Alcatel-Lucent OmniPCX Enterprise
Public SIP Trunking
BT WSIPT & One Voice SIP trunk UK

Introduction

The purpose of this document is to outline the configuration requirements for BT One Voice SIP Trunking
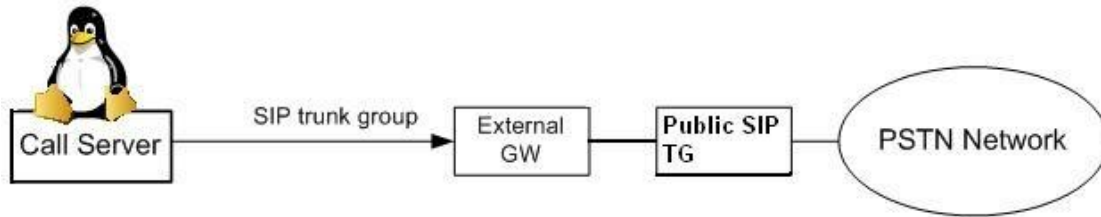
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1. SIP Overview

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Alcatel-Lucent				1

SIP Trunking

Interworking with SIP, either devices or trunks, is achieved through a "Gateway" function that can be thought of as a separate PBX that you need to connect resources to and from :-

In addition, because SIP does not readily transit across a router in order to successfully connect to a SIP provider a Session Border Control element / Application Layer Gateway is required. Alcatel-Lucent have carried out successful tests using Neo-Gate and Ingate SBC products. Examples of the configuration required are given below.

ED	01	Alcatel-Lucent OmniPCX Enterprise SIP Trunks	
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2. PCX Configuration

The steps required to connect to a public SIP operator:-

OXE Prelininary:-

Set PABX Address in DPNSS
Diversion in GF (System/Other/External Signalling Parameters) set to *no*

1.Create a SIP Trunk Group

ED	01	Alcatel-Lucent OmniPCX Enterprise SIP Trunks		
Alcatel-Lucent				**3**

```
┌─Review/Modify: Trunk Groups──────────────────────────────────────────────────┐
│                                                                               │
│           Node Number (reserved) : 101                                        │
│                   Trunk Group ID : 30                                         │
│                                                                               │
│                 Trunk Group Type + T2                                         │
│                 Trunk Group Name : SIP█                                        │
│            UTF-8 Trunk Group Name : -----------------------------------------  │
│            Number Compatible With : -1                                        │
│                   Remote Network : 14                                         │
│              Shared Trunk Group + False                                       │
│                 Special Services + Nothing                                    │
│                     Node number : 1                                           │
│           Transcom Trunk Group + False                                        │
│        Auto.reserv.by Attendant + False                                       │
│        Overflow trunk group No. : -1                                          │
│                  Tone on seizure + False                                      │
│              Private Trunk Group + False                                      │
│              Q931 Signal variant + ISDN all countries                         │
│               SS7 Signal variant + No variant                                 │
│        Number Of Digits To Send : 0                                           │
│           Channel selection type + Quantified                                 │
│                                                                               │
└───────────────────────────────────────────────────────────────────────────────┘
```

Remote Nwk used for Private SIP TG via routing number.

<mark>TG Type ABC-F for local SIP devices.ISDN for external SIP TG</mark>

cont :-

ED	01	Alcatel-Lucent OmniPCX Enterprise SIP Trunks			
Alcatel-Lucent					4

```
┌─Review/Modify: Trunk Groups──────────────────────────────────────┐
│                                                                    │
│             Private Trunk Group + False                            │
│            Q931 Signal variant + ISDN all countries                │
│             SS7 Signal variant + No variant                        │
│      Number Of Digits To Send : 0                                  │
│         Channel selection type + Quantified                        │
│  DTMF dialing on outgoing call + NO                                │
│              T2 Specification + SIP                                 │
│  genous network for direct RTP + NO                                │
│            Public Network COS : 31                                 │
│               DID transcoding + True                               │
│       Can support UUS in SETUP + True                              │
│      Associated Ext SIP gateway : -1                               │
│                                                                    │
│                    Implicit Priority                               │
│                                                                    │
│              Activation mode : 0                                   │
│              Priority Level : 0                                    │
│                                                                    │
│                    Preempter + NO                                  │
│  ncoming calls Restriction COS : 10                                │
│                                                                    │
└────────────────────────────────────────────────────────────────────┘
```

