

ATS9900 Basic Data Configuration

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References

- HUAWEI ATS9900 Advanced Telephony Server V100R003C00 – Configuration Guide



Objectives

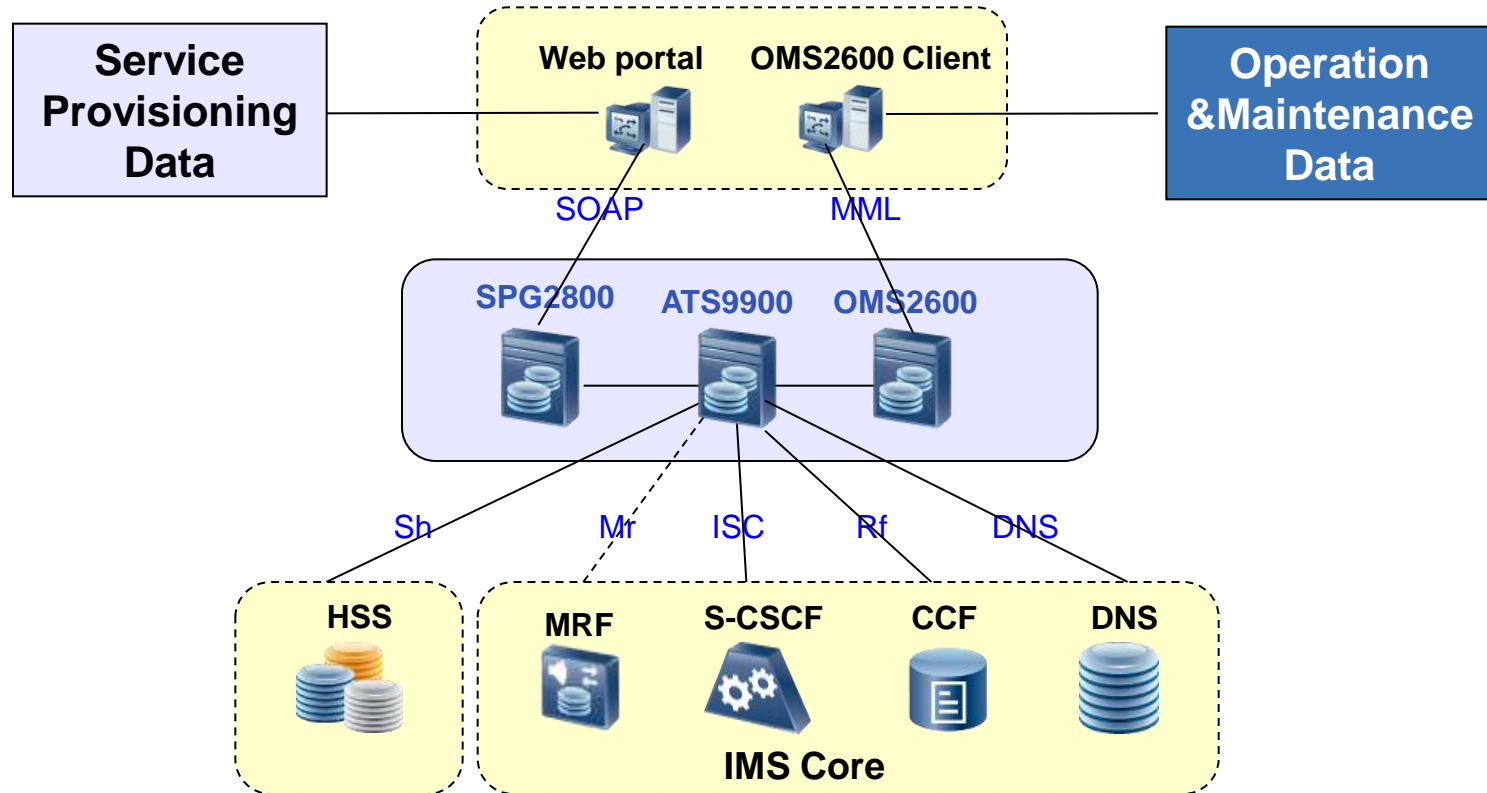
- Upon completion of this course, you will be able to:
 - Configure the hardware data of ATS9900.
 - Configure the local and Interworking data of ATS9900.
 - Configure the number analysis data of ATS9900.



