



Avaya Solution & Interoperability Test Lab

Application Notes for iNEMSOFT CLASSONE® iCAS with Avaya Meeting Exchange – Issue 1.0

Abstract

These Application Notes contain instructions for iNEMSOFT CLASSONE® iCAS to successfully interoperate with Avaya Meeting Exchange.

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

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

1. Introduction

These Application Notes contain instructions for iNEMSOFT CLASSONE® iCAS to successfully interoperate with Avaya Meeting Exchange.

The CLASSONE® iCAS is a system-of-systems, enabling operators to take control of their communications network and manage multiple transactions from many types of devices.

CLASSONE® iCAS (iCAS) solution enables operators to handle inbound calls, connect with radio dispatch, bridge various radio talk groups and frequencies with each other and with back office voice systems, collaborate and manage field operations regardless of the type of voice-enabled device, while maintaining the highest level of business continuity and interoperability. iCAS as a solution, integrates with several interfaces provided by Avaya products. However, this document only contains instructions for Avaya Meeting Exchange. iCAS uses the Avaya Conferencing Provider Interface (ACPI) to open conferences that allow inbound calls to automatically join open conferences. Application notes related to other interfaces may be obtained via Avaya Support site.

- Application Notes for iNEMSOFT CLASSONE® iCAS IP Radio Gateway with Avaya Aura® Session Manager
- Application Notes for iNEMSOFT CLASSONE® iCAS Dispatch Console with Avaya Aura® Session Manager, Avaya Aura® Communication Manager and Avaya Aura® Application Enablement Services
- Application Notes for iNEMSOFT CLASSONE® Endpoint Manager with Avaya Aura® Communication Manager and Avaya Aura® Application Enablement Services

2. General Test Approach and Test Results

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 this DevConnect Application Note 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 iNEMSOFT did not utilize encryption capabilities.

2.1. Interoperability Compliance Testing

During Interoperability Compliance testing, functional call routing scenarios were tested:

- Heartbeats from iCAS to Meeting Exchange
- Opening and closing conferences
- Participants joining conferences
- Participant property control. i.e. name, allow listen only or talk
- DTMF tone generation and detection
- Direct SIP access from one conference to another on Meeting Exchange

Additionally, survivability tests such as network connectivity loss and restart of iCAS were also performed. Please note that performance testing or load testing were not part of this test effort.

2.2. Test Results

All planned test cases were passed.

2.3. Support

iNEMSOFT CLASSONE® iCAS support can be obtained via following means:

Phone: 214-423-2815
Web: www.inmentsoft.com
Email: rtisupport@inemsoft.com

3. Reference Configuration

Figure 1 illustrates a sample configuration that consists of Avaya Products and iNEMSOFT CLASSONE® iCAS. Though this document only contains instructions for and iNEMSOFT CLASSONE® iCAS Application Server with Avaya Meeting Exchange, the following diagram shows the entire solution that was tested during compliance testing.