TG Level 2

ED	01	Alcatel-Lucent OmniPCX Enterprise SIP Trunks		
Alcatel-Lucent				**5**

```
lqConsult/Modify: Trunk Groupqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqk
x                                                                          x
x              Node Number (reserved) : 101                                x
x                      Trunk Group Id : 30                                 x
x                 Instance (reserved) : 1                                  x
x                                                                          x
x                     Trunk Group Type + T2                                x
x                   Public Network Ref. : ------                           x
x              VG for non-existent No. + YES                               x
x                       Entity Number : 1                                  x
x                 Supervised by Routing + NO                               x
x        VPN Cost Limit for Incom.Calls : 0                                x
x Immediat Trk Listening For VPNCall + YES                                 x
x                          VPN TS % : 50                                   x
x                     Csta Monitored + NO                                  x
x              Max.% of trunks out CCD : 0                                 x
x              Ratio analog.to ISDN tax : ------                           x
x            TS Distribution on Accesses + YES                             x
x         Quality Profile for Voice on IP + Profile #1                     x
x                    IP compression type + G 711                           x
x                 Use of volume in system + YES                            x
x               Announcement for Dialtone + NO                             x
x                                                                          x
mqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqj
```
cont:-

ED	01	Alcatel-Lucent OmniPCX Enterprise SIP Trunks	
Alcatel-Lucent			**6**

```
lqConsult/Modify: Trunk Groupqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqk
x                                                                      x
x          TS Distribution on Accesses + YES                          x
x     Quality Profile for Voice on IP + Profile #1                    x
x              IP compression type + G 711                            x
x            Use of volume in system + YES                            x
x            Announcement for Dialtone + NO                           x
x            Announcement for Ringtone + NO                           x
x          Private to Public Overflow + YES                           x
x                  Dialling end to end + NO                           x
x            DTMF end to end signal. + NO                             x
x            Trunk group used in DISA + NO                            x
x                    DISA Secret Code : ----                          x
x                Routing To Executive + NO                            x
x                  Trunk Category Id : 31                             x
x          Sending of Progress message + YES                         x
x          Nb of digits unused (ISDN) : 7    ←── For DDI Translator   x
x                    B Channel Choice + YES                           x
x          Channels Reserved By Attend. : 0                          x
x                  Dissuasion For ACD + NO                            x
x                        DTO joining + NO                             x
x          Enquiry Call On B Channel + NO                             x
x                                                                      x
mqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqj
```

Create a NPD entry for the TG.NPI may need to be configured as either National or International to meet the providers requirements. Installation number can be either NPD source or Entity source.

ED	01	Alcatel-Lucent OmniPCX Enterprise SIP Trunks	
Alcatel-Lucent			**7**

```
lqConsult/Modify: Numbering Plan Description (NPD)qqqqqqqqqqqqqqqqqqqqqqk
x                                                                      x
x               Node Number (reserved) : 101                          x
x                  Instance (reserved) : 1                            x
x                  Instance (reserved) : 1                            x
x                  Description identifier : 33                        x
x                                                                      x
x                              Name : SIP                             x
x        Calling Numbering plan ident. + NPI/TON Isdn National        x
x          Called numbering plan ident. + NPI/TON Isdn National       x
x Authorize personal calling num use + False                          x
x                Install. number source + NPD source                 x
x                Default number source + NPD source                  x
x                  Called DID identifier : 0                          x
x        Calling/Connected DID identifier : 0                         x
x                   Installation number : 163588                      x
x        Default number( num. inst. sup.) : 1303                      x
x                                                                      x
   mqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqj
```

