



## **Avaya Solution & Interoperability Test Lab**

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# **Application Notes for Configuring Rauland Responder Enterprise with Avaya Communication Server 1000 and Avaya Aura® Session Manager – Issue 1.0**

### **Abstract**

These Application Notes describe a compliance-tested configuration consisting of the Rauland Responder Enterprise solution, Avaya Communication Server 1000 and Avaya Aura® Session Manager.

The Rauland Responder Enterprise solution is a complete nurse call system with associated Staff Management applications ensuring calls for assistance from patient rooms are immediately routed to the proper staff for response.

Readers should pay attention to **Section 2**, in particular the scope of testing as outlined in **Section 2.1** as well as the 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 a compliance-tested configuration consisting of the Rauland Responder Enterprise (hereafter known as Responder) solution, Avaya Communication Server 1000 (hereafter known as Communication Server 1000) and Avaya Aura® Session Manager (hereafter known as Session Manager).

The Responder solution is a complete nurse call system with associated Staff Management applications ensuring calls for assistance from patient rooms are immediately routed to the proper staff for response.

Responder Enterprise solution consists of Responder SIP Server, Responder Application Server and several Responder call point devices. The Responder SIP Server connects to Communication Server 1000 using SIP trunks via the Session Manager. Calls from a patient room could be initiated by a patient (pain, assistance needed, etc.), or hospital staff (room cleaning, linens, etc.) with the push of a button. Staff using Avaya phones can be incorporated into the system so that calls to talk to a nurse for example would route through Session Manager to Communication Server 1000, and to be able to call the patient room in return. This adds the benefit of staff having access to other resources in the hospital using Avaya endpoints.

Hospital staff members who are responsible for direct communication with patient rooms generally roam using wireless phones. During compliance testing, only Avaya Desk phones were used.

## 2. General Test Approach and Test Results

The compliance test focused on the ability for Rauland Responder endpoints to initiate and receive calls to and from Avaya Communication Server 1000 via Avaya Aura® Session 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 Responder did not include use of any specific encryption features as requested by Rauland.

### 2.1. Interoperability Compliance Testing

The compliance test validated the ability of Responder to route calls to and from patient rooms to Avaya endpoints. Additionally, testing validated the ability for the Responder solution to recover from common outages such as network outages and server reboots.

Responder endpoints are designed with limited functionality. Responder endpoints are not designed for multi-line functions like Hold, Conference and Transfer.

### 2.2. Test Results

The objectives described in **Section 2.1** were verified with the following observation.

- Responder only supports G.711MU codec.

### 2.3. Support

Information, Documentation and Technical support for Rauland products can be obtained at:

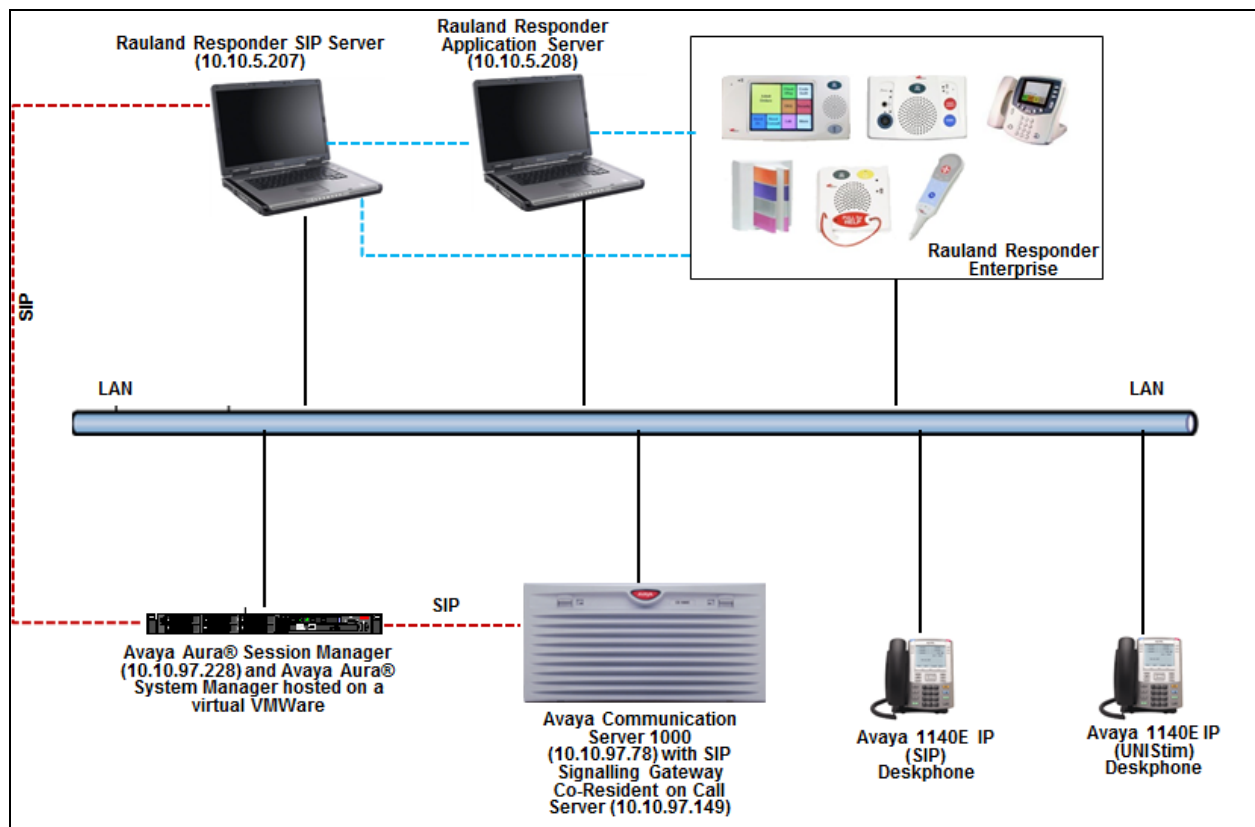
- Phone: +1 800 752 7725 (toll free) / +1 847 590 7100 (from outside the US)
- Web: <http://www.rauland.com/>

### 3. Reference Configuration

**Figure 1** illustrates the compliance test configuration consisting of:

- Avaya Communication Server 1000
- Avaya Aura® Session Manager
- Avaya Aura® System Manager
- Various UNISTim and SIP endpoints
- Responder SIP Server
- Responder Application Server
- Responder Communication Endpoints

Calls routed to and from the Communication Server 1000 used SIP trunks between the Responder SIP server and Session Manager, and in turn SIP trunks between Session Manager and Communication Server 1000.



**Figure 1 – Rauland Responder Enterprise Compliance Test Configuration**

## 4. Equipment and Software Validated

The following equipment and version were used in the reference configuration described above:

Equipment/Software	Release/Version
Avaya Communication Server 1000	7.65.16 SP9
Avaya Aura® System Manager running on virtual server	8.0.0.0.931077
Avaya Aura® Session Manager running on virtual server	8.0.0.0.800035
Avaya IP Deskphones: 1140E (UNISTim) 1140E (SIP)	C9 04.04.26.00
Rauland Nurse Call	Enterprise SR1 SP1
Rauland Application Server running on Windows 2012 R2 OS	Enterprise SR1 SP1
Rauland Apps	Enterprise SR1 SP1
Rauland DB	Enterprise SR1 SP1
Responder SIP Server running on Windows 7 Pro OS	3.8.4.2

## 5. Configure Avaya Communication Server 1000

The configuration operations illustrated in this section were performed using terminal access to the Communication Server 1000 over an “SSH” session using “PuTTY”. The information provided in this section describes the configuration of the Communication Server 1000 for this solution. For all other provisioning information such as initial installation and configuration, please refer to the product documentation in **Section 10**.

### Note:

- During compliance test, route number (**ROUT**) and route list index (**RLI**) is **6** to Session Manager, this information is needed in Section 5.2 to configure route to Responder dialing plan of 30xxx. A full printout of the D-Channel, Route and Trunk information for the SIP Signalling Gateway used for the compliance testing is included in the **Appendix B** of these Application Notes.
- Not all prompts need a response. The prompts outlined below are mandatory for a basic configuration. Accept the default responses for all other prompts by pressing the return key.

### 5.1. Verify Licences

To ensure that Communication Server 1000 is licensed for SIP Trunks, use **LD 22** and type **SLT** at the **REQ** prompt. Check for **SIP ACCESS PORTS** as shown below.

```
>ld 22

PT2000
REQ slt
System type is - Communication Server 1000E/CPPM Linux
CPPM - Pentium M 1.4 GHz
IPMGs Registered: 1
IPMGs Unregistered: 0
IPMGs Configured/unregistered: 0
TRADITIONAL TELEPHONES 32767 LEFT 32767 USED 0
DECT USERS 32767 LEFT 32767 USED 0
IP USERS 32767 LEFT 32682 USED 85
BASIC IP USERS 32767 LEFT 32764 USED 3
TEMPORARY IP USERS 32767 LEFT 32765 USED 2
DECT VISITOR USER 10000 LEFT 10000 USED 0
ACD AGENTS 32767 LEFT 32739 USED 28
MOBILE EXTENSIONS 32767 LEFT 32761 USED 6
TELEPHONY SERVICES 32767 LEFT 32767 USED 0
CONVERGED MOBILE USERS 32767 LEFT 32767 USED 0
AVAYA SIP LINES 32767 LEFT 32755 USED 12
THIRD PARTY SIP LINES 32767 LEFT 32740 USED 27

PCA 32767 LEFT 32764 USED 3
ITG ISDN TRUNKS 32767 LEFT 32767 USED 0
H.323 ACCESS PORTS 32767 LEFT 32767 USED 0
AST 32767 LEFT 32717 USED 50
SIP CONVERGED DESKTOPS 32767 LEFT 32767 USED 0
SIP CTI TR87 32767 LEFT 32733 USED 34
SIP ACCESS PORTS 32767 LEFT 32703 USED 64
```

## 5.2. Configure Coordinated Dialing Plan

This section shows steps on how to create Coordinated Dialing Plan (CDP) to route the call from Communication Server 1000 to Responder via Session Manager.

Use the **NEW** command in **LD 87** to create a **CDP** entry for Responder. In the example below, the **DSC** is “30”, **FLEN** is “5” and the **RLI** is “6”.

```
>ld 87

REQ new
CUST 0
FEAT cdp
TYPE dsc
DSC 30      → Distant Steering Code to Responder
FLEN 5      → Length of the Distant Steering Code
DSP LSC
RRPA NO
RLI 6       → Route List Index
CCBA NO
NPA
NXX
```

## 5.3. Saving Avaya Communication Server 1000 Configuration

Type **LD 43** at the > prompt to save any newly configured parameters like CDP as mentioned in the above section, upon entering the overlay type **edd** at the . prompt as shown below.

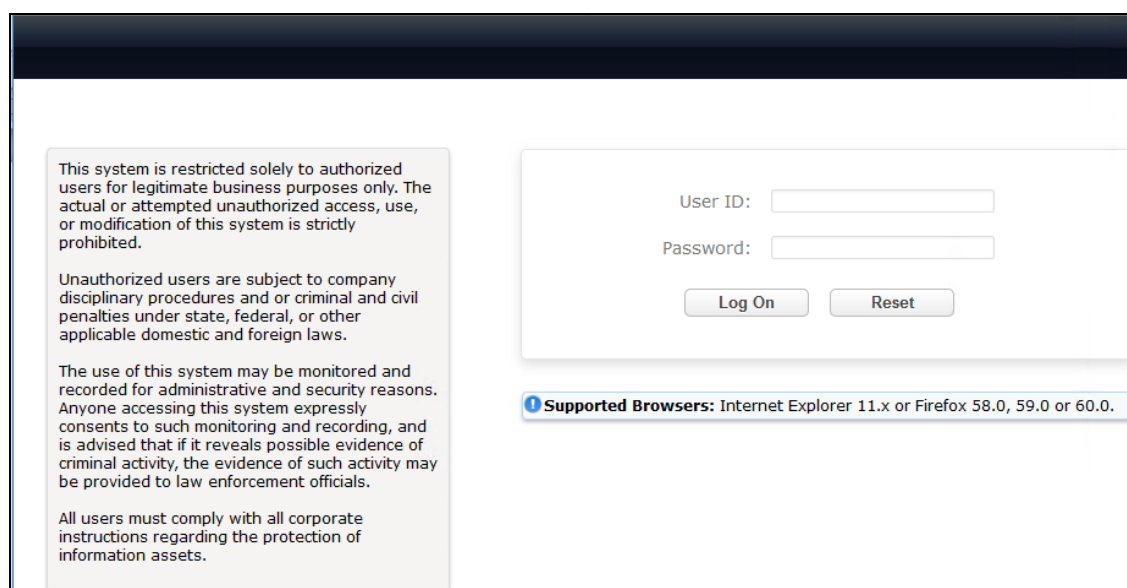
```
ld 43
EDD000

.edd
```

## 5.4. Configure Avaya Communication Server 1000 SIP Signaling Gateway

The SIP Signalling Gateway is an application installed on the Avaya Communication Server 1000 Signalling Server. In this example this Signalling Server is a co-resident installation with the Avaya Communication Server 1000 Call Server.

The SIP Signalling Gateway is configured at the Communication Server 1000 IP Telephony Node. Changes on the Communication Server 1000 Node are performed using Element Manager which is accessible through the System Manager. To make changes in Element Manager, access the System Manager web interface by using the URL “https://ip-address” in an Internet browser window, where “ip-address” is the IP address of System Manager. Log in using the appropriate credentials in the screen shown below.



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 officials.

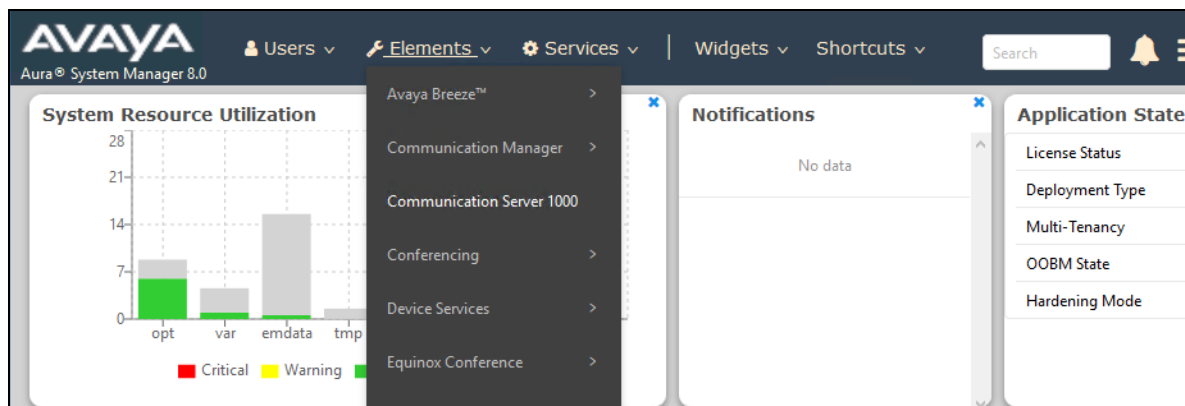
All users must comply with all corporate instructions regarding the protection of information assets.

