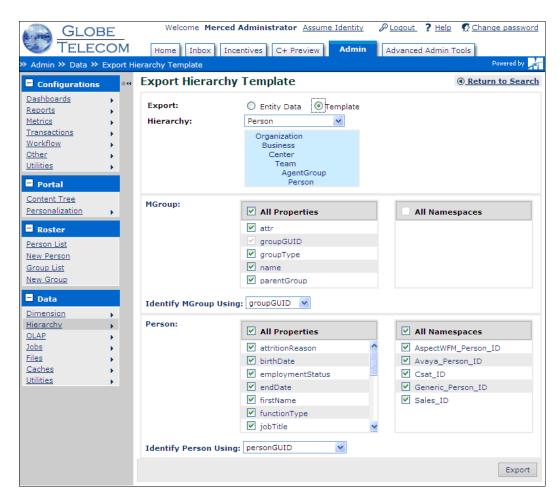


In the **Import Hierarchy Data** window, set the **File** field to the location of the "split-test.xls" file. In the example, the file was stored in C:\Documents and Settings\My Documents\aAvaya\split-test.xls, but the directory path may vary.

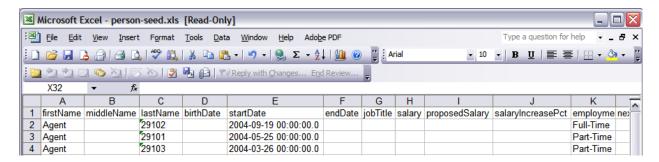


6.2.3. Create Agent Hierarchy

The procedure for creating the agent hierarchy is similar to creating the split hierarchy described in Section 6.2.2. In the MPS application, navigate to **Data** Hierarchy Export Hierarchy Template in the Admin tab. The following window is displayed. Click Export to generate the template when done.



After completing the "person seed hierarchy" spreadsheet shown below, the file can be imported to MPS by navigating to **Data** Hierarchy Hierarchy Data in the Admin tab.



In the **Import Hierarchy Data** window (not shown), specify the "person seed hierarchy" file to import and click the **Import** button.

6.3. Configure Data Conversion

This section describes the procedure for MPS to extract data from Avaya CMS using the ODBC interface and integrate it into the MPS database. This process requires the following steps:

Define the source from which data is extracted.

This is known as the **ExtractionSource** component and is defined by a properties file that specifies the ODBC as the extraction source and the SQL query to pull data from the **dsplit** and **dagent** database tables on Avaya CMS. The data items are listed in the Appendix.

Specify the data target.

This part of the configuration specifies where the extracted data goes – the target. This requires creating two properties files (also called chunk tables or metabeans) for the split and agent reports, which specifies the data items to be extracted from Avaya CMS and each field's data type.

Map the extracted data to the target table.

This is known as the **ExtractMapping** component which maps the data items in the split and agent reports specified in the **ExtractionSource** component to the columns in the corresponding MPS database tables.

The creation of the properties files mentioned above is outside the scope of these Application Notes. The specific filename are not specified since they will vary for each customer. Note that there were two sets of properties files for the split and agent reports. These procedures are described in detail in [7].

6.4. Run Conversion

The conversion is performed from a command prompt window on the MPS server. The command specifies the properties file that specifies the **ExtractionSource** and **ExtractionMapping** properties file to use for the data conversion.

The following command should be run to capture the agent data from Avaya CMS over the ODBC interface. This command captures agent data starting from 3/31/2009.

```
call %MERCED_HOME%\bin\m dice
"(creator:/com/merced/apps/dagent/dice/AvayaCMS1DagentDBConversion)" -
-time-range 3/31/2009 eot
```

The following command should be run to capture the split data from Avaya CMS over the ODBC interface. This command captures split data starting from 3/31/2009.

```
call %MERCED_HOME%\bin\m dice
"(creator:/com/merced/apps/dsplit/dice/AvayaCMS1DsplitDBConversion)" -
-time-range 3/31/2009 eot
```

6.5. Create Reports

During the compliance testing, two reports were created in MPS, one for the split report and another one for the agent report. These reports were named **Avaya DSplit Report** and **Avaya DAgent Report**. Creating reports are described in [7].