Return to the TG and select the NPD:-

ED	01	Alcatel-Lucent OmniPCX Enterprise SIP Trunks	
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```
lqConsult/Modify: Trunk Group NPD Selectorqqqqqqqqqqqqk
x                                                      x
x              Node Number (reserved) : 101            x
x                      Trunk Group Id : 30             x
x              Instance (reserved) : 1                 x
x                                                      x
x                      Public NPD id : 33              x
x                     Private NPD id : 0               x
x               Management Mode + Normal               x
x                                                      x
mqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqj
```

2. Modify the Network Routing Table

ED	01	Alcatel-Lucent OmniPCX Enterprise SIP Trunks		
Alcatel-Lucent				**9**

```
lqConsult/Modify: Network Routing Tableqqqqqqqqqqqqqqqqqqqqqqqqqqqqqk
x                                                                    x
x              Node Number (reserved) : 101                          x
x                Instance (reserved) : 1                             x
x                     Network Number : 14                            x
x                                                                    x
x       Rank of First Digit to be Sent : 1                           x
x       Incoming identification prefix : --------                    x
x                       Protocol Type + ABC_F                        x
x          Numbering Plan Descriptor Id  33                          x
x                       ARS Route list  1                            x
x                    Schedule number : -1                            x
x                     ATM Address Id : -1                            x
x                  Network call prefix : --------                    x
x                          Town Name : --------------------          x
x                     Send Town Name + False                         x
x            Associated SIP gateway : 1                              x
x                        Unable_UTF8 + False                         x
x                                                                    x
mqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqj
```

3. Create an External Gateway

ED	01	Alcatel-Lucent OmniPCX Enterprise SIP Trunks	
Alcatel-Lucent			**10**

```
lqConsult/Modify: External Gatewaysqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqk
x                                                                              x
x               Node Number (reserved) : 101                                   x
x                  Instance (reserved) : 1                                     x
x                           Instance : (1)                                     x
x                                                                              x
x                      Remote domain : 88.215.60.40                            x
x                        Port number : 5060                                    x
x                     Transport type + UDP                                     x
x                   RFC3262 forced use + False                                 x
x               Authentication domain : gw3.theiptele.com                      x
x                    Registration Id : 0001001845824                           x
x        Registration ID in P_Asserted + True                                  x
x                  Registration timer : 32000                                  x
x                     Outbound Proxy : 88.215.60.40                            x
x                    Supervision timer : 0                                     x
x                 Trunk group number : (30)                                    x
x                        Pool Number : -1                                      x
x                     Outgoing realm : gw3.theiptele.com                       x
x                  Outgoing username : 0001001845824                           x
x                                                                              x
x                  Outgoing Password : **********                              x
x                                                                              x
mqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqj
```

Note:- if an External Gateway needs to be modified it is necessary to restart the SIP process with the command *killall sipmotor* or *dh3_init -R SIPMPTOR* dependant on release.
 The TG and Gateway can be seen to come back into service via console.

Proxy

ED	01	Alcatel-Lucent OmniPCX Enterprise SIP Trunks		
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```
lqConsult/Modify: Proxyqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqk
x                                                                              x
x             Node Number (reserved) : 101                                     x
x                Instance (reserved) : 1                                       x
x                Instance (reserved) : 1                                       x
x                                                                              x
x                   Initial timeout : 500                                      x
x                           timer T2 : 4000                                    x
x           SIP connection duration : 180000                                   x
x                   Recursive search + False                                   x
x      Minimal authentication method + None                                    x
x               Authentication realm : ------------------------------------    x
x  Only authenticated incoming calls + True                                    x
x                   Framework Period : 3                                       x
x     Framework Nb Message By Period : 25                                       x
x        Framework Quarantine Period : 1800                                    x
x                                                                              x
mqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqj
```

cont:-

ED	01	Alcatel-Lucent OmniPCX Enterprise SIP Trunks		
Alcatel-Lucent				12

4. Create ARS

Prefix Plan

```
lqConsult/Modify: Prefix Planqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqk
x                                                                              x
x              Node Number (reserved) : 101                                    x
x                 Instance (reserved) : 1                                      x
x                              Number : 0                                      x
x                                                                              x
x                 Prefix Meaning + ARS Prof.Trg Grp Seizure                    x
x                 Discriminator Nr. : (3)                                      x
x                                                                              x
mqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqj
```

