



Avaya Solution & Interoperability Test Lab

Application Notes for configuring Ascom Myco V9.3 with Avaya Communication Server 1000 Release 7.6 – Issue 1.0

Abstract

These Application Notes describe a solution comprised of Ascom's Myco smart device to interoperate with Avaya Communication Server 1000. During the compliance testing, the Ascom Myco registered as a SIP endpoint with Communication Server 1000 SIP Line Gateway. The compliance testing focused on basic telephone features.

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 provide detail configurations of Avaya Communication Server 1000 R7.6 (CS1000) and the Ascom Myco smart device V9.3 (Ascom Myco) used during the compliance testing. Myco registered with the SIP Line Gateway (SLG) application on the Avaya Communication Server 1000.

Note: Ascom Myco may be referred to as Myco, Myco handset, Myco smartphone or Myco smart device throughout this document. These names all refer to the same product, a smart phone that is connected to the CS1000 by registering with the SIP Line Gateway on the CS1000 as a third-party SIP extension.

Ascom Myco is a purpose-built smartphone for healthcare, providing caregivers and clinicians with the information they need..

Ascom works actively along with partners, leading application developers, mobile network operators, WLAN infrastructure suppliers, and PBX vendors such as Avaya, to perform verification testing and certify that these products/solutions interoperate harmoniously, as one seamless system.

2. General Test Approach and Test Results

The general test approach was to allow the Ascom Myco to register to the CS1000. Calls were then placed from other CS1000 endpoints to and from the Myco. Other telephony features such as busy, hold, transfer, conference, call forward, DTMF, codec negotiation, message waiting indication and hunt groups were also verified.

Note: The Ascom Myco smart device can be set up to use Wi-Fi, GSM or both. For compliance testing only Wi-Fi was used and a wireless router was used to provide a network connection. This wireless router was considered a part of the member's overall solution.

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's formal testing and Declaration of Conformity is provided only on the headsets/handsets that carry the Avaya brand or logo. Avaya may conduct testing of non-Avaya headset/handset to determine interoperability with Avaya phones. However, Avaya does not conduct the testing of non-Avaya headsets/handsets for: Acoustic Pressure, Safety, Hearing Aid Compliance, EMC regulations, or any other tests to ensure conformity with safety, audio quality, long-term reliability or any regulation requirements. As a result, Avaya makes no representations whether a

particular non-Avaya headset will work with Avaya's telephones or with a different generation of the same Avaya telephone.

Since there is no industry standard for handset interfaces, different manufacturers utilize different handset/headset interfaces with their telephones. Therefore, any claim made by a headset vendor that its product is compatible with Avaya telephones does not equate to a guarantee that the headset will provide adequate safety protection or audio quality.

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 Ascom Myco did not include use of any specific encryption features as requested by Ascom.

Note: Compliance testing was carried out using TCP as the transport for signaling, a selection of basic calls and transfer calls were carried out using UDP.

2.1. Interoperability Compliance Testing

The focus of this testing was to verify that the Myco was able to interoperate with the CS1000. The following areas were tested:

- Registration of the Myco to the CS1000.
- Call establishment of Myco with CS1000 deskphones.
- Telephony features tested included:
 - Basic Calls
 - 3 Party Conference Calls
 - Blind and Supervised Transfer
 - DTMF transmission
 - Busy, hold, call waiting, call park/pickup
 - Call forward on Busy, No Answer and All Calls
 - Hunt groups
- PSTN calls over simulated SIP trunk.
- Codec negotiation (G711 A-Law, G711 MU-Law, G729 and G722).
- Leaving and Retrieving Voicemail messages.
- Message Waiting Indication.
- Serviceability testing.

Note: Serviceability testing included removing the LAN cable and plugging it back in from the Wireless Router and the SIP Line Gateway, as well as rebooting the phones and ensuring that MWI remains consistent throughout.

2.2. Test Results

Tests were performed to verify interoperability between Ascom Myco and Avaya CS1000 handsets. The tests were all functional in nature and performance testing was not included. All test cases passed successfully but there were some minor issues surrounding the display on the endpoints found and these are described below.

The following observations were made during compliance testing.

- Call decline does not work as per design intent of SLG as explained in SLG fundamentals; in the section IP-Phone based Call Decline (refer to **Section 10**).
- When Ascom Myco transfers a call (blind or supervised), the call transfers correctly but the Myco sets call back to the incorrect number. The Call List shows the correct A-party number however the Myco calls to the B-party phone instead. This behavior relates to the information sent to the handset in the first INVITE.

The following issues were found during compliance testing:

1. If a “Name” (in LD 95) is set on the Myco handset then the A party name does not get updated correctly when doing either a Supervised or Blind Transfer. Note the correct number is shown but not the correct name. This happens for the Avaya SIP extensions in the same way. SETA calls SETB and SETB transfers SETA to SETC. After the transfer is complete SETC shows the CLID of SETA (which is correct), SETA shows the name of SETB (which is incorrect). Only occurs when transferring to Avaya endpoints. Avaya are investigating this issue.
2. When an Ascom set is forwarded “all” or “busy” to an internal number and then called to from another Ascom set the CLID on the calling number is in format %22CFWD% or %22Busy%22. This behaves according to RFC’s 3261, 3325. Avaya are investigating this issue.
3. When an Ascom set is forwarded “no answer” to an internal number and then called to from another Ascom set A the CLID/name on Set A is not updated correctly. A calls to B (B is FNA to C). The CLID on C shows A is calling but the CLID on A shows that it is calling B but it is actually connected to C. This is the same for the CS1000 SIP sets but not for UNIStim sets which displays both numbers and the fact that the call was forwarded. Avaya are investigating this issue.

2.3. Support

Technical support for the Ascom Myco product can be obtained through a local Ascom supplier. Ascom global technical support:

- Email: support@ascom.com or Helpdesk: +46 31 559450

3. Reference Configuration

Figure 1 illustrates the test configuration used during the compliance testing between the Avaya CS1000 and the Ascom Myco system. The CS1000 runs on the Call Processor Pentium Mobile (CPPM) server in a co-resident configuration. The SIP Line Gateway (SLG) application on the signaling server co-resides as on the CPPM. Unified Communication Manager (UCM) is used to configure the SLG. A number of Avaya deskphones were configured. The Wireless Router was connected to the same IP Network as the CS1000. A simulated PSTN was configured to enable incoming and outgoing trunk calls. Avaya Callpilot provided voicemail.

Note: The configuration of the wireless router is outside the scope of these Application Notes.

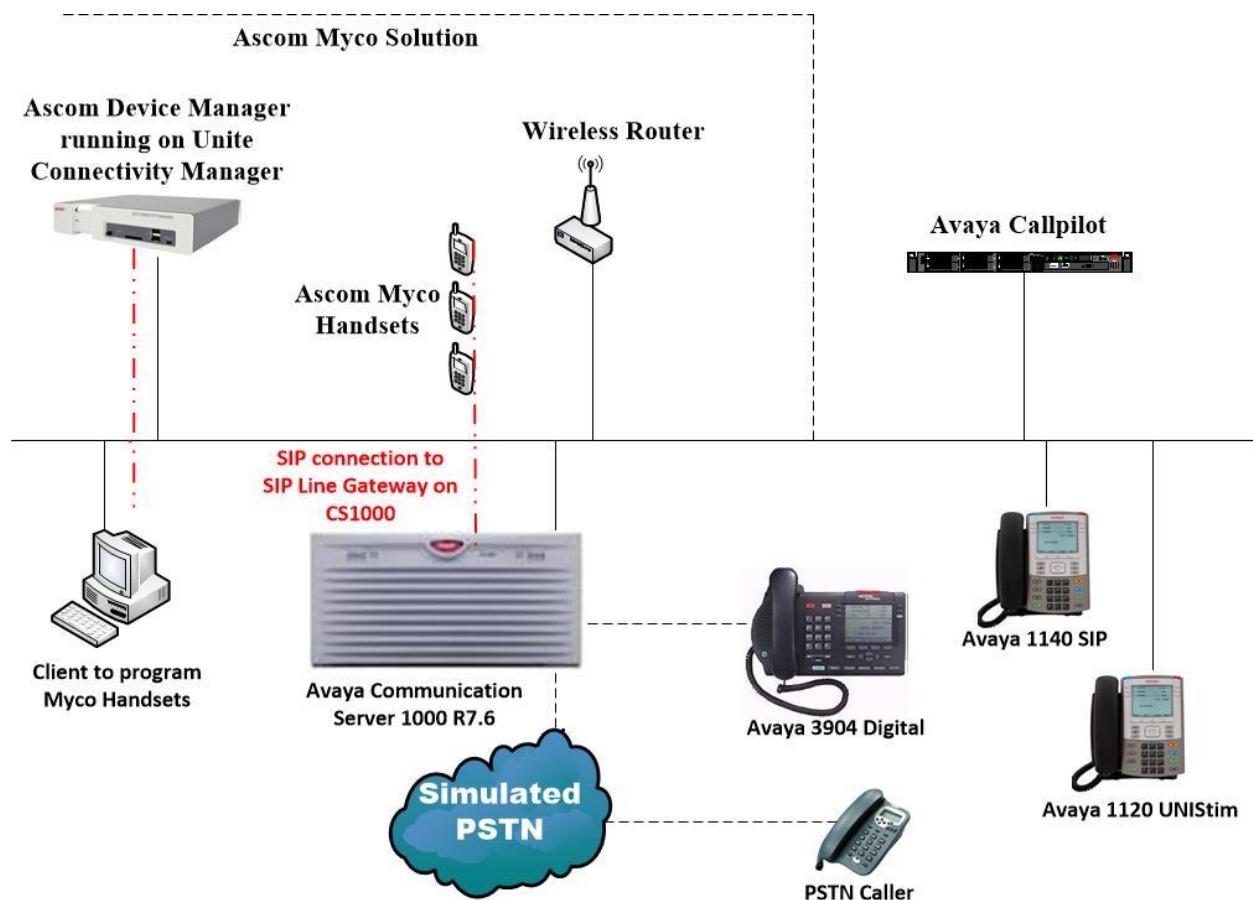


Figure 1: Connection of Ascom Myco with Avaya Communication Server 1000 R7.6

4. Equipment and Software Validated

The following equipment and software was used during the lab testing:

| Equipment/Software | Release/Version |
|--|--|
| Avaya Communication Server 1000 running on a Call Processor Pentium Mobile (CPPM) | R7.6 Version 7.65 P (SP9) |
| SIP Line Gateway (SLG) | 7.65.16 |
| Avaya Callpilot | R5.00.41.110 CP50041SU08S CP500S08G09C |
| Avaya 3904 Digital Deskphone Avaya 1140E Deskphone (UNIStim) Avaya 1140E Deskphone (SIP) | 0625C8Q 04.04.28.00 |
| Ascom Myco Smart Device | Myco 1 & 2, v9.3 (SIP App v2.1) |
| Ascom Device Manager running on Ascom UniteCM | Unite DM/CM v5.8.1 |
| Laptop to access Ascom Device Manager and Avaya UCM | Windows 7 Professional SP2 |

5. Configure Avaya Communication Server 1000

The configuration operations illustrated in this section were performed using terminal access to the CS1000 over an SSH session using PuTTY. It is implied that a working system is already in place, including a Node and D-Channel. For all other provisioning information such as Installation and Configuration, please refer to the product documentation in **Section 10**.

Appendix A has a list of all CS1000 patches, deplist and service packs loaded on the system.

Note: A full printout of the D-Channel and Route information for the SIP Line Gateway used for the compliance testing is included in the **Appendix B** of these Application Notes.

Note: Only the required prompts are shown in the screen captures below, all other inputs can be left at default by pressing enter/return.

5.1. Verify Licenses

To ensure the CS1000 is licensed for SIP, use **LD 22** and type **SLT** at the **REQ** prompt. Check for **THIRD PARTY SIP LINES**.

| | | | | |
|-------------------------------------|-------|------|-------|-----------------|
| ld 22 | | | | |
| PT2000 | | | | |
| REQ slt | | | | |
| System type is - CS1000E/CPHM Linux | | | | |
| CPHM - Pentium M 1.4 GHz | | | | |
| IPMGs Registered: | 1 | | | |
| IPMGs Unregistered: | 0 | | | |
| IPMGs Configured/unregistered: | 0 | | | |
| TRADITIONAL TELEPHONES | 32767 | LEFT | 32765 | USED 2 |
| DECT USERS | 32767 | LEFT | 32767 | USED 0 |
| IP USERS | 32767 | LEFT | 32683 | USED 84 |
| BASIC IP USERS | 32767 | LEFT | 32764 | USED 3 |
| TEMPORARY IP USERS | 32767 | LEFT | 32766 | USED 1 |
| 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 | 32718 | USED 49 |
| SIP CONVERGED DESKTOPS | 32767 | LEFT | 32767 | USED 0 |
| SIP CTI TR87 | 32767 | LEFT | 32735 | USED 32 |
| SIP ACCESS PORTS | 32767 | LEFT | 32703 | USED 64 |
| RAN CON | 32767 | LEFT | 32767 | USED 0 |
| MUS CON | 32767 | LEFT | 32765 | USED 2 ACTIVE 0 |
| | | | | |
| IP RAN CON | 16384 | LEFT | 16384 | USED 0 |
| IP MUS CON | 16896 | LEFT | 16896 | USED 0 ACTIVE 0 |
| IP MEDIA SESSIONS | 35842 | LEFT | 35842 | USED 0 ACTIVE 0 |

5.2. Configuring Data block: SLS (SIP Line Services)

If not already configured, a SLS Data block needs to be created using the **CHG** command in **LD15**. The **UAPR** is required when configuring the UEXT for the Myco. Screen below shows an already configured SLS Data block using the print command in **LD 21**.

```
>ld 21
PT1000
REQ: prt
TYPE: sls
TYPE SLS_DATA
CUST 0
TYPE SLS DATA
CUST 00
SIPL_ON YES
UAPR 27
NMME YES
```