User ID:

Password:

**Supported Browsers:** Internet Explorer 11.x or Firefox 58.0, 59.0 or 60.0.

From the main screen of System Manager shown below, navigate to **Elements** → **Communication Server 1000**.





Once **Communication Server 1000** is selected the following screen appears, click on the Element Manager link, in this case it is **EM on cppm3**.

Host Name: dewmsmgr.bwwdev.com User Name: admin

### Elements

New elements are registered into the security framework, or may be added as simple hyperlinks. Click an element name to launch its management service. You can optionally filter the list by entering a search term.

Search Reset

Element Name	Element Type	Release	Address	Description
1 dewmsmgr.bwwdev.com (primary)	Base OS	7.6		Base OS element.
2 EM on cppm3	CS1000	7.6		New element.
3 cppm3.bwwdev.com (member)	Linux Base	7.6		Base OS element.
4	Media Gateway Controller	7.6		New element.

Click on **IP Network → Nodes: Servers, Media Cards** in the left window. Click on the **Node ID** displayed in the right window, during compliance test Node **510** is configured to connect to Session Manager. Note the IP address of this node as it used while configuring Communication Server 1000 as SIP Entity endpoint on Session Manager in **Section 6.5.2**.

Managing: System » IP Network » IP Telephony Nodes Username: admin

### IP Telephony Nodes

Click the Node ID to view or edit its properties.

Add... Import... Export... Delete Print | Refresh

Node ID	Components	Enabled Applications	ELAN IP	Node/TLAN IPv4	Node/TLAN IPv6	Status
510	1	SIP Line, LTPS, PD, Gateway (SIPGw)		10.10.97.149	-	Synchronized

Show: ☒ Nodes ☐ Component servers and cards ☒ IPv6 address

The **Node Details** page is launched when the Node ID 510 is clicked as shown below. Click on the link **Gateway (SIPGw)** to launch the SIP Gateway Services page.

**AVAYA CS1000 Element Manager**

Managing:  Username: admin  
System » IP Network » IP Telephony Nodes » Node Details

**Node Details (ID: 510 - SIP Line, LTPS, PD, Gateway ( SIPGw ))**

Node ID:  \* (0-9999)

Call server IP address:  \* TLAN address type: ☒ IPv4 only  
☐ IPv4 and IPv6

**Embedded LAN (ELAN)** **Telephony LAN (TLAN)**

Gateway IP address:  \* Node IPv4 address:  \*

Subnet mask:  \* Subnet mask:  \*

Node IPv6 address:

**IP Telephony Node Properties**

- Voice Gateway (VGW) and Codecs
- Quality of Service (QoS)
- LAN
- SNTP
- Numbering Zones
- MCDN Alternative Routing Treatment (MALT) Causes

**Applications (click to edit configuration)**

- SIP Line
- Terminal Proxy Server (TPS)
- Gateway (SIPGw)**
- Personal Directories (PD)
- Presence Publisher
- IP Media Services

From the **SIP Gateway Services** page, scroll down to enter the IP address of the Session Manager in the **Primary TLAN IP address** field. Enter **Port** as “5060” and select the **Transport protocol** as “UDP”, this port and transport protocol will be used when configuring Communication Server 1000 SIP entity in Session Manager in **Section 6.5.2**. Click on **Save** once finished.

**AVAYA CS1000 Element Manager**

Managing: 135.10.97.78 Username: admin  
System » IP Network » IP Telephony Nodes » Node Details » Virtual Trunk Gateway Configuration

**Node ID: 510 - Virtual Trunk Gateway Configuration Details**

**General | SIP Gateway Settings | SIP Gateway Services**

Proxy Or Redirect Server: ☐ Enable third customer management

Proxy Server Route 1:

Primary TLAN IP address:  \*  
The IP address can have either IPv4 or IPv6 format based on the value of "TLAN address type"

Port:  (1 - 65535)

Transport protocol:

Options: ☐ Support registration  
☐ Primary CDS proxy

Secondary TLAN IP address:  \*  
The IP address can have either IPv4 or IPv6 format based on the value of "TLAN address type"

Port:  (1 - 65535)

Transport protocol:

Options: ☐ Support registration  
☐ Secondary CDS proxy

\* Required Value. Note: Changes made on this page will NOT be transmitted until the Node is also saved.

**Save** and **Transmit** (not shown) these Node properties to complete the SIPGw configuration. Once the components are synchronized the Signaling Gateway will require a restart.

## 6. Configure Avaya Aura® Session Manager

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

- Launch System Manager
- Administer Domain
- Administer locations
- Administer Adaptation
- Administer SIP entities
- Administer routing policies
- Administer dial patterns

### 6.1. Launch System Manager

Access the System Manager web interface by using the URL “https://ip-address” in an Internet browser window, where “ip-address” is the IP address of System Manager. Log in using the appropriate credentials.

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 officials.

All users must comply with all corporate instructions regarding the protection of information assets.

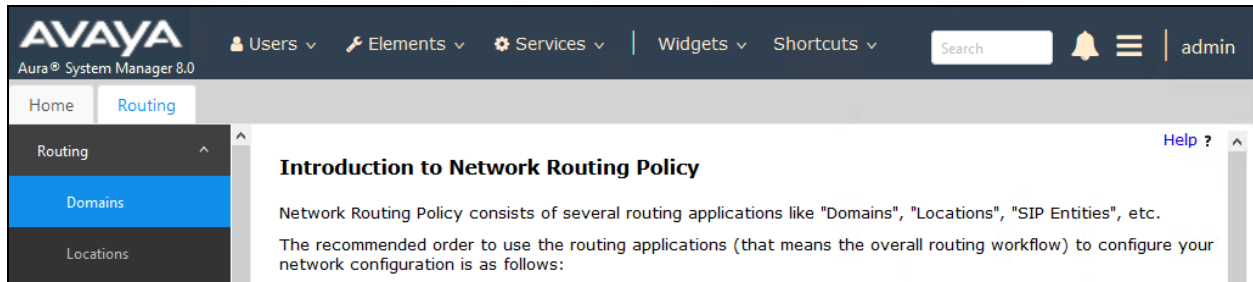
User ID:

Password:

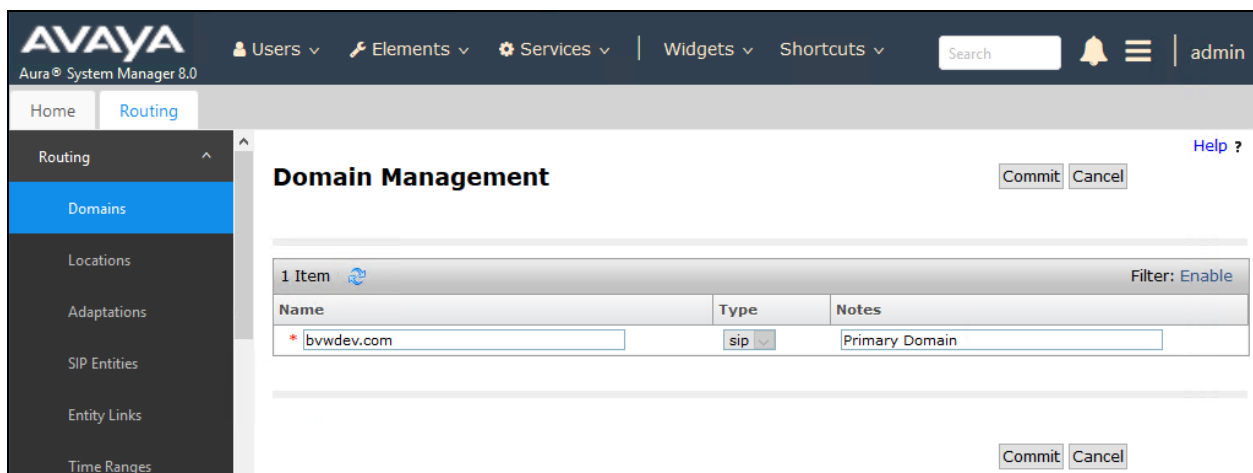
**Supported Browsers:** Internet Explorer 11.x or Firefox 58.0, 59.0 or 60.0.

## 6.2. Administer Domain

In the subsequent screen (not shown), select **Elements** → **Routing** to display the **Introduction to Network Routing Policy** screen below. Select **Domains** from the left pane, and click **New** in the subsequent screen (not shown) to add a new domain



The **Domain Management** screen is displayed. In the **Name** field enter the domain name, select “sip” from the **Type** drop down menu and provide any optional **Notes**.



### 6.3. Administer Locations

Select **Locations** from the left pane and click **New** in the subsequent screen (not shown) to add a new location for Responder.

The **Location Details** screen is displayed. In the **General** sub-section, enter a descriptive **Name** and optional **Notes**. Retain the default values in the remaining fields.

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Aura® System Manager 8.0

Users ▾ Elements ▾ Services ▾ | Widgets ▾ Shortcuts ▾ Search 🔍

Home Routing

Routing Domains Locations Adaptations

### Location Details

Commit Cancel

General

\* Name: Belleville

Notes: Belleville DevConnect Lab

Scroll down to the **Location Pattern** sub-section, click **Add** and enter the IP address of all devices involved in the compliance testing in **IP Address Pattern**, as shown below. Retain the default values in the remaining fields.

### Location Pattern

Add Remove

4 Items Filter: Enable

<input type="checkbox"/>	IP Address Pattern	Notes
<input type="checkbox"/>	* 10.33.5.*	
<input type="checkbox"/>	* 10.10.97.*	
<input type="checkbox"/>	* 10.10.98.*	
<input type="checkbox"/>	*	

Select : All, None

Commit Cancel

## 6.4. Administer Adaptation

During compliance test, to make the call from and to Communication Server 1000 via Session Manager, Adaptation to translate IP address into domain name is used for Responder SIP entity. Also, another Adaptation to remove the phone-context in the SIP Message body from Communication Server 1000 was used.

### 6.4.1. Adaptation for Responder Enterprise

Below are the steps that were used during compliance testing to create the needed Adaptation. Select **Adaptations** on the left panel menu and then click on the **New** button in the main window (not shown).

Enter the following for the Responder Adaptation.

- **Adaptation Name:** An informative name (e.g., **change IP to Domain Responder**).
- **Module Name:** Select **DigitConversionAdapter**.
- **Module Parameter Type:** Select **Name-Value Parameter**.

Click **Add** to add a new row for the following values as shown below table:

Name	Value
fromto	true
iodstd	Enter the domain name of system, ex: <b>bvwwdev.com</b>
iosrtd	Enter the domain name of system, ex: <b>bvwwdev.com</b>
odstd	Enter IP address of Responder SIP Server, ex: <b>10.10.5.207</b>

Once the correct information is entered click the **Commit** button. Below is the screenshot showing the Adaptation created for Responder.

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Aura® System Manager 8.0

Users ▾ Elements ▾ Services ▾ Widgets ▾ Shortcuts ▾ Search 🔍 🔔 ☰ | adm

Home Routing

Routing  
Domains  
Locations  
**Adaptations**  
SIP Entities  
Entity Links  
Time Ranges  
Routing Policies  
Dial Patterns  
Regular Expressions  
Defaults

**Adaptation Details** Commit Cancel [Help ?](#)

**General**

\* **Adaptation Name:** For\_Rauland

\* **Module Name:** DigitConversionAdapter ▾

**Module Parameter Type:** Name-Value Parameter ▾

<input type="checkbox"/>	Name	Value
<input type="checkbox"/>	fromto	true
<input type="checkbox"/>	iodstd	bvwddev.com
<input type="checkbox"/>	iosrcd	bvwddev.com

Select : All, None Page 1 of 2

The screenshot showing the continuation of the Adaptation values configured for Responder:

The screenshot shows the Avaya Aura System Manager 8.0 interface. The left sidebar has a 'Routing' menu with 'Adaptations' selected. The main window displays the 'Adaptation Details' page for an adaptation named 'For\_Rauland'. The 'General' tab is active, showing the 'Module Name' as 'DigitConversionAdapter' and the 'Module Parameter Type' as 'Name-Value Parameter'. A table lists parameters, with 'odstd' having a value of '10.10.5.207'. Below the table are fields for 'Egress URI Parameters' and 'Notes'. The page number is 2 of 2.

#### 6.4.2. Adaptation for Communication Server 1000

Below are the steps that were used during compliance testing to create the needed Adaptation. Select **Adaptations** on the left panel menu and then click on the **New** button in the main window (not shown).

Enter the following for the Responder Adaptation.

- **Adaptation Name:** An informative name.
- **Module Name:** Select **CS1000Adapter**.
- **Module Parameter Type:** Select **Name-Value Parameter**.

Click **Add** to add a new row for the following values as shown below table:

Name	Value
fromto	true

In the **Digit Conversion for Incoming Calls to SM**, add the **Matching Pattern**, which corresponds the dialing plan used during this compliance testing along with the **Min** and **Max** length of the numbers being dialed and the **Phone Context**. During compliance testing, “30xxx” was the dialing plan for Responder and “54xxx” was the dialing plan for Communication Server 1000 with the min and max length of “5” and “cdp.udp” being the phone context. See dialing plan details in **Section 6.7**.



Once the correct information is entered click the **Commit** button. Below is the screenshot showing the Adaptation created for Communication Server 1000.

The screenshot displays the Avaya Aura System Manager 8.0 interface. The top navigation bar includes the Avaya logo, 'Aura® System Manager 8.0', and various menu items: Users, Elements, Services, Widgets, and Shortcuts. A search bar and a user profile 'admin' are also present. The left sidebar shows a tree view with 'Routing' selected, and its sub-items: Domains, Locations, Adaptations (highlighted), SIP Entities, Entity Links, Time Ranges, Routing Policies, Dial Patterns, Regular Expressions, and Defaults.

The main content area is titled 'Adaptation Details' and includes 'Commit' and 'Cancel' buttons. It is divided into two sections: 'General' and 'Digit Conversion for Incoming Calls to SM'.

**General Section:**

- \* Adaptation Name:** CS1000Adapter
- \* Module Name:** CS1000Adapter
- Module Parameter Type:** Name-Value Parameter

Below these fields is a table for parameters:

<input type="checkbox"/>	Name	Value
<input type="checkbox"/>	fromto	true

Buttons 'Add' and 'Remove' are above the table. Below the table is a 'Select : All, None' link.

**Egress URI Parameters:** (Empty field)

**Notes:** CS1000 adapter for Phone Context

**Digit Conversion for Incoming Calls to SM Section:**

Buttons 'Add' and 'Remove' are at the top. Below is a table with 2 items:

<input type="checkbox"/>	Matching Pattern	Min	Max	Phone Context	Delete Digits	Insert Digits	Address to modify	Adap
<input type="checkbox"/>	* 30	* 5	* 5	cdp.udp	* 0		both	
<input type="checkbox"/>	* 54	* 5	* 5	cdp.udp	* 0		both	

Buttons 'Add' and 'Remove' are above the table. Below the table is a 'Select : All, None' link.

## 6.5. Administer SIP Entities

Add two new SIP entities, one for Responder and one for the new SIP trunks with Communication Server 1000.