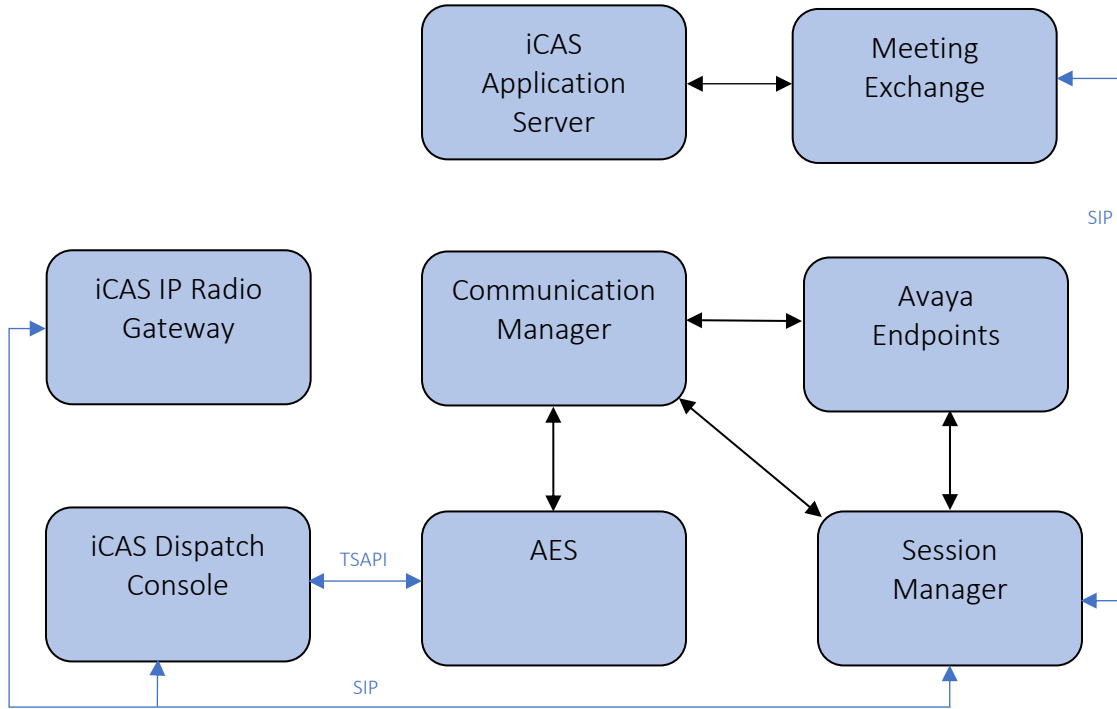


Figure 1: Test Configuration of CLASSONE® iCAS and Avaya Products

4. Equipment and Software Validated

The following equipment and software were used for the sample configuration provided: With the exception of Avaya G450 Gateway, all other Avaya products were deployed on a Virtualization Environment.

Equipment/Software	Release/Version
Avaya Aura® Communication Manager	8.1.0.1.1.890.25517
Avaya G450 Media Gateway	FW 40.19.1
Avaya Aura® Media Server	8.0.1.121
Avaya Aura® Session Manager	8.1.0.0.810007
Avaya Aura® System Manager	8.1.0.0.733078
Avaya Meeting Exchange	6.2 SP7
Avaya 9600 Series IP Deskphones	6.8.2 (H.323) 7.1.6.1 (SIP)
Avaya J100 Series IP Phones	6.8.2 (H.323) 4.0.2.1 (SIP)
iNEMSOFT CLASSONE® iCAS Application Server	4.19

5. Configure Avaya Aura® Session Manager

Though iCAS doesn't directly integrate with Session Manager, a SIP Trunk to Meeting Exchange is required for participants to join conferences. Alternatively, SIP Trunks from Communication Manager can also be used. During Compliance test, following configuration was performed.

This section provides the procedures for configuring Session Manager, assuming it has been installed and licensed. The procedures include the following items:

- Specify SIP Domain
- Add Locations
- Add SIP Entities
- Add Entity Links
- Add Routing Policies
- Add Dial Patterns

Configuration is accomplished by accessing the browser-based GUI of System Manager, using the URL **http://<ip-address>**, where **<ip-address>** is the IP address of System Manager. Log in with the appropriate credentials. The menu shown below is displayed. Select **Elements** → **Routing**.

The screenshot shows the Avaya Aura System Manager 8.1 GUI. The top navigation bar includes 'Users', 'Elements', 'Services', 'Widgets', and 'Shortcuts' menus. A search bar and user profile 'admin' are also visible. The main content area is divided into several widgets:

- System Resource Utilization:** A bar chart showing utilization for various directories: opt, var, emdata, tmp, perfdata, swlibrary, home, and pgsql. The y-axis ranges from 0 to 28. The legend indicates Critical (red), Warning (yellow), Normal (green), and Free (grey).
- Notifications:** Displays 'No data'.
- Application State:** A table with the following data:

License Status	Active
Deployment Type	VMware
Multi-Tenancy	DISABLED
OOBM State	DISABLED
Hardening Mode	Standard
- Alarms:** A table with columns for Severity and Description. The legend indicates Critical (red), Major (orange), Indeterminate (blue), Minor (yellow), and Warning (purple).
- Information:** A table with columns for Elements, Count, and Sync Status.


Elements	Count	Sync Status
AES	1	Green
Avaya Repert	1	Green
- Shortcuts:** A placeholder for dragging shortcuts here.

5.1. Specify SIP Domain

Add the SIP domain for which the communications infrastructure will be authoritative. Select **Domains** on the left and click the **New** button on the right. The following screen will be shown. Fill in the following fields and click **Commit**.