5.3. Adding a Third-Party SIP User on the Avaya CS1000

Myco users are configured as **3rd Party SIP** users with type **UEXT** on the CS1000. Type **LD 20** at the > prompt to enter overlay 20. The main prompts below are highlighted. The example below shows the UEXT for Myco **4011**.

```
ld 20
PT0000
REQ: prt
TYPE: tn
TYPE TNB
TN 100 0 2 11
DATE
PAGE
DES
DES MYCO
TN 100 0 02 11
TYPE UEXT
CDEN 8D
CTYP XDLC
CUST 0
UXTY SIPL      (SIP Line)
MCCL YES
SIPN 0
SIP3 1          (Third Party SIP phones)
FMCL 0
TLSV 0
SIPU 4011      (Required for Ascom Myco Endpoint ID in Section 7)
NDID 111        (Node ID taken from Section 6)
SUPR NO
UXID
NUID
NHTN
CFG_ZONE 00001 (This is the Bandwidth Zone assigned for IP Sets)
CUR_ZONE 00001
MRT
ERL
```

```

ECL 0
VSIT NO
FDN 7000          (This is the voicemail number for Callpilot)
TGAR 1
LDN NO
NCOS 0
SGRP 0
RNPG 1
SCI 0
SSU
XLST
SCPW 1234          (Required for Ascom Myco Password in Section 7)
SFLT NO
CAC_MFC 0
CLS UNR FBD WTA LPR PUA MTD FNA HTD TDD HFD CRPD
MWA LMPN RMMD SMWD AAD IMD XHD IRD NID OLD VCE DRG1
POD SLKD CCSD SWD LND CNDD
CFTD SFD MRD DDV CNID CDCA MSID DAPA BFED RCBD
ICDD CDMD LLCN MCTD CLBD AUTU
GPUD DPUD DNDD CFXD ARHD FITD CLTD ASCD
CPFA CPTA ABDD CFHD FICD NAID DNAA RDIA BUZZ AGRD MOAD
UDI RCC HBTD AHA IPND DDGA NAMA MIND PRSD NRWD NRCD NROD
DRDD EXR0
USMD USRD ULAD CCBD RTDD RBDD RBHD PGND OCBD FLXD FTTU DNDY DNO3 MCBN
FDSD NOVD VOLA VOUD CDMR PRED RECD MCDD T87D SBMD ELM
MSNV FRA PKCH MWTD DVLD CROD ELCD VMSACPND LANG ENG
(Requierd for Message Waiting Allowed, Pickup Allowed, Forward no answer allowed,
Trunk to Trunk transfer allowed. There may be other settings required depending
on the situation.)
HUNT
LHK 0
PLEV 02
PUID
UPWD
DANI NO
AST
IAPG 0
AACS NO
ITNA NO
DGRP
MLWU_LANG 0
MLNG ENG
DNDR 0
KEY 00 SCR 4011
CPND
    CPND_LANG ROMAN
        NAME Myco
        XPLN 23
        DISPLAY_FMT FIRST, LAST
01 HOT U 274011          (The HOT U number is derived from the UAPR as
                           configured in the SLS_DATA in Section 5.2 plus the
                           Key 00 extension)
02 CWT                  (Required for Call Waiting)
03

The other keys can be left as default, carriage return to the end.

```

5.4. Flexible Feature Codes

Feature Codes can be programmed on the Myco Smartphones for features such as Call Forward or Call Pickup, basically any feature that is available using the Flexible Feature Codes on the CS1000. Flexible Feature Codes can be set in overlay 57, type **LD 57** to enter this overlay as shown below; some of the codes set below include the following:

- Call Forward calls (**CFWA**) ***1**
- Deactivate Call Forward (**CFWD**) **#1**
- Call Park (**CPRK**) ***21**
- Answer Call Park (**CPAC**)***20**
- Hunt Group Pilot DN (**PLDN**) **3050**
- Hold **#4**
- Call Pickup (**PURN**) ***25**

```
>ld 57
FFC000
MEM AVAIL: (U/P): 37456053      USED U P: 8460606 138762      TOT: 46055421
DISK SPACE NEEDED: 133 KBYTES
REQ  prt
TYPE ffc
CUST 0
CODE all

CUST 00
FFCT YES
ASRC
AUTH *99
CDRC
CFWA *1
CFWD #1
CFWV
COND
CPAC *20
CPRK *21
CSHF
ELKD
PLDN 3050
USE GPHT
LSNO 10
HTYP RRB
CFWI YES
MQUE ALL
GRPF
HOLD #4
PURN *25
```

5.5. Saving Avaya Communication Server 1000 Configuration

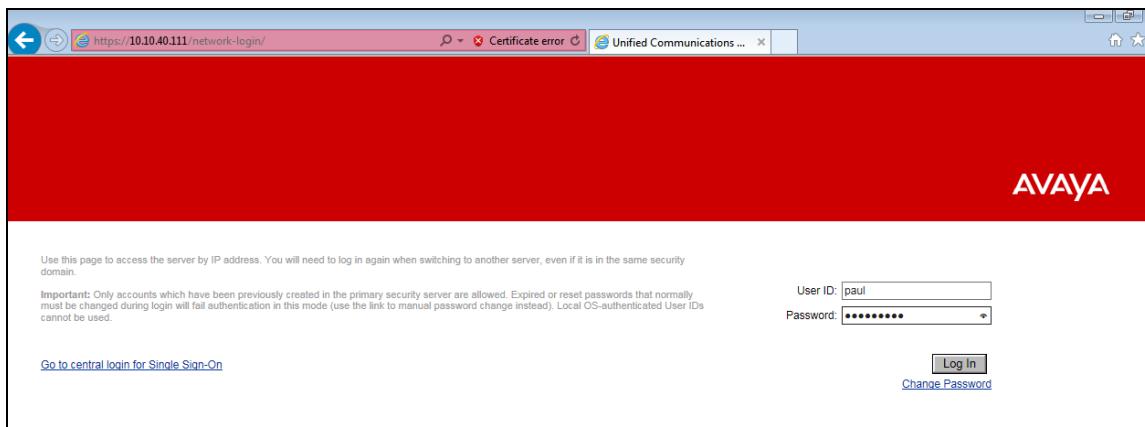
Type **LD 43** at the > prompt to save the newly configured SIP users. Upon entering overlay 43 type **edd** at the . prompt.

```
>ld 43
EDD000
.edd
```

6. Configure Avaya Communication Server 1000 SIP Line Gateway

Although it is assumed that a SIP Line Gateway is already setup, configured and operational it is also essential that this is checked and that the Node IP address and the SIP port number are obtained in order to complete the configuration in **Section 5.3** and **Section 7**. Note that the SIP Line Gateway is an application installed on the Avaya CS1000 Signalling Server. In this example, this Signalling Server is a co-resident installation with CS1000 Call Server.

Access to the CS1000 SIP Line Gateway requires access to the Avaya CS1000 Signalling Server (Signalling Server). This is achieved by logging into System Manager or Unified Communication Manager (UCM) using a Web Browser by entering **http://<IP Address>/**, which is the IP address of System Manager or UCM. During compliance testing UCM was used.



In order to access the CS1000 Element Manager open and log into Unified Communication Manager (shown above) once opened the EM can be accessed as shown below.

| Element Name | Element Type | Release | Address | Description |
|--|--------------------------|---------|----------------|------------------|
| 1 <input type="checkbox"/> EM on cs1kpg1 | CS1000 | 7.6 | 192.168.40.101 | New element. |
| 2 <input type="checkbox"/> cs1kpg1.dev.connect.local (primary) | Linux Base | 7.6 | 10.10.40.101 | Base OS element. |
| 3 <input type="checkbox"/> 192.168.40.102 | Media Gateway Controller | 7.6 | 192.168.40.102 | New element. |
| 4 <input type="checkbox"/> NRSM on cs1kpg1 | Network Routing Service | 7.6 | 192.168.40.101 | New element. |

Navigate to **System → IP Network → Nodes: Servers, Media Cards** in the left window and select the Node associated with the CS1000, in the example below this **Node ID** is **111**. Open this node by clicking on **111** highlighted below.

AVAYA CS1000 Element Manager

Managing: 192.168.40.101 Username: paul
System » IP Network » IP Telephony Nodes

IP Telephone 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 | | | |
| <input type="checkbox"/> 111 | 1 | SIP Line, LTPS, Gateway (SIPGw) | - | 10.10.40.111 | - | Synchronized | | | |

Show: Nodes Component servers and cards IPv6 address

Note the Node IP Address that will be required for the Ascom Myco setup in **Section 7**. To check that the SIP Line Gateway is operational click on **SIP Line** in the main window highlighted below.

AVAYA CS1000 Element Manager

Managing: 192.168.40.101 Username: paul
System » IP Network » IP Telephony Nodes » Node Details

Node Details (ID: 111 - SIP Line, LTPS, Gateway (SIPGw))

| | |
|---|--|
| Node ID: <input type="text" value="111"/> * (0-9999) | TLAN address type: <input checked="" type="radio"/> IPv4 only <input type="radio"/> IPv4 and IPv6 |
| Call server IP address: <input type="text" value="192.168.40.101"/> * | |
| Embedded LAN (ELAN) | Telephony LAN (TLAN) |
| Gateway IP address: <input type="text" value="192.168.40.1"/> * | Node IPv4 address: <input type="text" value="10.10.40.111"/> * |
| Subnet mask: <input type="text" value="255.255.255.0"/> * | Subnet mask: <input type="text" value="255.255.255.0"/> * |
| IP Telephony Node Properties | |
| <ul style="list-style-type: none"> • Voice Gateway (VGW) and Codecs • Quality of Service (QoS) • LAN • SNTP • Numbering Zones • MCDN Alternative Routing Treatment (MALT) • Causes | |
| Applications (click to edit configuration) | |
| <ul style="list-style-type: none"> • SIP Line • Terminal Proxy Server (TPS) • Gateway (SIPGw) • Personal Directories (PD) • Presence Publisher • IP Media Services | |

* Required Value. Save Cancel

The **SIP Line Gateway Application** box should be checked as shown below and the information about the site entered into the **General** section is shown in the example below. Note the **SLG Local Sip port** is left at the default **5070** and this information as well as the **SIP domain name** will be required in **Section 7**. Click on **Save** if any changes were made.

Note: Ascom sets can be set to any listen port for SIP signaling, for testing the default **5070** for the CS1000 was chosen.

Managing: 192.168.40.101 Username: paul
System » IP Network » IP Telephony Nodes » Node Details » SIP Line Configuration

Node ID: 111 - SIP Line Configuration Details

[General](#) | [SIP Line Gateway Settings](#) | [SIP Line Gateway Service](#)

SIP Line Gateway Application Enable gateway service on this node

General

| | |
|---|---|
| SIP domain name: <input type="text" value="devconnect.local"/> | Virtual Trunk Network Health Monitor |
| SLG endpoint name: <input type="text"/> | <input type="checkbox"/> Monitor IP addresses (listed below) Information will be captured for the IP addresses listed below. |
| SLG Group ID: <input type="text"/> | Monitor IP: <input type="text"/> Add |
| SLG Local Sip port: <input type="text" value="5070"/> (1 - 65535) | Monitor addresses: <input type="text"/> Remove |
| SLG Local Tls port: <input type="text" value="5071"/> (1 - 65535) | |

SIP Line Gateway Settings

| |
|---|
| Security policy: <input type="button" value="Security Disabled"/> |
| Number of byte re-negotiation: <input type="button" value="0"/> |
| Options: <input type="checkbox"/> Client authentication |

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

If any changes were made in the screen above then **Save** will need to be clicked on below.

Managing: 192.168.40.101 Username: paul
System » IP Network » IP Telephony Nodes » Node Details

Node Details (ID: 111 - SIP Line, LTPS, Gateway (SIPGw))

| | |
|---|--|
| Node ID: <input type="text" value="111"/> * (0-9999) | TLAN address type: <input checked="" type="radio"/> IPv4 only <input type="radio"/> IPv4 and IPv6 |
| Call server IP address: <input type="text" value="192.168.40.101"/> * | Node IPv4 address: <input type="text" value="10.10.40.111"/> * |
| Embedded LAN (ELAN) | Telephony LAN (TLAN) |
| Gateway IP address: <input type="text" value="192.168.40.1"/> * | Subnet mask: <input type="text" value="255.255.255.0"/> * |
| Subnet mask: <input type="text" value="255.255.255.0"/> * | Node IPv6 address: <input type="text"/> |

IP Telephony Node Properties

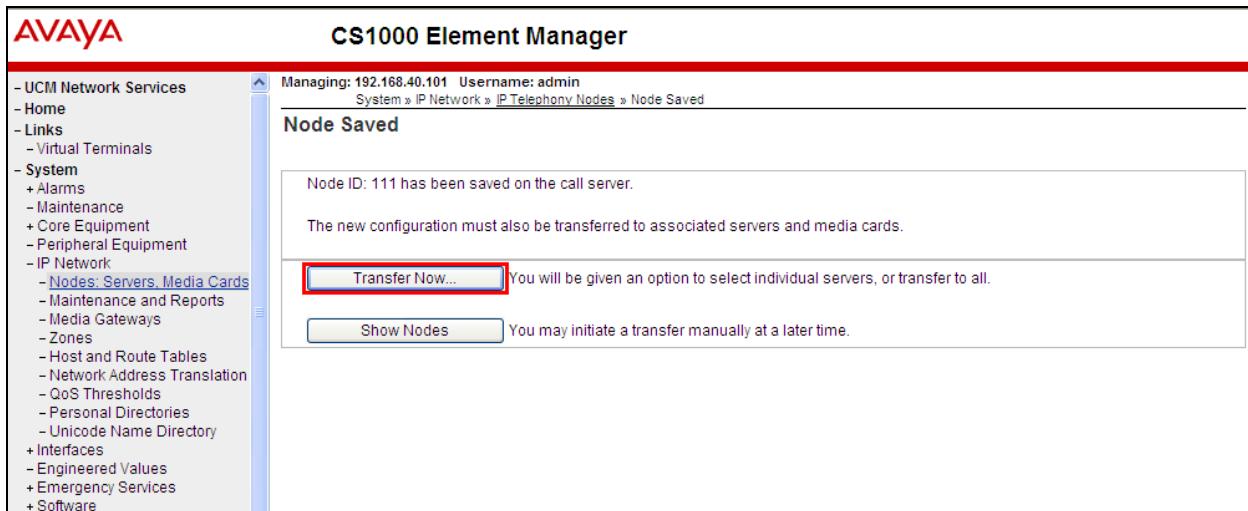
- [Voice Gateway \(VGW\) and Codecs](#)
- [Quality of Service \(QoS\)](#)
- [LAN](#)
- [SNTP](#)
- [Numbering Zones](#)
- [MCDN Alternative Routing Treatment \(MALT\)](#)
- [Causes](#)