Prior to running the reports, run **CubePop** described in [7] to populate the reports with fresh data

6.6. Run Reports

Examples of the split and agent reports in MPS are displayed in Section 8.3.2.

7. General Test Approach and Test Results

The interoperability compliance test focused on verifying the ability of Merced Performance Suite to import ACD call center data from Avaya CMS using the ODBC interface and displaying split/skill and agent data in MPS reports.

The feature test cases were performed manually. ACD calls were made to the measured skills and routed to agents to generate call center statistics for MPS. The accuracy and proper display of the data were verified.

All test cases were executed and passed.

8. Verification Steps

This section provides the tests that can be performed to verify proper configuration of Avaya Communication Manager, Avaya Call Management System, and Merced Performance Suite.

8.1. Verify Avaya Communication Manager

Verify the status of the processor interface channel by using the "status processor-channels n" command, where "n" is the processor channel number from **Section 4.6**. Verify that the **Session Layer Status** is "In Service", and that the **Socket Status** is "TCP connected", as shown below.

```
status processor-channels 1
PROCESSOR-CHANNEL STATUS

Channel Number: 1
Session Layer Status: In Service
Socket Status: TCP connected
Link Number: 2
Link Type: ethernet
Message Buffer Number: 0

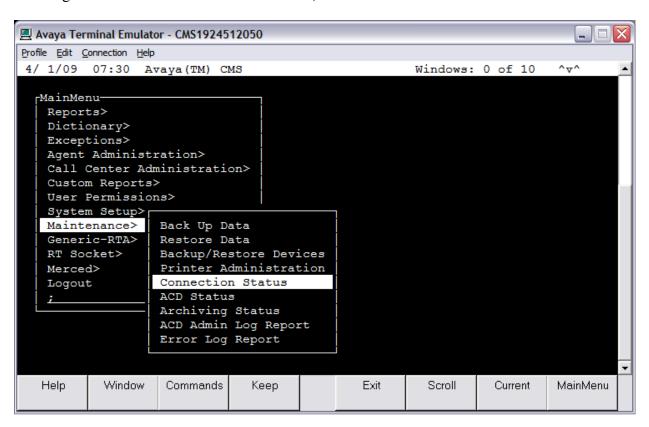
Last Failure: None
At: 03/25/09 16:39
```

Verify the status of the TCP/IP link number by using the "status link n" command, where "n" is the TCP/IP link number assigned to the C-LAN used to connect to the Avaya CMS server from **Section 4.5**. Verify that the **Link Status** is "connected", and that the **Service State** is "in-service/active", as shown below.

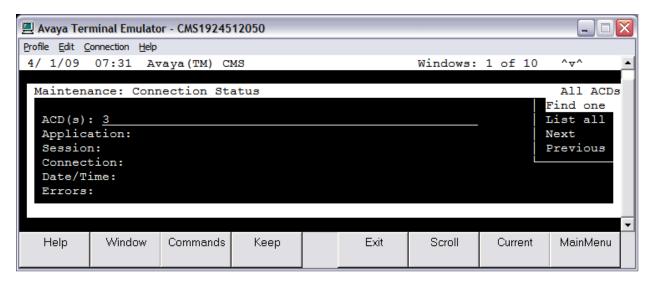
```
status link 2
                                                                Page 1 of
                              LINK/PORT STATUS
                Link Number: 2
                Link Status: connected
                  Link Type: ethernet
                  Link Name: Clan2
      Service Port Location: 02A0217
Service Port Data Extension: 24981
              Service State: in-service/active
                  Node Name: clan2
          Source IP Address: 192.45.100.70
                Subnet Mask: 255.255.255.0
          Broadcast Address: 192.45.100.255
           Physical Address: 00:04:0d:4b:28:08
                    Enabled? yes
           Maintenance Busy? no
            Active Channels: 2
```