### 6.5.1. SIP Entity for Responder Enterprise

Select **SIP Entities** from the left pane and click **New** in the subsequent screen (not shown) to add a new SIP entity for Responder.

The **SIP Entity Details** screen is displayed. Enter the following values for the specified fields and retain the default values for the remaining fields.

- **Name:** A descriptive name.
- **FQDN or IP Address:** The IP address of Responder SIP Server.
- **Type:** “Other”
- **Notes:** Any desired notes.
- **Adaptation:** Select the adaptation configured in **Section 6.4.1**
- **Location:** Select the Responder location name from **Section 6.3**.
- **Time Zone:** Select the applicable time zone.
- **SIP Link Monitoring:** Select “Link Monitoring Disabled”.

The screenshot shows the AVAYA Aura System Manager 8.0 interface. The left sidebar contains a navigation menu with the following items: Home, Routing, Domains, Locations, Adaptations, SIP Entities (selected), Entity Links, Time Ranges, Routing Policies, Dial Patterns, Regular Expressions, and Defaults. The main content area is titled 'SIP Entity Details' and has a 'Commit' button and a 'Cancel' button in the top right corner. The form is divided into three sections: General, Loop Detection, and Monitoring. The General section contains the following fields: Name (Rauland), FQDN or IP Address (10.10.5.207), Type (Other), Notes (SIP entity for a partner testing), Adaptation (For\_Rauland), Location (Belleville), Time Zone (America/Fortaleza), SIP Timer B/F (in seconds) (4), Minimum TLS Version (Use Global Setting), Credential name (empty), Securable (unchecked), Call Detail Recording (none), and CommProfile Type Preference (empty). The Loop Detection section contains the following fields: Loop Detection Mode (On), Loop Count Threshold (5), and Loop Detection Interval (in msec) (200). The Monitoring section contains the following field: SIP Link Monitoring (Link Monitoring Disabled).

Scroll down to the **Entity Links** sub-section and click **Add** to add an entity link. Enter the following values for the specified fields and retain the default values for the remaining fields.

- **Name:** A descriptive name.
- **SIP Entity 1:** The Session Manager entity name, in this case “DevvmSM”.
- **Protocol:** “UDP”.
- **Port:** “5060”.
- **SIP Entity 2:** The Responder entity name from this section.
- **Port:** “5060”.
- **Connection Policy:** “trusted”.

Note that only UDP protocol was tested.

**Entity Links**

Override Port & Transport with DNS SRV: ☐

Add
Remove

1 Item
Filter: Enable

<input type="checkbox"/>	Name	SIP Entity 1	Protocol	Port	SIP Entity 2	Port	Connection Policy
<input type="checkbox"/>	* DevvmSM_Rauland_506	DevvmSM	UDP	* 5060	Rauland	* 5060	trusted

Select : All, None

### 6.5.2. SIP Entity for Communication Server 1000

Select **SIP Entities** from the left pane and click **New** in the subsequent screen (not shown) to add a new SIP entity for Communication Server 1000. Note that this SIP entity is used for integration with Responder.

The **SIP Entity Details** screen is displayed. Enter the following values for the specified fields and retain the default values for the remaining fields.

- **Name:** A descriptive name.
- **FQDN or IP Address:** The IP address of an existing Communication Server 1000 node IP.
- **Type:** “Other”
- **Notes:** Any desired notes.
- **Adaptation:** Select the adaptation configured in **Section 6.4.2**
- **Location:** Select the applicable location for Communication Server 1000.
- **Time Zone:** Select the applicable time zone.

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Users ▾ Elements ▾ Services ▾ Widgets ▾ Shortcuts ▾ Search 🔍 🔔 ☰

Home Routing

Routing Domains Locations Adaptations **SIP Entities** Entity Links Time Ranges Routing Policies Dial Patterns Regular Expressions Defaults

**SIP Entity Details** Commit Cancel

**General**

\* Name: CS1K\_Bottom

\* FQDN or IP Address: 10.10.97.149

Type: Other ▾

Notes: SIP connection to CS1K

Adaptation: CS1000Adapter ▾

Location: Belleville ▾

Time Zone: America/Toronto ▾

\* SIP Timer B/F (in seconds): 4

Minimum TLS Version: Use Global Setting ▾

Credential name:

Securable: ☐

Call Detail Recording: none ▾

CommProfile Type Preference: ▾

**Loop Detection**

Loop Detection Mode: On ▾

Loop Count Threshold: 5

Loop Detection Interval (in msec): 200

**Monitoring**

SIP Link Monitoring: Use Session Manager Configuration ▾

Scroll down to the **Entity Links** sub-section and click **Add** to add an entity link. Enter the following values for the specified fields and retain the default values for the remaining fields.

- **Name:** A descriptive name.
- **SIP Entity 1:** The Session Manager entity name, in this case “DevvmSM”.
- **Protocol:** The signaling group transport (UDP) method from **Section 5.4**.
- **Port:** The signaling group listen port (5060) number from **Section 5.4**.
- **SIP Entity 2:** The Communication Server 1000 entity name from this section.
- **Port:** The signaling group listen port (5060) number from **Section 5.4**.
- **Connection Policy:** “trusted”

**Entity Links**

Override Port & Transport with DNS SRV: ☐

Add Remove

2 Items Filter: Enable

<input type="checkbox"/>	Name	SIP Entity 1	Protocol	Port	SIP Entity 2	Port	Connection Policy	Deny New Service
<input type="checkbox"/>	* DevvmSM_CS1K_Botton	DevvmSM	UDP	* 5060	CS1K_Botton	* 5060	trusted	<input type="checkbox"/>

Select : All, None

## 6.6. Administer Routing Policies

Add two new routing policies, one for Responder and one for the new SIP trunks with Communication Server 1000.

### 6.6.1. Routing Policy for Responder Enterprise

Select **Routing Policies** from the left pane and click **New** in the subsequent screen (not shown) to add a new routing policy for Responder.

The **Routing Policy Details** screen is displayed. In the **General** sub-section, enter a descriptive **Name**, and retain the default values in the remaining fields.

In the **SIP Entity as Destination** sub-section, click **Select** and select the Responder entity name from **Section 6.5.1**. The screen below shows the result of the selection.

**AVAYA**  
Aura® System Manager 8.0

Users ▾ Elements ▾ Services ▾ | Widgets ▾ Shortcuts ▾ Search 🔍

Home Routing

Routing Policy Details [Commit] [Cancel]

**General**

\* Name: Route\_to\_Rauland\_Server

Disabled: ☐

\* Retries: 0

Notes: Routing policy for Rauland

**SIP Entity as Destination**

Select

Name	FQDN or IP Address	Type	Notes
Rauland	10.10.5.207	Other	SIP entity for a partner testing

## 6.6.2. Routing Policy for Communication Server 1000

Select **Routing Policies** from the left pane and click **New** in the subsequent screen (not shown) to add a new routing policy for Communication Server 1000.

The **Routing Policy Details** screen is displayed. In the **General** sub-section, enter a descriptive **Name**, and retain the default values in the remaining fields.

In the **SIP Entity as Destination** sub-section, click **Select** and select the Communication Server 1000 entity name from **Section 6.5.2**. The screen below shows the result of the selection.

**AVAYA**  
Aura® System Manager 8.0

Users ▾ Elements ▾ Services ▾ | Widgets ▾ Shortcuts ▾ Search 🔍 🔔

Home Routing

Routing Policy Details [Commit] [Cancel]

**General**

\* Name:

Disabled: ☐

\* Retries:

Notes:

**SIP Entity as Destination**

Select

Name	FQDN or IP Address	Type	Notes
CS1K_Bottom	10.10.97.149	Other	SIP connection to CS1K

## 6.7. Administer Dial Patterns

Add a new dial pattern for Responder and Communication Server 1000.

### 6.7.1. Dial Pattern for Responder Enterprise

Select **Dial Patterns** from the left pane and click **New** in the subsequent screen (not shown) to add a new dial pattern to reach Responder. The **Dial Pattern Details** screen is displayed. In the **General** sub-section, enter the following values for the specified fields, and retain the default values for the remaining fields.

- **Pattern:** A dial pattern to match, in this case “30”.
- **Min:** The minimum number of digits to match.
- **Max:** The maximum number of digits to match.
- **SIP Domain:** The signaling group domain name from **Section 6.2**.

In the **Originating Locations and Routing Policies** sub-section, click **Add** and create an entry for reaching Responder. In the compliance testing, the entry allowed for call originations from all Communication Server 1000 endpoints in locations “Belleville”. The Responder routing policy from **Section 6.6.1** was selected as shown below.

**AVAYA**  
Aura® System Manager 8.0

Users ▾ Elements ▾ Services ▾ Widgets ▾ Shortcuts ▾ Search 🔍 🔔 ☰ admin

Home Routing

Domains  
Locations  
Adaptations  
SIP Entities  
Entity Links  
Time Ranges  
Routing Policies  
**Dial Patterns**  
Regular Expressions  
Defaults

**Dial Pattern Details** Commit Cancel [Help ?](#)

**General**

\* **Pattern:** 30

\* **Min:** 5

\* **Max:** 5

**Emergency Call:** ☐

**SIP Domain:** bvwddev.com ▾

**Notes:** Dial pattern for Rauland

**Originating Locations and Routing Policies**

Add Remove Filter: Enable

1 Item

<input type="checkbox"/>	Originating Location Name ▴	Originating Location Notes	Routing Policy Name	Rank	Routing Policy Disabled	Routing Policy Destination	Routing Policy Notes
<input type="checkbox"/>	Belleville	Belleville DevConnect Lab	Route_to_Rauland_Server	0	<input type="checkbox"/>	Rauland	Routing policy for Rauland

Select : All, None



Select **Dial Patterns** from the left pane and click **New** in the subsequent screen (not shown) to add a new dial pattern to reach Communication Server 1000. The **Dial Pattern Details** screen is displayed. In the **General** sub-section, enter the following values for the specified fields, and retain the default values for the remaining fields.

- **Pattern:** A dial pattern to match, in this case “54”.
- **Min:** The minimum number of digits to match.
- **Max:** The maximum number of digits to match.
- **SIP Domain:** The signaling group domain name from **Section 6.2**.

In the **Originating Locations and Routing Policies** sub-section, click **Add** and create an entry for reaching Communication Server 1000. In the compliance testing, the entry allowed for call originations from all Responder endpoints in locations “-ALL-”. The Communication Server 1000 routing policy from **Section 6.6.2** was selected as shown below.

AVAYA

Aura® System Manager 8.0

Users

Elements

Services

Widgets

Shortcuts

Search

admin

Home

Routing

Routing

Domains

Locations

Adaptations

SIP Entities

Entity Links

Time Ranges

Routing Policies

Dial Patterns

Regular Expressions

Defaults

Dial Pattern Details

Commit Cancel

General

\* Pattern: 54

\* Min: 5

\* Max: 36

Emergency Call: ☐

SIP Domain: bvwddev.com

Notes: Dial pattern to CS1K

Originating Locations and Routing Policies

Add Remove

1 Item

Filter: Enable

<input type="checkbox"/>	Originating Location Name	Originating Location Notes	Routing Policy Name	Rank	Routing Policy Disabled	Routing Policy Destination	Routing Policy Notes
<input type="checkbox"/>	-ALL-		Route_to_CS1K_Bottom	0	<input type="checkbox"/>	CS1K_Bottom	

Select : All, None

## 7. Configure Rauland Responder Enterprise

The Responder solution is typically implemented by Rauland engineers or their resale partners. When integrated with a third-party SIP PBX, it is always deployed with a Rauland SIP Server which serves two purposes. First, Rauland SIP Server is commonly deployed with a variety of SIP capable PBX solutions giving the Responder equipment a common and predictable SIP interface that is adaptable to many environments. Second, the Rauland SIP Server can provide registrar services without requiring provisioning for each Responder endpoint thus significantly reducing the implementation and ongoing administration of the solution.

The Responder equipment will be provisioned completely by Rauland engineers based on site requirements and will be configured to use the Rauland SIP server for all calls destined to endpoints outside of the Responder endpoints.

The focus of this section will be on administration of the Responder applications, and configuration of the Rauland SIP Server to properly route SIP calls and RTP.

## 7.1. Rauland Responder Enterprise Configuration Details

Administration for the solution required the following steps:

- Configure Endpoints
- Assign Endpoints to User
- User Login and Device Assignment
- Assign Staff to Patient Rooms

### 7.1.1. Configure Endpoints

Typically, hospital staff use wireless phones to enable instant communications with staff and patient rooms. During this compliance testing, a variety of UNISTim and SIP deskphones which were previously configured on Communication Server 1000 were administered in the Responder applications to associate the endpoints with the hospital staff.

The Responder applications are accessed from the Windows PC used by a staff administrator and/or at nurse stations throughout the hospital. These PCs are used by staff to clock in and manage patient room assignments. The applications are launched from **Start → All Programs → Responder 5 Applications**.

In the top left corner is a drop-down list that navigates to the various applications. Each requires an appropriate login (not shown). Select **Administration → Devices** in the upper left drop-down list (not shown) to add or modify phones. Enter the appropriate **Device Name/Extension, Type**, and a **Description**. The illustration below shows several devices used in the test environment, extensions “54xxx” were UNISTim and SIP devices administered on Communication Server 1000.

Click **OK** at the bottom of the screen (not shown) to complete edits on this screen.

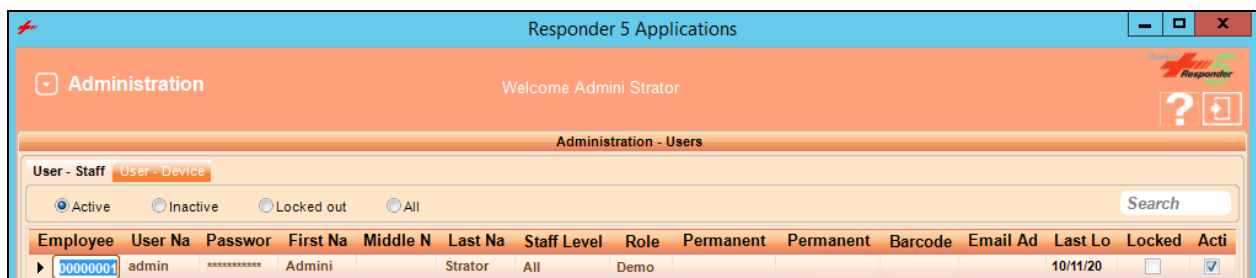
Facility Name	Device Name/Extension	Type	Description	Barcode	Currently Assigned To	User Device	Active	SIP Cancel
All	54004@ 5.207	Wireless Phon			Admini Strator	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
▶ All	54337@ 5.207	Wireless Pho				<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

## 7.1.2. Assign Endpoints to User

Select **Administration** → **Devices** in the upper left drop-down list (not shown) to add or modify users and to assign devices to the users. This task is only necessary for statically assigned device assignments. Users who share devices can enter the device they are using for a shift when they login as described in **Section 7.1.3**.

Users can be created or modified on the **User** → **Creation** tab (user creation is beyond the scope of these application notes, see Responder documentation for details of this task). Devices (phones) are created on the **User - Device** tab as shown below.

Click **OK** (not shown) to complete edits on this screen.



