

Avaya Solution & Interoperability Test Lab

Application Notes for Configuring Avaya IP Office 8.1 to support TDC Business Trunk – Issue 1.0

Abstract

These Application Notes describe the procedures for configuring Session Initiation Protocol (SIP) trunking between TDC Business Trunk and Avaya IP Office.

The TDC Business Trunk provides PSTN access via a SIP trunk connected to the TDC Voice Over Internet Protocol (VoIP) network as an alternative to legacy Analogue or Digital trunks. TDC is a member of the Avaya DevConnect Service Provider program.

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

1. Introduction

These Application Notes describe the procedures for configuring Session Initiation Protocol (SIP) trunking between TDC Business Trunk and Avaya IP Office. TDC Business Trunk provides PSTN access via a SIP trunk connected to the TDC network as an alternative to legacy Analogue or Digital trunks. This approach generally results in lower cost for customers.

2. General Test Approach and Test Results

The general test approach was to configure a simulated enterprise site using Avaya IP Office to connect to the TDC Business Trunk. This configuration (shown in Figure 1) was used to exercise the features and functionality listed in Section 2.1.

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.

2.1. Interoperability Compliance Testing

Avaya IP Office was connected to TDC Business Trunk. To verify SIP trunking interoperability the following features and functionality were exercised during the interoperability compliance test:

- Incoming PSTN calls to various phone types including H.323, SIP, Digital and Analogue telephones at the enterprise
- All inbound PSTN calls were routed to the enterprise across the SIP trunk from the Service Provider
- Outgoing PSTN calls from various phone types including H.323, SIP, Digital, and Analogue telephones at the enterprise
- All outbound PSTN calls were routed from the enterprise across the SIP trunk to the Service Provider
- Inbound and outbound PSTN calls to/from an IP Office Softphone client
- Various call types including: local, long distance, international, toll free (outbound) and directory assistance
- Codecs G.711A, G.711MU and G.729A
- Caller ID presentation and Caller ID restriction
- DTMF transmission using RFC 2833
- Voicemail navigation for inbound and outbound calls
- User features such as hold and resume, transfer, and conference
- Off-net call forwarding and twinning
- Fax calls to/from a group 3 fax machine to a PSTN connected fax machine using the T.38 transport mode.

2.2. Test Results

Interoperability testing of the sample configuration was completed with successful results for TDC Business Trunk with the following observations:

- When IP Office SIP trunk is improperly configured to have no matching codec with the Service Provider and an outbound call is placed, the network responded with a 500 "Service Unavailable" instead of 488 "Not Acceptable Here". The user hears fast busy and there is no user impact to this behavior.
- No inbound toll free numbers were tested, however routing of inbound DID numbers and the relevant number translation was successfully tested.
- No emergency calls to the operator were tested.

2.3. Support

For technical support on the Avaya products described in these Application Notes visit http://support.avaya.com.

For technical support on TDC products please contact the following website: http://www.tdc.se.

3. Reference Configuration

Figure 1 illustrates the test configuration. The test configuration shows an enterprise site connected to TDC Business Trunk. Located at the enterprise site is an Avaya IP Office 500 v2. Endpoints include two Avaya 1600 Series IP Telephones (with H.323 firmware), one Avaya 1140e SIP Telephone, Avaya 2420 Digital Telephone, Avaya Analogue Telephone and fax machine. The site also has a Windows XP PC running Avaya IP Office Manager to configure the Avaya IP Office as well as an IP Office Softphone client for mobility testing. For security purposes, any public IP addresses or PSTN routable phone numbers used in the compliance test are not shown in these Application Notes. Instead, public IP addresses have been changed to a private format and all phone numbers have been obscured beyond the city code.

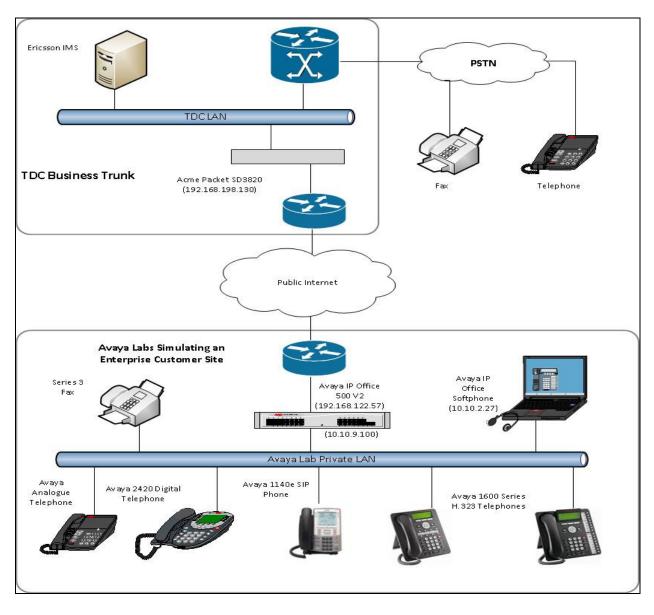


Figure 1: Test Setup TDC Business Trunk to simulated Enterprise

Avaya IP Office was configured to connect to a static IP address at the Service Provider. For the purposes of the compliance test, users dialed a short code of 9 + N digits to send digits across the SIP trunk to the TDC network. The short code of 9 is stripped off by Avaya IP Office and the remaining N digits sent with adaptation to E.164 format with leading "+".