Applications (click to edit configuration)

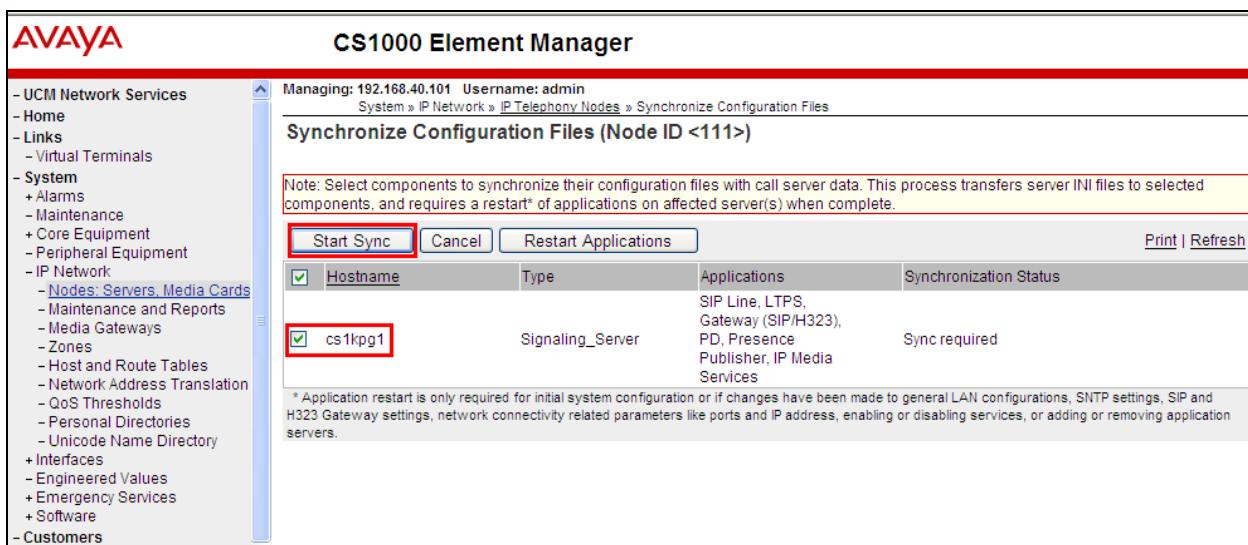
- [SIP Line](#)
- [Terminal Proxy Server \(TPS\)](#)
- [Gateway \(SIPGw\)](#)
- [Personal Directories \(PD\)](#)
- [Presence Publisher](#)
- [IP Media Services](#)

* Required Value. **Save** **Cancel**

To save any changes that are made in Element Manager the following steps must be taken. After **Save** has been pressed above the following screen is shown where **Transfer Now** can be pressed.



The following screen is displayed requiring that synchronization is performed followed by a restart of the Applications. Ensure the **Hostname** is ticked and click on **Start Sync**.



The following screen shows the **Sync in progress**.

| Hostname | Type | Applications | Synchronization Status |
|----------|------------------|---|------------------------|
| cs1kpg1 | Signaling_Server | SIP Line, LTPS, Gateway (SIP/H323), PD, Presence Publisher, IP Media Services | Sync in progress |

Once the Sync is completed select the **Hostname** again and click on **Restart Applications**. This will complete the Signalling Server configuration.

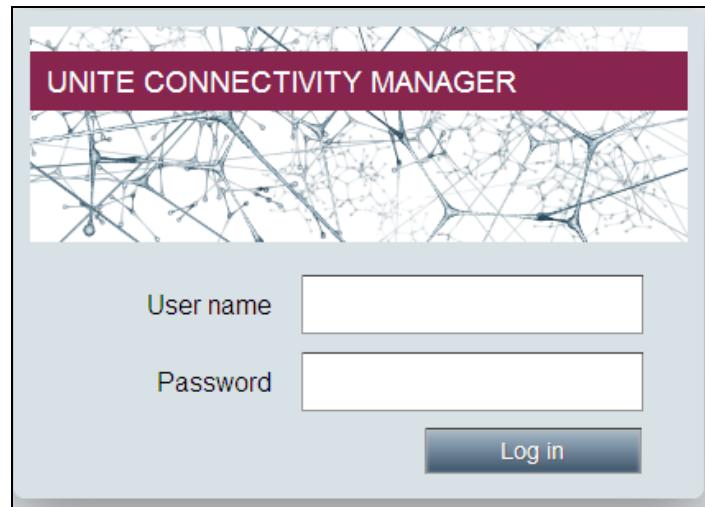
| Hostname | Type | Applications | Synchronization Status |
|----------|------------------|---|------------------------|
| cs1kpg1 | Signaling_Server | SIP Line, LTPS, Gateway (SIP/H323), PD, Presence Publisher, IP Media Services | Sync required |

7. Configure Ascom Wi-Fi Myco Smartphone

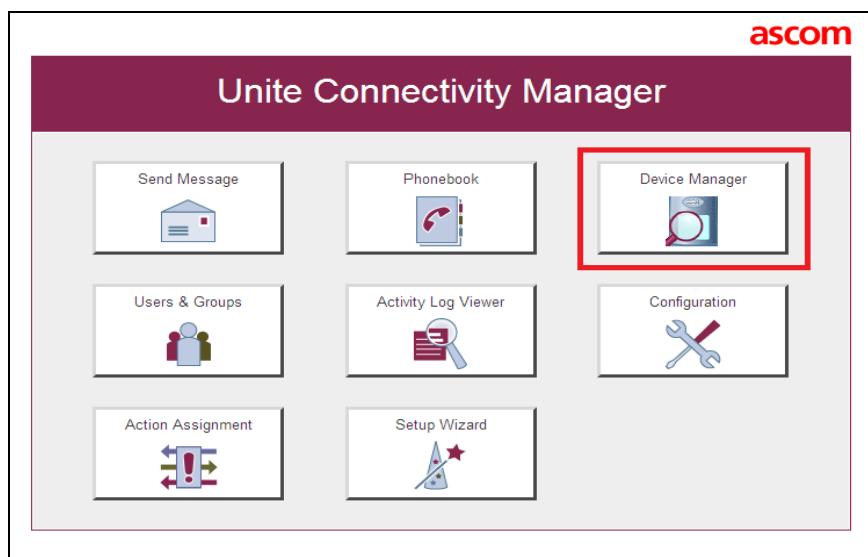
This section describes how to access and configure Myco via the Device Manager. It is implied that the Wi-Fi network has been configured and operational and the Ascom Unite Connectivity Manager box has an IP address assigned.

Note: The wireless router configuration is outside the scope of these Application Notes.

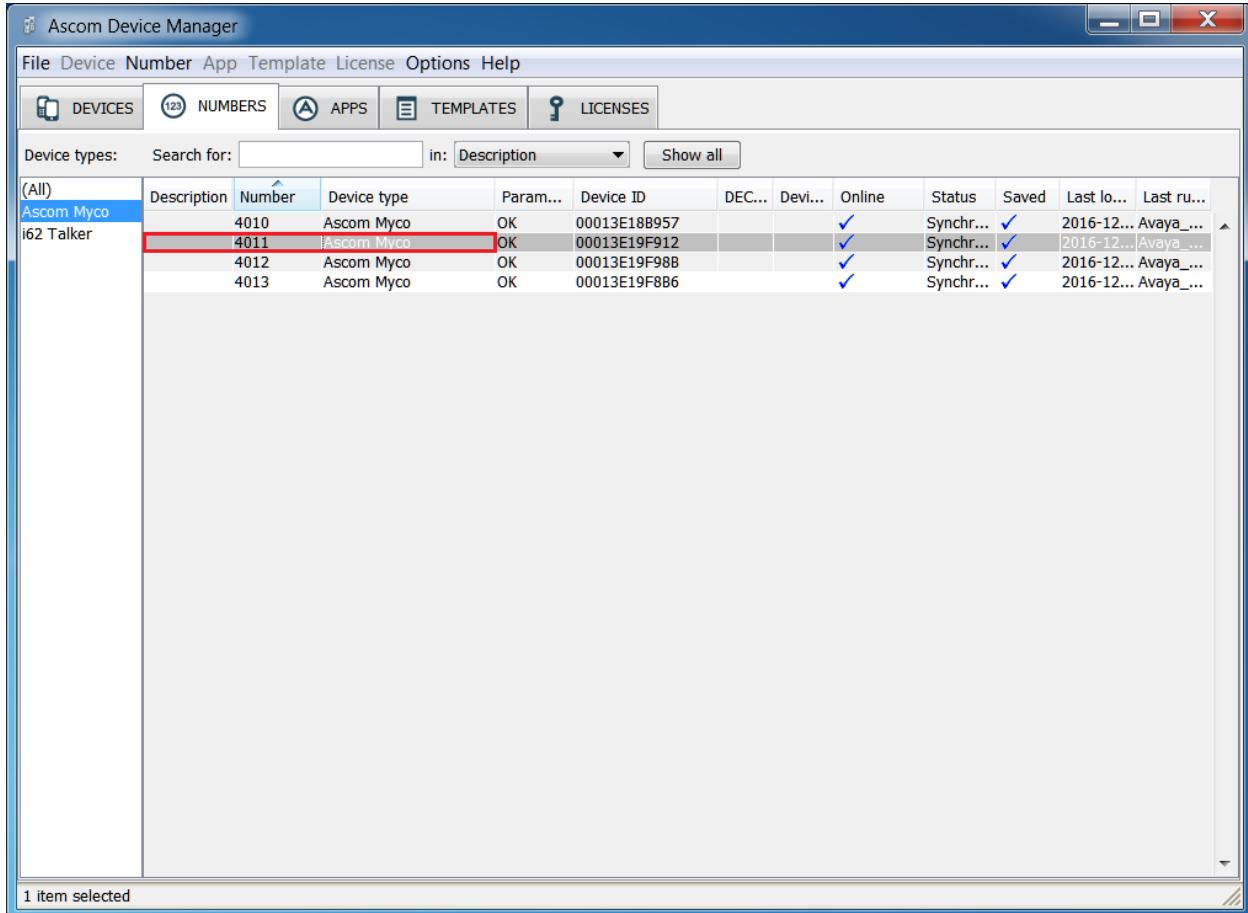
Access the Unite Connectivity Manager box by typing the URL, <http://<ip address>> in a web browser (not shown). Screen below shows the login screen. Enter the appropriate credentials in the **User name** and **Password** fields and click on **Log in**.



The main screen of **Unite Connectivity Manager** is seen as shown below. Click on the **Device Manager** application.



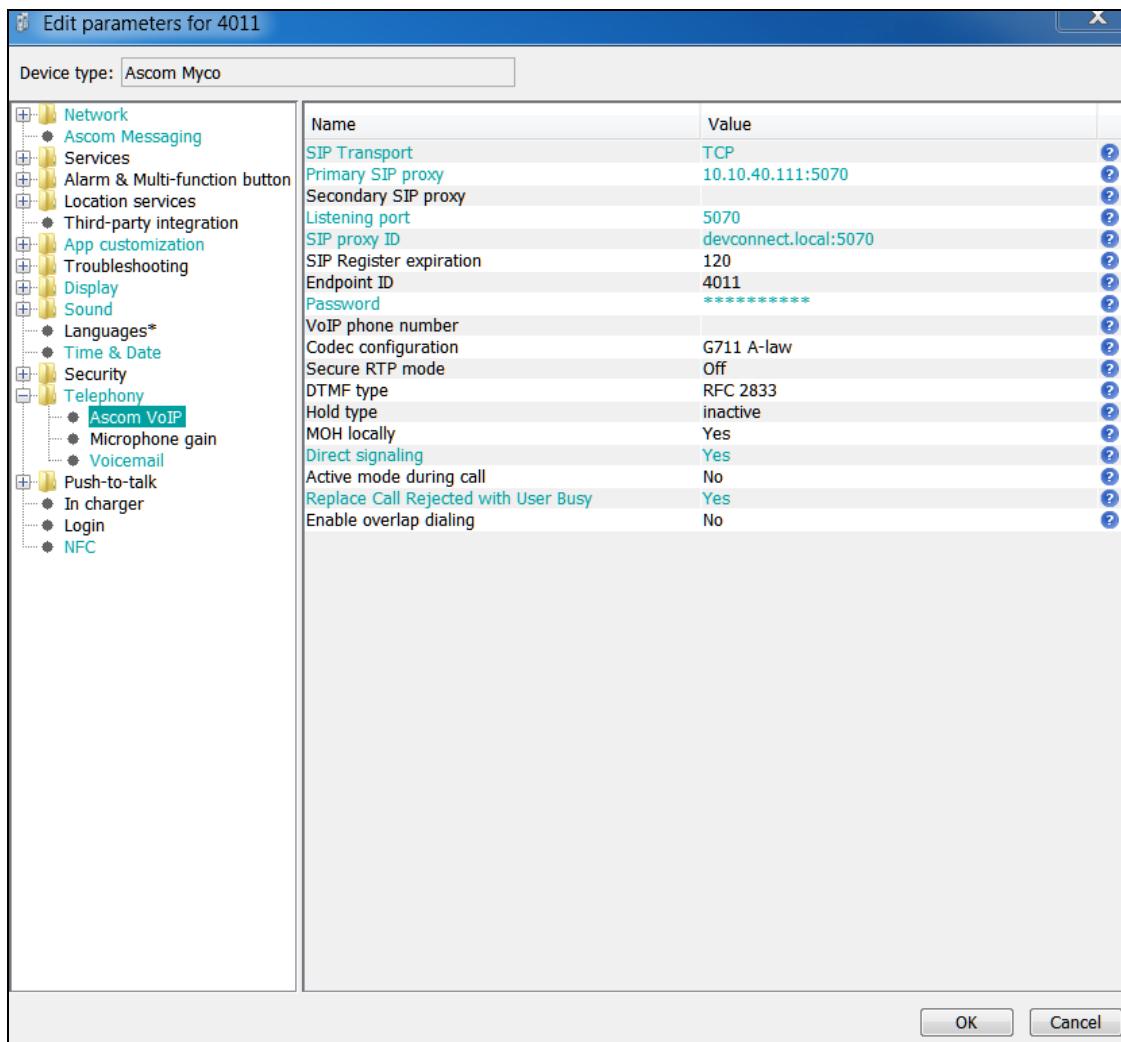
The **Ascom Device Manager** screen is seen as shown below. Within the **Numbers** tab all Myco devices are displayed. In the example below, a device with number **4011** is discovered along with other Myco extensions. Double click on 4011 number to make changes to this particular device.