Entity Discriminator

```
lqConsult/Modify: Discriminator Selectorqqqqqqqqqqqqqqqk
x                                                      x
x              Node Number (reserved) : 101            x
x                        Entity Number : 1             x
x                   Instance (reserved) : 1            x
x                                                      x
x                      Discriminator 00 : (3)          x
x                      Discriminator 01 : 0            x
x                      Discriminator 02 : 0            x
x                      Discriminator 03 : 0            x
x                      Discriminator 04 : 0            x
x                      Discriminator 05 : 0            x
x                      Discriminator 06 : 0            x
x                      Discriminator 07 : 0            x
x                                                      x
mqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqj
```

ED	01	Alcatel-Lucent OmniPCX Enterprise SIP Trunks	
Alcatel-Lucent			**13**

```
lqConsult/Modify: Discriminator Ruleqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqk
x                                                                             x
x              Node Number (reserved) : 101                                   x
x                Instance (reserved) : 1                                      x
x                Instance (reserved) : 1                                      x
x                 Discriminator Nr. : 3                                       x
x                      Call Number : 0                                        x
x                                                                             x
x                      Area Number : 1_                                       x
x            ARS Route List Number  1                                         x
x                  Schedule Number : -1                                       x
x                 Number of Digits : 255                                      x
x                                                                             x
mqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqj
```

Discriminator

ARS Route

```
lqConsult/Modify: ARS Routeqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqk
x                                                                              x
x              Node Number (reserved) : 101                                    x
x                 Instance (reserved) : 1                                      x
x                 Instance (reserved) : 1                                      x
x                     ARS Route list : 1                                       x
x                             Route : 1                                        x
x                                                                              x
x                              Name : SIP_                                     x
x             Trunk Group Source + Route                                       x
x                       Trunk Group : 30                                       x
x           Nb.Digits To Be Removed : 0                                        x
x                     Digits To Add : _____             x
x        Numbering Command Tabl.Id : 1                                         x
x                    VPN Cost Limit : 0                                        x
x                    Protocol Type + Dependant on Bundle Type                  x
x                    NPD identifier : 33                                       x
x                        Route Type + Public                                   x
x                    ATM Address Id : -1                                       x
x                         Preempter + False                                    x
x                                                                              x
x                             Quality                                          x
x                                                                              x
mqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqj
```

cont:-

ED	01	Alcatel-Lucent OmniPCX Enterprise SIP Trunks	
Alcatel-Lucent			**15**

Dialing command table

```
lqConsult/Modify: Numbering Command Tableqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqk
x                                                                                x
x               Node Number (reserved) : 101                                     x
x                  Instance (reserved) : 1                                       x
x                  Instance (reserved) : 1                                       x
x                             Table Id : 1                                       x
x                                                                                x
x                    Carrier Reference : 0                                       x
x                              Command : I                                       x
x                Associated SIP gateway : 1                                      x
x                                                                                x
mqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqj
```

5. Add an entry in the DDI Translator to route incoming calls

```
lqConsult/Modify: Default DDI Num. Translatorqqqqqqqqqqqqqqqqqqqqqqqqqqqqqk
x                                                               x
x               Node Number (reserved) : 101                    x
x                  Instance (reserved) : 1                      x
x                  Instance (reserved) : 1                      x
x               First External Number : 441563590906            x
x                                                               x
x                First Internal Number : 2502                   x
x                           Range Size : 1                      x
x               Unique Internal Number + NO                     x
x                                                               x
mqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqj
```