### 7.1.3. User Login and Device Assignment

At the beginning of a shift, or return to duty from breaks, users will scan their Hospital ID badge bar code with a scanner connected to the PC which will automatically log them in to the **My Profile** screen.

From this screen, a **Wireless Phone** and/or **Pager** number can be entered; duty status updated, and break status entered. The **My Assignments** and **My Preferences** tabs are available for staff to review the patient rooms they are assigned to and modify user preferences. The details of these tasks are beyond the scope of these Application Notes.

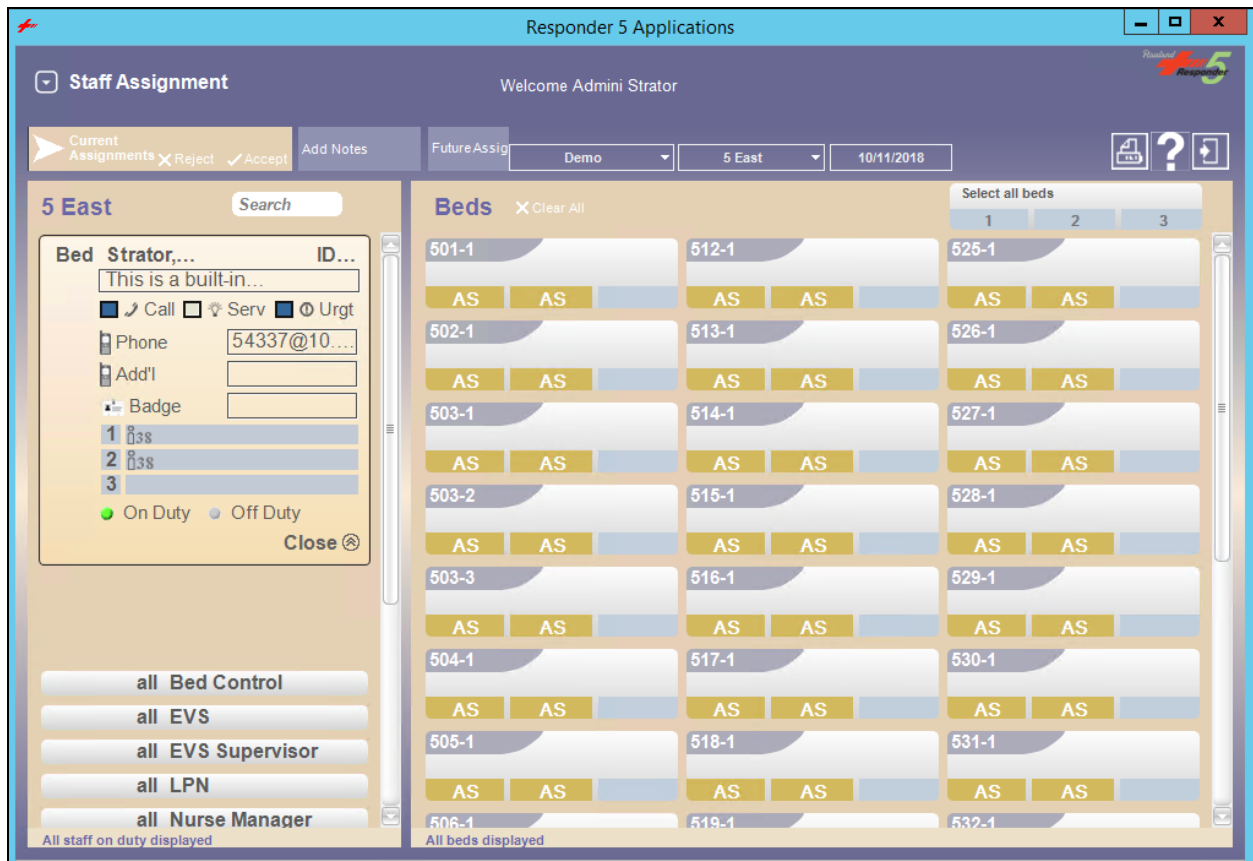
Click **Update** or **Update and Exit** (not shown) to commit the changes.

The screenshot displays the 'My Profile' interface within the 'Responder 5 Applications' window. The user is 'Admini Strator'. The 'My Status' section is active, showing a 'Duty' table with the following data:

Duty	ON	OFF
5 East	<input checked="" type="radio"/>	<input type="radio"/>
All	<input checked="" type="radio"/>	<input type="radio"/>
All Units	<input checked="" type="radio"/>	<input type="radio"/>
Bed Control	<input checked="" type="radio"/>	<input type="radio"/>
Code Blue	<input checked="" type="radio"/>	<input type="radio"/>
EVS	<input checked="" type="radio"/>	<input type="radio"/>
EVS 5 East	<input checked="" type="radio"/>	<input type="radio"/>
EVS Surgery	<input checked="" type="radio"/>	<input type="radio"/>

#### 7.1.4. Assign Staff to Patient Rooms

This task is typically performed by shift supervisors. Staff can be assigned to patient rooms on the **Staff Assignment** screen which is accessed from the drop-down menu at the upper left of the Responder 5 Applications. In the illustration below, “54337” is assigned to a room “501-1” by clicking on the Staff name in the left column, then clicking on the assignment space below the patient name. The staff member’s initials will appear as below when the staff member has been successfully assigned to a patient.



## 7.2. Configure Responder SIP Registrar

All administration is performed via web browser by navigating to the hostname or IP Address of the Rauland SIP Server. Administration for the solution required the following steps:

- Login to SIP Server System
- Configure SIP Server System Tab
- Configure SIP Server SIP Tab
- Configure SIP Server RTP Tab
- Configure Dial Plan Routing Rules

### 7.2.1. Login to SIP Server System

Launch the SIP Server Sign in page by opening a web browser and typing the following in the URL <http://<IP Address>:18080/sip/>, where IP Address is the address of the SIP Server. Enter a valid **User** and **Password** and click on the **SIGN IN** button.



The screenshot shows the login interface for the Rauland Responder SIP Server. At the top left is the Rauland Responder logo, and at the top right is a blue header bar with the text "SIP Server". In the center, the text "Sign in" is displayed in green. Below this, a red-bordered box contains a warning message: "This is a LAB use license. This license is issued to be used only for internal LAB use by the organization to whom it has been issued, and not for any other purposes." Underneath the warning box are two input fields labeled "User" and "Password". Below these fields is a checkbox labeled "REMEMBER ME". At the bottom of the form is a large green button labeled "SIGN IN".

## 7.2.2. Configure SIP Server System Tab

The following **System** properties were pre-configured for the test environment.

The screenshot shows the Raoulnd Responder web interface. The left sidebar contains a navigation menu with categories: SIP Server (selected), RAULAND, and SYSTEM. The main content area is titled 'System' and has tabs for System, SIP, RTP, Database/Radius, and Advanced. A red box at the top of the main area states 'This is a LAB use license.' The 'General' section contains three text input fields: 'Server Name' (pre-filled with 'your-sip-sv'), 'Server Description' (pre-filled with 'your SIP Server'), and 'Server Location' (pre-filled with 'your-place'). The 'Network' section contains five pairs of text input fields for 'Interface address' and 'Remote Address Pattern', each pair corresponding to an interface number (1-5). The 'Auto interface discovery' option is a radio button group with 'off' selected. The 'External IP address pattern' and 'Internal IP address pattern' are text input fields.

System	SIP	RTP	Database/Radius	Advanced
<b>System</b>				
This is a LAB use license.				
<b>General</b>				
Server Name		<input type="text" value="your-sip-sv"/>		
Server Description		<input type="text" value="your SIP Server"/>		
Server Location		<input type="text" value="your-place"/>		
<b>Network</b>				
Interface address 1		<input type="text"/>		
Remote Address Pattern 1		<input type="text"/>		
Interface address 2		<input type="text"/>		
Remote Address Pattern 2		<input type="text"/>		
Interface address 3		<input type="text"/>		
Remote Address Pattern 3		<input type="text"/>		
Interface address 4		<input type="text"/>		
Remote Address Pattern 4		<input type="text"/>		
Interface address 5		<input type="text"/>		
Remote Address Pattern 5		<input type="text"/>		
Auto interface discovery		<input type="radio"/> on <input checked="" type="radio"/> off		
External IP address pattern		<input type="text"/>		
Internal IP address pattern		<input type="text"/>		



IPv6

IPv6

☐ on ☒ off

RFC3484's policy table for Address Selection

☐ on ☒ off

DNS

DNS SRV

☐ on ☒ off

DNS AAAA

☐ on ☒ off

DNS Server

DNS SRV Failover

☐ on ☒ off

Caching period for resolved name (sec)

Caching period for unknown name (sec)

Caching period for error (sec)

UPnP

Enable/Disable

☐ enable ☒ disable

Default router IP address

Cache size

Cache period (sec,0=disable)

Refresh Interval (sec,0=disable)

Java

Java VM arguments

< MENU

Save

Your changes will be in effect after restart.

### 7.2.3. Configure SIP Server SIP Tab

The following SIP properties were pre-configured for the test environment.

**SIP Server**

**RAULAND**

SIP-TAP  
Settings

**SIP SERVER**

Registered Clients  
Active Sessions  
User Authentication  
Dial Plan  
Aliases  
Logs  
CDR  
Push Notification  
Domains  
Configuration

**SYSTEM**

**MAINTENANCE**

Start/Shutdown  
Software Maintenance

**SIP**

This is a LAB use license.

**SIP exchanger**

Session Limit (-1=unlimited)

Local Port

B2B-UA mode ☐ on ☒ off

Check Maximum UDP packet size ☐ on ☒ off

Maximum UDP packet size

**NAT traversal**

Keep address/port mapping ☒ on ☐ off

Interval (ms)

Method ☐ Blank packet ☒ OPTIONS

Add 'rport' parameter (Send) ☐ on ☒ off

Add 'rport' parameter (Receive) ☐ on ☒ off

**Authentication**

REGISTER ☐ on ☒ off

INVITE ☐ on ☒ off

MESSAGE ☐ on ☒ off

SUBSCRIBE ☐ on ☒ off

Realm (ex: domain name)

Auth-user=user in "To:" (Register) ☐ yes ☒ no

Auth-user=user in "From:" ☐ yes ☒ no

Terminating character for user-info

FQDN only ☐ yes ☒ no

Nonce Expires (seconds)

**Registration**

Adjusted Expires

<b>Upper Registration</b>	
On/Off	<input type="radio"/> on <input checked="" type="radio"/> off
Register Server	<input type="text"/>
Protocol	<input checked="" type="radio"/> UDP <input type="radio"/> TCP <input type="radio"/> TLS
<b>Thru Registration</b>	
On/Off	<input checked="" type="radio"/> on <input type="radio"/> off
<b>Timeout (0=unlimited)</b>	
Ringing Timeout (ms)	<input type="text" value="240000"/>
Talking Timeout (ms)	<input type="text" value="259200000"/>
Upper/Thru Timeout(ms)	<input type="text" value="40000"/>
<b>Dial Plan</b>	
Maximum history records	<input type="text" value="50"/>
<b>Miscellaneous</b>	
100 Trying	<input type="radio"/> any requests <input checked="" type="radio"/> only for initial
Check Request-URI's validity	<input type="radio"/> yes <input checked="" type="radio"/> no
Server/User-Agent	<input type="text"/>
<b>TCP</b>	
TCP-handling	<input checked="" type="radio"/> on <input type="radio"/> off
Queue Size	<input type="text" value="50"/>
Maximum Active Connections (0=unlimited)	<input type="text" value="0"/>
<b>TLS</b>	
TLS-handling	<input type="radio"/> on <input checked="" type="radio"/> off
Queue Size	<input type="text" value="50"/>
Maximum Active Connections (0=unlimited)	<input type="text" value="0"/>
Enable TLS 1.0 or older	<input checked="" type="radio"/> enable <input type="radio"/> disable
Request Client Certificate	<input type="radio"/> on <input checked="" type="radio"/> off

WS (WebSocket)

WS-handling

☐ on
☒ off

Listen port

10080

Queue Size

50

Maximum Active Connections (0=unlimited)

0

WSS (WebSocket over TLS)

WSS-handling

☐ on
☒ off

Listen port

10081

Queue Size

50

Maximum Active Connections (0=unlimited)

0

Key and Certificate

Peer Certification Validation

☒ on
☐ off

File Type

☒ Certificate (.pem .der .cer .crt .ce

Private Key File

No File

Browse...

No

Certificate File

No File

Browse...

No

Performance Optimization (Proxy)

Initial threads

10

Maximum Sessions per thread

50

Performance Optimization (Registrar)

Initial threads

0

Maximum Sessions per thread

10

Performance Optimization (Dispatcher)

Multiple Dispatcher

☐ yes
☒ no

Number of Dispatchers

8

<

MENU

Save

Your changes will be in effect after restart.

## 7.2.4. Configure SIP Server RTP Tab

On the **RTP** screen, set **RTP Relay** to “on”, **RTP relay (UA on this machine)** to “auto” and **RTP relay even with ICE** to “no” and click **Save** to complete entries. Note, the **Minimum** and **Maximum Port** range settings should be sufficient to handle the maximum number of concurrent RTP sessions between systems.

The screenshot shows the Raoulant Responder web interface for configuring the SIP Server RTP tab. The left sidebar contains a menu with categories: SIP Server (RAULAND), SIP-TAP, Settings, SIP SERVER, Registered Clients, Active Sessions, User Authentication, Dial Plan, Aliases, Logs, CDR, Push Notification, Domains, Configuration, SYSTEM, and MAINTENANCE. The main content area is titled 'RTP' and includes a warning box: 'This is a LAB use license.' The configuration is divided into three sections: RTP exchanger, Timeout (0=unlimited), and Identify Media Streams. The RTP exchanger section includes settings for RTP relay (on), RTP relay (UA on this machine) (auto), RTP relay even with ICE (no), Minimum Port (10000), Maximum Port (29999), Minimum Port (Video) (0), Maximum Port (Video) (0), Port mapping (source port), Send UA's remote address (auto), and Send before receiving (behind NAT) (no). The Timeout section includes RTP Session Timeout (ms) set to 600000. The Identify Media Streams section includes Label Attribute (RFC4574) (on), Content Attribute (RFC4796) (on), and Order of the 'm' line (on). A 'Save' button is at the bottom, with a note: 'Your changes will be in effect after restart.'

System	SIP	RTP	Database/Radius	Advanced
<b>RTP</b>				
<b>RTP exchanger</b>				
RTP relay		<input checked="" type="radio"/> on <input type="radio"/> auto		
RTP relay (UA on this machine)		<input checked="" type="radio"/> auto <input type="radio"/> off		
RTP relay even with ICE		<input type="radio"/> yes <input checked="" type="radio"/> no <input type="radio"/> auto		
Minimum Port		<input type="text" value="10000"/> 5000 RTP sessions available with these port settings.		
Maximum Port		<input type="text" value="29999"/>		
Minimum Port (Video)		<input type="text" value="0"/> 0 RTP sessions (Video) available with these port settings.		
Maximum Port (Video)		<input type="text" value="0"/>		
Port mapping		<input type="radio"/> sdp <input checked="" type="radio"/> source port		
Send UA's remote address		<input type="radio"/> yes <input type="radio"/> no <input checked="" type="radio"/> auto		
Send before receiving (behind NAT)		<input type="radio"/> yes <input checked="" type="radio"/> no		
<b>Timeout (0=unlimited)</b>				
RTP Session Timeout (ms)		<input type="text" value="600000"/>		
<b>Identify Media Streams</b>				
Label Attribute (RFC4574)		<input checked="" type="radio"/> on <input type="radio"/> off		
Content Attribute (RFC4796)		<input checked="" type="radio"/> on <input type="radio"/> off		
Order of the 'm' line		<input checked="" type="radio"/> on <input type="radio"/> off		
<b>Save</b>		Your changes will be in effect after restart.		