The **Edit parameters for 4011** screen is shown. Click on **Ascom VoIP** that is seen on the left hand side and configure the following values.

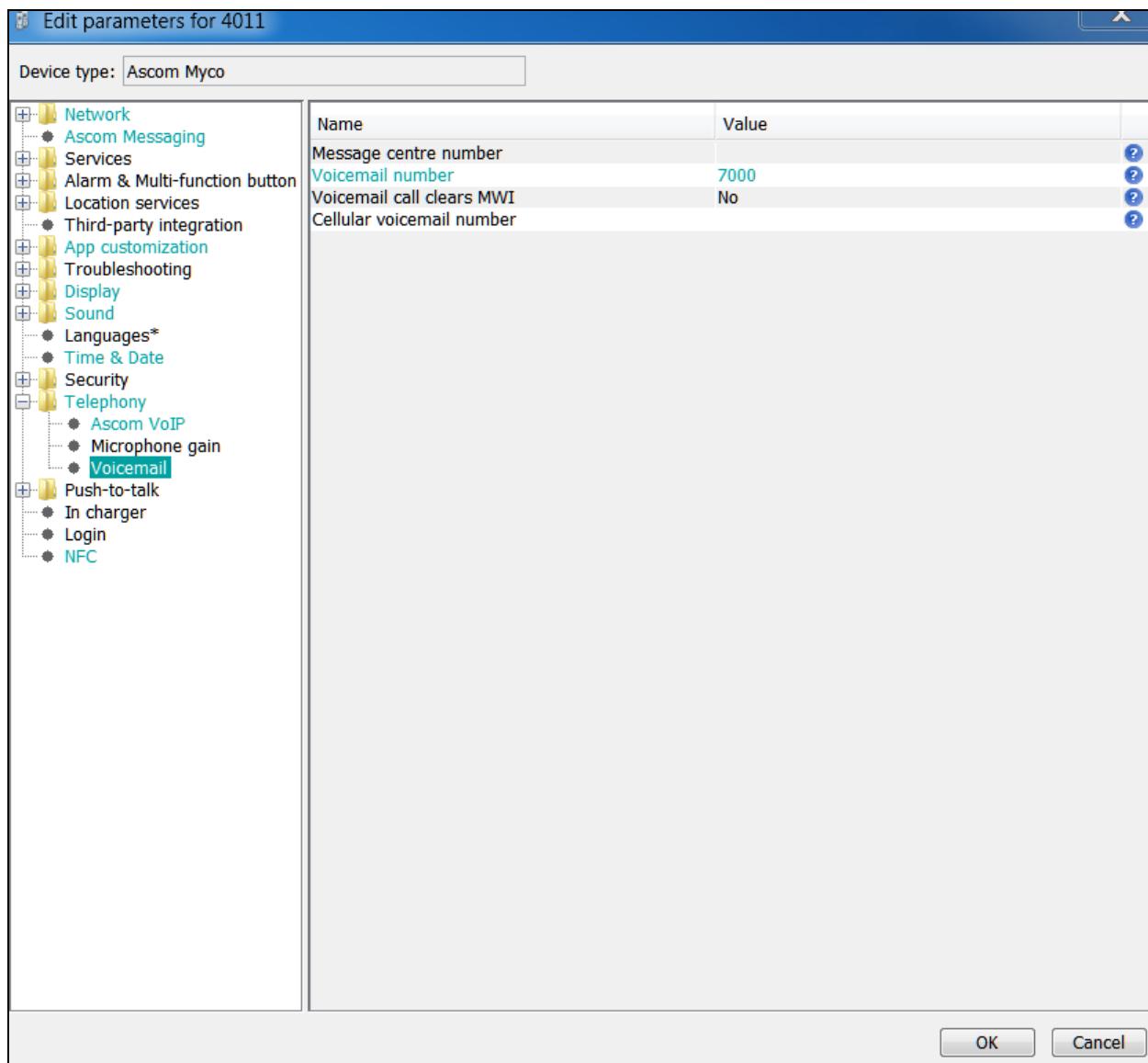
- **SIP Transport:** *TCP*
- **Primary SIP proxy:** *10.10.40.111:5070*; this is the node IP address of the SLG as configured in **Section 6**
- **Listening port:** *5070*; this is the Local Sip port configured on the SLG in **Section 6**
- **Endpoint ID:** *4011*; this is the directory number configured in the CS1000 in **Section 5.3**
- **Password:** As defined in **Section 5.3**
- **Codec configuration:** In this example *G711 A-law* is selected
- **Hold type :** This is set to *inactive*
- **Direct signaling:** *Yes*

Direct Signaling defines whether calls can be redirected to or accepted from other sources than the configured SIP Proxy. Retain default values for all other fields. Note that **MOH locally** set to *Yes* will provide Music on Hold (MOH) to the Ascom Myco handsets where the PBX has no MOH configured.

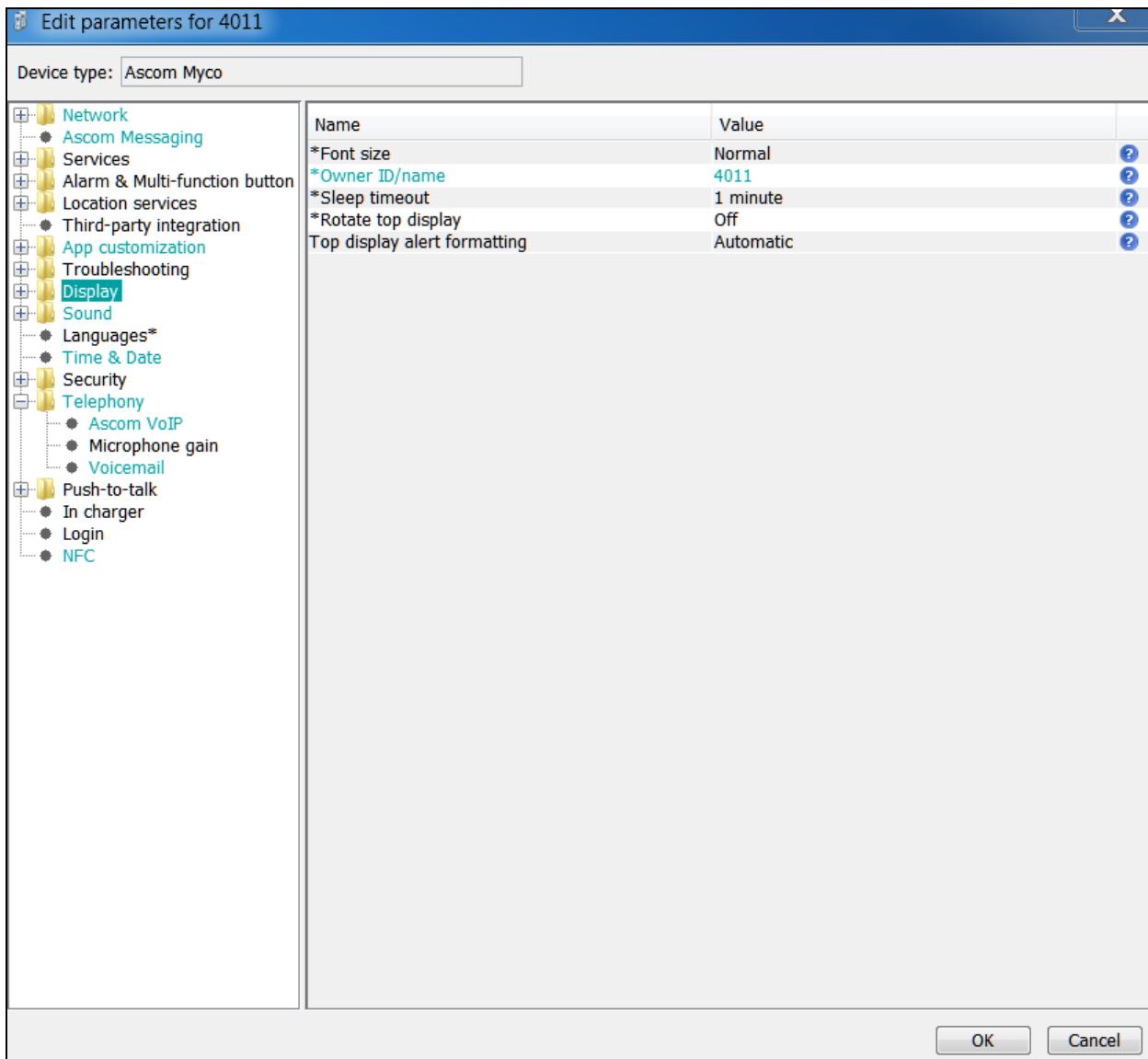


Under **Telephony** in the left window, select **Voicemail**. Ascom Myco can be configured to call this number directly by pressing a button, this must be configured below as the **Voicemail number**. **7000** is the voicemail number to access messaging.

Note: 7000 was the voicemail number setup on the CS1000 to call to Callpilot. This may vary on a customer site.



From the left window click on **Display** and configure the **Owner ID/name** field with the directory number configured, in this case **4011** as shown below. Retain default values for all other fields and click on **OK** to complete the configuration.



Note: Feature Codes can be programmed on the Myco Smartphones for features such as Call Forward or Call Pickup, basically any feature that is available using the Flexible Feature Codes on the CS1000 from **Section 5.4**. The setup of these “special buttons” will not be covered in these Application Notes but information on the configuration of the Ascom Myco smartphone can be found in **Section 10** of these Application Notes.

8. Verification Steps

This section provides the tests that can be performed to verify correct configuration of the Avaya and Ascom solution.

8.1. Verify Ascom Myco handsets are working

Make a call to and from each Myco handset to a telephone on the CS1000, this will verify that the Myco handset is correctly registered and working as designed and outlined in these Application Notes. If the handset cannot make or receive a call, the following in **Section 8.2**, can be checked for further verification and troubleshooting.

8.2. Verify Ascom Myco is registered with Avaya CS1000

Screen below shows an example of a SIP phone **4011** in this case the Myco as configured in **Section 5.3** registered to the SIPL Gateway.

```
[admin@sip175 ~]$ slgSetShowByUID 4011

==== VTRK ====
UserID          AuthId      TN           Clients   Calls   SetHandle  Pos ID       SIPL Type
-----  -----  -----  -----  -----  -----  -----  -----
        4011        4011    100-00-02-11      1        0  0x8e78388
StatusFlags = Registered Controlled KeyMapDwld SSD
FeatureMask =
CallProcStatus = -1

Current Client = 0, Total Clients = 1

== Client 0 ==
IPv4:Port:Trans = 10.10.40.111:5070:tcp
Type            = Unknown
UserAgent       = (Ascom Myco/11r1 [11.0896])
x-nt-guid       = 7224ed7d7ee02a66a4ee0b8c1d601a34
RegDescrip     =
RegStatus       = 1
PbxReason      = OK
SipCode         = 200
hTransc         = (nil)
Expire          = 120
Nonce           = 5694984ac6929da8f6efb377c8fc5bd
NonceCount     = 2
hTimer          = 0x8df8ca8
TimeRemain     = 27
Stale           = 0
Outbound        = 0
ClientGUID     =
MSec CLS        = MSNV (MSEC-Never)
Contact         = sip:4011@devconnect.local:5070;transport=TCP
KeyNum          = 255
AutoAnswer      = NO

Key  Func  Lamp  Label
0    3     0     4011
1    126   0     274011
17   16    0
18   18    0
19   27    0

== Subscription Info ==
Subscription Event = None
Subscription Handle = (nil)
SubscribeFlag = 0
```

9. Conclusion

These Application Notes provided detail configurations of Avaya Communication Server 1000 R7.6 and Ascom Myco V9.3. All of the executed test cases have passed and met the objectives outlined in the **Section 2.1**, with observations and issues outlined in **Section 2.2**.

10. Additional References

This section references documentation relevant to these Application Notes. The Avaya product documentation is available at <http://support.avaya.com> where the following documents can be obtained.

- [1] *Software Input Output Reference — Administration Avaya CS1000 R7.6 NN43001-611, 05.02*
- [2] *SIP Line Fundamentals Avaya CS1000 R7.6 NN43001-508, 03.03*
- [3] *Co-resident Call Server and Signaling Server Fundamentals Avaya CS1000 R7.6 NN43001-509, 03.01*

Product Documentation for Ascom Products can be obtained from an Ascom supplier or may be requested at <https://www.ascom-ws.com/AscomPartnerWeb/Templates/WebLogin.aspx> (login required).

