# Mitel MiContact Center Enterprise

OPEN APPLICATION SERVER
MX-ONE CONFIGURATION - USER GUIDE

Release 9.3

**Ⓜ Mitel®**

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# INTRODUCTION

Open Application Server (OAS) supports the MX-ONE PBXs, the MX-ONE Telephony Server (TSE) and MX-ONE Telephony Server Telephony Switch (TSW).

The PBX must be configured to support OAS to maximize available functionality. This document describes the configuration and software requirements to enable the telephone switch to support OAS:

- MX-ONE software requirements

- OAS Uniform Numbering Plan

- Configuring digital and analog extensions

- Configuring the NIU interface

- Configuring CTI groups

- Configuring routes and trunks

- Configuring the ISDN connection to the Media Server

- Configuring the analog extensions as Media Ports

- Configuring the IP extensions as Media Ports

- Configuring Agent Monitoring

- Configuring SIP Domain

# MX-ONE SOFTWARE REQUIREMENTS

The Software versions supported by OAS are stated in the document Compatibility Matrix, MiContact Center Enterprise in the CPI or on the Info Channel.

# OAS UNIFORM NUMBERING PLAN

In general, OAS requires a uniform numbering plan (referred to as a coordinated numbering plan in MX-ONE terminology). According to the uniform numbering plan, all devices to be monitored must be uniquely identified using the same number no matter where each is located in the private network. This applies to physical, logical, and virtual devices.

## EXAMPLE

See Figure 1 below for an example of a network numbering plan that fulfills the OAS uniform numbering plan requirement. In this example, you dial the number 2XXX directly to reach any physical or logical device in Node 2 from Node 1. There can be no explicit node IDs or access codes (compare with area codes) to dial. Instead, the routing algorithm in the MX-ONE is configured to recognize the leading 2 in the dialed number to be an implicit access code for the

route to Node 2.
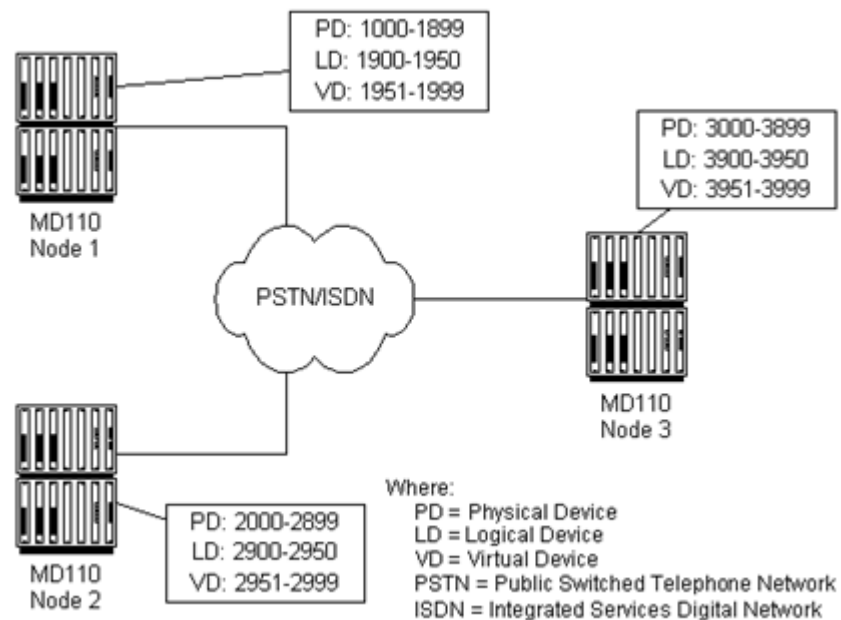


**Figure 1: Sample network numbering plan**

Virtual devices are represented by CTI group directory numbers in the MX-ONE. CTI groups representing virtual devices in different nodes follow the same numbering plan. In a single node, several CTI group numbers can be assigned to a single Basic Virtual Device (BVD).

In this example, the Virtual Device TelephonyBank is configured to be accessed (represented) through the CTI Group number range 1957 through 1960 in Node 1 (see the *OAS Software Configuration* section for details).