ED	01	Alcatel-Lucent OmniPCX Enterprise SIP Trunks		
Alcatel-Lucent				16

6. Add the appropriate country code which will be added to the SIP messages. System/Other/

```
lqConsult/Modify: Signalling Stringqqqqqqqqqqqqqqqqqqqqk
x                                                      x
x              Node Number (reserved) : 101            x
x                 Instance (reserved) : 1              x
x                 Instance (reserved) : 1              x
x            String System Option + Country Code       x
x                                                      x
x            Option max.len. (fixed) : 8              x
x                       Country Code : 44              x
x                                                      x
mqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqj
```

```
-Review/Modify: Trunk group NPD selector-

                Node Number (reserved) : 101
                       Trunk Group ID : 30
                   Instance (reserved) : 1

                       Public NPD ID : 33
                      Private NPD ID : 0
                    Management Mode + Normal
```

```
┌─Review/Modify: SIP Ext Gateway──────────────────────────────────────────────

                Node Number (reserved) : 101
                    Instance (reserved) : 1
                SIP External Gateway ID : 1

                           Gateway Name : VF
                      SIP Remote domain : 146.101.248.200
                         PCS IP Address : ------------------------------------------------
                        SIP Port Number : 5060
                     SIP Transport Type + UDP
                     RFC3262 Forced use + False
                       Belonging Domain : sip.voiceflex.com
                        Registration ID : 84414927
            Registration ID P_Asserted + True
                     Registration timer : 900
                      SIP Outbound Proxy : -------------------------------------------------
                       Supervision timer : 0
                     Trunk group number : 30
                            Pool Number : -1
                        Outgoing realm : voiceflex
                      Outgoing username : 84414927

                      Outgoing Password : ********
                                Confirm : ********

                      Incoming username : -------------------------------------------------

                      Incoming Password : ----------
                                Confirm : ----------

        RFC 3325 supported by the distant + True
                               DNS type + DNS A
                   SIP DNS1 IP Address : 8.8.8.8
                   SIP DNS2 IP Address : 8.8.4.4
```

```
              Incoming username : ------------------------------------------------

              Incoming Password : ----------
                        Confirm : ----------

 RFC 3325 supported by the distant + True
                       DNS type + DNS A
          SIP DNS1 IP Address : 8.8.8.8
          SIP DNS2 IP Address : 8.8.4.4
                   SDP in 18x + False
     Minimal authentication method + SIP Digest
 INFO method for remote extension + False
         Send only trunk group algo + False
                       To EMS + False
        ExtGateway Force Forward + False
     Dynamic Payload type for DTMF : 101
```

ED	01	Alcatel-Lucent OmniPCX Enterprise SIP Trunks		
Alcatel-Lucent				**20**

```
─Review/Modify: Numbering Plan Description (NPD)──────────────────

                Node Number (reserved) : 101
                   Instance (reserved) : 1
                   Instance (reserved) : 1
                 Description identifier : 33

                                  Name : SIP
       Calling Numbering plan ident. + NPI/TON: ISDN Unknown
        Called numbering plan ident. + NPI/TON: ISDN Unknown
   Authorize personal calling num use + True
              Install. number source + None used
              Default number source + None used
                 Called DID identifier : 0
      Calling/Connected DID identifier : 0
```

ED	01	Alcatel-Lucent OmniPCX Enterprise SIP Trunks			
Alcatel-Lucent					21

```
┌─Review/Modify: SIP Gateway────────────────────────────────────────────────┐
│                                                                            │
│              Node Number (reserved) : 101                                  │
│                  Instance (reserved) : 1                                   │
│                  Instance (reserved) : 1                                   │
│                                                                            │
│                     SIP Subnetwork : 10                                    │
│                    SIP Trunk Group : 30                                    │
│                         IP Address : 217.34.71.217                         │
│             Machine name – Host : node000000                               │
│             SIP Proxy Port Number : 5060                                   │
│        SIP Subscribe Min Duration : 1800                                   │
│        SIP Subscribe Max Duration : 86400                                  │
│                      Session Timer : 3600                                  │
│                  Min Session Timer : 1800                                  │
│              Session Timer Method + RE_INVITE                              │
│              DNS local domain name : ------------------------------------- │
│                           DNS type + DNS A                                 │
│               SIP DNS1 IP Address : --------------------------------------- │
│               SIP DNS2 IP Address : --------------------------------------- │
│                         SDP in 18x + False                                 │
│                        Cac SIP-SIP + False                                 │
│       INFO method for remote extension + False                            │
│          Dynamic Payload type for DTMF : 97                                │
│                                                                            │
└────────────────────────────────────────────────────────────────────────────┘
```