8.2. Verify Avaya Call Management System

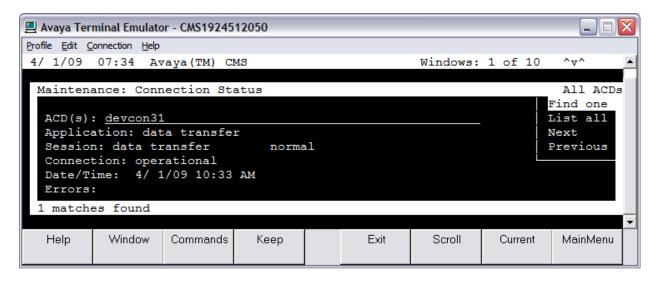
From the **MainMenu**, verify the status of the connection to Avaya Communication Manager by selecting **Maintenance** \rightarrow **Connection Status**, as shown below.



Enter the corresponding **ACD(s)** number. For the compliance testing, the corresponding switch connection is ACD system "3". Tab over to **Find one** and press **Enter**.



The switch connection status is displayed. Check the status in the **Session** and **Connection** fields, as shown below.



8.3. Verify Merced Performance Suite

This section verifies the ODBC configuration on MPS and that call center data can be captured on displayed in MPS reports.

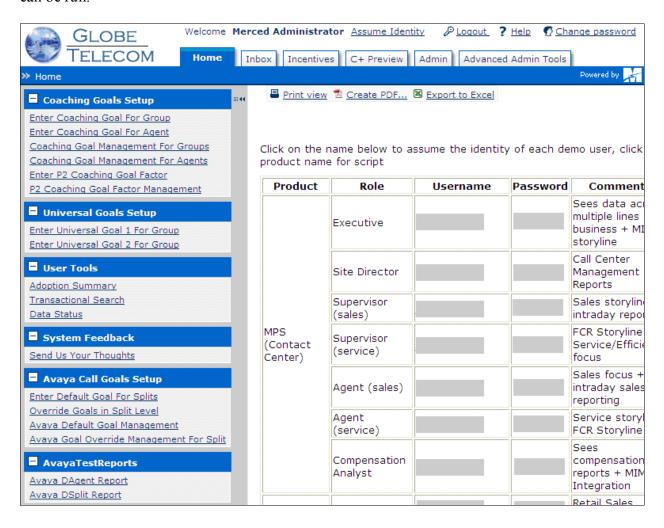
8.3.1. Verify ODBC Connection

To test the ODBC connection, navigate to **Administrative Tools**→**Data Sources (ODBC)** in the Windows control panel of the MPS server and step through each window until the following window is displayed. Click on the **Test Data Source** button and verify that the test was successful as shown below