Contents

- 1. Overview of ATS Basic Data Configuration**
2. Hardware Data Configuration
3. NE/Module and Local Data Configuration
4. ATS Number Analysis Configuration
5. Interworking Data Configuration
6. Services Data Configuration

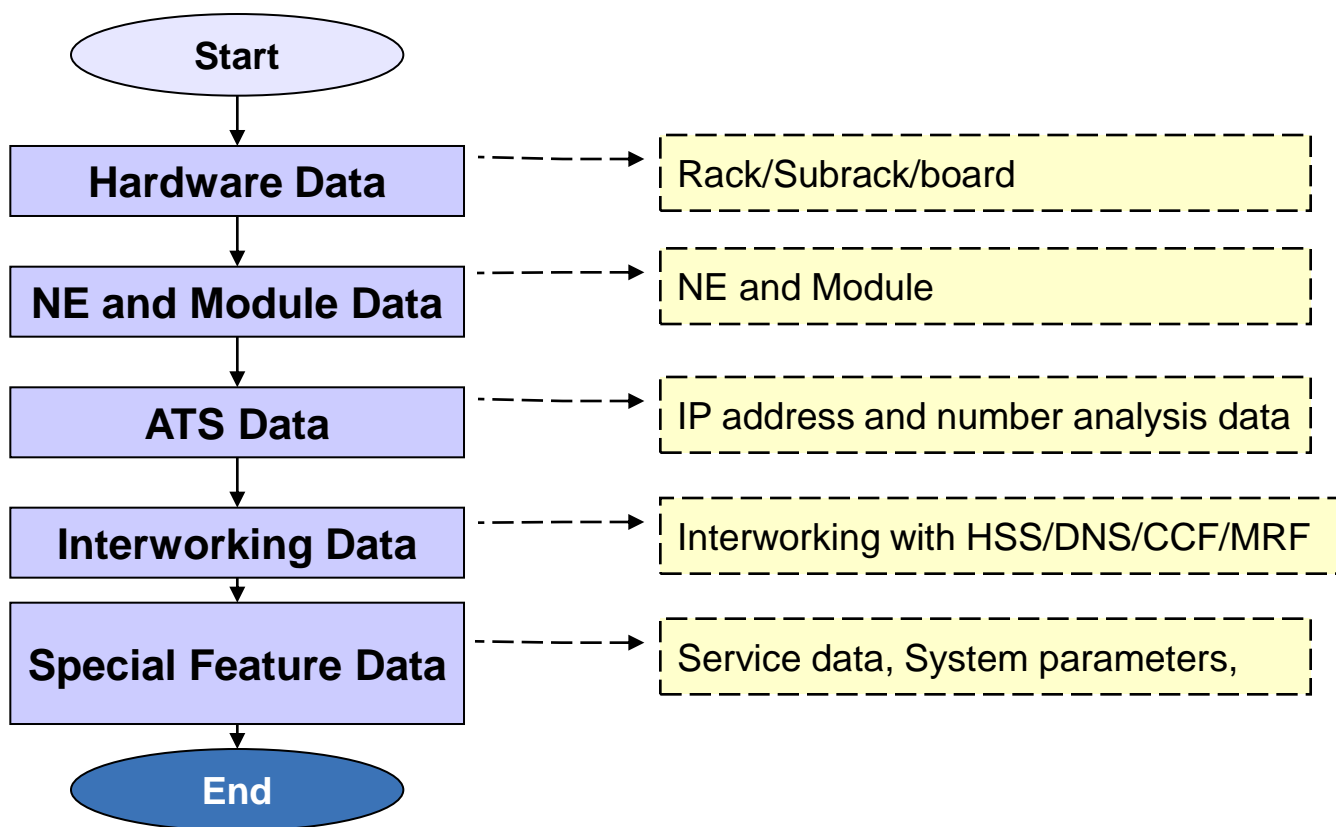
ATS9900 Data Overview



- **Basic Data:** ATS domain name, IP address, module, interworking links, etc.
- **Service Data:** Subscriber service data

Overall Flow

- The Flow of **ATS basic** data configuration:



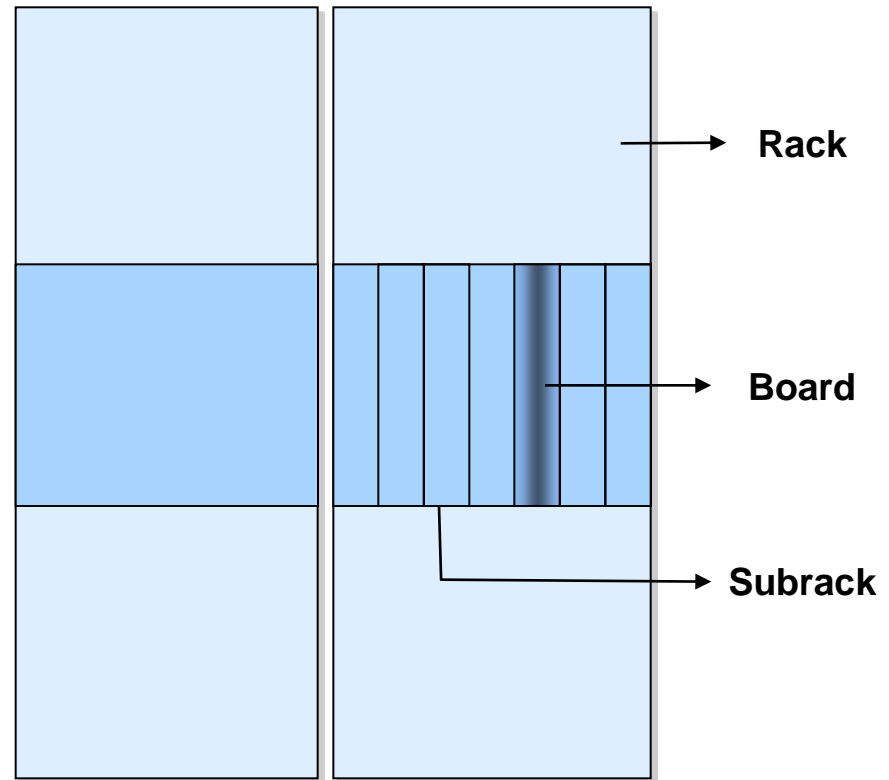
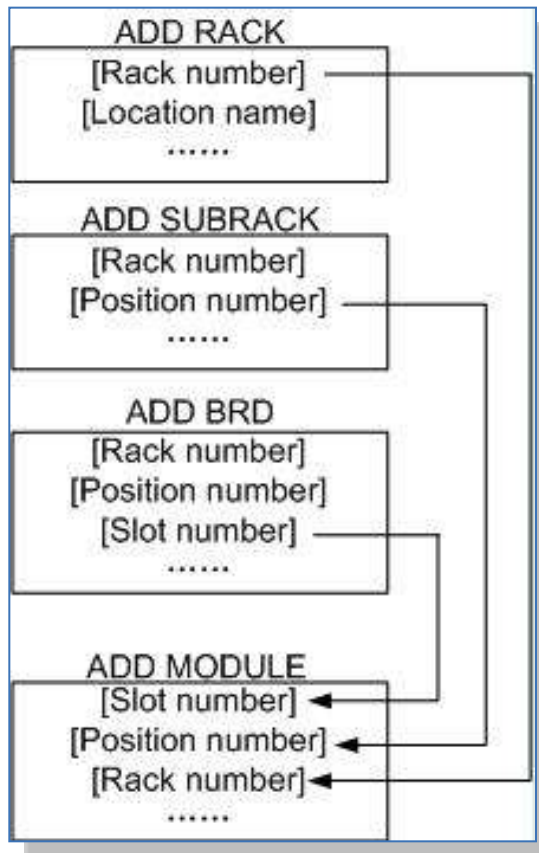


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Hardware Configuration Flow

- Referencing Relations Between Data Tables



Hardware Data Information Collection

- ADD Board

- Slot number from 0-13
- The ME type should be selected as ATS.
- The interface board at the back need to be added.
- Application Type should be defined.