In an actual customer configuration, the enterprise site may also include additional network components between the Service Provider and Avaya IP Office such as a Session Border Controller or data firewall. A complete discussion of the configuration of these devices is beyond the scope of these Application Notes. However, it should be noted that SIP and RTP traffic between the Service Provider and Avaya IP Office must be allowed to pass through these devices. TDC sends SIP signalling from one IP address. However, RTP traffic may originate from a different IP address and ports which may vary from customer to customer. Customers will need to work with TDC to determine the proper IP addresses and ports that require access to their network.

4. Equipment and Software Validated

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

Equipment/Software	Release/Version
Avaya	
Avaya IP Office 500 V2	Avaya IP Office R8.1(10.1.67)
Avaya 1603 Phone (H.323)	1.3100
Avaya 1608 Phone (H.323)	1.3100
Avaya IP Office SoftPhone (SIP)	3.056516
Avaya 1140e (SIP)	FW: 04.01.13.00.bin
Avaya 2420 Digital Phone	R 6.0
Avaya 98390 Analogue Phone	N/A
TDC	
Acme Packet SD3820	6.1
Ericsson IMS	11B
Broadsoft Broadworks	R17
Cisco PGW2200	9.8

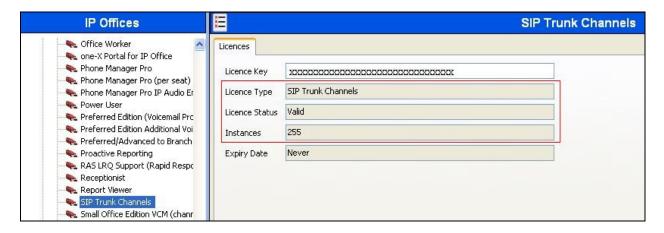
5. Configure Avaya IP Office

This section describes the Avaya IP Office configuration to support connectivity to TDC Business Trunk. Avaya IP Office is configured through the Avaya IP Office Manager PC application. From a PC running the Avaya IP Office Manager application, select Start → Programs → IP Office → Manager to launch the application. Navigate to File → Open Configuration, select the proper Avaya IP Office system from the pop-up window, and log in with the appropriate credentials. A management window will appear similar to the one in the next section. All the Avaya IP Office configurable components are shown in the left pane known as the Navigation Pane. The pane on the right is the Details Pane. These panes will be referenced throughout the Avaya IP Office configuration. All licensing and feature configuration that is not

directly related to the interface with the Service Provider (such as twinning) is assumed to already be in place.

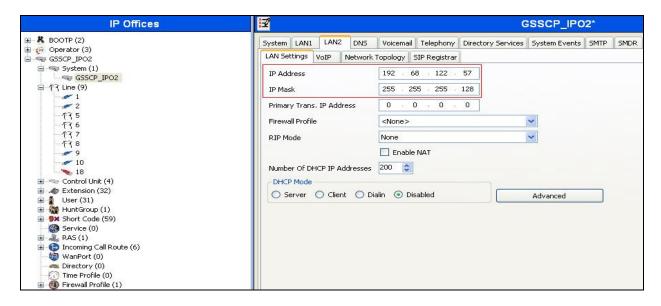
5.1. Verify System Capacity

Navigate to **License** → **SIP Trunk Channels** in the Navigation Pane. In the Details Pane verify that the **License Status** is **Valid** and that the number of **Instances** is sufficient to support the number of SIP trunk channels provisioned by TDC.



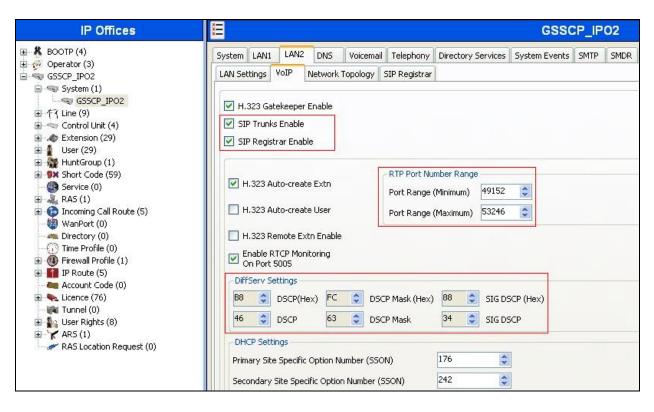
5.2. LAN2 Settings

In the sample configuration, the LAN2 port was used to connect the Avaya IP Office to the external internet. To access the LAN2 settings, first navigate to **System → GSSCP_IPO2** in the Navigation Pane where GSSCP_IPO2 is the name of the IP Office. Navigate to the **LAN2 → LAN Settings** tab in the Details Pane. The **IP Address** and **IP Mask** fields are the public interface of the IP Office. All other parameters should be set according to customer requirements. On completion, click the OK button (not shown).