- **Name:** The authoritative domain name (e.g. **avaya.com**)
- **Type** Select **sip**
- **Notes:** Descriptive text (optional)

Domain Management

1 Item 			Filter: Enable
Name	Type	Notes	
* avaya.com	sip		

5.2. Add Locations

Locations can be used to identify logical and/or physical locations where SIP Entities reside, for the purpose of bandwidth management. To add a location, select **Locations** on the left and click on the **New** button on the right. The following screen will be shown. Fill in the following fields:

Under **General**:

- **Name:** A descriptive name
- **Notes:** Descriptive text (optional)

Under **Location Pattern**:

- **IP Address Pattern:** A pattern used to logically identify the location. In these Application Notes, the pattern represented the networks involved, i.e. **10.64.***
- **Notes:** Descriptive text (optional)

Location Details

Commit Cancel

General

* Name:

Notes:

Dial Plan Transparency in Survivable Mode

Enabled:

Listed Directory Number:

Associated CM SIP Entity:

Overall Managed Bandwidth

Managed Bandwidth Units:

Total Bandwidth:

Multimedia Bandwidth:

Audio Calls Can Take Multimedia Bandwidth:

Per-Call Bandwidth Parameters

Maximum Multimedia Bandwidth (Intra-Location): Kbit/Sec

Maximum Multimedia Bandwidth (Inter-Location): Kbit/Sec

* Minimum Multimedia Bandwidth: Kbit/Sec

* Default Audio Bandwidth:

Alarm Threshold


Overall Alarm Threshold: %

Multimedia Alarm Threshold: %

* Latency before Overall Alarm Trigger: Minutes

* Latency before Multimedia Alarm Trigger: Minutes

Location Pattern

<input type="button" value="Add"/>	<input type="button" value="Remove"/>		
1 Item 			
Filter: Enable			
<input type="checkbox"/>	IP Address Pattern	<input type="button" value="v"/>	Notes
<input type="checkbox"/>	* 10.64.*	<input type="text"/>	<input type="text"/>
Select : All, None			

5.3. SIP Entity

Select SIP Entities on the left and click on the **New** button on the right.

Under **General**:

- **Name:** A descriptive name
- **FQDN or IP Address:** IP address of the signaling interface of Meeting Exchange, i.e. **10.64.10.22**
- **Type:** Select **Conferencing**
- **Location:** Select a pre-defined location
- **Time Zone:** Time zone for this entity

Defaults can be used for the remaining fields. The screen below shows the configuration of the Meeting Exchange SIP Entity.

SIP Entity Details

General

* **Name:**

* **FQDN or IP Address:**

Type: ▼

Notes:

Adaptation: ▼

Location: ▼

Time Zone: ▼

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

5.4. SIP Entity Link

Continuing from above, scroll down to the **Entity Links** section. Select **Add** to add an entity link.

- Type in a **Name**
- Select Session Manager SIP Entity for **SIP Entity 1**
- Select **TCP** for **Protocol**
- Select **mx62** for **SIP Entity 2**

Click **Commit** to save the SIP Entity definition.

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"/>	* sm81_mx62_5060_TCP	sm81	TCP	* 5060	mx62	* 5060	trusted

Select : All, None

Similarly, add a SIP Entity and an Entity Links for Communication Manager. The screen capture below shows the Communication SIP Entity and Entity Links.

SIP Entity Details

Commit Cancel

General

* Name:

* FQDN or IP Address:

Type:

Notes:

Adaptation:

Location:

Time Zone:

* SIP Timer B/F (in seconds):

Minimum TLS Version:

Credential name:

Securable:

Call Detail Recording:

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"/>	* sm81_cm81_5061_TLS	<input type="text" value="sm81"/>	TLS <input type="text"/>	* 5061	<input type="text" value="cm81"/>	* 5061	trusted <input type="text"/>

Select : All, None

5.5. Add Routing Policies

Routing policies describe the condition under which calls will be routed to the SIP Entities specified in **Section 5.3**. Two routing policies were added: one for Communication Manager and another for Meeting Exchange. To add a routing policy, select **Routing Policies** on the left and click on the **New** button on the right. The following screen is displayed. Fill in the following fields:

Under **General**:

- Enter a descriptive name in **Name**

Under **SIP Entity as Destination**:

- Click **Select**, and then select the appropriate SIP entity to which this routing policy applies

Defaults can be used for the remaining fields. Click **Commit** to save each Routing Policy definition. The following screen captures shows the Routing Policy for Meeting Exchange.

Routing Policy Details

General

* Name:

Disabled:

* Retries:

Notes:

SIP Entity as Destination

Select			
Name	FQDN or IP Address	Type	Notes
mx62	10.64.10.20	Conferencing	

The following screen shows the Routing Policy for Communication Manager.

Routing Policy Details

General

* Name:

Disabled:

* Retries:

Notes:

SIP Entity as Destination

Select			
Name	FQDN or IP Address	Type	Notes
cm81	10.64.110.213	CM	

5.6. Add Dial Patterns

Dial patterns must be defined that will direct calls to the appropriate SIP Entity. To add a dial pattern, select **Dial Patterns** on the left and click on the **New** button on the right. Following Dial Pattern was added for Meeting Exchange:

Under **General**:

- **Pattern:** Dialed number or prefix, **43**
- **Min:** Minimum length of dialed number, **5**
- **Max:** Maximum length of dialed number, **5**
- **SIP Domain:** Select **-ALL-**

Under **Originating Locations and Routing Policies**, click **Add**, and then select the appropriate location and routing policy from the list. Default values can be used for the remaining fields. Click **Commit** to save the dial pattern. Numbers dialed with a prefix of 43 and were 5 digits long, were routed to Meeting Exchange.