**Note**: For configuration of a multi node network in a MiContact Center Enterprise environment, see document *Virtual Contact Center Configuration.*

# CONFIGURING DIGITAL AND ANALOG EXTENSIONS

All extensions in the OAS Network Resource Manager domain can be monitored and can provide a unified call ID to the application. These digital and analog extensions must be configured in the MX-ONE to meet the following conditions:

1. Calling party number and called party number can be sent over the private network

2. Calling party number and called party number can be displayed on the digital or IP/SIP telephone set display

3. This is accomplished by setting certain values in specific parameters of the following commands:

4. In the ADC parameter of the MX-ONE commands Extension Initiate (EXTEI) and Key System Extension Initiate (KSEXI)

5. In the SERV parameter of the Route Categories Initiate (ROCAI) command

See table 1 Digital and Analog Extension parameters on page 8 for a description of the parameters for the **KSEXI** and **EXTEI** commands that are relevant to OAS. For information about the **ROCAI** command, see table 8 Configuring Routes and Trunks on page 16.

**Table 1:  Digital and Analog Extension parameters**

| PARAMETER | DESCRIPTION | MANDATORY VALUE |
|---|---|---|
| **Extension Initiate (EXTEI) Command** | | |
| **ADC** | Directory number presentation is allowed both internally and over a private network. (D3=0) | 000**0**000001 |
| | Directory number of the extension is allowed to be sent to the public exchange. (D9=1) | 00000000**1** |
| **Key System Extension Initiate (KSEXI) Command** | | |
| **ADC** | Directory number presentation is allowed both internally and over a private network. (D4=0) | 000**0**0000010000<br><br>**(example for MX-ONE TSW ASB 501 04 R12)** |

| PARAMETER | DESCRIPTION | MANDATORY VALUE |
|---|---|---|
| | Directory number of the extension is allowed to be sent to the public exchange. (D10=1) | 00000000010000 **(example for MX-ONE TSW ASB 501 04 R12)** |
| **IP, Mobile and Free Seating Extensions, General Extensions Initiate (GESPI) Command** | | |
| **NPRES** | D1=1 Request A-number from PSTN is not restricted. D2=0 Directory number presentation is allowed both internally and over a private network. D3=1 Directory number of the extension is allowed to be sent to the public exchange. | **1010 (example for MX-ONE TSW ASB 501 04 R12)** |

📝 **Note**: Multiple Directory Number (MDN) or Monitoring Key (MNS) - The Agent Directory Number cannot be assigned as a Multiple Directory Number (MDN) on other Digital Telephone Set (DTS) telephones, or as a Monitoring Key (MNS) on other Digital Telephone Set (DTS) or an IP-phone.

## MX-ONE TSW

EXTEI:DIR=1012,EQU=1-1-40-02,ITYPE=EL6,CAT=1,ADC=000000001;

KSEXI:DIR=1112,EQU=1-1-30-02,ITYPE=20,CAT=1,ADC=000000000100000;
GESPI:CSP=4,NPRES=1010,...;

For more information about the configuration of digital key system telephones and analog telephones, refer to MX-ONE documents *Operational Directions, Digital Key System Telephone, KS* and *Operational Directions, Analogue Extension, EX.*

# CONFIGURING THE NIU INTERFACE

This section describes the configuration of the NIU Interface for MX-ONE.

## MX-ONE TELEPHONY SWITCH (TSW)

Each CTI (ApplicationLink) Server in the OAS is connected to the MX-ONE TSW software through a logical TCP/IP connection to one or more NIU boards for call control of physical and logical devices.

For optimum performance, it is recommended that one NIU board be installed in every LIM that contains any object related to the CTI Server (that is, any telephone device or ACD/CTI group). This will distribute the load between the LIMs.

The NIU interface to OAS is initiated using commands from Command Groups IO and CS. For more detailed information about how to use these commands, refer to the MX-ONE document *Operational Directions, Computer Supported Telecommunications Applications, CS*.