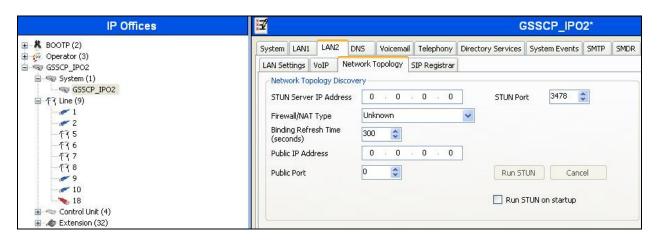


On the **VoIP** tab in the Details Pane, check the **SIP Trunks Enable** box to enable the configuration of SIP trunks. The IP Office Softphone uses SIP. The **RTP Port Number Range** can be customized to a specific range of receive ports for the RTP media. Based on this setting, Avaya IP Office would request RTP media be sent to a UDP port in the configurable range for calls using LAN2.

Avaya IP Office can also be configured to mark the Differentiated Services Code Point (DSCP) in the IP Header with specific values to support Quality of Services policies for both signalling and media. The **DSCP** field is the value used for media and the **SIG DSCP** is the value used for signalling. The specific values used for the compliance test are shown in the example below. All other parameters should be set according to customer requirements. On completion, click the **OK** button (not shown).

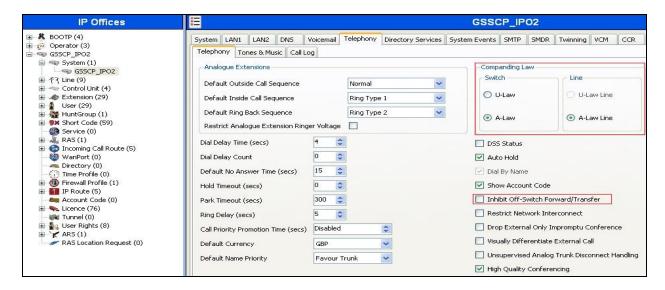


Select the **Network Topology** tab as shown in the following screen. In the sample configuration, the default settings were used and the **Use Network Topology Info** in the **SIP Line** was set to "None" in **Section 5.6**. It is important that the **Binding Refresh Time** is set to the correct value. Avaya IP Office uses this value to send SIP OPTIONS messages periodically to determine if the SIP connection is active. Below is a sample configuration. On completion, click the **OK** button (not shown).



5.3. System Telephony Settings

Navigate to the **Telephony** → **Telephony** tab on the Details Pane. Choose the **Companding** Law typical for the enterprise location. For Europe, ALAW is used. Uncheck the **Inhibit Off-Switch Forward/Transfer** box to allow call forwarding and call transfer to the PSTN via the Service Provider across the SIP trunk. On completion, click the **OK** button (not shown).



5.4. System Twinning Settings

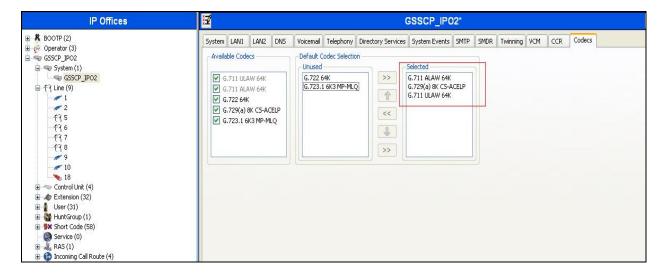
Navigate to the **Twinning** tab, check the box labeled **Send original calling party information for Mobile Twinning**. With this setting, Avaya IP Office will send the original calling party

number to the twinned phone in the SIP From header (not the associated desk phone number) for calls that originate from an internal extension. For inbound PSTN calls to a twinned enabled phone, Avaya IP Office will continue to send the associated host phone number in the SIP From header (used for the caller display). This setting only affects twinning and does not impact the messaging of other redirected calls such as forwarded calls. If this box is checked, it will also override any setting of the **Send Caller ID** parameter on the SIP line (**Section 5.6**). On completion, click the **OK** button (not shown).



5.5. Codec Settings

Navigate to the **Codecs** tab (not shown) on the Details Pane. Check the Available Codecs boxes as required. Note that **G.711 ULAW 64K** and **G.711 ALAW 64K** are greyed out and always available. Once available codecs are selected, they can be used or unused by using the horizontal arrows as required. Note that in test, **G.711 ALAW 64K**, **G.729(a) 8K CS-ACELP** and **G.711 ULAW 64K** were used. The order of priority can be changed using the vertical arrows. On completion, click the **OK** button (not shown).