## 7.2.5. Configure Dial Plan Routing Rules

**Dial Plan** rules that was used is illustrated below. For calls routing from Session Manager, the **DELETE Inbound Call** rule was used. For calls routing to Communication Server 1000, the **To CS1000** rule was used.

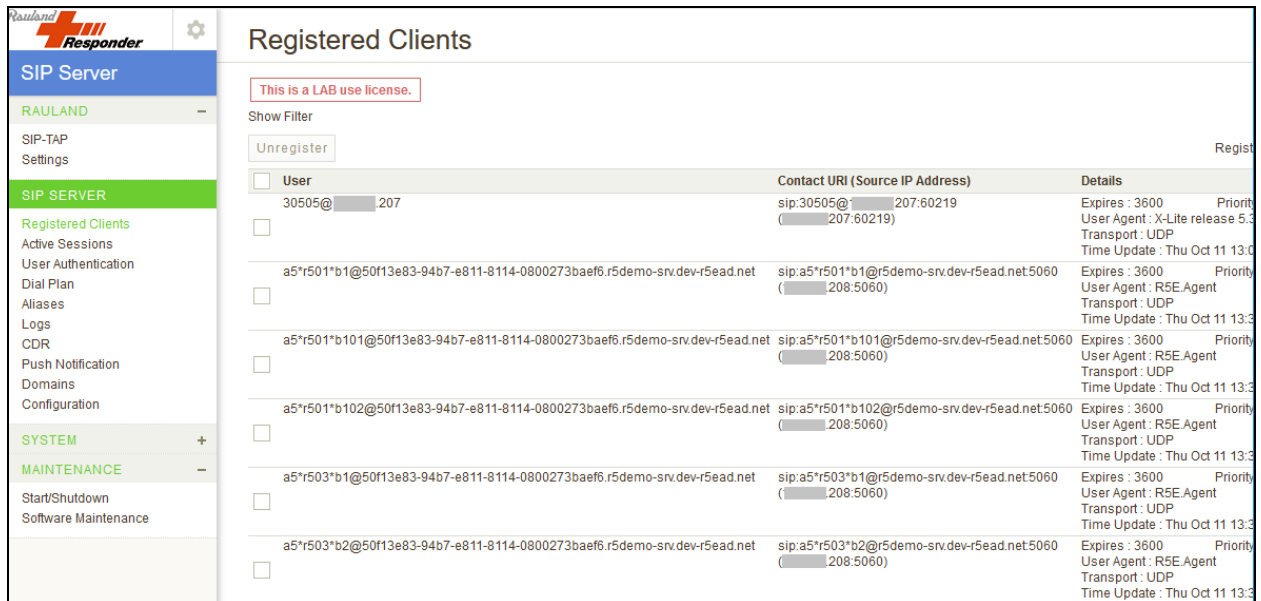
The screenshot displays the Raftland Responder SIP Server configuration interface. The left sidebar shows the navigation menu with categories: SIP Server (RAULAND), SIP-TAP, Settings, SIP SERVER, SYSTEM, and MAINTENANCE. The main area is titled 'Rules' and contains a table of configured rules. A red box highlights the 'DELETE Inbound Call' rule (Priority 3), and another red box highlights the 'To CS1000' rule (Priority 16). The 'Inbound Call' rule (Priority 2) is also visible.

Pri	Name	Matching Patterns	Deploy Patterns
2	Inbound Call	<code>\$request = ^INVITE</code> <code>To = sip:30(d+)*((d+)*((d+)*@</code>	<code>To = sip:a%1*r%2*b%3@50f13e83-94b7-e811-8114-0800273baef6.r5demo-srv-dev-r5ead.net</code> <code>\$target =</code> <code>\$b2bua = true</code> <code>\$session = sdp</code> <code>&amp;net.sip.replacesdp.multipart = true</code> <code>&amp;sdp.audio.a.1 =ptime:20</code> <code>Accept-Language</code> <code>Alert-Info</code> <code>P-Location</code> <code>P-AV-Message-Id</code> <code>P-Asserted-Identity</code> <code>P-Charging-Vector</code> <code>AV-Global-Session-ID</code> <code>x-nt-corr-id</code> <code>History-Info</code> <code>Max-Breadth</code> <code>Endpoint-View</code> <code>User-to-User</code>
3	DELETE Inbound Call	<code>\$request = ^INVITE</code> <code>To = sip:(301.+)*@</code>	<code>To = sip:a5*r501*b1@50f13e83-94b7-e811-8114-0800273baef6.r5demo-srv-dev-r5ead.net</code> <code>\$target = 10.10.5.208</code> <code>\$b2bua = true</code> <code>\$session = sdp</code> <code>&amp;net.sip.replacesdp.multipart = true</code> <code>&amp;sdp.audio.a.1 =ptime:20</code> <code>Accept-Language</code> <code>Alert-Info</code> <code>P-Location</code> <code>P-AV-Message-Id</code> <code>P-Asserted-Identity</code> <code>P-Charging-Vector</code> <code>AV-Global-Session-ID</code> <code>x-nt-corr-id</code> <code>History-Info</code> <code>Max-Breadth</code> <code>Endpoint-View</code> <code>User-to-User</code>
16	To CS1000	<code>\$request = ^INVITE</code> <code>To = sip:(54.+)*@</code>	<code>To = sip:%1@10.10.97.228</code>

## 8. Verification Steps

Calls were placed to and from Responder endpoints, and two-way audio was confirmed. The nature of these devices is simple, one-way communications with Hospital staff; complex calls like hold, transfer and conference are not supported on the patient room devices.

On the Rauland SIP Server, the **Registered Clients** screen will confirm if Responder endpoints are successfully registered as shown below.



User	Contact URI (Source IP Address)	Details	Register
<div>This is a LAB use license.</div>			
<div>Show Filter</div>			
<div>Unregister</div>			
<input type="checkbox"/> 30505@207	sip:30505@207:60219 (207.60219)	Expires : 3600 User Agent : X-Lite release 5.3 Transport : UDP Time Update : Thu Oct 11 13:0	
<input type="checkbox"/> a5*r501*b1@50f13e83-94b7-e811-8114-0800273baef6.r5demo-srv.dev-r5ead.net	sip:a5*r501*b1@r5demo-srv.dev-r5ead.net:5060 (208.5060)	Expires : 3600 User Agent : R5E.Agent Transport : UDP Time Update : Thu Oct 11 13:3	
<input type="checkbox"/> a5*r501*b101@50f13e83-94b7-e811-8114-0800273baef6.r5demo-srv.dev-r5ead.net	sip:a5*r501*b101@r5demo-srv.dev-r5ead.net:5060 (208.5060)	Expires : 3600 User Agent : R5E.Agent Transport : UDP Time Update : Thu Oct 11 13:3	
<input type="checkbox"/> a5*r501*b102@50f13e83-94b7-e811-8114-0800273baef6.r5demo-srv.dev-r5ead.net	sip:a5*r501*b102@r5demo-srv.dev-r5ead.net:5060 (208.5060)	Expires : 3600 User Agent : R5E.Agent Transport : UDP Time Update : Thu Oct 11 13:3	
<input type="checkbox"/> a5*r503*b1@50f13e83-94b7-e811-8114-0800273baef6.r5demo-srv.dev-r5ead.net	sip:a5*r503*b1@r5demo-srv.dev-r5ead.net:5060 (208.5060)	Expires : 3600 User Agent : R5E.Agent Transport : UDP Time Update : Thu Oct 11 13:3	
<input type="checkbox"/> a5*r503*b2@50f13e83-94b7-e811-8114-0800273baef6.r5demo-srv.dev-r5ead.net	sip:a5*r503*b2@r5demo-srv.dev-r5ead.net:5060 (208.5060)	Expires : 3600 User Agent : R5E.Agent Transport : UDP Time Update : Thu Oct 11 13:3	

## 9. Conclusion

These Application Notes describe the procedures required to configure Rauland Responder Enterprise to interoperate with endpoints registered to Avaya Communication Server 1000 via Avaya Aura® Session Manager using a Responder SIP Server as a SIP registrar and Proxy for the Responder side of the solution.

All feature functionality test cases described in **Section 2.1** were passed with the observations pointed in **Section 2.2**.

## 10. Additional References

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

Product documentation for Avaya products may be found at <http://support.avaya.com>.

1. *Communication Server 1000E Installation and Commissioning*, Release 7.6, NN43041-310
2. *Element Manager System Reference – Administration - Avaya Communication Server 1000*, Release 7.6, NN43001-632.
3. *Avaya Communication Server 1000 Co-resident Call Server and Signaling Server Fundamentals* Release 7.6, NN43001-509.
4. *Avaya Communication Server 1000 - Software Input Output Reference — Administration* Release 7.6, NN43001-611.
5. *Deploying Avaya Aura® System Manager in Virtual Appliance*, 8.0. Issue 2. September 2018.
6. *Administering Avaya Aura® System Manager for Release 8.0*, Release 8.0. Issue 3. September 2018.

Product information for Rauland products can be found at <http://www.rauland.com/>.



# Appendix A

## Avaya Communication Server 1000 R7.6 - Linux Patches

Product Release: 7.65.16.00

In system patches: 9

PATCH#	NAME	IN_SERVICE	DATE	SPECINS	TYPE	RPM
17	p33125_1	Yes	19/02/16	NO	FRU	cs1000-OS-1.00.00.00-00.noarch
18	p33274_1	Yes	19/02/16	YES	FRU	initscripts-8.45.25-1.el5.i386
19	p33384_1	Yes	19/02/16	NO	FRU	cs1000-OS-1.00.00.00-00.noarch
21	p33493_1	Yes	19/02/16	NO	FRU	cs1000-OS-1.00.00.00-00.noarch
23	p33557_1	Yes	19/02/16	YES	FRU	cs1000-OS-1.00.00.00-00.noarch
47	p33774_1	Yes	04/07/17	YES	FRU	cs1000-OS-1.00.00.00-00.noarch
48	p31484_1	Yes	19/02/16	NO	FRU	cs1000-shared-general-7.65.16-00.i386
67	p33584_1	Yes	06/07/16	YES	FRU	cs1000-OS-1.00.00.00-00.noarch
68	p33673_1	Yes	06/07/16	NO	FRU	net-snmp-5.3.2.2-5.el5.i386

In System service updates: 46

PATCH#	IN_SERVICE	DATE	SPECINS	REMOVABLE	NAME
0	Yes	04/07/17	YES	YES	cs1000-bcc-7.65.16.23-19.i386.000
1	Yes	05/07/16	YES	YES	cs1000-patchWeb-7.65.16.23-2.i386.000
2	Yes	19/02/16	NO	YES	cs1000-snmp-7.65.16.21-00.i686.000
3	Yes	19/02/16	YES	YES	cs1000-ipsec-7.65.16.22-1.i386.000
4	Yes	19/02/16	YES	YES	cs1000-csoneksvrmgr-7.65.16.22-5.i386.000
5	Yes	19/02/16	YES	YES	cs1000-baseWeb-7.65.16.22-4.i386.000
7	Yes	19/02/16	NO	YES	bash-3.2-33.el5_11.4.i386.000
8	Yes	19/02/16	NO	YES	libxml2-2.6.26-2.1.25.el5_11.i386.000
9	Yes	19/02/16	NO	YES	libxml2-python-2.6.26-2.1.25.el5_11.i386.000
10	Yes	19/02/16	NO	YES	freetype-2.2.1-32.el5_9.1.i386.000
11	Yes	19/02/16	NO	YES	cs1000-cppmUtil-7.65.16.23-4.i686.000
14	Yes	04/07/17	YES	YES	cs1000-linuxbase-7.65.16.23-35.i386.000
15	Yes	04/07/17	NO	YES	cs1000-Jboss-Quantum-7.65.16.23-12.i386.000
16	Yes	05/07/16	YES	YES	cs1000-dmWeb-7.65.16.23-5.i386.000
20	Yes	04/07/17	NO	YES	cs1000-cs1000WebService_6-0-7.65.16.23-6.i386.000
22	Yes	04/07/17	YES	YES	cs1000-dbcom-7.65.16.23-1.i386.000
25	Yes	19/02/16	NO	YES	cs1000-shared-carrdtct-7.65.16.21-01.i386.000
26	Yes	04/07/17	YES	YES	cs1000-emWeb_6-0-7.65.16.23-8.i386.000
28	Yes	19/02/16	NO	YES	cs1000-shared-omm-7.65.16.21-2.i386.000
29	Yes	19/02/16	YES	YES	cs1000-emWebLocal_6-0-7.65.16.22-1.i386.000
30	Yes	04/07/17	YES	YES	cs1000-mscAttn-7.65.16.23-15.i386.000
31	Yes	04/07/17	YES	YES	cs1000-oam-logging-7.65.16.23-1.i386.000
32	Yes	04/07/17	NO	YES	cs1000-pd-7.65.16.23-1.i386.000
33	Yes	04/07/17	YES	YES	cs1000-shared-pbx-7.65.16.23-3.i386.000
34	Yes	04/07/17	YES	YES	cs1000-tps-7.65.16.23-21.i386.000
35	Yes	04/07/17	YES	YES	cs1000-vtrk-7.65.16.23-123.i386.000
36	Yes	04/07/17	YES	YES	jdk-1.6.0_151-fcs.i586.000
37	Yes	19/02/16	NO	YES	cs1000-gk-7.65.16.22-1.i386.000
38	Yes	19/02/16	YES	YES	cs1000-shared-xmsg-7.65.16.22-1.i386.000
39	Yes	19/02/16	NO	YES	cs1000-sps-7.65.16.23-1.i386.000
40	Yes	19/02/16	YES	YES	cs1000-cs-7.65.P.100-03.i386.000
41	Yes	04/07/17	YES	YES	kernel-2.6.18-419.el5.i686.000
42	Yes	04/07/17	YES	YES	openssl-0.9.8e-40.el5_11.i386.000
43	Yes	04/07/17	NO	YES	pass_harden-7.65.16.23-2.i386.000
44	Yes	19/02/16	YES	YES	cs1000-ftrpkg-7.65.16.23-1.i386.000
45	Yes	04/07/17	NO	YES	pcap-7.65.16.23-1.i386.000
46	Yes	04/07/17	NO	yes	tzdata-2016g-2.el5.i386.000
50	Yes	06/07/16	NO	YES	cs1000-shared-tpselect-7.65.16.23-1.i386.000
51	Yes	06/07/16	YES	YES	cs1000-csmWeb-7.65.16.23-2.i386.000
53	Yes	06/07/16	YES	YES	cs1000-csv-7.65.16.23-4.i386.000
56	Yes	06/07/16	YES	YES	cs1000-mscAnnc-7.65.16.23-1.i386.000
57	Yes	06/07/16	YES	YES	cs1000-mscConf-7.65.16.23-1.i386.000
58	Yes	06/07/16	YES	YES	cs1000-mscMusc-7.65.16.23-1.i386.000
59	Yes	06/07/16	YES	YES	cs1000-mscTone-7.65.16.23-1.i386.000
61	Yes	06/07/16	YES	YES	avaya-cs1000-cnd-4.0.48-1.el5.i386.000
62	Yes	06/07/16	NO	YES	libssh2-1.4.2-2.el5_7.1.i386.000