Dial Pattern Details

General

* **Pattern:**

* **Min:**

* **Max:**

Emergency Call:

SIP Domain:

Notes:

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-		mx62	0	<input type="checkbox"/>	mx62	

Select : All, None

Repeat the process to add one or more dial patterns for routing calls to Communication Manager

Under **General**:

- **Pattern:** Dialed number or prefix, **7**
- **Min:** Minimum length of dialed number, **5**
- **Max:** Maximum length of dialed number, **5**
- **SIP Domain:** Select **-ALL-**

Under **Originating Locations and Routing Policies**, click **Add**, and then select the appropriate location and routing policy from the list. Default values can be used for the remaining fields. Click **Commit** to save the dial pattern. Numbers dialed with a prefix of 7 and were 5 digits long, were routed to Communication Manager.

Dial Pattern Details

General

* **Pattern:**

* **Min:**

* **Max:**

Emergency Call:

SIP Domain:

Notes:

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-		cm81	0	<input type="checkbox"/>	cm81	

Select : All, None

6. Configure Avaya Aura® Communication Manager

This section contains steps necessary to configure iNETMSOFT CLASSONE® ICAS successfully with Avaya Aura® Communication Manager.

All configurations in Communication Manager were performed via SAT terminal.

6.1. Administer IP Network Region

Use the **change ip-network-region *n*** command to configure a network region, where *n* is an existing network region.

Configure this network region as follows:

- Set **Location** to **1**
- Set **Codec Set** to **1**
- Set **Intra-region IP-IP Direct Audio** to **yes**
- Set **Inter-region IP-IP Direct Audio** to **yes**
- Enter an **Authoritative Domain**, e.g. avaya.com

```
change ip-network-region 1                                     Page 1 of 20
                                                              IP NETWORK REGION
Region: 1              NR Group: 1
Location: 1           Authoritative Domain: avaya.com
Name:                 Stub Network Region: n
MEDIA PARAMETERS      Intra-region IP-IP Direct Audio: yes
Codec Set: 1          Inter-region IP-IP Direct Audio: yes
UDP Port Min: 2048    IP Audio Hairpinning? n
UDP Port Max: 3329
DIFFSERV/TOS PARAMETERS
Call Control PHB Value: 46
Audio PHB Value: 46
Video PHB Value: 26
```


6.2. Administer IP Codec Set

Use the **change ip-codec-set *n*** command to configure IP codec set, where *n* is an existing codec set number.

Configure this codec set as follows, on **Page 1**:

- Set **Audio Codec 1** to **G.711MU**

```
change ip-codec-set 1 Page 1 of 2

                                IP Codec Set

Codec Set: 1

Audio           Silence   Frames   Packet
Codec           Suppression Per Pkt  Size(ms)
1: G.711MU       n         2        20
2:
3:
4:
5:
6:
7:

Media Encryption
1:
2:
3:
```

6.3. Administer IP Node Names

Use the **change node-names ip** command to add an entry for Session Manager. For compliance testing, **sm81** and **10.64.110.212** entry was added.

```
change node-names ip                                     Page 1 of 2
                                     IP NODE NAMES
Name                               IP Address
aes81                              10.64.110.215
ams81                              10.64.110.214
cms19                              10.64.110.225
default                            0.0.0.0
procr                              10.64.110.213
procr6                             ::
sm81                             10.64.110.212
```

6.4. Administer SIP Signaling Group

Use the **add signaling-group n** command to add a new signaling group, where **n** is an available signaling group number.

Configure this signaling group as follows:

- Set **Group Type** to **sip**
- Set **Transport Method** to **tls**
- Set **Near-end Node Name** to **procr**
- Set **Far-end Node Name** to the configured Session Manager in **Section 6.3**, i.e. **sm81**
- Set **Far-end Network region** to the configured region in **Section 6.1**, i.e. **1**

```
change signaling-group 1                               Page 1 of 2
                                     SIGNALING GROUP
Group Number: 1                                     Group Type: sip
IMS Enabled? n                                     Transport Method: tls
Q-SIP? n
IP Video? n                                         Enforce SIPS URI for SRTP? y
Peer Detection Enabled? y Peer Server: SM           Clustered? n
Prepend '+' to Outgoing Calling/Alerting/Diverting/Connected Public Numbers? y
Remove '+' from Incoming Called/Calling/Alerting/Diverting/Connected Numbers? n
Alert Incoming SIP Crisis Calls? n
Near-end Node Name: procr                           Far-end Node Name: sm81
Near-end Listen Port: 5061                           Far-end Listen Port: 5061
                                                    Far-end Network Region: 1
Far-end Domain:
Incoming Dialog Loopbacks: eliminate                Bypass If IP Threshold Exceeded? n
DTMF over IP: out-of-band                           RFC 3389 Comfort Noise? n
Session Establishment Timer(min): 3                  Direct IP-IP Audio Connections? y
Enable Layer 3 Test? y                               IP Audio Hairpinning? n
H.323 Station Outgoing Direct Media? n              Initial IP-IP Direct Media? n
                                                    Alternate Route Timer(sec): 6
```

Note: Signaling Group, Trunk Group and Route Pattern for simulated PSTN calls for inter-site calls over ISDN/PRI and SIP were pre-configured and are not shown in this document.

6.5. Administer SIP Trunk Group

Use the **add trunk-group *n*** command to add a trunk group, where *n* is an available trunk group number.

Configure this trunk group as follows, on **Page 1**:

- Set **Group Type** to **sip**
- Enter a **Group Name**, e.g. SM Trunk
- Enter a valid **TAC**, e.g. 101
- Set **Service Type** to **tie**
- Enter **Signaling Group** value to the signaling group configured in **Section 6.4**, i.e. 1
- Enter a desired number in **Number of Member** field

```
change trunk-group 1                                     Page 1 of 5
                                     TRUNK GROUP
Group Number: 1                Group Type: sip          CDR Reports: y
  Group Name: SM Trunk          COR: 1                TN: 1          TAC: 101
  Direction: two-way           Outgoing Display? n
  Dial Access? n                Night Service:
  Queue Length: 0
  Service Type: tie             Auth Code? n
                                     Member Assignment Method: auto
                                     Signaling Group: 1
                                     Number of Members: 10
```

On **Page 3**:

- Set **Number Format** to **private**

```
change trunk-group 1                                     Page 3 of 5
TRUNK FEATURES
  ACA Assignment? n           Measured: both
                                     Maintenance Tests? y

  Suppress # Outpulsing? n    Numbering Format: private
                                     UII Treatment: shared
                                     Maximum Size of UII Contents: 128
                                     Replace Restricted Numbers? n
                                     Replace Unavailable Numbers? n
```

6.6. Administer Route Pattern

Use the **change route-pattern *n*** command to configure a route pattern, where *n* is an available route pattern.

Configure this route pattern as follows:

- Type a name in **Pattern Name** field
- For line 1, set **Grp No** to the trunk group configured in **Section 6.5**, i.e. 1
- For line 1, set **FRL** to 0

```
change route-pattern 1                               Page 1 of 4
      Pattern Number: 1      Pattern Name: SM
  SCCAN? n      Secure SIP? n      Used for SIP stations? n

  Grp FRL NPA Pfx Hop Toll No.  Inserted      DCS/ IXC
  No      Mrk Lmt List Del  Digits      QSIG
                                         Intw
1: 1      0
2:
```

6.7. Administer Private Numbering

Use the **change private-numbering 0** command to define the calling party number to send to Session Manager.

Configure private numbering as follows:

- Add entries for trunk group configured in **Section 6.5**

Note: For compliance testing, 5-digit extensions beginning with 7 routed over trunk groups 1 resulted in a 5-digit calling party number.

```
change private-numbering 0                           Page 1 of 2
      NUMBERING - PRIVATE FORMAT

  Ext Ext      Trk      Private      Total
  Len Code      Grp(s)      Prefix      Len
  5 7          1
  5 Total Administered: 1
      Maximum Entries: 540
```

6.8. Configure AAR Analysis

Use **change aar analysis *n*** command to add an entry in aar table, where *n* is an extension number that will be used to route calls to Meeting Exchange.

```
change aar analysis 43                                     Page 1 of 2
                                     AAR DIGIT ANALYSIS TABLE
                                     Location: all          Percent Full: 0
```

Dialled String	Total		Route	Call	Node	ANI
	Min	Max	Pattern	Type	Num	Reqd
43	5	5	1	aar		n

6.9. Configure Vectors

Use **change vector *n*** to configure a Vector, where *n* is an available Vector number.

```
change vector 101                                         Page 1 of 6
                                     CALL VECTOR
```