### COMMANDS

Following are examples of the commands required to initiate and configure an NIU board:

1.  Initiate the NIU board by entering the command:

**IOBPI:BPOS=bpos,NODE=node;**

where bpos is the NIU board position (for example 1-0-20), and node is a device name identifying the board (for example NIU1).

2.  Set the IP address for the NIU board:

**IONPC:EQU=equ_pos,IP=ip_addr,GATE=gateway,MASK=mas k;**

where equ_pos is the NIU equipment position for networking (for example. 1-0-20-4), ip_addr is the IP address of the board (for example 195.100.113.121), gateway is the gateway address (for example 195.100.113.1), and mask is the subnet mask (for example 255.255.255.0).

3.  Initiate the network port of the NIU board:

**IOEQI:EQU=equ_pos,IODEV=iodev,TYPE=NETWORK,USAGE=OUT;**

where iodev is a device name identifying the port (for example CSTA1).

**4.** Initiate the CSTA application on the NIU board:

**IONCI:IODEV=iodev,USER=CSTA,LPORT=port;**

where port is the TCP/IP port number used for communication (Range : 0 to 65535) (for example 2599).

**5.** Initiate a Link Group (identifying the Application Link server) for each Application Link server:

**CSTLI:IODEV=iodev,LGRP=linkgroup;**

where linkgroup is typically the host name of the Application Link server.

**6.** Use the following print commands to verify the initialization of the NIU and Link Group:

**IODDP; Prints initiations of all NIU boards**

**IONPP; Prints network parameters of all NIU boards**

**IONCP; Prints all initiated CSTA Applications**

**CSTLP; Prints all initiated Link Groups and their state**

**Note**:  The IP Address, port number and Link Group name configured here must also be configured in OAS. See document OAS Software Configuration for details.

# MX-ONE TELEPHONY SYSTEM

## INITIATE AND CONFIGURE CSTA PHASE I INTERFACE, APPLICATIONLINK

Each CTI (ApplicationLink) Server in the OAS is connected to the MX-ONE through a logical TCP/IP connection to one or more LIMs for call control of physical and logical devices.

For optimum performance, it is recommended that one connection be configured in every LIM that contains any object related to the CTI Server (that is, any telephone device or ACD/CTI group). This will distribute the load between the LIMs.

The CSTA interface to OAS is initiated using commands from Command Groups CS. For more detailed information about how to use these commands, refer to the MX-ONE document *Operational Instructions; Computer Supported Telecommunications Applications, CS*

## COMMANDS

Following are examples of the commands required to initiate and configure a CSTA interface:

**1.** Initiate a Link Group (identifying the ApplicationLink server) for each ApplicationLink server:

**CSTLI:LGRP=link_group,LPORT=port,IP=ip_addr, LIM=lim_number,
SERV=service_category;**

where link_group is typically the host name of the ApplicationLink server, port is the TCP/IP port number used for communication (for example 2599), ip_addr is the IP address of the MX-ONE host (for example 195.100.113.121), lim_number is the LIM number and service_category to the link group for CSTA deflect and for sending encryption keys of H323/SIP extensions.

**2.** Use the following print commands to verify the initialization of the NIU and Link Group:

**CSTLP; Prints all initiated Link Groups and their state**

**Note**: The IP Address, port number and Link Group name configured here also must be configured in OAS. See document *OAS Software Configuration* for details.

## INITIATE AND CONFIGURE CSTA PHASE III XML INTERFACE, X-LINK

The following sections are examples of the commands required to initiate and configure a CSTA Phase III XML interface, X-LINK.

1. Initiate a CSTA III interface:

*csta –i –lim x –csta-serv zzzzzzzz*

Computer Supported Telecommunications Applications Initiate.

Command Usage:

**csta -i --lim x [ --port y ] –csta-serv zzzzzzzz**

Where x is the LIM Number, y is the port number to be used (default is 8882) and z is the service-characteristics.