Subrack Number	Slot number	ME type	Front board type	Back board type	Application type
0	4	ATS	UPB0	USI0	ATISB
0	5	ATS	UPB0	USI0	ATISB

Application Type of ATS9900

Application Type	Included Module
ATMIB	R2 BOARD:4CCU+3MSG+1CDB+2BSG+2IFM+2SPU R3 BOARD:8CCU+6MSG+2CDB+2BSG+2IFM+2SPU
ATISB	R2 BOARD:3CCU+2MSG+1CDB+1BSG+1IFM+1SPU R3 BOARD:6CCU+4MSG+2CDB+2BSG+1IFM+1SPU
ATCSB	R2 BOARD:4CCU+2MSG R3 BOARD:8CCU+4MSG
ATIFB	R2 BOARD:2CDB+2BSG+1IFM+1SPU R3 BOARD:3CCU+2MSG+2CDB+2BSG+1IFM+1SPU
MNAEB	R2 BOARD:ATS(CCU:1 CDB:1 MSG:1 BSG:1 IFM:1 SPU:1) R3 BOARD:ATS(CCU:1 CDB:1 MSG:1 BSG:1 IFM:1 SPU:1)
MNAEJ	R2 BOARD:ATS(CCU:2 CDB:1 MSG:2 BSG:1 IFM:1 SPU:1) R3 BOARD:ATS(CCU:4 CDB:1 MSG:3 BSG:1 IFM:1 SPU:1)
MNAER	R2 BOARD:ATS(CCU:1 CDB:1 MSG:1 BSG:1 IFM:1 SPU:1) R3 BOARD:ATS(CCU:1 CDB:1 MSG:1 BSG:1 IFM:1 SPU:1)
MNAEU	R2 BOARD:ATS(CCU:1 CDB:1 MSG:1 BSG:1 IFM:1 SPU:1) R3 BOARD:ATS(CCU:2 CDB:1 MSG:2 BSG:1 IFM:1 SPU:1)

R2 board: UPB

R3 Board: UPBA

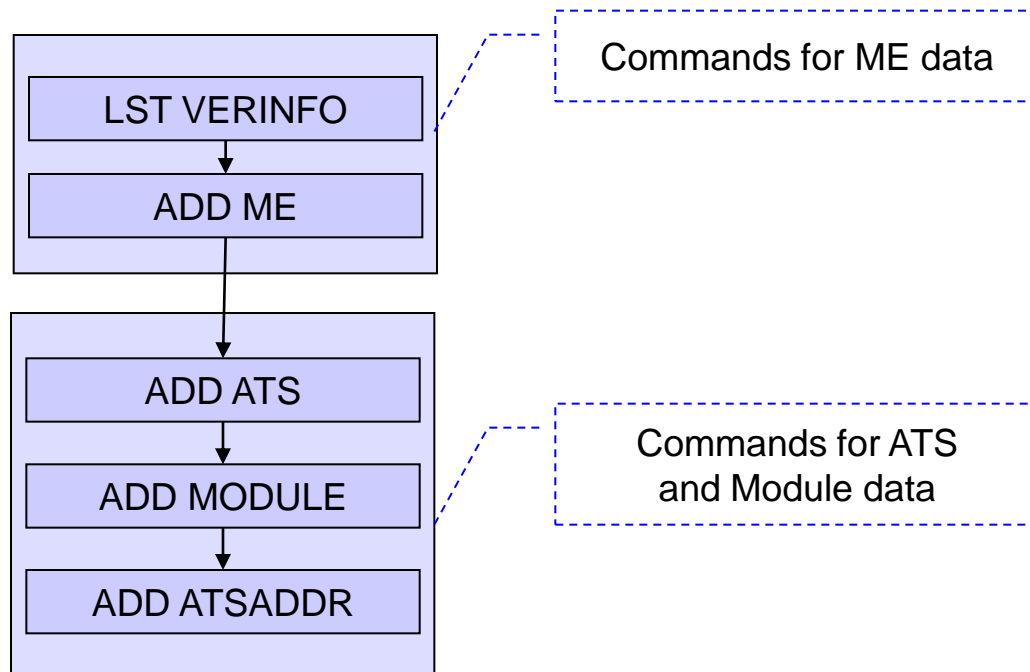


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Configuration Flow

- NE and module data configuration flow



ATS NE&Module Information Collecting

- ME information :