Number: 101	Name: ClassOne				
Multimedia? n	Attendant Vectoring? n	Meet-me Conf? n	Lock? n		
Basic? y	EAS? y	G3V4 Enhanced? y	ANI/II-Digits? y	ASAI Routing? y	
Prompting? y	LAI? y	G3V4 Adv Route? y	CINFO? y	BSR? y	Holidays? y
Variables? y	3.0 Enhanced? y				
01 wait-time	2 secs hearing ringback				
02 route-to	number 43001			cov n if unconditionally	
03 wait-time	30 secs hearing ringback				

6.10. Configure VDN

Use **add vdn *n*** to add a vdn, where *n* is an available vdn extension. On Page 1:

- In the **Name** field, enter a descriptive name
- In the **Destination** field, set **Vector Number** to the vector configured earlier in this document (**Section 6.9**). i.e., Vector Number 101.

```
change vdn 73999                                     Page 1 of 3
              VECTOR DIRECTORY NUMBER
              Extension: 73999                        Unicode Name? n
              Name*: ClassOne VDN
              Destination: Vector Number           101
Attendant Vectoring? n
Meet-me Conferencing? n
  Allow VDN Override? n
              COR: 1
              TN*: 1
              Measured: none      Report Adjunct Calls as ACD*? n

VDN of Origin Annc. Extension*:
                    1st Skill*:
                    2nd Skill*:
                    3rd Skill*:

SIP URI:
```

7. Configure Avaya Meeting Exchange

This section contains steps necessary to configure iNEMSOFT CLASSONE® iCAS successfully with Meeting Exchange.

7.1. Create login users for Avaya Meeting Exchange

Log in to Meeting Exchange via SSH client using appropriate credentials as a super user. Type in **dm** to launch the **System Maintenance Main Menu** window

```
mx62.avaya.com -- station 257
      Avaya, Inc.                Audio Conferencing System
P/N: S0700500 Revision: 01      Copyright 2007 Avaya, Inc.

lqq System Maintenance Main Menu qqk
x                                     x
x      Network Configuration         x
x      FAPI Configuration            x
x      LAN Configuration             x
x      Administrator Menu            x
x      Re-Initialization             x
x      System Shutdown               x
x      Transmission Level            x
x      EXIT                          x
mqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqj
```

Navigate to **Administrator Menu** → **Sign-In Management** → **Create Operator Sign-In**. Create login user by typing in **Sign-In Name** and **Password**, followed by ‘ESC’, then **Y** to save. e.g, userID=rtisvr1 and password=rti (the user type can be either ‘administrator’ or ‘operator’ type)

```
mx-bridge -- station 257
      Avaya, Inc.                Audio Conferencing System
P/N: S0700500 Revision: 01      Copyright 2007 Avaya, Inc.

lqqqqqqqqqqqqqqqqqqqqCreate Operator Sign-Inqqqqqqqqqqqqqqqqqqqqk
x                                     x
x Sign-In Name      : rtisvr1         x
x Password          : rti             x
x Telephone Number:                   x
mqqqqqqqqqqqqqqqqqqqqqqq ESC to Exit qqqqqqqqqqqqqqqqqqqqqqqj
```


7.3. Schedule a heartbeat conference for each CLASSONE® CFBrsrv instance via Avaya Bridge Talk

Configuration for Meeting Exchange conferences is performed via Avaya Bridge Talk, which is installed on a Windows PC.

1. Start Avaya Bridge Talk
2. Open 'Conference Scheduler' window by:
View menu → Conference Scheduler
3. Open Schedule Conference window by:
Conference Scheduler's **File** menu → **Schedule Conference...**
4. Fill in data in 'Schedule Conference', refer following screen shot as an example
NOTE:
 - *'Conferee Code' field uses the following naming rule*
 - *Prefix 800*
 - *(The digit immediate before the last digit) 1 for group A and 2 for group B*
 - *(The last digit) 2 represent the server# ('2' represents server 2 or server 12)*
 - *'Name' and 'Conference Name' fields may be the same. It should indicate the corresponding Meeting Exchange, the failover group and the embedding server. An example is CFBrs8034BS01*
 - *'Confirmation No' field must be unique. If error pops up, increase this number*

Change Conference [Maintenance Access]- Conferenc1 of 1

Conference Information

Status: **ENABLED** Mode: **UNATTENDED** Conference Type: **DAILY**

Confirmation No.: **23** Conference ID: Weekend: **YES**

Name: **CFBr8034BS01** Billing Code Prompt: **DISABLED**

Telephone: Accounting Code: **OFF** Start Date (mm/dd/yyyy): **3/16/2010**

Sign-in Name: **rtim** Security Passcode: **OFF** End Date (mm/dd/yyyy): **3/16/2030**