## Avaya Communication Server 1000 R7.6 - Call Server Patches

VERSION 4121

RELEASE 7

ISSUE 65 P +

DepList 1: core Issue: 01 (created: 2017-06-30 10:51:38 (est))

### IN-SERVICE PEPS

PAT#	CR #	PATCH REF #	NAME	DATE	FILENAME	SPECINS
0000	wi01185642	ISS1:10F1	p33342_1	21/09/2018	p33342_1.cpl	NO
0001	wi01171467	ISS1:10F1	p33270_1	21/09/2018	p33270_1.cpl	NO
0002	wi01080753	ISS1:10F1	p32518_1	21/09/2018	p32518_1.cpl	NO
0003	wi01101969	ISS1:10F1	p32726_1	21/09/2018	p32726_1.cpl	NO
0004	wi01127527	ISS1:10F1	p32988_1	21/09/2018	p32988_1.cpl	YES
0005	wi01096910	ISS1:10F1	p32734_1	21/09/2018	p32734_1.cpl	NO
0006	wi01156086	ISS1:10F1	p33269_1	21/09/2018	p33269_1.cpl	NO
0007	wi01025156	ISS1:10F1	p32136_1	21/09/2018	p32136_1.cpl	NO
0008	wi01146705	ISS1:10F1	p33129_1	21/09/2018	p33129_1.cpl	NO
0009	wi01138136	ISS1:10F1	p33191_1	21/09/2018	p33191_1.cpl	NO
0010	wi01099810	ISS1:10F1	p32796_1	21/09/2018	p32796_1.cpl	NO
0011	wi01085855	ISS1:10F1	p32658_1	21/09/2018	p32658_1.cpl	NO
0012	wi01163826	ISS1:10F1	p33229_1	21/09/2018	p33229_1.cpl	NO
0013	wi01113712	ISS1:10F1	p32877_1	21/09/2018	p32877_1.cpl	NO
0014	wi01060826	ISS1:10F1	p32379_1	21/09/2018	p32379_1.cpl	NO
0015	wi01199608	ISS1:10F1	p33414_1	21/09/2018	p33414_1.cpl	NO
0016	wi01181174	ISS1:10F1	p33316_1	21/09/2018	p33316_1.cpl	NO
0017	wi01118819	ISS1:10F1	p32954_1	21/09/2018	p32954_1.cpl	NO
0018	CS1000-6964	ISS1:10F1	p33541_1	21/09/2018	p33541_1.cpl	NO
0019	wi01120406	ISS1:10F1	p32956_1	21/09/2018	p32956_1.cpl	NO
0020	cs1000-7160	ISS1:10F1	p33621_1	21/09/2018	p33621_1.cpl	NO
0021	wi01129098	ISS1:10F1	p32951_1	21/09/2018	p32951_1.cpl	NO
0022	wi01110593	ISS1:10F1	p32849_1	21/09/2018	p32849_1.cpl	NO
0023	wi01077639	ISS1:10F1	p32883_1	21/09/2018	p32883_1.cpl	NO
0024	CS1000-7607	ISS1:10F1	p33783_1	21/09/2018	p33783_1.cpl	YES
0025	CS1000-6789	ISS1:10F1	p33508_1	21/09/2018	p33508_1.cpl	NO
0026	wi01156999	ISS1:10F1	p33180_1	21/09/2018	p33180_1.cpl	NO
0027	wi01167427	ISS1:10F1	p33264_1	21/09/2018	p33264_1.cpl	NO
0028	wi01123389	ISS1:10F1	p33045_1	21/09/2018	p33045_1.cpl	NO
0029	wi01212527	ISS1:10F1	p33481_1	21/09/2018	p33481_1.cpl	YES
0030	wi01075359	ISS1:10F1	p32671_1	21/09/2018	p32671_1.cpl	NO
0031	wi01148697	ISS1:10F1	p33187_1	21/09/2018	p33187_1.cpl	NO
0032	wi01114695	ISS1:10F1	p32885_1	21/09/2018	p32885_1.cpl	NO
0033	wi01199336	ISS1:10F1	p33410_1	21/09/2018	p33410_1.cpl	NO
0034	wi01132902	ISS1:10F1	p33028_1	21/09/2018	p33028_1.cpl	NO
0035	wi01063864	ISS1:10F1	p32410_1	21/09/2018	p32410_1.cpl	YES
0036	wi01076948	ISS1:10F1	p32526_1	21/09/2018	p32526_1.cpl	YES
0037	wi01215810	ISS1:10F1	p33494_1	21/09/2018	p33494_1.cpl	NO
0038	wi01094832	iss1:10f1	p32718_1	21/09/2018	p32718_1.cpl	NO
0039	wi01127138	ISS1:10F1	p33304_1	21/09/2018	p33304_1.cpl	NO
0040	wi01095255	ISS1:10F1	p33027_1	21/09/2018	p33027_1.cpl	NO
0041	cs1000-6998	ISS1:10F1	p33555_1	21/09/2018	p33555_1.cpl	NO
0042	wi01094727	ISS1:10F1	p32848_1	21/09/2018	p32848_1.cpl	NO
0043	wi01090535	ISS1:10F1	p32519_1	21/09/2018	p32519_1.cpl	NO
0044	wi01151898	ISS1:10F1	p33175_1	21/09/2018	p33175_1.cpl	NO
0045	CS1000-7624	ISS1:10F1	p33794_1	21/09/2018	p33794_1.cpl	NO
0046	wi01062607	ISS1:10F1	p32503_1	21/09/2018	p32503_1.cpl	NO
0047	wi01147983	ISS1:10F1	p33141_1	21/09/2018	p33141_1.cpl	NO
0048	wi01151870	ISS1:10F1	p33162_1	21/09/2018	p33162_1.cpl	YES
0049	wi01190506	ISS1:10F1	p33361_1	21/09/2018	p33361_1.cpl	NO
0050	CS1000-7406	ISS1:10F1	p33715_1	21/09/2018	p33715_1.cpl	NO
0051	wi01132222	ISS1:10F1	p33023_1	21/09/2018	p33023_1.cpl	NO
0052	wi01070585	ISS1:10F1	p32383_1	21/09/2018	p32383_1.cpl	NO
0053	wi01153844	ISS1:10F1	p33172_1	21/09/2018	p33172_1.cpl	NO
0054	wi01142792	ISS1:10F1	p33099_1	21/09/2018	p33099_1.cpl	NO
0055	WI01077073	ISS1:10F1	p32534_1	21/09/2018	p32534_1.cpl	NO
0056	wi01186846	ISS1:10F1	p33332_1	21/09/2018	p33332_1.cpl	NO
0057	wi01159931	ISS1:10F1	p33231_1	21/09/2018	p33231_1.cpl	YES
0058	wi01053597	ISS1:10F1	p32304_1	21/09/2018	p32304_1.cpl	NO
0059	CS1000-7590	ISS1:10F1	p33780_1	21/09/2018	p33780_1.cpl	NO

0060	wi01114038	ISS1:10F1	p32869_1	21/09/2018	p32869_1.cpl	NO
0061	CS1000-7622	ISS1:10F1	p33787_1	21/09/2018	p33787_1.cpl	YES
0062	wi01091447	ISS1:10F1	p32675_1	21/09/2018	p32675_1.cpl	NO
0063	wi01165881	ISS1:10F1	p33239_1	21/09/2018	p33239_1.cpl	NO
0064	wi01149384	ISS1:10F1	p33147_1	21/09/2018	p33147_1.cpl	NO
0065	wi01079444	ISS1:10F1	p32564_1	21/09/2018	p32564_1.cpl	NO
0066	CS1000-6852	ISS1:10F1	p33517_1	21/09/2018	p33517_1.cpl	NO
0067	wi01146766	ISS1:10F1	p33131_1	21/09/2018	p33131_1.cpl	NO
0068	wi01150083	ISS1:10F1	p33152_1	21/09/2018	p33152_1.cpl	NO
0069	wi01163048	ISS1:10F1	p33223_1	21/09/2018	p33223_1.cpl	YES
0070	wi01189247	ISS1:10F1	p33382_1	21/09/2018	p33382_1.cpl	YES
0071	wi01070279	ISS1:10F1	p32262_1	21/09/2018	p32262_1.cpl	NO
0072	wi01075353	ISS1:10F1	p32613_1	21/09/2018	p32613_1.cpl	NO
0073	wi01108828	ISS1:10F1	p32831_1	21/09/2018	p32831_1.cpl	NO
0074	wi01197246	ISS1:10F1	p33400_1	21/09/2018	p33400_1.cpl	NO
0075	wi01213334	ISS1:10F1	p33485_1	21/09/2018	p33485_1.cpl	NO
0076	wi01208515	ISS1:10F1	p33455_1	21/09/2018	p33455_1.cpl	NO
0077	CS1000-6946	ISS1:10F1	p33543_1	21/09/2018	p33543_1.cpl	NO
0078	wi01095462	ISS1:10F1	p32723_1	21/09/2018	p32723_1.cpl	NO
0079	wi01021522	ISS1:10F1	p32863_1	21/09/2018	p32863_1.cpl	NO
0080	wi01191767	ISS1:10F1	p33368_1	21/09/2018	p33368_1.cpl	NO
0081	CS1000-7460	ISS1:10F1	p33735_1	21/09/2018	p33735_1.cpl	NO
0082	wi01145002	ISS1:10F1	p33186_1	21/09/2018	p33186_1.cpl	NO
0083	wi01132215	ISS1:10F1	p33084_1	21/09/2018	p33084_1.cpl	NO
0084	wi01153039	ISS1:10F1	p17588_1	21/09/2018	p17588_1.cpl	NO
0085	wi01053950	ISS1:10F1	p32654_1	21/09/2018	p32654_1.cpl	YES
0086	wi01089807	ISS1:10F1	p32957_1	21/09/2018	p32957_1.cpl	NO
0087	wi01089519	ISS1:10F1	p32665_1	21/09/2018	p32665_1.cpl	NO
0088	CS1000-6844	ISS1:10F1	p33507_1	21/09/2018	p33507_1.cpl	NO
0089	wi01083896	ISS1:10F1	p32937_1	21/09/2018	p32937_1.cpl	NO
0090	CS1000-7176	ISS1:10F1	p33744_1	21/09/2018	p33744_1.cpl	NO
0091	wi01215563	ISS1:10F1	p33412_1	21/09/2018	p33412_1.cpl	NO
0092	cs1000-6924	ISS1:10F1	p33523_1	21/09/2018	p33523_1.cpl	NO
0093	CS1000-7022	ISS1:10F1	p33560_1	21/09/2018	p33560_1.cpl	NO
0094	wi01182880	ISS1:10F1	p33328_1	21/09/2018	p33328_1.cpl	NO
0095	wi01144354	ISS1:10F1	p33117_1	21/09/2018	p33117_1.cpl	NO
0096	wi01102091	ISS1:10F1	p32744_1	21/09/2018	p32744_1.cpl	YES
0097	wi01132244	ISS1:10F1	p33041_1	21/09/2018	p33041_1.cpl	NO
0098	wi01185751	ISS1:10F1	p33409_1	21/09/2018	p33409_1.cpl	YES
0099	wi01136194	ISS1:10F1	p33051_1	21/09/2018	p33051_1.cpl	NO
0100	wi01068669	ISS1:10F1	p32333_1	21/09/2018	p32333_1.cpl	NO
0101	wi01153104	ISS1:10F1	p33174_1	21/09/2018	p33174_1.cpl	NO
0102	WI01169289	ISS1:10F1	p33257_1	21/09/2018	p33257_1.cpl	NO
0103	wi01059388	ISS1:10F1	p32628_1	21/09/2018	p32628_1.cpl	NO
0104	wi01092443	ISS1:10F1	p32676_1	21/09/2018	p32676_1.cpl	NO
0105	CS1000-7151	ISS1:10F1	p33617_1	21/09/2018	p33617_1.cpl	NO
0106	wi01133106	ISS1:10F1	p33032_1	21/09/2018	p33032_1.cpl	NO
0107	wi01108262	ISS1:10F1	p32865_1	21/09/2018	p32865_1.cpl	YES
0108	wi01099724	ISS1:10F1	p32742_1	21/09/2018	p32742_1.cpl	YES
0109	wi01177614	ISS1:10F1	p33303_1	21/09/2018	p33303_1.cpl	NO
0110	wi01184588	ISS1:10F1	p33338_1	21/09/2018	p33338_1.cpl	NO
0111	CS1000-6738	ISS1:10F1	p33495_1	21/09/2018	p33495_1.cpl	NO
0112	wi01137694	ISS1:10F1	p33081_1	21/09/2018	p33081_1.cpl	NO
0113	wi01188972	ISS1:10F1	p33352_1	21/09/2018	p33352_1.cpl	NO
0114	wi01072027	ISS1:10F1	p32689_1	21/09/2018	p32689_1.cpl	NO
0115	CS1000-6933	ISS1:10F1	p33529_1	21/09/2018	p33529_1.cpl	NO
0116	wi01075149	ISS1:10F1	p32475_1	21/09/2018	p32475_1.cpl	NO
0117	WI11032038	ISS1:10F1	p33022_1	21/09/2018	p33022_1.cpl	NO
0118	wi01109251	ISS1:10F1	p32827_1	21/09/2018	p32827_1.cpl	NO
0119	wi01146254	ISS1:10F1	p33127_1	21/09/2018	p33127_1.cpl	NO
0120	wi01118714	ISS2:10F1	p32952_2	21/09/2018	p32952_2.cpl	NO
0121	wi01139981	ISS1:10F1	p33083_1	21/09/2018	p33083_1.cpl	NO
0122	cs1000-7269	ISS1:10F1	p33670_1	21/09/2018	p33670_1.cpl	NO
0123	wi01134952	ISS1:10F1	p33039_1	21/09/2018	p33039_1.cpl	NO
0124	wi01071996	ISS1:10F1	p32461_1	21/09/2018	p32461_1.cpl	NO
0125	wi01181423	ISS1:10F1	p33318_1	21/09/2018	p33318_1.cpl	NO
0126	wi01065125	ISS1:10F1	p32416_1	21/09/2018	p32416_1.cpl	NO
0127	wi01075538	ISS1:10F1	p32469_1	21/09/2018	p32469_1.cpl	NO