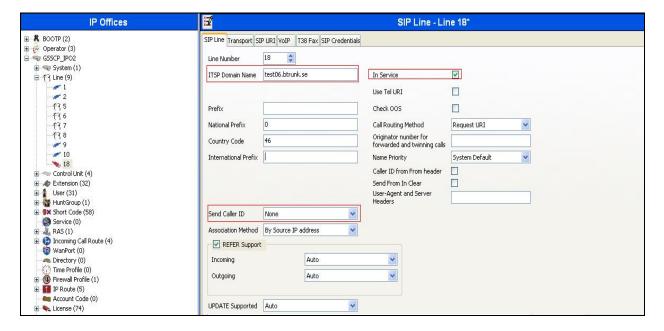


5.6. Administer SIP Line

A SIP line is needed to establish the SIP connection between Avaya IP Office and the TDC Business Trunk. To create a SIP line, begin by navigating to **Line** in the Navigation Pane. Right-click and select **New**-**>SIP Line** (not shown). On the **SIP Line** tab in the Details Pane, configure the parameters below to connect to the SIP Trunking service.

- Set the **ITSP Domain Name** to the domain name provided by TDC Business Trunk
- Set **Send Caller ID** to *None*. This parameter determines how the calling party number is sent in the SIP messaging for twinning if the box labeled **Send original calling party information for Mobile Twinning** is unchecked in **Section 5.4**. This parameter was set to *None* and the box in **Section 5.4** was checked.
- Ensure the **In Service** box is checked
- Default values may be used for all other parameters

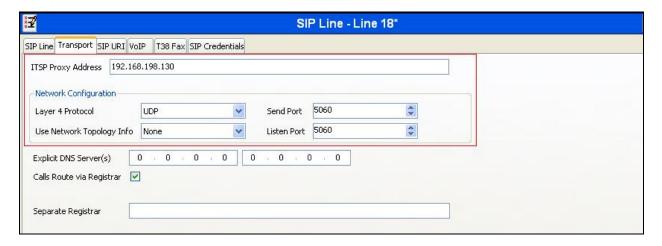
On completion, click the **OK** button (not shown).



Select the **Transport** tab and set the following:

- Set ITSP Proxy Address to the IP address of the TDC SIP proxy
- Set Layer 4 Protocol to UDP
- Set Send Port and Listen Port to 5060
- Set Network Topology to None

On completion, click the OK button (not shown).



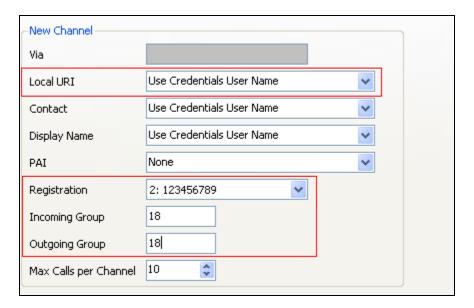
After the SIP line parameters are defined, the SIP URIs that Avaya IP Office will accept on this line must be created. To create a SIP URI entry, first select the **SIP URI** tab. Click the **Add** button and the **New Channel** area will appear at the bottom of the pane.



For the compliance test, a single SIP URI entry was created that matched any number assigned to an Avaya IP Office user. The entry was created with the parameters shown below.

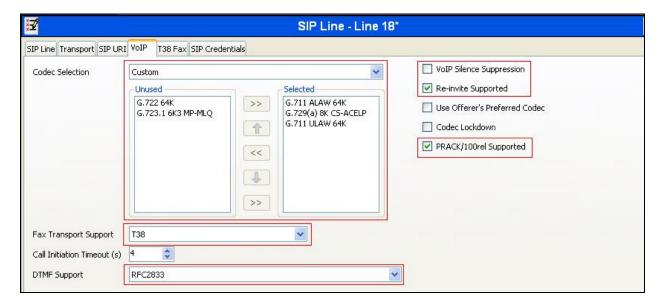
- Set Local URI, Contact, Display Name and PAI to Use Credentials User Name.
- For **Registration**, select *2: 123456789* from the pull-down menu since this configuration uses SIP registration.
- Associate this line with an incoming line group by entering a line group number in the Incoming Group field. This line group number will be used in defining incoming call routes for this line. Similarly, associate the line to an outgoing line group using the Outgoing Group field. The outgoing line group number is used in defining short codes for routing outbound traffic to this line. For the compliance test, a new incoming and outgoing group 18 was defined that was associated to a single line (line 18).

• Set Max Calls per Channel to the number of simultaneous SIP calls that are allowed using this SIP URI pattern.