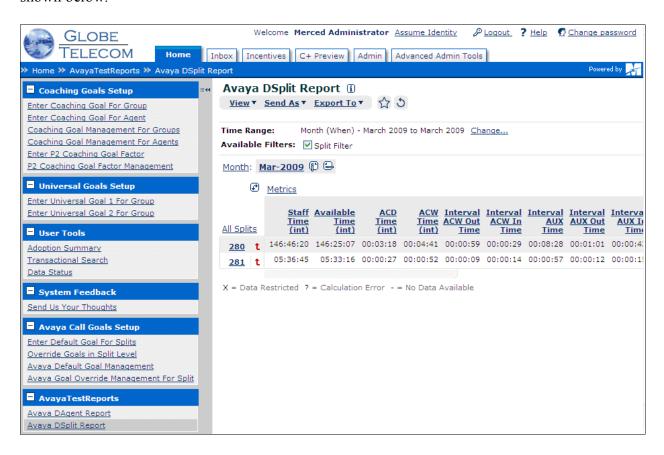


8.3.2. Run Reports

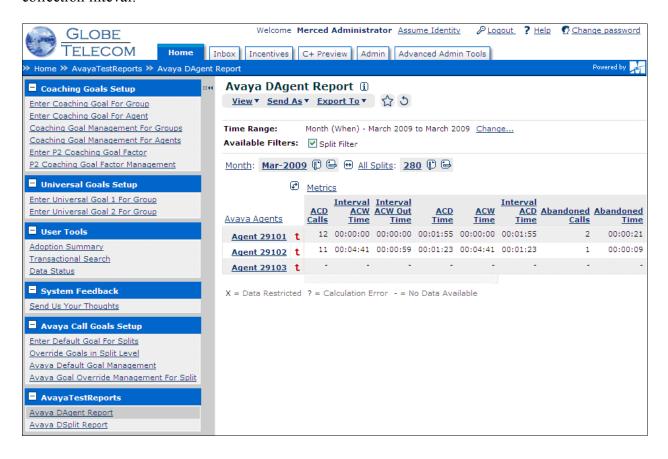
From the MPS application, run the agent and split reports using the links under **AvayaTestReports** in the left pane. It is assumed that call center activity had occurred and data is available in Avaya CMS. The procedures described in **Section 6.3** are required before reports can be run.



Under **AvayaTestReports**, click on **Avaya DAgent Report** to run and display the agent reports shown below.



Under **AvayaTestReports**, click on **Avaya DSplit Report** to run and display the agent reports shown below. In this example, agent 29103 was not logged into split 280 during the data collection inteval.



9. Conclusion

These Application Notes describe the configuration steps required for Merced Performance Suite to successfully interoperate with Avaya Communication Manager using the ODBC interface of Avaya Call Management System. All feature test cases were completed successfully.

10. References

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

- [1] Administrator Guide for Avaya Communication Manager, Document 03-300509, Issue 4, January 2008, available at http://support.avaya.com.
- [2] Avaya Call Management System Switch Connections, Administration, and Troubleshooting, Document ID 07-601582, February 2006, available at http://support.avaya.com.
- [3] Avaya Call Management System Open Database Connectivity Version 5.2, Document ID 07-601580, December 2007, available at http://support.avaya.com.
- [4] Avaya Call Management System Release 14 Database Items and Calculations, Document ID 07-601591, February 2007, available at http://support.avaya.com.
- [5] Merced Performance Suite Introduction to Merced Performance Suite, Software Version 3.5.
- [6] Merced Performance Suite Setup and Administration Guide, Software Version 3.5.
- [7] Merced Performance Suite Data Management Guide, Software Version 3.5.
- [8] Merced Performance Suite Application Configuration Guide, Software Version 3.5.

11. APPENDIX: Data Items in Split and Agent Reports

The following table lists the data items in the **dagent** and **dsplit** extracted by MPS from Avaya CMS using the ODBC interface. These data items are defined in [4].