Appendix A

Avaya CS1000 R7.6 - Linux Patches

| Product Release: 7.65.16.00 | | | | | | |
|-------------------------------|------------|------------|----------|-----------|---|---------------------------------------|
| In system patches: 9 | | | | | | |
| PATCH# | NAME | IN_SERVICE | DATE | SPECINS | TYPE | RPM |
| 48 | p31484_1 | Yes | 10/10/17 | NO | FRU | cs1000-shared-general-7.65.16-00.i386 |
| 49 | p33125_1 | Yes | 10/10/17 | NO | FRU | cs1000-OS-1.00.00.00-00.noarch |
| 50 | p33274_1 | Yes | 10/10/17 | YES | FRU | initscripts-8.45.25-1.el5.i386 |
| 51 | p33384_1 | Yes | 10/10/17 | NO | FRU | cs1000-OS-1.00.00.00-00.noarch |
| 52 | p33493_1 | Yes | 10/10/17 | NO | FRU | cs1000-OS-1.00.00.00-00.noarch |
| 53 | p33557_1 | Yes | 10/10/17 | YES | FRU | cs1000-OS-1.00.00.00-00.noarch |
| 54 | p33584_1 | Yes | 10/10/17 | YES | FRU | cs1000-OS-1.00.00.00-00.noarch |
| 55 | p33673_1 | Yes | 10/10/17 | NO | FRU | net-snmp-5.3.2.2-5.el5.i386 |
| 56 | p33774_1 | Yes | 10/10/17 | YES | FRU | cs1000-OS-1.00.00.00-00.noarch |
| In System service updates: 48 | | | | | | |
| PATCH# | IN_SERVICE | DATE | SPECINS | REMOVABLE | NAME | |
| 0 | Yes | 10/10/17 | YES | YES | cs1000-linuxbase-7.65.16.23-35.i386.000 | |
| 1 | Yes | 10/10/17 | NO | YES | cs1000-Jboss-Quantum-7.65.16.23-12.i386.000 | |
| 2 | Yes | 10/10/17 | YES | YES | cs1000-patchWeb-7.65.16.23-2.i386.000 | |
| 3 | Yes | 10/10/17 | YES | YES | cs1000-dmWeb-7.65.16.23-5.i386.000 | |
| 4 | Yes | 10/10/17 | YES | YES | avaya-cs1000-cnd-4.0.48-1.el5.i386.000 | |
| 5 | Yes | 10/10/17 | NO | YES | bash-3.2-33.el5_11.4.i386.000 | |
| 6 | Yes | 10/10/17 | YES | YES | cs1000-baseWeb-7.65.16.22-4.i386.000 | |
| 7 | Yes | 10/10/17 | YES | YES | cs1000-bcc-7.65.16.23-19.i386.000 | |
| 8 | Yes | 10/10/17 | NO | YES | cs1000-cppmUtil-7.65.16.23-4.i686.000 | |
| 9 | Yes | 10/10/17 | YES | YES | cs1000-cs-7.65.P.100-03.i386.000 | |
| 10 | Yes | 10/10/17 | NO | YES | cs1000-cs1000Webservice-6-0-7.65.16.23-6.i386.000 | |
| 11 | Yes | 10/10/17 | YES | YES | cs1000-csmWeb-7.65.16.23-2.i386.000 | |
| 12 | Yes | 10/10/17 | YES | YES | cs1000-csoneksvrmgr-7.65.16.22-5.i386.000 | |
| 13 | Yes | 10/10/17 | YES | YES | cs1000-csv-7.65.16.23-4.i386.000 | |
| 14 | Yes | 10/10/17 | YES | YES | cs1000-dbcom-7.65.16.23-1.i386.000 | |
| 15 | Yes | 10/10/17 | YES | YES | cs1000-emWebLocal_6-0-7.65.16.22-1.i386.000 | |
| 16 | Yes | 10/10/17 | YES | YES | cs1000-emWeb_6-0-7.65.16.23-8.i386.000 | |
| 17 | Yes | 10/10/17 | YES | YES | cs1000-ftrpkg-7.65.16.23-1.i386.000 | |
| 18 | Yes | 10/10/17 | NO | YES | cs1000-gk-7.65.16.22-1.i386.000 | |
| 19 | Yes | 10/10/17 | YES | YES | cs1000-ipsec-7.65.16.22-1.i386.000 | |
| 20 | Yes | 10/10/17 | YES | YES | cs1000-mscAnnc-7.65.16.23-1.i386.000 | |
| 21 | Yes | 10/10/17 | YES | YES | cs1000-mscattn-7.65.16.23-15.i386.000 | |
| 22 | Yes | 10/10/17 | YES | YES | cs1000-mscConf-7.65.16.23-1.i386.000 | |
| 23 | Yes | 10/10/17 | YES | YES | cs1000-mscMusc-7.65.16.23-1.i386.000 | |
| 24 | Yes | 10/10/17 | YES | YES | cs1000-mscTone-7.65.16.23-1.i386.000 | |
| 25 | Yes | 10/10/17 | YES | YES | cs1000-nrsm-7.65.16.23-1.i386.000 | |
| 26 | Yes | 10/10/17 | YES | YES | cs1000-oam-logging-7.65.16.23-1.i386.000 | |
| 27 | Yes | 10/10/17 | NO | YES | cs1000-pd-7.65.16.23-1.i386.000 | |
| 28 | Yes | 10/10/17 | NO | YES | cs1000-shared-carrdtct-7.65.16.21-01.i386.000 | |
| 29 | Yes | 10/10/17 | NO | YES | cs1000-shared-omm-7.65.16.21-2.i386.000 | |
| 30 | Yes | 10/10/17 | YES | YES | cs1000-shared-pbx-7.65.16.23-3.i386.000 | |
| 31 | Yes | 10/10/17 | NO | YES | cs1000-shared-tselect-7.65.16.23-1.i386.000 | |
| 32 | Yes | 10/10/17 | YES | YES | cs1000-shared-xmsg-7.65.16.22-1.i386.000 | |
| 33 | Yes | 10/10/17 | NO | YES | cs1000-snmp-7.65.16.21-00.i686.000 | |
| 34 | Yes | 10/10/17 | NO | YES | cs1000-sps-7.65.16.23-1.i386.000 | |
| 35 | Yes | 10/10/17 | YES | YES | cs1000-tps-7.65.16.23-21.i386.000 | |
| 36 | Yes | 10/10/17 | YES | YES | cs1000-vtrk-7.65.16.23-123.i386.000 | |
| 37 | Yes | 10/10/17 | NO | YES | freetype-2.2.1-32.el5_9.1.i386.000 | |
| 38 | Yes | 10/10/17 | YES | YES | jdk-1.6.0_151-fcs.i586.000 | |
| 39 | Yes | 10/10/17 | YES | YES | kernel-2.6.18-419.el5.i686.000 | |
| 40 | Yes | 10/10/17 | NO | YES | libssh2-1.4.2-2.el5_7.1.i386.000 | |
| 41 | Yes | 10/10/17 | NO | YES | libxml2-2.6.26-2.1.25.el5_11.i386.000 | |
| 42 | Yes | 10/10/17 | NO | YES | libxml2-python-2.6.26-2.1.25.el5_11.i386.000 | |
| 43 | Yes | 10/10/17 | NO | YES | openssl-0.9.8e-40.el5_11.i386.000 | |
| 44 | Yes | 10/10/17 | YES | YES | pass_harden-7.65.16.23-2.i386.000 | |
| 45 | Yes | 10/10/17 | NO | YES | pcap-7.65.16.23-1.i386.000 | |
| 46 | Yes | 10/10/17 | NO | YES | tzdata-2016g-2.el5.i386.000 | |
| 47 | Yes | 10/10/17 | NO | yes | | |

Avaya CS1000 R7.6 - Call Server Patches

| IN-SERVICE PEPS | | | | | | |
|-----------------|-------------|-------------|----------|------------|--------------|---------|
| PAT# | CR # | PATCH REF # | NAME | DATE | FILENAME | SPECINS |
| 0000 | wi01199336 | ISS1:1OF1 | p33410_1 | 10/10/2017 | p33410_1.cpl | NO |
| 0001 | wi01088055 | ISS1:1OF1 | p32607_1 | 10/10/2017 | p32607_1.cpl | NO |
| 0002 | wi01098433 | ISS1:1OF1 | p32736_1 | 10/10/2017 | p32736_1.cpl | NO |
| 0003 | wi01199608 | ISS1:1OF1 | p33414_1 | 10/10/2017 | p33414_1.cpl | NO |
| 0004 | wi01146254 | ISS1:1OF1 | p33127_1 | 10/10/2017 | p33127_1.cpl | NO |
| 0005 | wi01075149 | ISS1:1OF1 | p32475_1 | 10/10/2017 | p32475_1.cpl | NO |
| 0006 | wi01070585 | ISS1:1OF1 | p32383_1 | 10/10/2017 | p32383_1.cpl | NO |
| 0007 | wi01128512 | ISS1:1OF1 | p32997_1 | 10/10/2017 | p32997_1.cpl | NO |
| 0008 | wi01098783 | ISS1:1OF1 | p32748_1 | 10/10/2017 | p32748_1.cpl | NO |
| 0009 | wi01133960 | ISS1:1OF1 | p33034_1 | 10/10/2017 | p33034_1.cpl | NO |
| 0010 | wi01137694 | ISS1:1OF1 | p33081_1 | 10/10/2017 | p33081_1.cpl | NO |
| 0011 | wi01068011 | ISS1:1OF1 | p33182_1 | 10/10/2017 | p33182_1.cpl | NO |
| 0012 | wi01153896 | ISS1:1OF1 | p33185_1 | 10/10/2017 | p33185_1.cpl | NO |
| 0013 | wi01115369 | ISS1:1OF1 | p32889_1 | 10/10/2017 | p32889_1.cpl | NO |
| 0014 | wi01171418 | ISS1:1OF1 | p33278_1 | 10/10/2017 | p33278_1.cpl | NO |
| 0015 | CS1000-7113 | ISS1:1OF1 | p33623_1 | 10/10/2017 | p33623_1.cpl | NO |
| 0016 | wi01201882 | ISS1:1OF1 | p33427_1 | 10/10/2017 | p33427_1.cpl | NO |
| 0017 | wi01079444 | ISS1:1OF1 | p32564_1 | 10/10/2017 | p32564_1.cpl | NO |
| 0018 | wi01089519 | ISS1:1OF1 | p32665_1 | 10/10/2017 | p32665_1.cpl | NO |
| 0019 | wi01065248 | ISS1:1OF1 | p32412_1 | 10/10/2017 | p32412_1.cpl | NO |
| 0020 | wi01052968 | ISS1:1OF1 | p32540_1 | 10/10/2017 | p32540_1.cpl | NO |
| 0021 | wi01144609 | ISS1:1OF1 | p33119_1 | 10/10/2017 | p33119_1.cpl | NO |
| 0022 | wi01132244 | ISS1:1OF1 | p33041_1 | 10/10/2017 | p33041_1.cpl | NO |
| 0023 | wi01045058 | ISS1:1OF1 | p32214_1 | 10/10/2017 | p32214_1.cpl | NO |
| 0024 | wi01053920 | ISS1:1OF1 | p32303_1 | 10/10/2017 | p32303_1.cpl | NO |
| 0025 | wi01169714 | ISS1:1OF1 | p33335_1 | 10/10/2017 | p33335_1.cpl | NO |
| 0026 | wi01151870 | ISS1:1OF1 | p33162_1 | 10/10/2017 | p33162_1.cpl | YES |
| 0027 | wi01099300 | iss1:1of1 | p32704_1 | 10/10/2017 | p32704_1.cpl | NO |
| 0028 | wi01171467 | ISS1:1OF1 | p33270_1 | 10/10/2017 | p33270_1.cpl | NO |
| 0029 | wi01207693 | ISS1:1OF1 | p33452_1 | 10/10/2017 | p33452_1.cpl | NO |
| 0030 | wi01120705 | ISS1:1OF1 | p32930_1 | 10/10/2017 | p32930_1.cpl | NO |
| 0031 | wi00959458 | ISS1:1OF1 | p31551_1 | 10/10/2017 | p31551_1.cpl | NO |
| 0032 | wi01197054 | ISS1:1OF1 | p33397_1 | 10/10/2017 | p33397_1.cpl | NO |
| 0033 | wi01065118 | ISS1:1OF1 | p32397_1 | 10/10/2017 | p32397_1.cpl | NO |
| 0034 | wi01181174 | ISS1:1OF1 | p33316_1 | 10/10/2017 | p33316_1.cpl | NO |
| 0035 | wi01053597 | ISS1:1OF1 | p32304_1 | 10/10/2017 | p32304_1.cpl | NO |
| 0036 | wi01071996 | ISS1:1OF1 | p32461_1 | 10/10/2017 | p32461_1.cpl | NO |
| 0037 | wi01127527 | ISS1:1OF1 | p32988_1 | 10/10/2017 | p32988_1.cpl | YES |
| 0038 | wi01008182 | ISS1:1OF1 | p33277_1 | 10/10/2017 | p33277_1.cpl | NO |
| 0039 | wi01096842 | ISS1:1OF1 | p32731_1 | 10/10/2017 | p32731_1.cpl | NO |
| 0040 | wi01068922 | ISS1:1OF1 | p32454_1 | 10/10/2017 | p32454_1.cpl | NO |
| 0041 | wi01182880 | ISS1:1OF1 | p33328_1 | 10/10/2017 | p33328_1.cpl | NO |
| 0042 | wi01138136 | ISS1:1OF1 | p33191_1 | 10/10/2017 | p33191_1.cpl | NO |
| 0043 | CS1000-6738 | ISS1:1OF1 | p33495_1 | 10/10/2017 | p33495_1.cpl | NO |
| 0044 | wi01156086 | ISS1:1OF1 | p33269_1 | 10/10/2017 | p33269_1.cpl | NO |
| 0045 | wi01045144 | ISS1:1OF1 | p33202_1 | 10/10/2017 | p33202_1.cpl | NO |
| 0046 | wi01120458 | ISS1:1OF1 | p32929_1 | 10/10/2017 | p32929_1.cpl | NO |
| 0047 | wi01078721 | ISS1:1OF1 | p32553_1 | 10/10/2017 | p32553_1.cpl | NO |
| 0048 | CS1000-7208 | ISS1:1OF1 | p33648_1 | 10/10/2017 | p33648_1.cpl | NO |
| 0049 | wi01059388 | iss1:1of1 | p32628_1 | 10/10/2017 | p32628_1.cpl | NO |
| 0050 | wi01065922 | ISS1:1OF1 | p32516_1 | 10/10/2017 | p32516_1.cpl | NO |
| 0051 | wi01205975 | ISS1:1OF1 | p33447_1 | 10/10/2017 | p33447_1.cpl | NO |