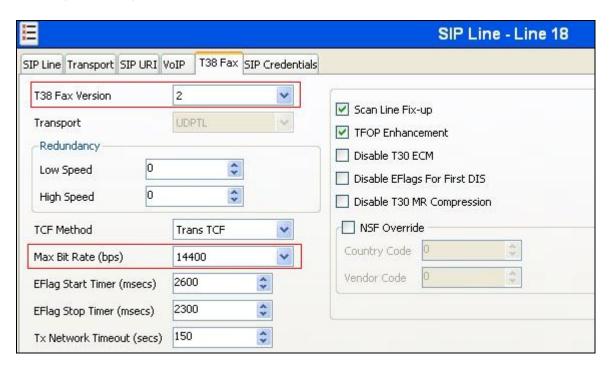


Select the **VoIP** tab, to set the Voice over Internet Protocol parameters of the SIP line. Set the parameters as shown below:

- Select **Custom** from the drop-down menu.
- Select G.711 ALAW 64K, G.729(a) 8K CS-ACELP and G.711 ULAW 64K codec.
- Set the **DTMF Support** field to **RFC2833**. This directs Avaya IP Office to send DTMF tones using RTP events messages as defined in RFC2833.
- Uncheck the **VoIP Silence Suppression** box.
- Select the **Fax Transport Support** box to **T.38**.
- Check the Re-invite Supported box, to allow for codec re-negotiation in cases where the
 target of the incoming call or transfer does not support the codec originally negotiated on
 the trunk.
- Check the **PRACK/100rel Supported** box
- Default values may be used for all other parameters.



Select the **T.38 Fax** tab, to set the T.38 parameters for the line. Un-check the Use Default Values box (not shown) and select **2** from the **T38 Fax Version** drop down menu. Set the **Max Bit Rate** (**bps**) to **14400**. All other field may retain their default values. On completion, click the **OK** button (not shown).



Select the **SIP Credentials** tab to administer registration details provided by TDC. This allows the SIP Trunk to authenticate to the TDC Business Trunk solution. Choose **Add** (not shown) and enter the registration credentials provided by TDC as shown below. Click the **OK** button to complete the SIP line administration.



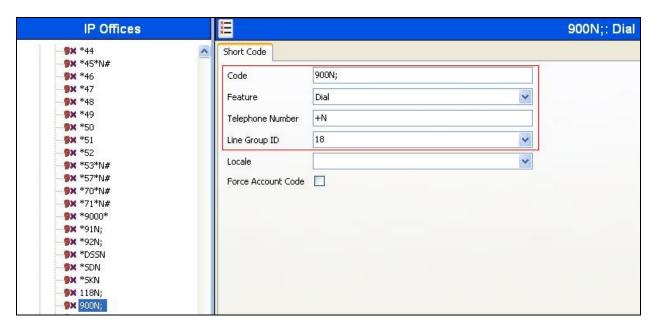
Note: It is advisable at this stage to save the configuration as described in **Section 5.11** to make the Line Group ID available in **Section 5.7**.

5.7. Short Codes

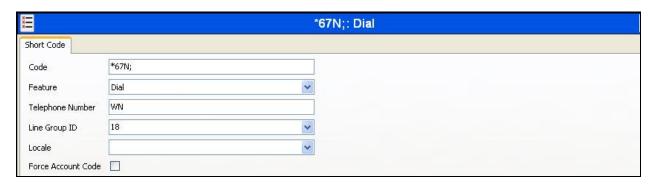
Define a short code to route outbound traffic to the SIP line. To create a short code, right-click **Short Code** in the Navigation Pane and select **New**. On the **Short Code** tab in the Details Pane, configure the parameters as shown below.

- In the **Code** field, enter the dial string which will trigger this short code, followed by a semi-colon
- The example shows **900N**; which will be invoked when the user dials 9 followed by an international number.
- Set **Feature** to **Dial**. This is the action that the short code will perform.
- Set **Telephone Number** to +N which will insert the E.164 number prefixed with a + in the Request URI and To headers in the outgoing SIP INVITE message
- Set the **Line Group Id** to the outgoing line group number defined on the SIP URI tab on the SIP Line in **Section 5.6**

On completion, click the **OK** button (not shown).



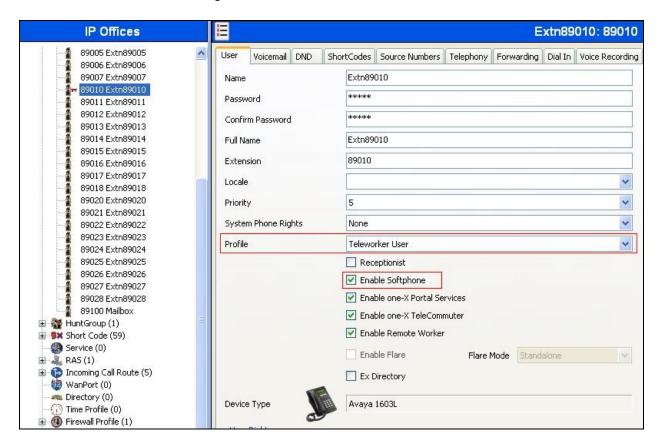
The screenshot below displays an example of a short code *67N; that can be used to withhold the sending of the calling ID number. W is a Telephone Number Field Character used to withhold outgoing CLI. The short code is similar to the shortcode 9N; code used to route outbound traffic to the SIP line except that the Telephone Number field begins with W which will withhold the sending of the calling ID number. Note: This operation is service provider dependent.