Example : **csta -i -lim 1 –port 8882 –csta-serv 00000000**

**Note**: The first byte of the csta-serv parameter must be set to 0 when OAS is used and the fifth byte should be set to 0 (Local View)

2.  Print data for a CSTA III interface:

**csta –p –lim x [--devices] [--servers]**

The command is used to print the initialized CSTA Server's information or CSTA monitored device information for the stated LIMs.

*Command Usage:*

Servers: **csta -p -servers -lim x**

Devices: **csta -p -devices -lim x**

where x is the LIM number.

Examples: **csta –p –servers –lim 1**

   **csta -p –devices –lim 2**

3.  Terminate the CSTA Server:

**csta -e --lim x –port y**

where x is the LIM number and y is the port number

Example:

Terminate the CSTA Server in LIM 1.

**csta -e --lim 1 –port 8882**

---

📝 | **Note**: For the complete command description of the CSTA Phase III commands, refer to the document *Technical Reference Guide, Unix commands Description (201/190 82-ANF 901 14 Uen)* In the MX-ONE CPI library.

# CONFIGURING CTI GROUPS

As described in table 4 OAS Uniform Numbering Plan on page 6, a virtual device in the OAS is mapped to a range of CTI groups per

MX-ONE node in the private network. All calls to be handled at the virtual device need to be assigned a queue record in the queue to the CTI group. The following factors need to be considered when configuring CTI groups:

1. There are a limited number of queue records per MX-ONE LIM.

   Therefore, CTI groups must be configured carefully so that they will be assigned a proper number of queue records.

2. Since CTI groups are a special type of Automatic Call Distribution (ACD) queue, if regular ACD is used in the MX-ONE, the CTI groups available are shared with the number of ACD queues available.

The following list shows a number of parameters for queue records and

CTI groups parameters for MX-ONE TSW.

- Queue Records per CTI Group

- Queue Records per LIM

- CTI Groups per LIM

- CTI Groups per System

For current capacity values of the parameters, see *MX-ONE Feature* Matrix in MX-ONE documentation.

> **Note**: The values are shared between ACD queues and CTI groups. Each CTI group is initiated using the Automatic Call Distribution Group.

Initiate (ACGRI) command. For more information on how to use this and other ACD related commands, refer to the MX-ONE document *Operational Directions, Automatic Call Distribution, AC.* The parameters relevant to OAS are described in more detail in the following table.

**Table 2:   Parameter description**

| PARAMETER | DESCRIPTION | MANDATORY VALUE |
|---|---|---|
| **Automatic Call Distribution Group Initiate (ACGRI) Command** | | |
| **QUE** | Dynamic queue is not used. (D1=0) | 00232500125 |
| | In MX-ONE TSW system, maximum queue length is nnn,where nnn = 0-250. (D5D6D7=250) | 00232500125 |
| | In MX-ONE TSE, the total maximum queue length in a LIM is 5000. That means that in order to initiate 1024 CTI groups per LIM (The limit for MX-ONE TSW is 32), the average maximum queue length per CTI can not be more than 4 (1024*4<5000) | **00231000125 (example for MX-ONE TSE. max queue 100 which would allow for 50 CTI groups in a LIM)** |
| **SERV** | D1 = 1CTI group is open for direct in-dialing traffic. | **10210 (example for MX-ONE TSW)** |
| | D2* =0 Music-on-Hold not provided | **10010 (example for MX-ONE)** |
| | 1 Music-on-Hold not provided | **102100 (example for MX-ONE 4.1)** |
| | 2 Music-on-Hold is provided only if recorded announcement has been provided | |
| | 3 Music-on-Hold is provided only for calls thatreenter a | |
| | queue after being deflected with maintain queue position | |
| | D4 = 1CTI group is classified as a CTI group. | |
| | D6 =0 Automatic extending | |
| | not permitted for queued calls. | |
| | 1 Automatic extending permitted for queued calls. | |
| | 2 Automatic extending required for queued calls, | |
| | regardless which extending option the operator has selected. | |
| | Note*: D2 is used in MX-ONE TSW only for Music on Hold | |

## EXAMPLES

- The following example initiates a group with 250 queue positions in a MX-ONE TSW system:

  **ACGRI:GRP=3700,SERV=10210,TRAF=15,SEL=11005, QUE=00202500101,LIM=1;**

- The following example initiates a group with 250 queue positions in a MX-ONE TSE system:

  **ACGRI:GRP=3700,SERV=102100,TRAF=15,SEL=11005, QUE=00202500101,LIM=1;**

# CONFIGURING ROUTES AND TRUNKS

As described in OAS Uniform Numbering Plan, the network must be configured with a uniform numbering plan for the system to work properly. In addition, MX-ONE parameters concerned with routes and trunks between MX-ONE nodes in the private network also must be configured correctly. These parameters are set using three different commands:

1. Route Categories Initiate (ROCAI)

2. Route Data Initiate (RODAI)

3. Route Destination Data Initiate (RODDI)

For more information on how to use these commands, refer to the

MX-ONE document Operational Directions, Route Data, RO. The parameters relevant to OAS are described in the following table.

**Table 3: Parameter description**

| PARAMETER | DESCRIPTION | MANDATORY VALUE |
|-----------|-------------|-----------------|
| **Route Categories Initiate (ROCAI) Command** | | |
| SIG | Network services are enabled for the routes between MX-ONE TSWs. (D12=1) | 511110100031 |
| SERV | Presentation of called and calling party number is controlled by the called party's presentation category. (D8=0) | 3110000000 |

| PARAMETER | DESCRIPTION | MANDATORY VALUE |
|---|---|---|
| **Route Data Initiate (RODAI) Command** | | |
| **VARI** | Support of UUS services is set to no request service in the configuration of both ends of the route.  (D2=5, D3=4)<br><br>ECMA QSIG is selected, general protocol updates is set to no, and DSS1 network side is not supported.  (D4=0) | 05400000 |
| **VARO** | D1=0 UI-frames are not supported, ECMA QSIG is used.<br><br>D2=6Send connected number in connect message, permitted to send UUI information in alerting message, and no<br><br>semi-permanent connection.<br><br>No fixed connection between B-channel and | **0630**0000 or **0640**0000 |
| **VARC** | D7=1 Full ISDN functionality supported, don't send busy/congestion tone to cooperating exchange, and no limitation in the number of octets in UUI element. | 00000**110** |
| **Route Destination Data Initiate (RODDI) Command** | | |
| **ADC** | The mandatory value for this parameter differs depending on the patch (that is, CNI-<Level>) if any, associated with the version. The main difference among the versions is in the number of digits that are required; the descriptions for D2 through D5 remain the same for all versions, as indicated below. | |
| | D2=5 Type of called private number is unknown private. D3=0Type of calling public number is unknown public. D4=5Type of calling private number is unknown private. D5=1Supplementary services using UUI is allowed. | |
| | In an MX-ONE TSW (ASB<br><br>501 04 R12) system, the ADC parameter consists of 25 digits. | **15051**00000000250005000000 |

## EXAMPLES

Following are examples of the ROCAI, RODAI, and RODDI commands for MX-ONE TSW:

ROCAI:ROU=2,SEL=7110000000000010,SIG=511110100031,
TRAF=03151515,TRM=5,SERV=3110000000,DIST=30, DISL=128,NODG=0,BCAP=111111;

RODAI:ROU=2,TYPE=SL60,VARI=05400000,VARO=06300000,VARC=00000110,FILTER=
NO;

RODDI:DEST=21,ROU=2,ADC=1505100000000250005000000,TRC=0,SRT=1,NUMACK=0;

## RE-ROUTING CONSIDERATIONS

In order to avoid having external calls re-routed to e.g. an operator position when not answered in time by a MiCC Enterprise agent, make sure the 'Ring Time Supervision' time (set in the MiCC Enterprise System properties) shorter than the trunk re-route time as specified in the ASPAC parameter 37.

Or you could set the D1 value in the SEL parameter for the ROCAI command to NOT to include option 4, 'Rerouting on no answer or not available'.

You can also avoid this problem by disabling rerouting on no answer on the individual extensions used by the MiCC Enterprise agents. For generic extensions that is done by setting D3 to 1 (Rerouting blocked) in the ext-traf parameter for the extension_profile command. For non-generic extensions you set the D1 in the CDIV parameter to 1 (Do not allow rerouting).