Res Group: **0** Change Conf Opt: **ON**

Conferee Code: **80021** Op Help Available: **ON** Name Record/Play: **OFF**

Moderator Code: Block Dialout: **OFF** NRP Annunciator:

Conference Name: **CFBr8034BS01** PIN Mode: **OFF**

PIN List:

Conference Features

Start Time: **12:00** **AM** End Time: **12:00** **AM** Code Duration: **0**

Entry Tone: **OFF** Exit Tone: **OFF** Maximum Lines: **2**

Hang up: **OFF** Music: **OFF** Security: **OFF**

Auto Extend Duration: **ON** Auto Extend Ports: **ON**

Prompt Set: **English** Conference Viewer: **NO**

7.4. Schedule a conference on Avaya Bridge Talk for each radio VDN that is registered in CM

CLASSONE® iCAS requires every radio VDN defined in Communication Manager and its Conference Code defined on every Bridge to be identical.

1. Start Avaya Bridge Talk
2. Open **Conference Scheduler** window by:
View menu → **Conference Scheduler**
3. Open **Schedule Conference** window by:
Conference Scheduler's **File** menu → **Schedule Conference...**
4. Fill in data in **Schedule Conference**, refer following screen shot as an example
NOTE:
 - *'Name', 'Conference Name' and 'Conferee Code' fields may all use radio's VDN.*
 - *'Maximum Line' field is set up according to business requirement. In iNETMSOFT lab, we set it to 20. (The maximum line should be set to auto-expandable normally on the MX)*
 - *'Confirmation No' field must be unique. If error pups up, increase this number.*
 - *Moderator Code must be unique*
 - *set 'DTMF Pass Through' and 'DTMF Regeneration' to 'System' (if not visible, set as following, for Bridge Talk 5.2 or later)*

Change Conference [Maintenance Access]- Conference1 of 1

Conference Information

Status: Mode: Conference Type:

Confirmation No.: Conference ID: Weekend:

Name: Billing Code Prompt:

Telephone: Accounting Code: Start Date (mm/dd/yyyy):

Sign-in Name: Security Passcode: End Date (mm/dd/yyyy):

Res Group: Change Conf Opt:

Conferee Code: Op Help Available: Name Record/Play:

Moderator Code: Block Dialout: NRP Annunciator:

Conference Name: PIN Mode:

PIN List:

Conference Features

Start Time: End Time: Code Duration:

Entry Tone: Exit Tone: Maximum Lines:

Hang up: Music: Security:

Auto Extend Duration: Auto Extend Ports:

Prompt Set: Conference Viewer:

DTMF Pass Through: **DTMF Regeneration:**

Right click **Avaya Bridge Talk** shortcut, select **Properties** then select **Find Target** to get into the directory where **Avaya Bridge Talk.exe** installed, edit the template.xml file, change:

<Property value="false" type="Boolean" name="EnableDTMFPassThrough" hidden="false" />

to

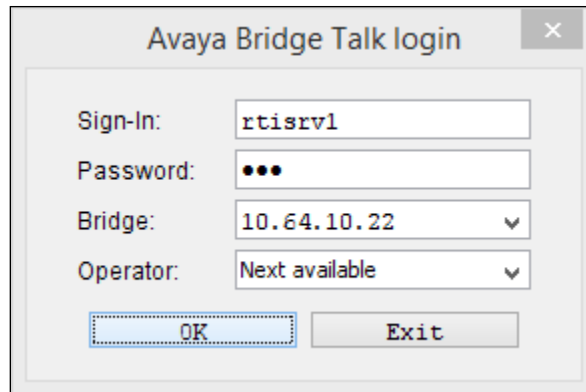
<Property value="true" type="Boolean" name="EnableDTMFPassThrough" hidden="false" />

8. Configure iNEMSOFT CLASSONE® iCAS

Configuration of iNEMSOFT CLASSONE® iCAS is done by designated iNEMSOFT engineers. Hence, no configuration is provided in this document.