5.8. User

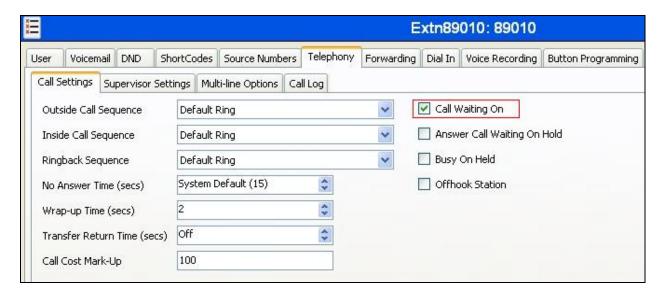
Configure the SIP parameters for each User that will be placing and receiving calls via the SIP line defined in **Section 5.6**. To configure these settings, first navigate to **User** in the Navigation Pane. Select the **User** tab if any changes are required. The example below shows the changes required to use IP Office Softphone which was used in test. Softphone replaced Phone Manager at IP Office 8.0.

- Change the **Name** of the User if required, this will be used for login to the IP Office Softphone
- Select **Teleworker** User from the Profile drop down menu
- Check the **Enable Softphone** box



IP Office Softphone uses SIP for signalling and hence required setting of the **SIP Registrar Enable** as described in **Section 5.2**. Call forwarding and transfer make use of the SIP REFER message. To handle SIP REFER on IP Office, the Call Waiting function is used.

To turn on Call Waiting, navigate to **Telephony→Call Settings**. Check the **Call Waiting On** box.



Next select the **SIP** (not shown) tab in the Details Pane. To reach the **SIP** tab click the right arrow on the right hand side of the Details Pane until it becomes visible. The values entered for the SIP **Name** and **Contact** fields are used as the user part of the SIP URI in the From and Contact headers for outgoing SIP trunk calls. These allow matching of the SIP URI for incoming calls without having to enter this number as an explicit SIP URI for the SIP line (**Section 5.6**). As such, these fields should be set to one of the DDI numbers assigned to the enterprise from TDC.

In the example below, one of the DDI numbers in the test range is used, though only country code, city code and least significant digit are shown. The **SIP Display Name** (**Alias**) parameter can optionally be configured with a descriptive name. On completion, click the **OK** button (not shown).



Note: The **Contact** field must be in E.164 format for the caller ID on the called phone to display properly.

5.9. Incoming Call Routing

An incoming call route maps an inbound DDI number on a specific line to an internal extension. To create an incoming call route, right-click **Incoming Call Route**s in the Navigation Pane and select **New**. On the **Standard** tab of the Details Pane, enter the parameters as shown below:

- Set the Bearer Capacity to Any Voice
- Set the Line Group Id to the incoming line group of the SIP line defined in Section 5.6
- Set the **Incoming Number** to the incoming number that this route should match on. Matching is right to left
- Default values can be used for all other fields



On the **Destinations** tab, select the destination extension from the pull-down menu of the **Destination** field. On completion, click the **OK** button (not shown). In this example, incoming calls to the test DDI number on line 18 are routed to extension 89010.



5.10. Privacy / Anonymous Calls

There are multiple methods for a user to withhold outgoing identification:

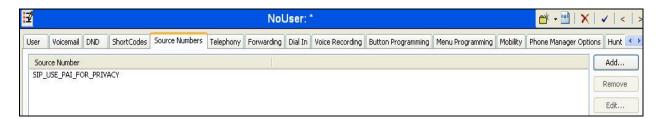
- Dialing the short code *67 to access the SIP Line. (Section 5.6).
- Specific users may be configured to always withhold calling line identification by checking the **Anonymous** field in the **SIP** tab for the user (Section 5.8).
- Avaya Telephones equipped with a "Features" button can also request privacy for a specific call, without dialing a unique short code, using Features → Call Settings → Withhold Number, on the phone itself.

To configure IP Office to include the caller's DID number in the P-Asserted-Identity SIP header, required by TDC Business Trunk to admit an otherwise anonymous caller to the network, the following procedure may be used.

From the Navigation pane, select **User**. From the Group pane, scroll down past the configured users and select the user named **NoUser**. From the NoUser Details pane, select the tab **Source Numbers**. Press the **Add...** button to the right of the list of any previously configured Source Numbers. In the **Source Number** field, type **SIP_USE_PAL_FOR_PRIVACY**. Click **OK**.



The source number SIP_USE_PAI_FOR_PRIVACY should now appear in the list of Source Numbers as shown below.



5.11. Save Configuration

Navigate to File \rightarrow Save Configuration in the menu bar at the top of the screen to save the configuration performed in the preceding sections.