ED	01	Alcatel-Lucent OmniPCX Enterprise SIP Trunks			
Alcatel-Lucent					22

```
┌─Review/Modify: Trunk Group──────────────────────────────────────────┐
│                                                                      │
│              Node Number (reserved) : 101                            │
│                     Trunk Group ID : 30                              │
│                 Instance (reserved) : 1                              │
│                                                                      │
│                   Trunk Group Type + T2                              │
│                  T2 Specification + SIP                              │
│              Public Network Ref. : ------                            │
│          VG for non-existent No. + YES                               │
│                    Entity Number : 1                                 │
│              Supervised by Routing + NO                              │
│      VPN Cost Limit for Incom.Calls : 0                              │
│    Immediate Trk Listening if VPNCall + YES                          │
│                        VPN TS % : 50                                 │
│              CSTA-Monitored + NO                                     │
│          Max.% of trunks out CCD : 0                                 │
│          Ratio analog.to ISDN cost : ------                          │
│        TS Distribution on Accesses + YES                             │
│      Quality profile for voice over IP + Profile #1                  │
│              IP Compression Type + G 711                             │
│          Use of volume in system + YES                              │
│        Announcement for dial tone + NO                               │
│        Announcement for Ring tone + NO                               │
│        Private to Public Overflow + YES                             │
│              End-to-end dialing  + NO                                │
│          DTMF end-to-end signal. + NO                               │
│        Trunk group used in DISA + YES                               │
│                DISA Secret Code : ----                               │
│            Routing To Manager + NO                                   │
│                    Trunk COS : 31                                    │
│        Sending of Progress message + YES                             │
│        No. of digits unused (ISDN) : 0                               │
│                B Channel Choice + YES                               │
│    Channels: Attendant Control (Rsvd) : 0                            │
└──────────────────────────────────────────────────────────────────────┘
```

E					
Alcatel-Lucent					**23**

```
┌─Review/Modify: Trunk Groups──────────────────────────────────────────┐
│                                                                       │
│             Node Number (reserved) : 101                              │
│                    Trunk Group ID : 30                                │
│                                                                       │
│                  Trunk Group Type + T2                                │
│                  Trunk Group Name : SIP                               │
│             UTF-8 Trunk Group Name : ------------------------------------------- │
│             Number Compatible With : -1                               │
│                   Remote Network : 14                                 │
│               Shared Trunk Group + False                              │
│                 Special Services + Nothing                            │
│                     Node number : 1                                   │
│            Transcom Trunk Group + False                               │
│          Auto.reserv.by Attendant + False                             │
│           Overflow trunk group No. : -1                               │
│                  Tone on seizure + False                              │
│               Private Trunk Group + False                             │
│               Q931 Signal variant + ISDN all countries                │
│                SS7 Signal variant + No variant                        │
│            Number Of Digits To Send : 0                               │
│               Channel selection type + Quantified                     │
│      Auto.DTMF dialing on outgoing call + NO                          │
│                  T2 Specification + SIP                               │
│      Homogenous network for direct RTP + NO                           │
│                  Public Network COS  : 31                             │
│                     DID transcoding + True                            │
│                Can support UUS in SETUP + True                        │
│                                                                       │
│                         ▒Implicit Priority▒                           │
│                                                                       │
│                  Activation mode : 0                                  │
│                   Priority Level : 0                                  │
│                                                                       │
│                     Preempter + NO                                    │
└───────────────────────────────────────────────────────────────────────┘
```