# CONFIGURING IP MEDIA PORTS

OAS supports IP Media Ports interfacing with the MX-ONE. The following sections describe how to initialize IP extensions in the MX-ONE so that they can be used as Media Ports.

## INITIATING THE IP STATION PORT BOARD (TSW ONLY)

Initiate each IP station port board with a static IP address, board position, subnet mask, and default gateway router IP address.

**Table 4:   Parameter description**

| PARAMETER | DESCRIPTION | MANDATORY VALUE |
|---|---|---|
| **IP Station Board Initiate (IPBOI) Command** | | |
| **BPOS** | Board position of the ELU32 board that will server as the main Gatekeeper for the IP Media Ports | |
| **IP** | Static IP address assigned to the Gatekeeper | |
| **MASK** | Subnet mask | |
| **ROUTER** | Default Gateway router IP address | |

For example:

**IPBOI:BPOS=1-2-40,IP=245.17.41.2,MASK=255.255.255.0, ROUTER=245.17.41.1;**

Where the parameter IP is the Gatekeeper address used when configuring IP Media Ports.

To verify your work, type the following command:

**IPBOP:BPOS=ALL;**

## CONFIGURING THE LOAD DISTRIBUTION FACILITY

The MX-ONE provides an Mitel-proprietary load distribution mechanism. Through this facility, it is able to determine which is the most suit- able gatekeeper for every H.323 IP extension to register. This choice is made according to the network domain the endpoint belongs to and the individual load level of each gatekeeper. This facility can be configured by entering the following commands.

For MX-ONE TSW:

1. IPGDI

2. IPGKC

For MX-ONE TSE:

3. ip_domain -i (IPGDI)

4. ip_gatekeeper -c (IPGKC)

For more information on how to use these commands, refer to the MX-ONE document *Operational Directions, IP Extension, IP*. To print your work, type the following command:

**IPGDP:LIM=ALL; (MX-ONE TSW)**

**ip_gatekeeper -p (MX-ONE TSE)**

> **Note**: Keep track of this domain name. You will need it later when you configure the OAS IP Media Server. This name is not a TCP/IP domain name, but strictly a label for use by the MX-ONE and OAS. In systems that include IP-based extensions as well as this integration, the domain associated with the integration must be different from the domain used for the extensions.

# INITIATING THE GENERIC EXTENSION DEFINITION

Initiate a generic definition that can be applied dynamically to the IP-based MX-ONE extensions. Assign this generic definition to the standard range of directory addresses set aside for IP Media Ports and associate it with the LIM on which the entry gatekeeper board is installed.

For example:

**extension -i -d 10000..10010 --csp 0 -l 1**

> **Note**: For MX-ONE TSE, it is necessary to set D17=1 in the SERV parameter for the CSP used by the media port as it enables media ports as a forced gateway .
>
> D17 : Unconditional forced Gateway:
> 0 - no (default)
> 1 – yes : States whether all the calls to/from IP extensions will be unconditionally forced gateway

To verify your work, type the following command:

**extension -p -d 10000..10010**

## CREATING INDIVIDUAL EXTENSIONS

Designate the extensions that will be used as Media Ports. For example:

**ip_extension -i -d 10000**

To verify your work, type the following command:

**ip_extension -p**

## ADJUSTING THE JITTER BUFFER SIZE

Depending on the characteristics of the network, you may need to adjust the size of the memory buffer that the system provides to protect against "jitter" distortion in the voice signals that it processes.

Examples of the commands used to set the Jitter Buffer to 150 ms are shown below:

MX-ONE TSW

The buffer size parameter can be set or modified in increments of ten milliseconds (ms)

**ASPAC:PARNUM=191,PARVAL=15;**

To verify your work, type the following command:

**ASPAP:PARNUM=191;**

# CONFIGURING AGENT'S MONITORING

To support Agent Monitoring, Supervisor and Agent category as well as Route must be configured. (The commands described in the following sections apply to MX-ONE TSE 3.2 / 4.1.)