Parameters	Values
ME ID	68
ME name	ATS
ME version	V100R003C00B××
ME type	ATS

For ADD ME

ATS NE&Module Information Collecting

- Module Information
 - For **ADD MODULE**

Active Rack Number	Active Position Number	Standby Rack Number	Standby Position Number	
0	0	0	0	
Module Type	Module Number	Module Name	Active Slot Number	Standby Slot Number
CCU	22	CCU	1	3
CDB	102	CDB	1	3
IFM	132	IFM	1	3
BSG	135	BSG	1	none
MSG	137	MSG	1	none
SPU	140	SPU	1	none

ATS Local Data Information Collecting

- ATS local data information

Parameters	Values
ATS ID	0
Domain name	ims2.com
Host name	ats.ims2.com
Entity name	ATS

For **ADD ATS**

Parameters	Values
ATS ID	0
ATS address ID	0
IP version	IPV4
IFM ID	132
Net port	BACK8
IP address	191.1.10.11
Gateway	191.1.1.1
Mask	255.255.0.0

For **ADD
ATSADDR**

Case -- Adding a Module

- `/*-----Perform configurations on the ATS9900 MML interface.-----*/`

`/*Add modules.*/`

- **ADD MODULE:**
MID=101,MT=IFM,SRN1=1,SN1=5,SRN2=1,SN2=9,MNAME="IFM";
- **ADD MODULE:**
MID=102,MT=CDB,SRN1=1,SN1=5,SRN2=1,SN2=9,MNAME="CDB";
- **ADD MODULE:** MID=103,MT=CCU,SRN1=1,SN1=5,SRN2=1,SN2=9,
MNAME="CCU";
- **ADD MODULE:** MID=104,MT=BSG,SRN1=1,SN1=5,MNAME="BSG";
- **ADD MODULE:**
MID=105,MT=MSG,SRN1=1,SN1=5,MNAME="MSG",FUNC1=SIPS-1;
- **ADD MODULE:** MID=106,MT=SPU,SRN1=1,SN1=5, MNAME="SPU";

Case--Adding an ATS, ME Address, and SPU Address

/----- Perform configurations on the ATS9900 MML interface.-----*/*

- */*Add an ATS. Set basic attributes of the entity, such as **Domain name** and **Host name**.*/*

ADD ATS: ATSID=0, DN="domain1.huawei.com", HN="ats68.domain1.huawei.com", EN="ats68", SCSCF="scscf.domain1.huawei.com ", AOCTYPE=Inner_ocs;

- */*Add an ATS address.*/*

ADD ATSADDR:

ATSID=0,ADDRID=0,IPVER=IPV4,IFMMID=101,NETPRT=BACK7,IP="10.184.176.14",GW="10.184.176.1",MASK="255.255.255.0",SO=AD-1&RFC-1&LFC-1;

- */*Add a service provision address.*/*

ADD SPUADDR: ATSID=0, SPUADDRID=0, SPUMID=134, PLANETYPE=BACKPLANE, IPVER=IPV4, BKPT=BACK7, IP=" 10.184.176.141", GATWAY=" 10.184.176.1 ", MASK="255.255.0.0";

Case--Adding a Network Segment for the IFM

/-----Perform configurations on the ATS9900 MML interface.-----*/*

- */*Add an IP network segment for the IFM. That is, set the network segment of the IFM to be distributed externally.*/*

ADD IPRT: MODN=101, NA="10.184.176.254", MSK="255.0.0.0";

- */*Set the protocol dispatch capability with **Module number** set to the MSG module number.*/*

SET DPA: MN=55, PA=SCTP-1&H248-1&MGCP-1&SIP-1;