E					
Alcatel-Lucent					**24**

Maintenance Commands

Verify ARS management with *lookars I* and NPD with *looknpd*

trkstat to see the status of the SIP TG

represent shows the in call status

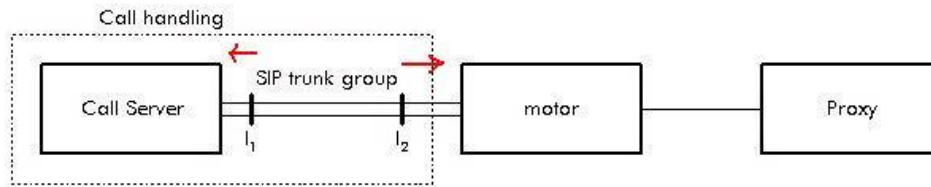*sipextgw* shows the configuration of the SIP Extl Gateway

Incidents 5800/5801 show a SIP TG out-ot-service.
Incidents 5812/5813 show the TG returning to service.

Traces

Traces can be activated at three levels:-

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I1 faces towards the Call Handling I2 faces towards the SIP Motor.
The motor creates the SIP messages from the data sent from I2.

To trace between I1 and I2:-

tuner +cpl +cpu
tuner hybrid=on
mtracer –a

More usefully you can trace the actual sip messages between the motor and proxy:-

cd /usr2/servers
motortrace x (select 2 or 3 as directed by R&D)
traced

Traces using Wireshark

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```
Method: INVITE
  [Resent Packet: False]
Message Header
  Record-Route: <sip:88.215.60.40;ftag=2a605e288b4ad972;lr=on>
  Via: SIP/2.0/UDP 88.215.60.40;branch=z9hG4bK818a.ec2cce67.0
  Via: SIP/2.0/UDP 88.215.60.41:5061;branch=z9hG4bK-d8754z-17ee3f011298171b-1---d8754z-;rport=5061
  Max-Forwards: 16
  Contact: <sip:1628777906@88.215.60.41:5061>
  To: <sip:441563590906@88.215.60.40>
  From: <sip:1628777906@gw3.theiptele.com:5061>;tag=2a605e288b4ad972
  Call-ID: YmUzNmQxZTYwNDg4NzU0MDhkMTE1NDg1MmE4MjM3MjE.
  CSeq: 102 INVITE
  Content-Type: application/sdp
  P-Asserted-Identity: <sip:1628777906@gw1.man1.theiptele.com>
  Remote-Party-ID: <sip:1628777906@gw1.man1.theiptele.com>;party=calling;id-type=subscriber;screen=yes;privacy=off
  Content-Length: 263
  Req-Proxy: 0001001845824
```



```
Method: INVITE
  [Resent Packet: False]
Message Header
  Record-Route: <sip:88.215.60.40;ftag=2a605e288b4ad972;lr=on>
  Via: SIP/2.0/UDP 88.215.60.40;branch=z9hG4bK818a.ec2cce67.0
  Via: SIP/2.0/UDP 88.215.60.41:5061;branch=z9hG4bK-d8754z-17ee3f011298171b-1---d8754z-;rport=5061
  Max-Forwards: 16
  Contact: <sip:1628777906@88.215.60.41:5061>
  To: <sip:441563590906@88.215.60.40>
  From: <sip:1628777906@gw3.theiptele.com:5061>;tag=2a605e288b4ad972
  Call-ID: YmUzNmQxZTYwNDg4NzU0MDhkMTE1NDg1MmE4MjM3MjE.
  CSeq: 102 INVITE
  Content-Type: application/sdp
  P-Asserted-Identity: <sip:1628777906@gw1.man1.theiptele.com>
  Remote-Party-ID: <sip:1628777906@gw1.man1.theiptele.com>;party=calling;id-type=subscriber;screen=yes;privacy=off
  Content-Length: 263
  Req-Proxy: 0001001845824
```

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