| | | | | | | |
|------|-------------|-----------|----------|------------|--------------|-----|
| 0052 | wi01142100 | ISS1:1OF1 | p33090_1 | 10/10/2017 | p33090_1.cpl | NO |
| 0053 | wi01153039 | ISS1:1OF1 | p17588_1 | 10/10/2017 | p17588_1.cpl | NO |
| 0054 | WI01077073 | ISS1:1OF1 | p32534_1 | 10/10/2017 | p32534_1.cpl | NO |
| 0055 | wi01215810 | ISS1:1OF1 | p33494_1 | 10/10/2017 | p33494_1.cpl | NO |
| 0056 | wi01066991 | ISS1:1OF1 | p32449_1 | 10/10/2017 | p32449_1.cpl | NO |
| 0057 | wi01106658 | ISS1:1OF1 | p32812_1 | 10/10/2017 | p32812_1.cpl | NO |
| 0058 | wi01068851 | ISS1:1OF1 | p32439_1 | 10/10/2017 | p32439_1.cpl | NO |
| 0059 | wi01053314 | ISS1:1OF1 | p32555_1 | 10/10/2017 | p32555_1.cpl | NO |
| 0060 | wi01123389 | ISS1:1OF1 | p33045_1 | 10/10/2017 | p33045_1.cpl | NO |
| 0061 | CS1000-7174 | ISS1:1OF1 | p33655_1 | 10/10/2017 | p33655_1.cpl | NO |
| 0062 | wi01165881 | ISS1:1OF1 | p33239_1 | 10/10/2017 | p33239_1.cpl | NO |
| 0063 | wi01065125 | ISS1:1OF1 | p32416_1 | 10/10/2017 | p32416_1.cpl | NO |
| 0064 | wi01119086 | ISS1:1OF1 | p32917_1 | 10/10/2017 | p32917_1.cpl | NO |
| 0065 | wi01109251 | ISS1:1OF1 | p32827_1 | 10/10/2017 | p32827_1.cpl | NO |
| 0066 | wi01173768 | ISS1:1OF1 | p33288_1 | 10/10/2017 | p33288_1.cpl | NO |
| 0067 | wi01180594 | ISS1:1OF1 | p33312_1 | 10/10/2017 | p33312_1.cpl | NO |
| 0068 | wi01126552 | ISS1:1OF1 | p32975_1 | 10/10/2017 | p32975_1.cpl | NO |
| 0069 | CS1000-7171 | ISS1:1OF1 | p33626_1 | 10/10/2017 | p33626_1.cpl | NO |
| 0070 | wi01204623 | ISS1:1OF1 | p33444_1 | 10/10/2017 | p33444_1.cpl | NO |
| 0071 | wi01099724 | ISS1:1OF1 | p32742_1 | 10/10/2017 | p32742_1.cpl | YES |
| 0072 | wi01118819 | ISS1:1OF1 | p32954_1 | 10/10/2017 | p32954_1.cpl | NO |
| 0073 | wi01094305 | ISS1:1OF1 | p32640_1 | 10/10/2017 | p32640_1.cpl | NO |
| 0074 | wi01188722 | ISS1:1OF1 | p33365_1 | 10/10/2017 | p33365_1.cpl | NO |
| 0075 | CS1000-7435 | ISS1:1OF1 | p33745_1 | 11/10/2017 | p33745_1.cpl | NO |
| 0076 | wi01101876 | ISS1:1OF1 | p32858_1 | 10/10/2017 | p32858_1.cpl | NO |
| 0077 | wi01142792 | ISS1:1OF1 | p33099_1 | 10/10/2017 | p33099_1.cpl | NO |
| 0078 | CS1000-7276 | ISS1:1OF1 | p33675_1 | 10/10/2017 | p33675_1.cpl | YES |
| 0079 | CS1000-6789 | ISS1:1OF1 | p33508_1 | 10/10/2017 | p33508_1.cpl | NO |
| 0080 | wi01164281 | ISS1:1OF1 | p33232_1 | 10/10/2017 | p33232_1.cpl | NO |
| 0081 | wi01133985 | ISS1:1OF1 | p33049_1 | 10/10/2017 | p33049_1.cpl | NO |
| 0082 | wi01149017 | ISS1:1OF1 | p33145_1 | 10/10/2017 | p33145_1.cpl | NO |
| 0083 | wi01186846 | ISS1:1OF1 | p33332_1 | 10/10/2017 | p33332_1.cpl | NO |
| 0084 | wi01188972 | ISS1:1OF1 | p33352_1 | 10/10/2017 | p33352_1.cpl | NO |
| 0085 | cs1000-7217 | ISS1:1OF1 | p33643_1 | 10/10/2017 | p33643_1.cpl | NO |
| 0086 | CS1000-6712 | ISS1:1OF1 | p33752_1 | 11/10/2017 | p33752_1.cpl | NO |
| 0087 | wi01111194 | ISS1:1OF1 | p32821_1 | 10/10/2017 | p32821_1.cpl | NO |
| 0088 | wi01189247 | ISS1:1OF1 | p33382_1 | 10/10/2017 | p33382_1.cpl | YES |
| 0089 | wi01099606 | iss1:1of1 | p32713_1 | 10/10/2017 | p32713_1.cpl | NO |
| 0090 | wi01088775 | ISS1:1OF1 | p32659_1 | 10/10/2017 | p32659_1.cpl | NO |
| 0091 | wi01148697 | ISS1:1OF1 | p33187_1 | 10/10/2017 | p33187_1.cpl | NO |
| 0092 | wi01130348 | ISS1:1OF1 | p33014_1 | 10/10/2017 | p33014_1.cpl | NO |
| 0093 | CS1000-6844 | ISS1:1OF1 | p33507_1 | 10/10/2017 | p33507_1.cpl | NO |
| 0094 | wi01134756 | ISS1:1OF1 | p33453_1 | 10/10/2017 | p33453_1.cpl | NO |
| 0095 | wi01184588 | ISS1:1OF1 | p33338_1 | 10/10/2017 | p33338_1.cpl | NO |
| 0096 | wi01147091 | ISS1:1OF1 | p33137_1 | 10/10/2017 | p33137_1.cpl | NO |
| 0097 | CS1000-7286 | ISS1:1OF1 | p33686_1 | 10/10/2017 | p33686_1.cpl | NO |
| 0098 | wi01087543 | ISS1:1OF1 | p32662_1 | 10/10/2017 | p32662_1.cpl | NO |
| 0099 | wi01166011 | ISS1:1OF1 | p33235_1 | 10/10/2017 | p33235_1.cpl | NO |
| 0100 | wi01035976 | ISS1:1OF1 | p32173_1 | 10/10/2017 | p32173_1.cpl | NO |
| 0101 | wi01146804 | ISS1:1OF1 | p33132_1 | 10/10/2017 | p33132_1.cpl | NO |
| 0102 | wi01153104 | ISS1:1OF1 | p33174_1 | 10/10/2017 | p33174_1.cpl | NO |
| 0103 | wi01092443 | ISS1:1OF1 | p32676_1 | 10/10/2017 | p32676_1.cpl | NO |
| 0104 | CS1000-7469 | ISS1:1OF1 | p33739_1 | 11/10/2017 | p33739_1.cpl | NO |
| 0105 | wi01113712 | ISS1:1OF1 | p32877_1 | 10/10/2017 | p32877_1.cpl | NO |
| 0106 | wi01150846 | ISS1:1OF1 | p33157_1 | 10/10/2017 | p33157_1.cpl | NO |
| 0107 | CS1000-7052 | ISS1:1OF1 | p33573_1 | 10/10/2017 | p33573_1.cpl | NO |
| 0108 | wi01153844 | ISS1:1OF1 | p33172_1 | 10/10/2017 | p33172_1.cpl | NO |
| 0109 | wi01093071 | ISS1:1OF1 | p32701_1 | 10/10/2017 | p32701_1.cpl | NO |
| 0110 | CS1000-7151 | ISS1:1OF1 | p33617_1 | 10/10/2017 | p33617_1.cpl | NO |
| 0111 | wi01190506 | ISS1:1OF1 | p33361_1 | 10/10/2017 | p33361_1.cpl | NO |
| 0112 | wi01118714 | ISS2:1OF1 | p32952_2 | 10/10/2017 | p32952_2.cpl | NO |
| 0113 | wi01075538 | ISS1:1OF1 | p32469_1 | 10/10/2017 | p32469_1.cpl | NO |

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| 0114 | wi01091447 | ISS1:1OF1 | p32675_1 | 10/10/2017 | p32675_1.cpl | NO |
| 0115 | wi01159931 | ISS1:1OF1 | p33231_1 | 10/10/2017 | p33231_1.cpl | YES |
| 0116 | WI01108562 | ISS1:1OF1 | p32832_1 | 10/10/2017 | p32832_1.cpl | NO |
| 0117 | wi01099810 | ISS1:1OF1 | p32796_1 | 10/10/2017 | p32796_1.cpl | NO |
| 0118 | CS1000-7003 | ISS1:1OF1 | p33561_1 | 10/10/2017 | p33561_1.cpl | NO |
| 0119 | wi01128596 | ISS1:1OF1 | p33000_1 | 10/10/2017 | p33000_1.cpl | NO |
| 0120 | wi01185642 | ISS1:1OF1 | p33342_1 | 10/10/2017 | p33342_1.cpl | NO |
| 0121 | wi01193201 | ISS1:1OF1 | p33381_1 | 10/10/2017 | p33381_1.cpl | YES |
| 0122 | cs1000-6998 | ISS1:1OF1 | p33555_1 | 10/10/2017 | p33555_1.cpl | NO |
| 0123 | CS1000-6791 | ISS1:1OF1 | p33501_1 | 10/10/2017 | p33501_1.cpl | YES |
| 0124 | wi01191767 | ISS1:1OF1 | p33368_1 | 10/10/2017 | p33368_1.cpl | NO |
| 0125 | wi01144354 | ISS1:1OF1 | p33117_1 | 10/10/2017 | p33117_1.cpl | NO |
| 0126 | wi01121374 | ISS1:1OF1 | p31107_1 | 10/10/2017 | p31107_1.cpl | NO |
| 0127 | wi01185751 | ISS1:1OF1 | p33409_1 | 10/10/2017 | p33409_1.cpl | YES |
| 0128 | WI01169289 | ISS1:1OF1 | p33257_1 | 10/10/2017 | p33257_1.cpl | NO |
| 0129 | wi01100508 | ISS1:1OF1 | p32761_1 | 10/10/2017 | p32761_1.cpl | NO |
| 0130 | wi01189516 | ISS1:1OF1 | p33373_1 | 10/10/2017 | p33373_1.cpl | NO |
| 0131 | wi01101969 | ISS1:1OF1 | p32726_1 | 10/10/2017 | p32726_1.cpl | NO |
| 0132 | wi01102296 | ISS1:1OF1 | p32780_1 | 10/10/2017 | p32780_1.cpl | NO |
| 0133 | cs1000-7162 | ISS1:1OF1 | p33625_1 | 10/10/2017 | p33625_1.cpl | NO |
| 0134 | wi01097598 | ISS1:1OF1 | p32797_1 | 10/10/2017 | p32797_1.cpl | NO |
| 0135 | wi01132215 | ISS1:1OF1 | p33084_1 | 10/10/2017 | p33084_1.cpl | NO |
| 0136 | wi01094832 | iss1:1of1 | p32718_1 | 10/10/2017 | p32718_1.cpl | NO |
| 0137 | wi01197246 | ISS1:1OF1 | p33400_1 | 10/10/2017 | p33400_1.cpl | NO |
| 0138 | CS1000-6872 | ISS1:1OF1 | p33520_1 | 10/10/2017 | p33520_1.cpl | NO |
| 0139 | wi01147983 | ISS1:1OF1 | p33141_1 | 10/10/2017 | p33141_1.cpl | NO |
| 0140 | wi01060826 | ISS1:1OF1 | p32379_1 | 10/10/2017 | p32379_1.cpl | NO |
| 0141 | wi01077639 | ISS1:1OF1 | p32883_1 | 10/10/2017 | p32883_1.cpl | NO |
| 0142 | wi01085855 | ISS1:1OF1 | p32658_1 | 10/10/2017 | p32658_1.cpl | NO |
| 0143 | wi01053195 | ISS1:1OF1 | p32297_1 | 10/10/2017 | p32297_1.cpl | NO |
| 0144 | wi01174116 | ISS1:1OF1 | p33287_1 | 10/10/2017 | p33287_1.cpl | NO |
| 0145 | wi01095255 | ISS1:1OF1 | p33027_1 | 10/10/2017 | p33027_1.cpl | NO |
| 0146 | wi01203516 | ISS1:1OF1 | p33438_1 | 10/10/2017 | p33438_1.cpl | NO |
| 0147 | wi01094727 | ISS1:1OF1 | p32848_1 | 10/10/2017 | p32848_1.cpl | NO |
| 0148 | wi01151898 | ISS1:1OF1 | p33175_1 | 10/10/2017 | p33175_1.cpl | NO |
| 0149 | CS1000-7103 | ISS1:1OF1 | p33596_1 | 10/10/2017 | p33596_1.cpl | NO |
| 0150 | wi01080753 | ISS1:1OF1 | p32518_1 | 10/10/2017 | p32518_1.cpl | NO |
| 0151 | wi01125238 | ISS1:1OF1 | p32971_1 | 10/10/2017 | p32971_1.cpl | NO |
| 0152 | wi01110593 | ISS1:1OF1 | p32849_1 | 10/10/2017 | p32849_1.cpl | NO |
| 0153 | wi01119100 | ISS1:1OF1 | p32925_1 | 10/10/2017 | p32925_1.cpl | NO |
| 0154 | CS1000-6978 | ISS1:1OF1 | p33551_1 | 10/10/2017 | p33551_1.cpl | YES |
| 0155 | wi01156999 | ISS1:1OF1 | p33180_1 | 10/10/2017 | p33180_1.cpl | NO |
| 0156 | wi01141625 | ISS1:1OF1 | p33324_1 | 10/10/2017 | p33324_1.cpl | NO |
| 0157 | wi01102093 | ISS1:1OF1 | p32760_1 | 10/10/2017 | p32760_1.cpl | NO |
| 0158 | wi01132883 | ISS1:1OF1 | p33030_1 | 10/10/2017 | p33030_1.cpl | NO |
| 0159 | wi01070279 | ISS1:1OF1 | p32262_1 | 10/10/2017 | p32262_1.cpl | NO |
| 0160 | wi01102475 | ISS1:1OF1 | p32782_1 | 10/10/2017 | p32782_1.cpl | YES |
| 0161 | cs1000-6924 | ISS1:1OF1 | p33523_1 | 10/10/2017 | p33523_1.cpl | NO |
| 0162 | wi01181423 | ISS1:1OF1 | p33318_1 | 10/10/2017 | p33318_1.cpl | NO |
| 0163 | wi01150083 | ISS1:1OF1 | p33152_1 | 10/10/2017 | p33152_1.cpl | NO |
| 0164 | CS1000-7534 | ISS1:1OF1 | p33759_1 | 11/10/2017 | p33759_1.cpl | NO |
| 0165 | wi00897254 | ISS1:1OF1 | p31127_1 | 10/10/2017 | p31127_1.cpl | NO |
| 0166 | wi01083036 | ISS1:1OF1 | p32571_1 | 10/10/2017 | p32571_1.cpl | NO |
| 0167 | wi01070468 | iss1:1of1 | p32418_1 | 10/10/2017 | p32418_1.cpl | NO |
| 0168 | wi01181197 | ISS1:1OF1 | p33317_1 | 10/10/2017 | p33317_1.cpl | NO |
| 0169 | wi01063864 | ISS1:1OF1 | p32410_1 | 10/10/2017 | p32410_1.cpl | YES |
| 0170 | wi01075355 | ISS1:1OF1 | p32594_1 | 10/10/2017 | p32594_1.cpl | NO |
| 0171 | wi01127447 | ISS1:1OF1 | p32990_1 | 10/10/2017 | p32990_1.cpl | NO |
| 0172 | wi01133106 | ISS1:1OF1 | p33032_1 | 10/10/2017 | p33032_1.cpl | NO |
| 0173 | wi01212017 | ISS1:1OF1 | p33482_1 | 10/10/2017 | p33482_1.cpl | YES |
| 0174 | wi01099292 | ISS1:1OF1 | p32886_1 | 10/10/2017 | p32886_1.cpl | NO |
| 0175 | wi01167427 | ISS1:1OF1 | p33264_1 | 10/10/2017 | p33264_1.cpl | NO |