6. TDC Business Trunk Configuration

TDC is responsible for the configuration of the SIP Business Trunk. The customer will need to provide the public IP address used to reach the Avaya IP Office at the enterprise. TDC will provide the customer the necessary information to configure the SIP connection to the SIP Trunking service including:

- IP address of SIP Trunking SIP proxy
- Network SIP Domain
- Supported codecs
- DDI numbers
- All IP addresses and port numbers used for signalling or media that will need access to the enterprise network through any security devices.

7. Verification Steps

This section includes steps that can be used to verify that the configuration has been done correctly.

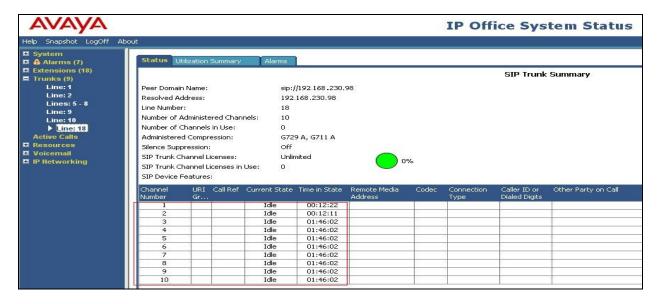
7.1. SIP Trunk status

The status of the SIP trunk can be verified by opening the System Status application. This is found on the PC where IP Office Manager is installed under Start →All Programs →IP Office →System Status (not shown).

Log in to IP Office System Status at the prompt using the **Control Unit IP Address** for the IP Office. The **User Name** and **Password** are the same as those used for IP Office Manager.



From the left hand menu expand **Trunks** and choose the SIP trunk (18 in this instance). The status window will show the status as being **Idle** and time in state if the Trunk is operational. IP address has been changed.



8. Conclusion

These Application Notes describe the procedures required to configure the connectivity between Avaya IP Office and TDC Business Trunk solution as shown in **Figure 1**.

The reference configuration shown in these Application Notes is representative of a basic enterprise customer configuration and demonstrates Avaya IP Office can be configured to interoperate successfully with TDC Business Trunk solution. This solution provides IP Office users the ability to access the Public Switched Telephone Network (PSTN) via a SIP trunk using the TDC Business Trunk.

9. Additional References

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

- [1] Avaya IP Office 8.1 Documentation CD, 16th July 2012.
- [2] Avaya IP Office Installation, Document number 15-601042, 14th August 2012
- [3] Avaya IP Office Manager, Document number15-601011, 3rd August 2012.
- [4] System Status Application, Document number15-601758, 12th November 2011
- [5] IP Office Softphone Installation, 28th September 2011
- [6] IP Office SIP Extension Installation, 3rd October 2011

10. Appendix A: SIP Line Template

Avaya IP Office Release 8.1 supports a SIP Line Template (in xml format) that can be created from an existing configuration and imported into a new installation to simplify configuration procedures as well as to reduce potential configuration errors.

Note that not all of the configuration information, particularly items relevant to a specific installation environment, is included in the SIP Line Template. Therefore, it is critical that the SIP Line configuration be verified/updated after a template has been imported and additional configuration be supplemented using the settings provided in this Application Note as a reference.

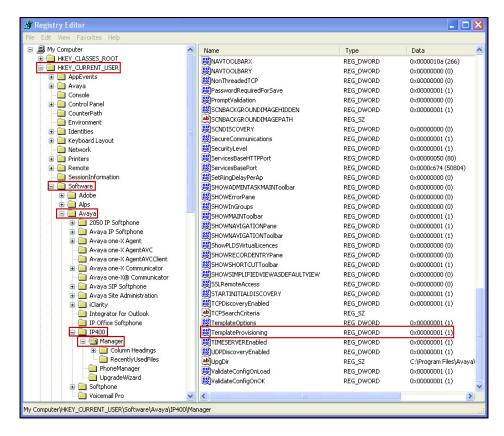
Create a new registry entry called **TemplateProvisioning** and set the **Value data** to **1**, as follows:

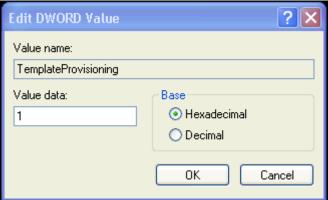
Select Start, and then Run. Type regedit as shown below



Under HKEY_CURRENT_USER, Software, Avaya, IP400, right click on Manager, then select New, DWORD value, then rename the newly created entry to:

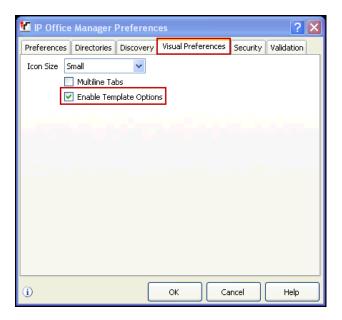
TemplateProvisioning. Right click on the newly created entry and select Modify, change the value under Value Data from "0" to "1".