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Configuration Flow

- ATS Number analysis data configuration flow

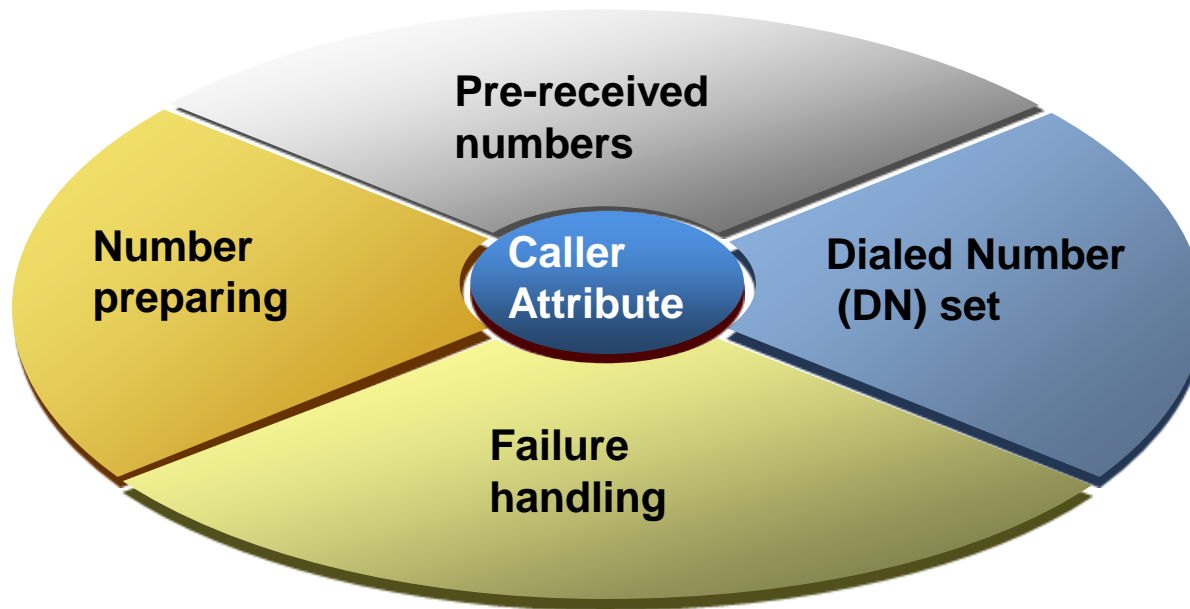
Steps	Commands	Information
1	ADD CDBFUNC	Add the functions of CDB
2	ADD NCODE	Add country or region code (optional)
3	ADD ACODE	Add national area code
4	ADD PFXTOL	Add toll prefix description
5	ADD LDNSET	Add local DN set
6	ADD CALLSRC	Add call source code
7	ADD CNACLD	Add the called number analysis

DN Set

- DN set – Dialed Number Prefix Set
 - Number prefix —— The number dialed by the call source
 - DN set —— The set of called number prefix
 - DN set can be classified into
 - Global DN set——A globally significant DN set distinguishes different networks. For example, the hybrid of public and private networks.
 - Local DN set——distinguishing different local networks with feature of area code (or national code) in the same network.

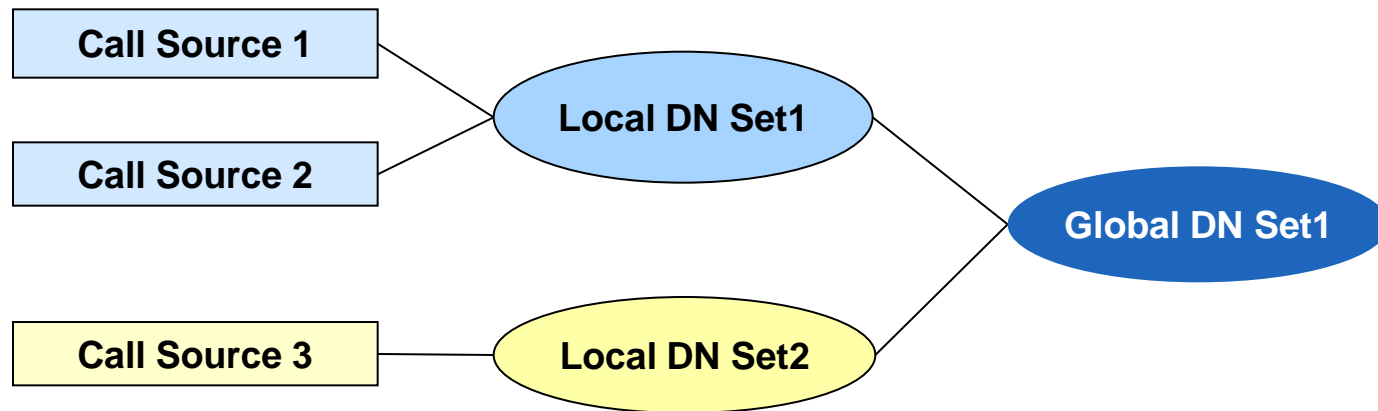
Call Source

- The call source is classified by caller attributes



Relation between Call Source and DN Set

- Relation between Call Source and DN set
 - One call source can only have one DN set
 - One DN set can be used for different call source