0128	wi01093071	ISS1:10F1	p32701_1	21/09/2018	p32701_1.cpl	NO
0129	wi01115369	ISS1:10F1	p32889_1	21/09/2018	p32889_1.cpl	NO
0130	wi01154253	ISS1:10F1	p33206_1	21/09/2018	p33206_1.cpl	NO
0131	wi01081510	ISS1:10F1	p32582_1	21/09/2018	p32582_1.cpl	NO
0132	wi01060611	ISS1:10F1	p32809_1	21/09/2018	p32809_1.cpl	NO
0133	CS1000-6910	ISS1:10F1	p33528_1	21/09/2018	p33528_1.cpl	NO
0134	wi01207693	ISS1:10F1	p33452_1	21/09/2018	p33452_1.cpl	NO
0135	wi01198794	ISS1:10F1	p33408_1	21/09/2018	p33408_1.cpl	NO
0136	wi01065922	ISS1:10F1	p32516_1	21/09/2018	p32516_1.cpl	NO
0137	wi01170583	ISS1:10F1	p33261_1	21/09/2018	p33261_1.cpl	NO
0138	wi01202917	ISS1:10F1	p33434_1	21/09/2018	p33434_1.cpl	NO
0139	wi01182523	ISS1:10F1	p33327_1	21/09/2018	p33327_1.cpl	NO
0140	WI0110261	ISS1:10F1	p32758_1	21/09/2018	p32758_1.cpl	NO
0141	wi01195975	ISS1:10F1	p33394_1	21/09/2018	p33394_1.cpl	NO
0142	wi01118320	ISS1:10F1	p32753_1	21/09/2018	p32753_1.cpl	NO
0143	wi01083036	ISS1:10F1	p32571_1	21/09/2018	p32571_1.cpl	NO
0144	wi01098905	ISS1:10F1	p32556_1	21/09/2018	p32556_1.cpl	NO
0145	CS1000-6786	ISS1:10F1	p33497_1	21/09/2018	p33497_1.cpl	NO
0146	CS1000-7277	ISS1:10F1	p33763_1	21/09/2018	p33763_1.cpl	NO
0147	wi01130836	ISS1:10F1	p33008_1	21/09/2018	p33008_1.cpl	YES
0148	wi01119086	ISS1:10F1	p32917_1	21/09/2018	p32917_1.cpl	NO
0149	WI01121737	ISS1:10F1	p32939_1	21/09/2018	p32939_1.cpl	NO
0150	wi01128596	ISS1:10F1	p33000_1	21/09/2018	p33000_1.cpl	NO
0151	wi01137003	ISS1:10F1	p33053_1	21/09/2018	p33053_1.cpl	NO
0152	wi01169714	ISS1:10F1	p33335_1	21/09/2018	p33335_1.cpl	NO
0153	wi01205975	ISS1:10F1	p33447_1	21/09/2018	p33447_1.cpl	NO
0154	wi01098783	ISS1:10F1	p32748_1	21/09/2018	p32748_1.cpl	NO
0155	wi01197054	ISS1:10F1	p33397_1	21/09/2018	p33397_1.cpl	NO
0156	wi01087543	ISS1:10F1	p32662_1	21/09/2018	p32662_1.cpl	NO
0157	wi01174116	ISS1:10F1	p33287_1	21/09/2018	p33287_1.cpl	NO
0158	wi01072062	ISS1:10F1	p32776_1	21/09/2018	p32776_1.cpl	NO
0159	wi01070473	ISS1:10F1	p32413_1	21/09/2018	p32413_1.cpl	NO
0160	CS1000-7276	ISS1:10F1	p33675_1	21/09/2018	p33675_1.cpl	YES
0161	wi01126552	ISS1:10F1	p32975_1	21/09/2018	p32975_1.cpl	NO
0162	CS1000-7174	ISS1:10F1	p33655_1	21/09/2018	p33655_1.cpl	NO
0163	wi00959458	ISS1:10F1	p31551_1	21/09/2018	p31551_1.cpl	NO
0164	wi01160967	ISS1:10F1	p33213_1	21/09/2018	p33213_1.cpl	NO
0165	wi01166011	ISS1:10F1	p33235_1	21/09/2018	p33235_1.cpl	NO
0166	wi01063263	ISS1:10F1	p32573_1	21/09/2018	p32573_1.cpl	NO
0167	CS1000-7113	ISS1:10F1	p33623_1	21/09/2018	p33623_1.cpl	NO
0168	wi01034307	ISS1:10F1	p32615_1	21/09/2018	p32615_1.cpl	NO
0169	wi01180594	ISS1:10F1	p33312_1	21/09/2018	p33312_1.cpl	NO
0170	wi01204623	ISS1:10F1	p33444_1	21/09/2018	p33444_1.cpl	NO
0171	CS1000-7435	ISS1:10F1	p33745_1	21/09/2018	p33745_1.cpl	NO
0172	wi01104473	ISS1:10F1	p32818_1	21/09/2018	p32818_1.cpl	NO
0173	CS1000-6978	ISS1:10F1	p33551_1	21/09/2018	p33551_1.cpl	YES
0174	wi01204274	ISS1:10F1	p33451_1	21/09/2018	p33451_1.cpl	NO
0175	wi01150771	ISS1:10F1	p33210_1	21/09/2018	p33210_1.cpl	NO
0176	wi01071296	ISS1:10F1	p32836_1	21/09/2018	p32836_1.cpl	NO
0177	wi01125238	ISS1:10F1	p32971_1	21/09/2018	p32971_1.cpl	NO
0178	wi01149017	ISS1:10F1	p33145_1	21/09/2018	p33145_1.cpl	NO
0179	wi01210497	ISS1:10F1	p33468_1	21/09/2018	p33468_1.cpl	YES
0180	CS1000-7265	ISS1:10F1	p33666_1	21/09/2018	p33666_1.cpl	NO
0181	wi01101876	ISS1:10F1	p32858_1	21/09/2018	p32858_1.cpl	NO
0182	wi01164281	ISS1:10F1	p33232_1	21/09/2018	p33232_1.cpl	NO
0183	wi01119100	ISS1:10F1	p32925_1	21/09/2018	p32925_1.cpl	NO
0184	wi01066991	ISS1:10F1	p32449_1	21/09/2018	p32449_1.cpl	NO
0185	wi01102296	ISS1:10F1	p32780_1	21/09/2018	p32780_1.cpl	NO
0186	wi01188722	ISS1:10F1	p33365_1	21/09/2018	p33365_1.cpl	NO
0187	CS1000-7451	ISS1:10F1	p33749_1	21/09/2018	p33749_1.cpl	NO
0188	CS1000-7301	ISS1:10F1	p33691_1	21/09/2018	p33691_1.cpl	NO
0189	wi01045144	ISS1:10F1	p33202_1	21/09/2018	p33202_1.cpl	NO
0190	wi01061481	ISS1:10F1	p32382_1	21/09/2018	p32382_1.cpl	NO
0191	CS1000-7053	ISS1:10F1	p33574_1	21/09/2018	p33574_1.cpl	NO
0192	wi01039280	ISS1:10F1	p32423_1	21/09/2018	p32423_1.cpl	NO
0193	wi01128512	ISS1:10F1	p32997_1	21/09/2018	p32997_1.cpl	NO
0194	wi01127447	ISS1:10F1	p32990_1	21/09/2018	p32990_1.cpl	NO
0195	wi01068851	ISS1:10F1	p32439_1	21/09/2018	p32439_1.cpl	NO

0196	CS1000-7357	ISS1:10F1	p33698_1	21/09/2018	p33698_1.cpl	NO
0197	wi01120458	ISS1:10F1	p32929_1	21/09/2018	p32929_1.cpl	NO
0198	wi01187443	ISS1:10F1	p33359_1	21/09/2018	p33359_1.cpl	NO
0199	wi01183783	ISS1:10F1	p33333_1	21/09/2018	p33333_1.cpl	NO
0200	CS1000-6872	ISS1:10F1	p33520_1	21/09/2018	p33520_1.cpl	NO
0201	wi01096718	ISS1:10F1	p33138_1	21/09/2018	p33138_1.cpl	YES
0202	wi01189516	ISS1:10F1	p33373_1	21/09/2018	p33373_1.cpl	NO
0203	wi01201882	ISS1:10F1	p33427_1	21/09/2018	p33427_1.cpl	NO
0204	wi01134756	ISS1:10F1	p33453_1	21/09/2018	p33453_1.cpl	NO
0205	wi01096712	ISS1:10F1	p32708_1	21/09/2018	p32708_1.cpl	NO
0206	wi01163521	ISS1:10F1	p33226_1	21/09/2018	p33226_1.cpl	NO
0207	wi01104627	ISS1:10F1	p32819_1	21/09/2018	p32819_1.cpl	NO
0208	wi00937672	ISS1:10F1	p31276_1	21/09/2018	p31276_1.cpl	NO
0209	wi01150846	ISS1:10F1	p33157_1	21/09/2018	p33157_1.cpl	NO
0210	wi01057403	ISS1:10F1	p32591_1	21/09/2018	p32591_1.cpl	NO
0211	wi01121374	ISS1:10F1	p31107_1	21/09/2018	p31107_1.cpl	NO
0212	wi01109345	ISS1:10F1	p32830_1	21/09/2018	p32830_1.cpl	NO
0213	wi01070468	iss1:10f1	p32418_1	21/09/2018	p32418_1.cpl	NO
0214	wi01099300	iss1:10f1	p32704_1	21/09/2018	p32704_1.cpl	NO
0215	wi01075355	ISS1:10F1	p32594_1	21/09/2018	p32594_1.cpl	NO
0216	wi01022598	ISS1:10F1	p32066_1	21/09/2018	p32066_1.cpl	NO
0217	wi01068751	ISS1:10F1	p32445_1	21/09/2018	p32445_1.cpl	NO
0218	CS1000-7147	ISS1:10F1	p33616_1	21/09/2018	p33616_1.cpl	NO
0219	wi01126454	ISS1:10F1	p32973_1	21/09/2018	p32973_1.cpl	NO
0220	wi01130348	ISS1:10F1	p33014_1	21/09/2018	p33014_1.cpl	NO
0221	wi01181578	ISS1:10F1	p33321_1	21/09/2018	p33321_1.cpl	NO
0222	wi01052968	ISS1:10F1	p32540_1	21/09/2018	p32540_1.cpl	NO
0223	wi01120705	ISS1:10F1	p32930_1	21/09/2018	p32930_1.cpl	NO
0224	wi01070465	iss1:10f1	p32562_1	21/09/2018	p32562_1.cpl	NO
0225	wi01185138	ISS1:10F1	p33411_1	21/09/2018	p33411_1.cpl	NO
0226	wi01171418	ISS1:10F1	p33278_1	21/09/2018	p33278_1.cpl	NO
0227	wi01078721	ISS1:10F1	p32553_1	21/09/2018	p32553_1.cpl	NO
0228	wi01132204	ISS1:10F1	p32501_1	21/09/2018	p32501_1.cpl	NO
0229	wi01065248	ISS1:10F1	p32412_1	21/09/2018	p32412_1.cpl	NO
0230	CS1000-7081	ISS1:10F1	p33585_1	21/09/2018	p33585_1.cpl	NO
0231	wi01184272	ISS1:10F1	p33336_1	21/09/2018	p33336_1.cpl	NO
0232	wi01165461	ISS1:10F1	p33237_1	21/09/2018	p33237_1.cpl	NO
0233	wi01045058	ISS1:10F1	p32214_1	21/09/2018	p32214_1.cpl	NO
0234	wi01070580	ISS1:10F1	p32380_1	21/09/2018	p32380_1.cpl	NO
0235	wi01104410	ISS1:10F1	p32801_1	21/09/2018	p32801_1.cpl	NO
0236	wi01102093	ISS1:10F1	p32760_1	21/09/2018	p32760_1.cpl	NO
0237	wi01201986	ISS1:10F1	p33433_1	21/09/2018	p33433_1.cpl	NO
0238	wi01175294	ISS1:10F1	p33290_1	21/09/2018	p33290_1.cpl	NO
0239	wi01104867	ISS1:10F1	p32828_1	21/09/2018	p32828_1.cpl	NO
0240	wi01201045	ISS1:10F1	p33424_1	21/09/2018	p33424_1.cpl	YES
0241	wi01082456	ISS1:10F1	p32596_1	21/09/2018	p32596_1.cpl	NO
0242	wi01133960	ISS1:10F1	p33034_1	21/09/2018	p33034_1.cpl	NO
0243	wi01035976	ISS1:10F1	p32173_1	21/09/2018	p32173_1.cpl	NO
0244	wi01008182	ISS1:10F1	p33277_1	21/09/2018	p33277_1.cpl	NO
0245	wi01166065	ISS1:10F1	p33241_1	21/09/2018	p33241_1.cpl	NO
0246	wi01098433	ISS1:10F1	p32736_1	21/09/2018	p32736_1.cpl	NO
0247	wi01088797	ISS1:10F1	p32844_1	21/09/2018	p32844_1.cpl	NO
0248	wi01102475	ISS1:10F1	p32782_1	21/09/2018	p32782_1.cpl	YES
0249	CS1000-7326	ISS1:10F1	p33699_1	21/09/2018	p33699_1.cpl	NO
0250	wi01134354	ISS1:10F1	p33031_1	21/09/2018	p33031_1.cpl	NO
0251	wi01056633	ISS1:10F1	p32322_1	21/09/2018	p32322_1.cpl	NO
0252	CS1000-6794	ISS1:10F1	p33539_1	21/09/2018	p33539_1.cpl	NO
0253	wi01106658	ISS1:10F1	p32812_1	21/09/2018	p32812_1.cpl	NO
0254	wi01068011	ISS1:10F1	p33182_1	21/09/2018	p33182_1.cpl	NO
0255	wi01118928	ISS1:10F1	p32922_1	21/09/2018	p32922_1.cpl	NO
0256	wi01097598	ISS1:10F1	p32797_1	21/09/2018	p32797_1.cpl	NO
0257	wi01187059	ISS1:10F1	p33346_1	21/09/2018	p33346_1.cpl	NO
0258	CS1000-7339	ISS1:10F1	p33708_1	21/09/2018	p33708_1.cpl	NO
0259	wi01181197	ISS1:10F1	p33317_1	21/09/2018	p33317_1.cpl	NO
0260	wi01043367	ISS1:10F1	p32232_1	21/09/2018	p32232_1.cpl	NO
0261	wi01146804	ISS1:10F1	p33132_1	21/09/2018	p33132_1.cpl	NO
0262	wi01088775	ISS1:10F1	p32659_1	21/09/2018	p32659_1.cpl	NO
0263	wi01034961	ISS1:10F1	p32144_1	21/09/2018	p32144_1.cpl	NO