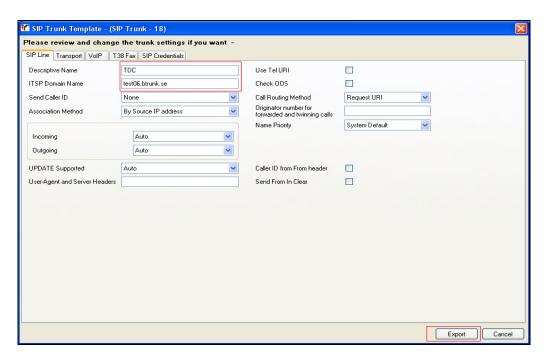
Reboot the computer.

When the computer comes back up, enable the template by opening **IP Office Manager**, select **File**, and then **Preferences**. On the **Visual Preferences** tab, check the **Enable Template Options** box, and click **OK**.

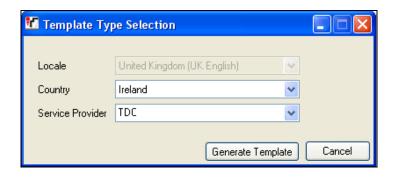


To create a SIP Line Template from the configuration, on the left Navigation Pane, right click on the Sip Line (18), and select Generate SIP Trunk Template (not shown).

Enter a descriptive name; **TDC** was used in the sample template. To generate the template click on **Export**.



On the next screen, **Template Type Selection**, select the **Country**, enter the name for the **Service Provider** and click **Generate Template**.



The following is an example of the exported SIP Line Template file.

```
<?xml version="1.0" encoding="utf-8" ?>
<Template xmlns="urn:SIPTrunk-schema">
<TemplateType>SIPTrunk</TemplateType>
<Version>20130725</Version>
<SystemLocale>eng</SystemLocale>
<DescriptiveName>TDC/DescriptiveName>
<ITSPDomainName>test06.btrunk.se</ITSPDomainName>
<SendCallerID>CallerIDNone</SendCallerID>
<ReferSupport>true</ReferSupport>
<ReferSupportIncoming>2</ReferSupportIncoming>
<ReferSupportOutgoing>2</ReferSupportOutgoing>
<RegistrationRequired>false</RegistrationRequired>
<UseTelURI>false</UseTelURI>
<CheckOOS>false</CheckOOS>
<CallRoutingMethod>1</CallRoutingMethod>
<OriginatorNumber />
<AssociationMethod>SourceIP</AssociationMethod>
<LineNamePriority>SystemDefault</LineNamePriority>
<UpdateSupport>UpdateAuto/UpdateSupport>
<UserAgentServerHeader />
<CallerIDfromFromheader>false</CallerIDfromFromheader>
<PerformUserLevelPrivacy>false</PerformUserLevelPrivacy>
<ITSPProxy>192.168.198.130</ITSPProxy>
<LayerFourProtocol>SipUDP</LayerFourProtocol>
<SendPort>5060</SendPort>
<ListenPort>5060</ListenPort>
<DNSServerOne>0.0.0.0</DNSServerOne>
<DNSServerTwo>0.0.0
<CallsRouteViaRegistrar>true</CallsRouteViaRegistrar>
<SeparateRegistrar />
<CompressionMode>AUTOSELECT</CompressionMode>
<UseAdvVoiceCodecPrefs>true</UseAdvVoiceCodecPrefs>
<AdvCodecPref>G.711 ALAW 64K,G.711 ULAW 64K</AdvCodecPref>
<CallInitiationTimeout>4</CallInitiationTimeout>
<DTMFSupport>DTMF_SUPPORT_RFC2833</DTMFSupport>
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- <VoipSilenceSupression>false</VoipSilenceSupression>
- <ReinviteSupported>true</ReinviteSupported>
- <FaxTransportSupport>FOIP_T38</FaxTransportSupport>
- <UseOffererPrefferedCodec>false/UseOffererPrefferedCodec>
- <CodecLockdown>false</CodecLockdown>
- <Rel100Supported>true</Rel100Supported>
- <T38FaxVersion>2</T38FaxVersion>
- <Transport>UDPTL</Transport>
- <LowSpeed>0</LowSpeed>
- <HighSpeed>0</HighSpeed>
- <TCFMethod>Trans TCF</TCFMethod>
- <MaxBitRate>FaxRate_14400
- <EflagStartTimer>2600</EflagStartTimer>
- <EflagStopTimer>2300</EflagStopTimer>
- <UseDefaultValues>false</UseDefaultValues>
- <ScanLineFixup>true</ScanLineFixup>
- <TFOPEnhancement>true</TFOPEnhancement>
- <DisableT30ECM>false</DisableT30ECM>
- <DisableEflagsForFirstDIS>false/DisableEflagsForFirstDIS>
- <DisableT30MRCompression>false</DisableT30MRCompression>
- <NSFOverride>false</NSFOverride>
- <SIPCredentials>
- <Expiry>60</Expiry>
- <RegistrationRequired>true</RegistrationRequired>
- </SIPCredentials>
- </Template>

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