Data Items in "dagent" Table									
C									
row_date	da_acdtime		acwintime		event8	ringtime			
	da_acwtime ti availtime	auxincalls			event9	ansringtime			
logid	holdcalls		auxintime		assists	ti_othertime			
loc_id			acwoutcalls		o_acdcalls	da_acwincalls			
extension	ti_auxtime		acwouttime		o_acdtime	da_acwintime			
split	ti_auxtime0		acwoutoffcall	-	o_acwtime	da_acwocalls			
acdcalls	ti_auxtime1		acwoutofftime		da_anstime	da_acwotime			
da_acdcalls	ti_auxtime2		acwoutadjcall	S	da_abncalls	da_acwoadjcalls			
holdtime	ti_auxtime3		auxoutcalls		da_abntime	da_acwooffcalls			
i_acwtime	ti_auxtime4		auxouttime		holdabncalls	da_acwoofftime			
i_acwouttime	ti_auxtime5		auxoutoffcall	_	transferred	noansredir			
i_da_acwtime	ti_auxtime6		auxoutofftime		conference	acdauxoutcalls			
acwtime	ti_auxtime7		auxoutadjcall	S	abncalls	phantomabns			
acdtime	ti_auxtime8		event1		abntime	i_auxtime			
i_acdtime	ti_auxtime9		event2		i_ringtime	holdacdtime			
i_acdothertime	incomplete		event3		da_acdtime	da_release			
i_acdaux_outtime	i_auxouttime		event4		da_acwtime	acd_release			
i_acdauxintime	i_auxintime		event5		da_othercalls	i_stafftime			
i_da_acdtime	i_othertime		event6		da_othertime	i_availtime			
ti_stafftime	acwincalls		event7		ringcalls	i_acwintime			
	Dat	a It	ems in "dsplit"	' Ta	ble				
row_date	event2	ho	ldtime	acc	ceptable	i_acdaux_outtime			
acd	event3	ho	ldabncalls	ser	rvicelevel	i_acdauxintime			
split	event4	tr	ansferred	per	riod1	i_acdothertime			
i_stafftime	event5	CO	nference	per	riod2	phantomabns			
i_availtime	event6	ab	oncalls per		riod3	othercalls			
i_acdtime	event7	ab	abntime pe		riod4	othertime			
i_acwtime	event8	ab	oncalls1 per		riod5	slvlabns			
i acwouttime	event9	ab	calls2 period		riod6	slvloutflows			
i acwintime	assists	ab	_		riod7	i arrived			
i auxtime	inflowcalls	ab	ncalls4 per		riod8	i_auxtime0			
i auxouttime	acdcalls	ab	ncalls5	-		i auxtime1			
i auxintime	anstime	ab	ncalls6	_		i auxtime2			
i othertime	acdtime	ab	ncalls7 maxocwtime			i auxtime3			
 maxstaffed	acwtime	ab	calls8 callsoffered		i auxtime4				
acwincalls	o acdcalls	ab	oncalls9 periodchg		riodchg	i auxtime5			
acwintime	o acdtime	ab	ncalls10 svclevelchg			i auxtime6			
auxincalls	o acwtime	de			ringtime	i auxtime7			
auxintime	acdcalls1		quetime ringtime			i auxtime8			
acwoutcalls	acdcalls2		-		ngcalls	i auxtime9			
acwouttime	acdcalls3		_		nringcalls	i da acdtime			
acwoutoffcalls	acdcalls4				abncalls	i da acwtime			
acwoutofftime	acdcalls5		_		othercalls	i tavailtime			
acwoutadjcalls	acdcalls6	ou			acwincalls	i tauxtime			
auxoutcalls	acdcalls7				acwintime	maxtop			
auxouttime	acdcalls8	in	terflowcalls	_	acwocalls	-			
auxoutoffcalls	acdcalls9		wcalls		acwotime				
auxoutofftime	acdcalls10		dcalls		ansredir				
auxoutadjcalls	backupcalls		ghcalls		complete				
event1	holdcalls		pcalls		dauxoutcalls				

©2009 Avaya Inc. All Rights Reserved.

Avaya and the Avaya Logo are trademarks of Avaya Inc. All trademarks identified by ® and TM are registered trademarks or trademarks, respectively, of Avaya Inc. All other trademarks are the property of their respective owners. The information provided in these Application Notes is subject to change without notice. The configurations, technical data, and recommendations provided in these Application Notes are believed to be accurate and dependable, but are presented without express or implied warranty. Users are responsible for their application of any products specified in these Application Notes.

Please e-mail any questions or comments pertaining to these Application Notes along with the full title name and filename, located in the lower right corner, directly to the Avaya DevConnect Program at devconnect@avaya.com.