0264	CS1000-6791	ISS1:10F1	p33501_1	21/09/2018	p33501_1.cpl	YES
0265	wi01093118	ISS1:10F1	p32496_1	21/09/2018	p32496_1.cpl	NO
0266	wi01068922	ISS1:10F1	p32454_1	21/09/2018	p32454_1.cpl	NO
0267	wi01214452	ISS1:10F1	p33488_1	21/09/2018	p33488_1.cpl	NO
0268	cs1000-6845	ISS1:10F1	p33509_1	21/09/2018	p33509_1.cpl	NO
0269	wi01132883	ISS1:10F1	p33030_1	21/09/2018	p33030_1.cpl	NO
0270	wi01060241	ISS1:10F1	p32381_1	21/09/2018	p32381_1.cpl	NO
0271	wi01070756	ISS1:10F1	p32444_1	21/09/2018	p32444_1.cpl	NO
0272	wi01065118	ISS1:10F1	p32397_1	21/09/2018	p32397_1.cpl	NO
0273	wi01069441	ISS1:10F1	p32097_1	21/09/2018	p32097_1.cpl	NO
0274	WI01108562	ISS1:10F1	p32832_1	21/09/2018	p32832_1.cpl	NO
0275	wi01212017	ISS1:10F1	p33482_1	21/09/2018	p33482_1.cpl	YES
0276	CS1000-7461	ISS1:10F1	p33736_1	21/09/2018	p33736_1.cpl	NO
0277	CS1000-6752	ISS1:10F1	p33540_1	21/09/2018	p33540_1.cpl	NO
0278	wi01075540	ISS1:10F1	p32492_1	21/09/2018	p32492_1.cpl	NO
0279	wi01096842	ISS1:10F1	p32731_1	21/09/2018	p32731_1.cpl	NO
0280	wi01133985	ISS1:10F1	p33049_1	21/09/2018	p33049_1.cpl	NO
0281	wi01173768	ISS1:10F1	p33288_1	21/09/2018	p33288_1.cpl	NO
0282	CS1000-7293	ISS1:10F1	p33679_1	21/09/2018	p33679_1.cpl	NO
0283	wi01053314	ISS1:10F1	p32555_1	21/09/2018	p32555_1.cpl	NO
0284	wi01099606	iss1:10f1	p32713_1	21/09/2018	p32713_1.cpl	NO
0285	wi01041453	ISS1:10F1	p32587_1	21/09/2018	p32587_1.cpl	NO
0286	wi01094305	ISS1:10F1	p32640_1	21/09/2018	p32640_1.cpl	NO
0287	wi01060382	iss1:10f1	p32623_1	21/09/2018	p32623_1.cpl	YES
0288	wi01142100	ISS1:10F1	p33090_1	21/09/2018	p33090_1.cpl	NO
0289	wi01165870	ISS1:10F1	p33238_1	21/09/2018	p33238_1.cpl	NO
0290	wi01135146	ISS1:10F1	p33033_1	21/09/2018	p33033_1.cpl	NO
0291	wi01178476	ISS1:10F1	p33305_1	21/09/2018	p33305_1.cpl	NO
0292	CS1000-7549	ISS1:10F1	p33767_1	21/09/2018	p33767_1.cpl	YES
0293	wi01124074	ISS1:10F1	p32989_1	21/09/2018	p32989_1.cpl	NO
0294	wi01203516	ISS1:10F1	p33438_1	21/09/2018	p33438_1.cpl	NO
0295	wi01153896	ISS1:10F1	p33185_1	21/09/2018	p33185_1.cpl	NO
0296	CS1000-7337	ISS1:10F1	p33696_1	21/09/2018	p33696_1.cpl	NO
0297	wi01147091	ISS1:10F1	p33137_1	21/09/2018	p33137_1.cpl	NO
0298	wi01111194	ISS1:10F1	p32821_1	21/09/2018	p32821_1.cpl	NO
0299	wi01124477	ISS1:10F1	p32963_1	21/09/2018	p32963_1.cpl	NO
0300	wi01088055	ISS1:10F1	p32607_1	21/09/2018	p32607_1.cpl	NO
0301	wi01134799	ISS1:10F1	p33069_1	21/09/2018	p33069_1.cpl	NO
0302	wi01099292	ISS1:10F1	p32886_1	21/09/2018	p32886_1.cpl	NO
0303	wi01144609	ISS1:10F1	p33119_1	21/09/2018	p33119_1.cpl	NO
0304	wi01096967	ISS1:10F1	p32735_1	21/09/2018	p32735_1.cpl	NO
0305	wi01100508	ISS1:10F1	p32761_1	21/09/2018	p32761_1.cpl	NO
0306	wi01132599	ISS1:10F1	p33025_1	21/09/2018	p33025_1.cpl	NO
0307	cs1000-7223	ISS1:10F1	p33647_1	21/09/2018	p33647_1.cpl	YES
0308	wi01141625	ISS1:10F1	p33324_1	21/09/2018	p33324_1.cpl	NO
0309	wi01127874	ISS1:10F1	p25747_1	21/09/2018	p25747_1.cpl	NO
0310	wi00897254	ISS1:10F1	p31127_1	21/09/2018	p31127_1.cpl	NO
0311	wi01130815	ISS1:10F1	p33017_1	21/09/2018	p33017_1.cpl	NO
0312	wi01071379	ISS1:10F1	p32522_1	21/09/2018	p32522_1.cpl	NO
0313	wi01064599	iss1:10f1	p32580_1	21/09/2018	p32580_1.cpl	NO
0314	wi01185441	ISS1:10F1	p33341_1	21/09/2018	p33341_1.cpl	NO
0315	wi01154485	ISS1:10F1	p33194_1	21/09/2018	p33194_1.cpl	NO
0316	wi01146289	ISS1:10F1	p33146_1	21/09/2018	p33146_1.cpl	NO
0317	wi01053195	ISS1:10F1	p32297_1	21/09/2018	p32297_1.cpl	NO
0318	CS1000-7023	ISS1:10F1	p33526_1	21/09/2018	p33526_1.cpl	NO
0319	wi01053920	ISS1:10F1	p32303_1	21/09/2018	p32303_1.cpl	NO
0320	wi01058378	ISS1:10F1	p32344_1	21/09/2018	p32344_1.cpl	NO
0321	wi01193201	ISS1:10F1	p33381_1	21/09/2018	p33381_1.cpl	YES
0322	CS1000-7248	ISS1:10F1	p32811_1	21/09/2018	p32811_1.cpl	NO
0323	CS1000-7637	ISS1:10F1	p33791_1	21/09/2018	p33791_1.cpl	YES
0324	CS1000-7366	ISS1:10F1	p33702_1	21/09/2018	p33702_1.cpl	NO
0325	CS1000-7143	ISS1:10F1	p33614_1	21/09/2018	p33614_1.cpl	NO
0326	CS1000-7231	ISS1:10F1	p33652_1	21/09/2018	p33652_1.cpl	NO
0327	CS1000-7154	ISS1:10F1	p33619_1	21/09/2018	p33619_1.cpl	NO
0328	CS1000-7448	ISS1:10F1	p33729_1	21/09/2018	p33729_1.cpl	NO
0329	CS1000-6980	ISS1:10F1	p33586_1	21/09/2018	p33586_1.cpl	NO
0330	CS1000-7106	ISS1:10F1	p33598_1	21/09/2018	p33598_1.cpl	NO
0331	CS1000-7052	ISS1:10F1	p33573_1	21/09/2018	p33573_1.cpl	NO

0332	CS1000-7313	ISS1:10F1	p33692_1	21/09/2018	p33692_1.cpl	NO
0333	CS1000-7253	ISS1:10F1	p33662_1	21/09/2018	p33662_1.cpl	NO
0334	CS1000-7101	ISS1:10F1	p33641_1	21/09/2018	p33641_1.cpl	NO
0335	CS1000-7267	ISS1:10F1	p33669_1	21/09/2018	p33669_1.cpl	NO
0336	cs1000-7580	ISS1:10F1	p33776_1	21/09/2018	p33776_1.cpl	NO
0337	CS1000-7171	ISS1:10F1	p33626_1	21/09/2018	p33626_1.cpl	NO
0338	cs1000-7162	ISS1:10F1	p33625_1	21/09/2018	p33625_1.cpl	NO
0339	CS1000-7086	ISS1:10F1	p33587_1	21/09/2018	p33587_1.cpl	NO
0340	CS1000-7286	ISS1:10F1	p33686_1	21/09/2018	p33686_1.cpl	NO
0341	CS1000-7103	ISS1:10F1	p33596_1	21/09/2018	p33596_1.cpl	NO
0342	CS1000-6546	ISS1:10F1	p33597_1	21/09/2018	p33597_1.cpl	NO
0343	CS1000-7453	ISS1:10F1	p33793_1	21/09/2018	p33793_1.cpl	NO
0344	CS1000-7208	ISS1:10F1	p33648_1	21/09/2018	p33648_1.cpl	NO
0345	CS1000-7015	ISS1:10F1	p33606_1	21/09/2018	p33606_1.cpl	NO
0346	cs1000-7217	ISS1:10F1	p33643_1	21/09/2018	p33643_1.cpl	NO
0347	CS1000-7003	ISS1:10F1	p33561_1	21/09/2018	p33561_1.cpl	NO
0348	CS1000-7489	ISS1:10F1	p33747_1	21/09/2018	p33747_1.cpl	NO
0349	CS1000-7296	ISS1:10F1	p33681_1	21/09/2018	p33681_1.cpl	NO
0350	CS1000-7062	ISS1:10F1	p33579_1	21/09/2018	p33579_1.cpl	NO
0351	CS1000-7140	ISS1:10F1	p33624_1	21/09/2018	p33624_1.cpl	NO
0352	CS1000-6712	ISS1:10F1	p33752_1	21/09/2018	p33752_1.cpl	NO
0353	cs1000-7029	ISS1:10F1	p33563_1	21/09/2018	p33563_1.cpl	NO
0354	CS1000-7202	ISS1:10F1	p33646_1	21/09/2018	p33646_1.cpl	NO
0355	CS1000-7323	ISS1:10F1	p33688_1	21/09/2018	p33688_1.cpl	NO
0356	CS1000-7514	ISS1:10F1	p33764_1	21/09/2018	p33764_1.cpl	YES
0357	CS1000-7587	ISS1:10F1	p33779_1	21/09/2018	p33779_1.cpl	NO
0358	CS1000-7236	ISS1:10F1	p33753_1	21/09/2018	p33753_1.cpl	NO
0359	CS1000-7472	ISS1:10F1	p33778_1	21/09/2018	p33778_1.cpl	NO
0360	CS1000-7534	ISS1:10F1	p33759_1	21/09/2018	p33759_1.cpl	NO
0361	CS1000-7462	ISS1:10F1	p33737_1	21/09/2018	p33737_1.cpl	NO
0362	CS1000-7423	ISS1:10F1	p33720_1	21/09/2018	p33720_1.cpl	NO
0363	CS1000-7340	ISS1:10F1	p33694_1	21/09/2018	p33694_1.cpl	NO
0364	CS1000-7469	ISS1:10F1	p33739_1	21/09/2018	p33739_1.cpl	NO
0365	CS1000-7564	ISS1:10F1	p33772_1	21/09/2018	p33772_1.cpl	NO
0366	CS1000-7500	ISS1:10F1	p33754_1	21/09/2018	p33754_1.cpl	YES

MDP>LAST SUCCESSFUL MDP REFRESH :2017-07-04 15:18:22 (Local Time)

MDP>USING DEPLIST ZIP FILE DOWNLOADED :2017-06-30 15:52:25 (est)

## Appendix B

### Avaya Communication Server 1000 Route for SIP Signalling Gateway

```
ld 21
PT1000

REQ: prt
TYPE: rdb
CUST 0
ROUT 6

TYPE RDB
CUST 00
ROUT 6
DES SIP_N510
TKTP TIE
M911P NO
ESN NO
RPA NO
CNVT NO
SAT NO
RCLS EXT
VTRK YES
ZONE 00002
PCID SIP
CRID NO
SBWM NO
NODE 510
DTRK NO
ISDN YES
    MODE ISLD
    DCH 5
    IFC SL1
    PNI 00001
    NCNA YES
    NCRD YES
    TRO YES
    FALT NO
    CTYP UKWN
    INAC YES
    ISAR NO
    DAPC NO
MBXR NO
MBXOT NPA
MBXT 0
PTYP ATT
CNDP UKWN
AUTO NO
DNIS NO
DCDR NO
ICOG IAO
SRCH LIN
TRMB YES
STEP
ACOD 8006
TCPP NO
PII NO
AUXP NO
TARG 01
CLEN 1
BILN NO
OABS
INST
IDC YES
DCNO 0
NDNO 0 *
DEXT NO
DNAM NO
```



ANTK  
 SIGO STD  
 STYP SDAT  
 MFC NO  
 ICIS YES  
 OGIS YES  
  
 PAGE 002  
  
 PTUT 0  
 TIMR ICF 512  
       OGF 512  
       EOD 13952  
       DSI 34944  
       NRD 10112  
       DDL 70  
       ODT 4096  
       RGV 640  
       GTO 896  
       GTI 896  
       SFB 3  
       NBS 2048  
       NBL 4096  
  
       IENB 5  
       TFD 0  
       VSS 0  
       VGD 6  
       EESD 1024  
 SST 5 0  
 DTD NO  
 SCDT NO  
 2 DT NO  
 NEDC ORG  
 FEDC ORG  
 CPDC NO  
 DLTN NO  
 HOLD 02 02 40  
 SEIZ 02 02  
 SVFL 02 02  
 DRNG NO  
 CDR NO  
 NATL YES  
 SSL  
 CFWR NO  
 IDOP NO  
 VRAT NO  
 MUS NO  
 PANS YES  
 RACD NO  
 MANO NO  
 FRL 0 0  
 FRL 1 0  
 FRL 2 0  
 FRL 3 0  
 FRL 4 0  
 FRL 5 0  
 FRL 6 0  
 FRL 7 0  
 OHQ NO  
 OHQT 00  
 CBQ NO  
 AUTH NO  
 TDET NO  
 TTBL 0  
 ATAN NO  
 OHTD NO

```
PLEV 2
OPR NO
ALRM NO
ART 0

PAGE 003

PECL NO
DCTI 0
TIDY 8006 6
ATTR NO
TRRL NO
SGRP 0
CCBA NO
ARDN NO
CTBL 0
AACR NO
```

### **Avaya Communication Server 1000 D-Channel for SIP Signalling Gateway**

```
>ld 22
PT2000

REQ prt
TYPE adan dch 5

ADAN      DCH 5
  CTYP DCIP
  DES Vtrk_SIP_SIPL
  USR ISLD
  ISLM 4000
  SSRC 3700
  OTBF 32
  NASA YES
  IFC SL1
  CNEG 1
  RLS ID 7
  RCAP ND2 TAT
  MBGA NO
  H323
    OVLR NO
    OVLS NO
```

## Avaya Communication Server 1000 Trunk Channel for SIP Signalling Gateway

```
>ld 20

PT0000
REQ: prt
TYPE TNB
TN 100 0 3 0
DES SIP_N510
TN 100 0 03 00 VIRTUAL
TYPE IPTI
CDEN 8D
CUST 0
XTRK VTRK
ZONE 00002
LDOP BOP
TIMP 600
BIMP 600
AUTO_BIMP NO
NMUS NO
TRK ANLG
NCOS 0
RTMB 6 1
CHID 65
TGAR 1
STRI/STRO IMM IMM
SUPN YES
AST NO
IAPG 0
CLS UNR DTN CND ECD WTA LPR APN THFD XREP SPCD MSBT
P10 NTC MID
TKID
AACR NO
```

---

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