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| 0176 | wi01075540 | ISS1:1OF1 | p32492_1 | 10/10/2017 | p32492_1.cpl | NO |
| 0177 | wi01072027 | ISS1:1OF1 | p32689_1 | 10/10/2017 | p32689_1.cpl | NO |
| 0178 | wi01114038 | ISS1:1OF1 | p32869_1 | 10/10/2017 | p32869_1.cpl | NO |
| 0179 | CS1000-6933 | ISS1:1OF1 | p33529_1 | 10/10/2017 | p33529_1.cpl | NO |
| 0180 | wi01212527 | ISS1:1OF1 | p33481_1 | 10/10/2017 | p33481_1.cpl | YES |
| 0181 | wi01181578 | ISS1:1OF1 | p33321_1 | 10/10/2017 | p33321_1.cpl | NO |
| 0182 | CS1000-7106 | ISS1:1OF1 | p33598_1 | 10/10/2017 | p33598_1.cpl | NO |
| 0183 | wi01063263 | ISS1:1OF1 | p32573_1 | 10/10/2017 | p32573_1.cpl | NO |
| 0184 | wi01102091 | ISS1:1OF1 | p32744_1 | 10/10/2017 | p32744_1.cpl | YES |
| 0185 | wi01104473 | ISS1:1OF1 | p32818_1 | 10/10/2017 | p32818_1.cpl | NO |
| 0186 | wi01053950 | ISS1:1OF1 | p32654_1 | 10/10/2017 | p32654_1.cpl | YES |
| 0187 | wi01139981 | ISS1:1OF1 | p33083_1 | 10/10/2017 | p33083_1.cpl | NO |
| 0188 | wi01058378 | ISS1:1OF1 | p32344_1 | 10/10/2017 | p32344_1.cpl | NO |
| 0189 | wi01070580 | ISS1:1OF1 | p32380_1 | 10/10/2017 | p32380_1.cpl | NO |
| 0190 | wi01187059 | ISS1:1OF1 | p33346_1 | 10/10/2017 | p33346_1.cpl | NO |
| 0191 | wi01043367 | ISS1:1OF1 | p32232_1 | 10/10/2017 | p32232_1.cpl | NO |
| 0192 | wi01145002 | ISS1:1OF1 | p33186_1 | 10/10/2017 | p33186_1.cpl | NO |
| 0193 | wi01175294 | ISS1:1OF1 | p33290_1 | 10/10/2017 | p33290_1.cpl | NO |
| 0194 | wi01041453 | ISS1:1OF1 | p32587_1 | 10/10/2017 | p32587_1.cpl | NO |
| 0195 | wi01185441 | ISS1:1OF1 | p33341_1 | 10/10/2017 | p33341_1.cpl | NO |
| 0196 | wi01130815 | ISS1:1OF1 | p33017_1 | 10/10/2017 | p33017_1.cpl | NO |
| 0197 | wi01214452 | ISS1:1OF1 | p33488_1 | 10/10/2017 | p33488_1.cpl | NO |
| 0198 | wi01089807 | ISS1:1OF1 | p32957_1 | 10/10/2017 | p32957_1.cpl | NO |
| 0199 | CS1000-7023 | ISS1:1OF1 | p33526_1 | 10/10/2017 | p33526_1.cpl | NO |
| 0200 | wi01149384 | ISS1:1OF1 | p33147_1 | 10/10/2017 | p33147_1.cpl | NO |
| 0201 | WI01121737 | ISS1:1OF1 | p32939_1 | 10/10/2017 | p32939_1.cpl | NO |
| 0202 | CS1000-6794 | ISS1:1OF1 | p33539_1 | 10/10/2017 | p33539_1.cpl | NO |
| 0203 | CS1000-7500 | ISS1:1OF1 | p33754_1 | 11/10/2017 | p33754_1.cpl | YES |
| 0204 | wi01083896 | ISS1:1OF1 | p32937_1 | 10/10/2017 | p32937_1.cpl | NO |
| 0205 | wi01210497 | ISS1:1OF1 | p33468_1 | 10/10/2017 | p33468_1.cpl | YES |
| 0206 | wi01178476 | ISS1:1OF1 | p33305_1 | 10/10/2017 | p33305_1.cpl | NO |
| 0207 | wi01039280 | ISS1:1OF1 | p32423_1 | 10/10/2017 | p32423_1.cpl | NO |
| 0208 | wi01081510 | ISS1:1OF1 | p32582_1 | 10/10/2017 | p32582_1.cpl | NO |
| 0209 | wi01088797 | ISS1:1OF1 | p32844_1 | 10/10/2017 | p32844_1.cpl | NO |
| 0210 | wi01098905 | ISS1:1OF1 | p32556_1 | 10/10/2017 | p32556_1.cpl | NO |
| 0211 | wi01146766 | ISS1:1OF1 | p33131_1 | 10/10/2017 | p33131_1.cpl | NO |
| 0212 | wi00937672 | ISS1:1OF1 | p31276_1 | 10/10/2017 | p31276_1.cpl | NO |
| 0213 | wi01170583 | ISS1:1OF1 | p33261_1 | 10/10/2017 | p33261_1.cpl | NO |
| 0214 | wi01057403 | ISS1:1OF1 | p32591_1 | 10/10/2017 | p32591_1.cpl | NO |
| 0215 | wi01132204 | ISS1:1OF1 | p32501_1 | 10/10/2017 | p32501_1.cpl | NO |
| 0216 | CS1000-7176 | ISS1:1OF1 | p33744_1 | 11/10/2017 | p33744_1.cpl | NO |
| 0217 | CS1000-7277 | ISS1:1OF1 | p33763_1 | 11/10/2017 | p33763_1.cpl | NO |
| 0218 | wi01201045 | ISS1:1OF1 | p33424_1 | 10/10/2017 | p33424_1.cpl | YES |
| 0219 | CS1000-7248 | ISS1:1OF1 | p32811_1 | 10/10/2017 | p32811_1.cpl | NO |
| 0220 | wi01185138 | ISS1:1OF1 | p33411_1 | 10/10/2017 | p33411_1.cpl | NO |
| 0221 | wi01025156 | ISS1:1OF1 | p32136_1 | 10/10/2017 | p32136_1.cpl | NO |
| 0222 | wi01127138 | ISS1:1OF1 | p33304_1 | 10/10/2017 | p33304_1.cpl | NO |
| 0223 | wi01070756 | ISS1:1OF1 | p32444_1 | 10/10/2017 | p32444_1.cpl | NO |
| 0224 | wi01132599 | ISS1:1OF1 | p33025_1 | 10/10/2017 | p33025_1.cpl | NO |
| 0225 | wi01056633 | ISS1:1OF1 | p32322_1 | 10/10/2017 | p32322_1.cpl | NO |
| 0226 | wi01060241 | ISS1:1OF1 | p32381_1 | 10/10/2017 | p32381_1.cpl | NO |
| 0227 | wi01134952 | ISS1:1OF1 | p33039_1 | 10/10/2017 | p33039_1.cpl | NO |
| 0228 | wi01132902 | ISS1:1OF1 | p33028_1 | 10/10/2017 | p33028_1.cpl | NO |
| 0229 | wi01201986 | ISS1:1OF1 | p33433_1 | 10/10/2017 | p33433_1.cpl | NO |
| 0230 | wi01071379 | ISS1:1OF1 | p32522_1 | 10/10/2017 | p32522_1.cpl | NO |
| 0231 | cs1000-6845 | ISS1:1OF1 | p33509_1 | 10/10/2017 | p33509_1.cpl | NO |
| 0232 | wi01069441 | ISS1:1OF1 | p32097_1 | 10/10/2017 | p32097_1.cpl | NO |
| 0233 | WI11032038 | ISS1:1OF1 | p33022_1 | 10/10/2017 | p33022_1.cpl | NO |
| 0234 | CS1000-7451 | ISS1:1OF1 | p33749_1 | 11/10/2017 | p33749_1.cpl | NO |
| 0235 | wi01134354 | ISS1:1OF1 | p33031_1 | 10/10/2017 | p33031_1.cpl | NO |
| 0236 | CS1000-6946 | ISS1:1OF1 | p33543_1 | 10/10/2017 | p33543_1.cpl | NO |
| 0237 | wi01096910 | ISS1:1OF1 | p32734_1 | 10/10/2017 | p32734_1.cpl | NO |

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| 0238 | wi01076948 | ISS1:1OF1 | p32526_1 | 10/10/2017 | p32526_1.cpl | YES |
| 0239 | wi01093118 | ISS1:1OF1 | p32496_1 | 10/10/2017 | p32496_1.cpl | NO |
| 0240 | wi01202917 | ISS1:1OF1 | p33434_1 | 10/10/2017 | p33434_1.cpl | NO |
| 0241 | wi01198794 | ISS1:1OF1 | p33408_1 | 10/10/2017 | p33408_1.cpl | NO |
| 0242 | wi01160967 | ISS1:1OF1 | p33213_1 | 10/10/2017 | p33213_1.cpl | NO |
| 0243 | wi01104867 | ISS1:1OF1 | p32828_1 | 10/10/2017 | p32828_1.cpl | NO |
| 0244 | wi01154485 | ISS1:1OF1 | p33194_1 | 10/10/2017 | p33194_1.cpl | NO |
| 0245 | wi01146705 | ISS1:1OF1 | p33129_1 | 10/10/2017 | p33129_1.cpl | NO |
| 0246 | wi01096712 | ISS1:1OF1 | p32708_1 | 10/10/2017 | p32708_1.cpl | NO |
| 0247 | wi01061481 | ISS1:1OF1 | p32382_1 | 10/10/2017 | p32382_1.cpl | NO |
| 0248 | wi01070465 | iss1:1of1 | p32562_1 | 10/10/2017 | p32562_1.cpl | NO |
| 0249 | CS1000-7301 | ISS1:1OF1 | p33691_1 | 10/10/2017 | p33691_1.cpl | NO |
| 0250 | wi01187443 | ISS1:1OF1 | p33359_1 | 10/10/2017 | p33359_1.cpl | NO |
| 0251 | wi01034307 | ISS1:1OF1 | p32615_1 | 10/10/2017 | p32615_1.cpl | NO |
| 0252 | CS1000-6964 | ISS1:1OF1 | p33541_1 | 10/10/2017 | p33541_1.cpl | NO |
| 0253 | wi01135146 | ISS1:1OF1 | p33033_1 | 10/10/2017 | p33033_1.cpl | NO |
| 0254 | CS1000-6852 | ISS1:1OF1 | p33517_1 | 10/10/2017 | p33517_1.cpl | NO |
| 0255 | wi01195975 | ISS1:1OF1 | p33394_1 | 10/10/2017 | p33394_1.cpl | NO |
| 0256 | wi01108262 | ISS1:1OF1 | p32865_1 | 10/10/2017 | p32865_1.cpl | YES |
| 0257 | wi01104627 | ISS1:1OF1 | p32819_1 | 10/10/2017 | p32819_1.cpl | NO |
| 0258 | wi01204274 | ISS1:1OF1 | p33451_1 | 10/10/2017 | p33451_1.cpl | NO |
| 0259 | CS1000-7022 | ISS1:1OF1 | p33560_1 | 10/10/2017 | p33560_1.cpl | NO |
| 0260 | CS1000-7472 | ISS1:1OF1 | p33778_1 | 11/10/2017 | p33778_1.cpl | NO |
| 0261 | wi01096967 | ISS1:1OF1 | p32735_1 | 10/10/2017 | p32735_1.cpl | NO |
| 0262 | CS1000-7564 | ISS1:1OF1 | p33772_1 | 11/10/2017 | p33772_1.cpl | NO |
| 0263 | wi01060611 | ISS1:1OF1 | p32809_1 | 10/10/2017 | p32809_1.cpl | NO |
| 0264 | wi01163826 | ISS1:1OF1 | p33229_1 | 10/10/2017 | p33229_1.cpl | NO |
| 0265 | wi01182523 | ISS1:1OF1 | p33327_1 | 10/10/2017 | p33327_1.cpl | NO |
| 0266 | CS1000-7267 | ISS1:1OF1 | p33669_1 | 10/10/2017 | p33669_1.cpl | NO |
| 0267 | wi01090535 | ISS1:1OF1 | p32519_1 | 10/10/2017 | p32519_1.cpl | NO |
| 0268 | wi01124074 | ISS1:1OF1 | p32989_1 | 10/10/2017 | p32989_1.cpl | NO |
| 0269 | wi01034961 | ISS1:1OF1 | p32144_1 | 10/10/2017 | p32144_1.cpl | NO |
| 0270 | wi01127874 | ISS1:1OF1 | p25747_1 | 10/10/2017 | p25747_1.cpl | NO |
| 0271 | wi01062607 | ISS1:1OF1 | p32503_1 | 10/10/2017 | p32503_1.cpl | NO |
| 0272 | CS1000-6910 | ISS1:1OF1 | p33528_1 | 10/10/2017 | p33528_1.cpl | NO |
| 0273 | wi01060382 | iss1:1of1 | p32623_1 | 10/10/2017 | p32623_1.cpl | YES |
| 0274 | wi01215563 | ISS1:1OF1 | p33412_1 | 10/10/2017 | p33412_1.cpl | NO |
| 0275 | CS1000-7147 | ISS1:1OF1 | p33616_1 | 10/10/2017 | p33616_1.cpl | NO |
| 0276 | wi01075359 | ISS1:1OF1 | p32671_1 | 10/10/2017 | p32671_1.cpl | NO |
| 0277 | wi01120406 | ISS1:1OF1 | p32956_1 | 10/10/2017 | p32956_1.cpl | NO |
| 0278 | wi01095462 | ISS1:1OF1 | p32723_1 | 10/10/2017 | p32723_1.cpl | NO |
| 0279 | wi01213334 | ISS1:1OF1 | p33485_1 | 10/10/2017 | p33485_1.cpl | NO |
| 0280 | wi01070473 | ISS1:1OF1 | p32413_1 | 10/10/2017 | p32413_1.cpl | NO |
| 0281 | wi01114695 | ISS1:1OF1 | p32885_1 | 10/10/2017 | p32885_1.cpl | NO |
| 0282 | wi01129098 | ISS1:1OF1 | p32951_1 | 10/10/2017 | p32951_1.cpl | NO |
| 0283 | wi01134799 | ISS1:1OF1 | p33069_1 | 10/10/2017 | p33069_1.cpl | NO |
| 0284 | wi01163048 | ISS1:1OF1 | p33223_1 | 10/10/2017 | p33223_1.cpl | YES |
| 0285 | wi01096718 | ISS1:1OF1 | p33138_1 | 10/10/2017 | p33138_1.cpl | YES |
| 0286 | CS1000-7293 | ISS1:1OF1 | p33679_1 | 10/10/2017 | p33679_1.cpl | NO |
| 0287 | wi01166065 | ISS1:1OF1 | p33241_1 | 10/10/2017 | p33241_1.cpl | NO |
| 0288 | wi01130836 | ISS1:1OF1 | p33008_1 | 10/10/2017 | p33008_1.cpl | YES |
| 0289 | wi01109345 | ISS1:1OF1 | p32830_1 | 10/10/2017 | p32830_1.cpl | NO |
| 0290 | wi01104410 | ISS1:1OF1 | p32801_1 | 10/10/2017 | p32801_1.cpl | NO |
| 0291 | wi01183783 | ISS1:1OF1 | p33333_1 | 10/10/2017 | p33333_1.cpl | NO |
| 0292 | wi01064599 | iss1:1of1 | p32580_1 | 10/10/2017 | p32580_1.cpl | NO |
| 0293 | wi01124477 | ISS1:1OF1 | p32963_1 | 10/10/2017 | p32963_1.cpl | NO |
| 0294 | wi01072062 | ISS1:1OF1 | p32776_1 | 10/10/2017 | p32776_1.cpl | NO |
| 0295 | wi01118320 | ISS1:1OF1 | p32753_1 | 10/10/2017 | p32753_1.cpl | NO |
| 0296 | wi01126454 | ISS1:1OF1 | p32973_1 | 10/10/2017 | p32973_1.cpl | NO |
| 0297 | wi01154253 | ISS1:1OF1 | p33206_1 | 10/10/2017 | p33206_1.cpl | NO |
| 0298 | CS1000-7086 | ISS1:1OF1 | p33587_1 | 10/10/2017 | p33587_1.cpl | NO |
| 0299 | wi01021522 | ISS1:1OF1 | p32863_1 | 10/10/2017 | p32863_1.cpl | NO |