**Note**: By default, the supervisor can only monitor service calls. It is however possible to override the default setting to monitor agents on outgoing calls, internal calls and private incoming calls. This is set in the MiCC Enterprise configuration tool (SeCCfg) under the tab Agent Service, Allow Monitoring of Busy-Other Calls".

## SUPERVISOR CATEGORY

**SERV** (Service Category): D4D5 = 13

Intrusion characteristics

01      Permitted to initiate intrusion

02      Open for intrusion and reception of call waiting tone from another party.

**Priority characteristics** (Only if any intrusion characteristics have been started).

12      Priority on Intrusion = 3

extension_profile –p

**Call waiting protection C** (The C-party is the one in speech with the target of the Call Waiting request).

0      No call waiting tone.

1      Yes, call waiting tone.

**Intrusion capability level** (The intrusion requester's capability level which will be compared to the intruded and third party's intrusion protec- tion level)

0      Intrusion request is not allowed.

1      Intrusion capability level 1.

2       Intrusion capability level 2.

3       Intrusion capability level 3 (highest).

## AGENT CATEGORY

**SERV** (Service Category): D4D5 = 02

Intrusion characteristics

02      Open for intrusion and reception of call waiting tone from another party.

**Priority characteristics** (Only if any intrusion characteristics have been started)

00      Priority on intrusion = 0

extension_profile -p

## ROUTE

**SERV** (Route Service Category) : D1 =2

Call Waiting Characteristics

2       Reception of call waiting tone permitted and intrusion permitted.

<rocap:rou=61;ROU=61, SEL=5110000010000010 , TRM=5 , SERV=2100030003 , NODG=0 ,DIST=30, DISL=128, TRAF=03151515

,SIG=511110000030 , BCAP=001100;

## ASPAP CONFIGURATION

Intrusion and call waiting characteristics for incoming external traffic is permitted:

ASPAC:PARNUM=26, PARVAL=1;

To verify your work, type the following command: ASPAP:PARNUM=26;

Permit intrusion and call waiting characteristics for incoming external traffic is allowed

ASPAC:PARNUM=35, PARVAL=1;

To verify your work, type the following command:ASPAP:PARNUM=35;

Intrusion from an extension or a PBX operator on a party with an external call is allowed

ASPAC:PARNUM=36, PARVAL=1;

To verify your work, type the following command:ASPAP:PARNUM=36

# CONFIGURING IP DOMAIN

## INITIATION OF IP DOMAIN IN MX-ONE TSE

If you are using H.323:
Initiate the domain name:

ip_domain -i --domain-name x --ip-net xxx.xxx.xxx.xxx/xx --packetization-interval x

--domain-name

This parameter corresponds to the name of the domain to be used while

configuring Media Server in Open Application Server.

--ip-net

This parameter corresponds to the IP address of the Media Server plus

the number of mask bits separated by a slash, /.

Example: 192.168.25.10/32

--packetization-interval

This parameter states the packetization interval. The parameter specifies the length of time in milliseconds represented by the media in a packet.
The correct value is 30 ms of audio per RTP packet for any supported codec.
The switch requires a single-value argument, (RTPPacketSize (p time) = 30).
If, for example, packetization-interval is 20 ms, then IPMS will not work.
See RFC3551 for more information regarding packetization interval.

If you are using SIP:

sip_domain --local-domain-name x --initiate

E.g.

sip_domain --local-domain-name mx-one.net –initiate

# CONFIGURING VIRTUAL IP/SIP DEVICES TO BE USED BY PROGRESSIVE DIALING CAMPAIGNS

Progressive Campaign is the Concept of making continuous calls from OAS through Virtual IP/SIP extensions, and having only answered calls being sent to agents.

## INITIATION OF VIRTUAL IP/SIP EXTENSION

**Example**

Initiate the directory number 654 as a virtual extension (VE):

**ip_extension -i -d 654 --terminal-identity "sip:654@0.0.0.0" \
--uri "sip:654@0.0.0.0"**