Data Planning

- ADD CDBFUNC and ADD PFXTOL - Key Parameters

Parameter for CDBFUNC	Value
CDB Function	CCUD~1&PBX~1&SP DNC~1&SPCNACLD~ 1&CNACLR~1&CTRL CENTER~1
Module number	102

Parameter for PFXTOL	Value
Global DN set	0
Country/Area Code	K'86
National Toll Prefix	K'0
International Toll Prefix	K'00

- ADD ACODE and ADD LDNSET - Key Parameters

Parameter for ACODE	Value
Country/Area Code	K'86
National Toll Area Code	K'755
City name	Shenzhen

Parameter for LDNSET	Value
Local DN set	1
Country/Area Code	K'86
National Toll Area Code	K'755

Data Planning (Cont.)

- ADD CNACLD – Key Parameters

Parameter for CNACLD	Value
Local DN set	1
URI type	TEL_URI
Prefix of tel number	288
Service category	Basic
Service attribute	LCO
Minimum number length	8
Maximum number length	8

Parameter for CNACLD	Value
Local DN set	1
URI type	SIP_URI
SIPURI	ims2.com
Service category	Basic
Service attribute	LCO
Minimum number length	none
Maximum number length	none

ADD LDNSET

- To add a local DN set

Command Input (F5): ADD LDNSET

Local DN set 0

DN set 0

Country/Region code 86

National area code 755

District prefix




Local DN set name SZ


Currency name CMB

MT analysis flag NO(NO)


ADD CALLSRC & ADD CDBFUNC


- To add a call source

Command Input (F5):   

Call source code 

Call source name

Local DN set 

Failure source code 

- To assign the functions of the CDB module



Command Input (F5):   


CDB Function 


CDB Module Number 

CNACLD Command – Tel Prefix


- Called number is in tel format:


Command Input (F5):  


Local DN set 


URI scheme 


Call prefix

Service category 

Service attribute 



Customized attribute 


Minimum number length 


Maximum number length 

CNACLD Command - SIPURI Prefix


- Called number is in SIPURI format:


Command Input (F5):  