9. Verification Steps

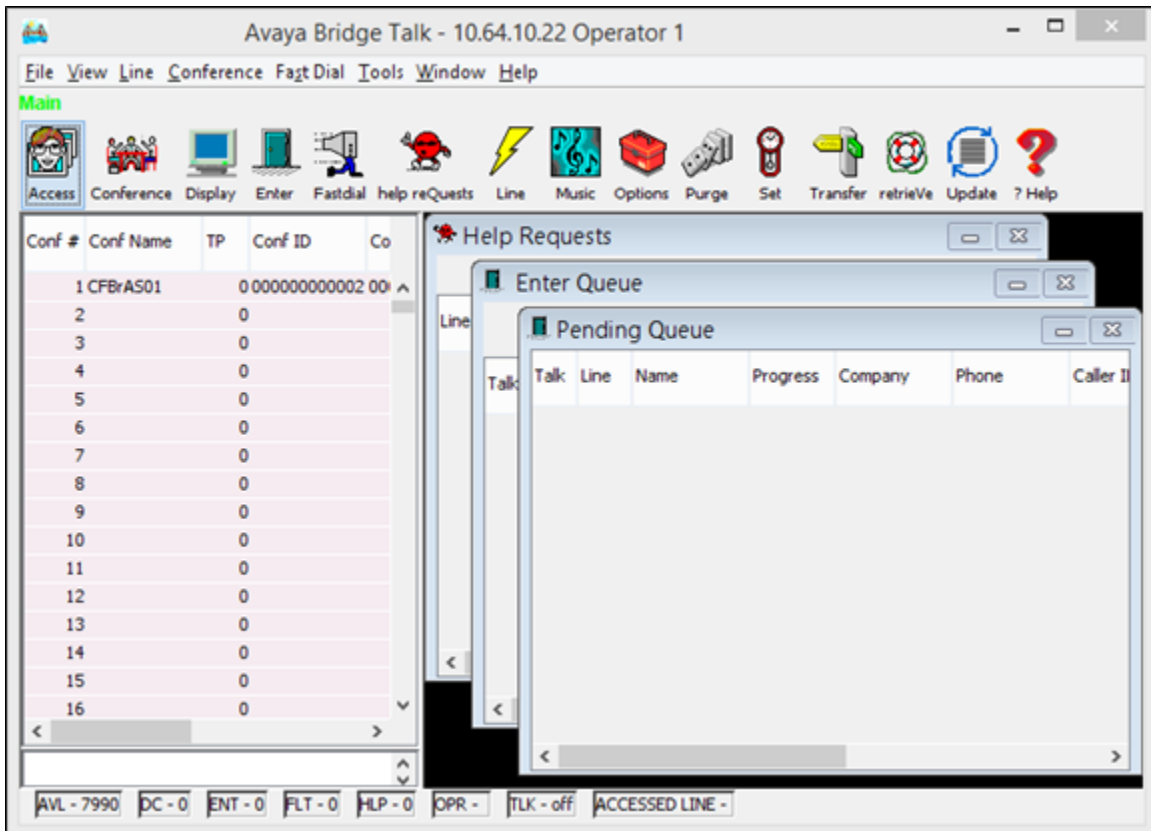
Verify the newly created user from **Section 7.1** by login them via Avaya Bridge Talk.



The image shows a dialog box titled "Avaya Bridge Talk login". It contains the following fields and controls:

- Sign-In:
- Password:
- Bridge: (dropdown arrow)
- Operator: (dropdown arrow)
- Buttons: "OK" and "Exit"

If login was created successfully, user will be able to log in successfully.



The image shows the main interface of Avaya Bridge Talk. The title bar reads "Avaya Bridge Talk - 10.64.10.22 Operator 1". The menu bar includes "File", "View", "Line", "Conference", "FastDial", "Tools", "Window", and "Help". The main area features a toolbar with icons for "Access", "Conference", "Display", "Enter", "Fastdial", "help reQuests", "Line", "Music", "Options", "Purge", "Set", "Transfer", "retrieve", "Update", and "? Help". Below the toolbar is a table with the following columns: "Conf #", "Conf Name", "TP", "Conf ID", and "Co". The table contains 16 rows of data, with the first row being "1 CFBrA501 0 000000000002 00". To the right of the table is a "Help Requests" window, which is open to the "Enter Queue" screen. Below the "Enter Queue" window is a "Pending Queue" window, which is open to a table with the following columns: "Talk", "Line", "Name", "Progress", "Company", "Phone", and "Caller ID". The bottom status bar shows "AVL - 7990 DC - 0 ENT - 0 FLT - 0 HLP - 0 DPR - TLK - off ACCESSED LINE -".

10. Conclusion

iNEMSOFT CLASSONE® iCAS was able to successfully interoperate with Avaya Meeting Exchange. All executed test cases were passed.

11. Additional References

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

[1] Administering Avaya Aura® Communication Manager, Release 8.1.x, Issue 4, November 2019.

[2] Administering Avaya Aura® Application Enablement Services, Release 8.1.x, Issue 3, October 2019

[3] Administering Avaya Aura® Session Manager, Release 8.1.1, Issue 2, October 2019

[4] Implementing Avaya™ Meeting Exchange, Release 6.2, 04-604003, Issue 1, November 2012

Documentation related to iNEMSOFT CLASSONE® iCAS can be directly obtained from iNEMSOFT.

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