| | | | | | | |
|------|-------------|-----------|----------|------------|--------------|-----|
| 0300 | CS1000-6786 | ISS1:1OF1 | p33497_1 | 10/10/2017 | p33497_1.cpl | NO |
| 0301 | wi01108828 | ISS1:1OF1 | p32831_1 | 10/10/2017 | p32831_1.cpl | NO |
| 0302 | wi01150771 | ISS1:1OF1 | p33210_1 | 10/10/2017 | p33210_1.cpl | NO |
| 0303 | wi01022598 | ISS1:1OF1 | p32066_1 | 10/10/2017 | p32066_1.cpl | NO |
| 0304 | wi01146289 | ISS1:1OF1 | p33146_1 | 10/10/2017 | p33146_1.cpl | NO |
| 0305 | wi01184272 | ISS1:1OF1 | p33336_1 | 10/10/2017 | p33336_1.cpl | NO |
| 0306 | CS1000-6752 | ISS1:1OF1 | p33540_1 | 10/10/2017 | p33540_1.cpl | NO |
| 0307 | wi01082456 | ISS1:1OF1 | p32596_1 | 10/10/2017 | p32596_1.cpl | NO |
| 0308 | wi01177614 | ISS1:1OF1 | p33303_1 | 10/10/2017 | p33303_1.cpl | NO |
| 0309 | wi01163521 | ISS1:1OF1 | p33226_1 | 10/10/2017 | p33226_1.cpl | NO |
| 0310 | wi01071296 | ISS1:1OF1 | p32836_1 | 10/10/2017 | p32836_1.cpl | NO |
| 0311 | wi01118928 | ISS1:1OF1 | p32922_1 | 10/10/2017 | p32922_1.cpl | NO |
| 0312 | wi01068669 | ISS1:1OF1 | p32333_1 | 10/10/2017 | p32333_1.cpl | NO |
| 0313 | wi01137003 | ISS1:1OF1 | p33053_1 | 10/10/2017 | p33053_1.cpl | NO |
| 0314 | wi01165870 | ISS1:1OF1 | p33238_1 | 10/10/2017 | p33238_1.cpl | NO |
| 0315 | wi01136194 | ISS1:1OF1 | p33051_1 | 10/10/2017 | p33051_1.cpl | NO |
| 0316 | wi01068751 | ISS1:1OF1 | p32445_1 | 10/10/2017 | p32445_1.cpl | NO |
| 0317 | wi01075353 | ISS1:1OF1 | p32613_1 | 10/10/2017 | p32613_1.cpl | NO |
| 0318 | wi01208515 | ISS1:1OF1 | p33455_1 | 10/10/2017 | p33455_1.cpl | NO |
| 0319 | wi01165461 | ISS1:1OF1 | p33237_1 | 10/10/2017 | p33237_1.cpl | NO |
| 0320 | wi01132222 | ISS1:1OF1 | p33023_1 | 10/10/2017 | p33023_1.cpl | NO |
| 0321 | WI0110261 | ISS1:1OF1 | p32758_1 | 10/10/2017 | p32758_1.cpl | NO |
| 0322 | CS1000-7202 | ISS1:1OF1 | p33646_1 | 10/10/2017 | p33646_1.cpl | NO |
| 0323 | CS1000-7326 | ISS1:1OF1 | p33699_1 | 10/10/2017 | p33699_1.cpl | NO |
| 0324 | CS1000-7357 | ISS1:1OF1 | p33698_1 | 10/10/2017 | p33698_1.cpl | NO |
| 0325 | CS1000-7265 | ISS1:1OF1 | p33666_1 | 10/10/2017 | p33666_1.cpl | NO |
| 0326 | CS1000-7140 | ISS1:1OF1 | p33624_1 | 10/10/2017 | p33624_1.cpl | NO |
| 0327 | CS1000-7062 | ISS1:1OF1 | p33579_1 | 10/10/2017 | p33579_1.cpl | NO |
| 0328 | CS1000-7453 | ISS1:1OF1 | p33793_1 | 11/10/2017 | p33793_1.cpl | NO |
| 0329 | CS1000-6980 | ISS1:1OF1 | p33586_1 | 10/10/2017 | p33586_1.cpl | NO |
| 0330 | CS1000-7406 | ISS1:1OF1 | p33715_1 | 11/10/2017 | p33715_1.cpl | NO |
| 0331 | CS1000-7101 | ISS1:1OF1 | p33641_1 | 10/10/2017 | p33641_1.cpl | NO |
| 0332 | CS1000-6546 | ISS1:1OF1 | p33597_1 | 10/10/2017 | p33597_1.cpl | NO |
| 0333 | CS1000-7231 | ISS1:1OF1 | p33652_1 | 10/10/2017 | p33652_1.cpl | NO |
| 0334 | CS1000-7296 | ISS1:1OF1 | p33681_1 | 10/10/2017 | p33681_1.cpl | NO |
| 0335 | CS1000-7323 | ISS1:1OF1 | p33688_1 | 10/10/2017 | p33688_1.cpl | NO |
| 0336 | CS1000-7460 | ISS1:1OF1 | p33735_1 | 11/10/2017 | p33735_1.cpl | NO |
| 0337 | CS1000-7339 | ISS1:1OF1 | p33708_1 | 11/10/2017 | p33708_1.cpl | NO |
| 0338 | CS1000-7154 | ISS1:1OF1 | p33619_1 | 10/10/2017 | p33619_1.cpl | NO |
| 0339 | CS1000-7081 | ISS1:1OF1 | p33585_1 | 10/10/2017 | p33585_1.cpl | NO |
| 0340 | CS1000-7607 | ISS1:1OF1 | p33783_1 | 11/10/2017 | p33783_1.cpl | YES |
| 0341 | CS1000-7053 | ISS1:1OF1 | p33574_1 | 10/10/2017 | p33574_1.cpl | NO |
| 0342 | CS1000-7461 | ISS1:1OF1 | p33736_1 | 10/10/2017 | p33736_1.cpl | NO |
| 0343 | CS1000-7015 | ISS1:1OF1 | p33606_1 | 10/10/2017 | p33606_1.cpl | NO |
| 0344 | cs1000-7223 | ISS1:1OF1 | p33647_1 | 10/10/2017 | p33647_1.cpl | YES |
| 0345 | CS1000-7143 | ISS1:1OF1 | p33614_1 | 10/10/2017 | p33614_1.cpl | NO |
| 0346 | cs1000-7160 | ISS1:1OF1 | p33621_1 | 10/10/2017 | p33621_1.cpl | NO |
| 0347 | CS1000-7253 | ISS1:1OF1 | p33662_1 | 10/10/2017 | p33662_1.cpl | NO |
| 0348 | CS1000-7337 | ISS1:1OF1 | p33696_1 | 10/10/2017 | p33696_1.cpl | NO |
| 0349 | CS1000-7462 | ISS1:1OF1 | p33737_1 | 10/10/2017 | p33737_1.cpl | NO |
| 0350 | cs1000-7029 | ISS1:1OF1 | p33563_1 | 10/10/2017 | p33563_1.cpl | NO |
| 0351 | CS1000-7366 | ISS1:1OF1 | p33702_1 | 10/10/2017 | p33702_1.cpl | NO |
| 0352 | cs1000-7269 | ISS1:1OF1 | p33670_1 | 10/10/2017 | p33670_1.cpl | NO |
| 0353 | CS1000-7313 | ISS1:1OF1 | p33692_1 | 10/10/2017 | p33692_1.cpl | NO |
| 0354 | CS1000-7624 | ISS1:1OF1 | p33794_1 | 11/10/2017 | p33794_1.cpl | NO |
| 0355 | cs1000-7580 | ISS1:1OF1 | p33776_1 | 11/10/2017 | p33776_1.cpl | NO |
| 0356 | CS1000-7448 | ISS1:1OF1 | p33729_1 | 11/10/2017 | p33729_1.cpl | NO |
| 0357 | CS1000-7423 | ISS1:1OF1 | p33720_1 | 11/10/2017 | p33720_1.cpl | NO |
| 0358 | CS1000-7340 | ISS1:1OF1 | p33694_1 | 11/10/2017 | p33694_1.cpl | NO |
| 0359 | CS1000-7489 | ISS1:1OF1 | p33747_1 | 11/10/2017 | p33747_1.cpl | NO |
| 0360 | CS1000-7514 | ISS1:1OF1 | p33764_1 | 11/10/2017 | p33764_1.cpl | YES |
| 0361 | CS1000-7590 | ISS1:1OF1 | p33780_1 | 11/10/2017 | p33780_1.cpl | NO |

| | | | | | | |
|---|-------------|-----------|----------|------------|--------------|-----|
| 0362 | CS1000-7549 | ISS1:1OF1 | p33767_1 | 11/10/2017 | p33767_1.cpl | YES |
| 0363 | CS1000-7637 | ISS1:1OF1 | p33791_1 | 11/10/2017 | p33791_1.cpl | YES |
| 0364 | CS1000-7587 | ISS1:1OF1 | p33779_1 | 11/10/2017 | p33779_1.cpl | NO |
| 0365 | CS1000-7622 | ISS1:1OF1 | p33787_1 | 11/10/2017 | p33787_1.cpl | YES |
| 0366 | CS1000-7236 | ISS1:1OF1 | p33753_1 | 11/10/2017 | p33753_1.cpl | NO |
| MDP>LAST SUCCESSFUL MDP REFRESH :2017-10-11 08:05:41 (Local Time) | | | | | | |
| MDP>USING DEPLIST ZIP FILE DOWNLOADED :2017-06-30 11:39:15 (est) | | | | | | |

Appendix B

Avaya CS1000 Route for SIP Line Gateway

```
TYPE RDB
CUST 00
ROUT 40
DES SIPL
TKTP TIE
M911P NO
ESN NO
RPA NO
CNVT NO
SAT NO
RCLS EXT
VTRK YES
ZONE 00040
PCID SIPL
CRID NO
NODE 111
DTRK NO
ISDN YES
    MODE ISLD
    DCH 1
    IFC SL1
    PNI 00000
    NCNA YES
    NCRD YES
    TRO YES
    FALT NO
    CTYP UKWN
    INAC NO
    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 8040
TCPP NO
PII NO
AUXP NO
TARG
CLEN 10
BILN NO
OABS
INST
IDC NO
DCNO 0 *
NDNO 0
DEXT NO
ANTK
```

```
SIGO STD
STYP SDAT
MFC NO
ICIS YES
OGIS YES
PTUT 0
TIMR ICF 1920
```

```
PAGE 002
```

```
OGF 1920
EOD 13952
LCT 256
DSI 34944
NRD 10112
DDL 70
ODT 4096
RGV 640
GTO 896
GTI 896
SFB 3
PRPS 800
NBS 2048
NBL 4096
```

```
IENB 5
TFD 0
RTD 12
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
```

```
PAGE 003
```

```
ART 0
PECL NO
DCTI 0
TIDY 1012 40
ATTR NO
TRRL NO
SGRP 0
CCBA NO
ARDN NO
CTBL 0
ANIE 0
CAC_CIS 3
AACR NO
```

Avaya CS1000 D-Channel for SIP line Gateway

```
ADAN DCH 1
CTYP DCIP
DES SIPL
USR ISLD
ISLM 4000
SSRC 3700
OTBF 32
NASA YES
IFC SL1
CNEG 1
RLS ID 4
RCAP TAT ND3
MBGA NO
H323
OVLR NO
OVLS NO
```

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