Local DN set 

URI scheme 


SIP URI

Service category 

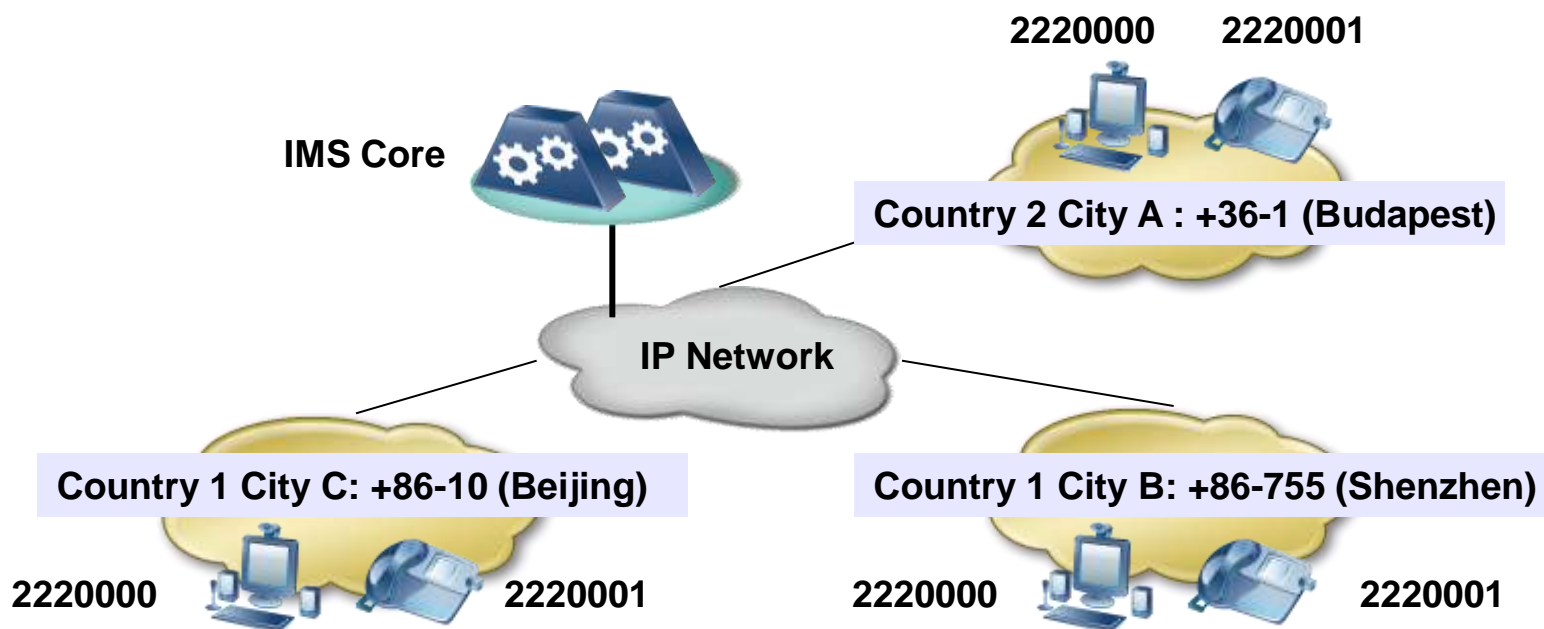
Service attribute 

Customized attribute 

Description

Ring delay time 

Number Analysis Example



Data Planning 1

Call source 0, Local DN set 0 : CC = 36, AC = 1
Call source 1, Local DN set 1 : CC = 86, AC = 755
Call source 2, Local DN set 2 : CC = 86, AC = 10

Data Planning 2

Toll call prefix: 0 and 00 for country 1
06 and 00 for country 2

Number Analysis Example 1

- ADD NCODE and ADD ACODE for the 2 countries
- ADD PFXTOL: NC=K'36, NTP=K'06, ITP=K'00;
- ADD PFXTOL: NC=K'86, NTP=K'0, ITP=K'00;
- Local DN set for 3 cities
 - ADD LDNSET: LP=0, NC=K'36, AC=K'1, LDN=" Budapest ";
 - ADD LDNSET: LP=1, NC=K'86, AC=K'755, LDN="Shenzhen";
 - ADD LDNSET: LP=2, NC=K'86, AC=K'10, LDN=" Beijing ";
- Call source for 3 cities
 - ADD CALLSRC: CSC=0, NAME="Budapest ", LP=0;
 - ADD CALLSRC: CSC=1, NAME="Shenzhen", LP=1;
 - ADD CALLSRC: CSC=2, NAME="Beijing", LP=2;

Number Analysis Example 1 (cont.)

- Prefix analysis data for Budapest user
 - ADD CNACLD: LOCNUM=0, URISCH=TEL_URI, PFXCDE=K'222, MINL=7, MAXL=7;
 - ADD CNACLD: LOCNUM=0, URISCH=TEL_URI, PFXCDE=K'0086, MINL=12, MAXL=15;
- Prefix analysis data for Shenzhen user
 - ADD CNACLD: LOCNUM=1, URISCH=TEL_URI, PFXCDE=K'222, MINL=7, MAXL=7;
 - ADD CNACLD: LOCNUM=1, URISCH=TEL_URI, PFXCDE=K'010, MINL=10, MAXL=10;
 - ADD CNACLD: LOCNUM=1, URISCH=TEL_URI, PFXCDE=K'0036, MINL=12, MAXL=15;

Number Analysis Example 2-- Configuring Comcast Data

/-----Perform configurations on the ATS9900 MML interface.-----*/*

- */*Add an LATA/RC table. */(The following shows an example. During the actual use, data is imported in batches.)*

ADD LATARC: NPA="284", NXX="451", RC="NATIONALCY", LATA=824, LATN="BAHAMAS", STATE="BV";

- */*Add a foreign NPA table. */*

ADD FRGNPA: NPA="418",NN="CANADA";

- */*Add an RC exception table.*/*

ADD RCXCP:

ORC="BRTSHVRGNS",TRC="NATIONALCY",OLATA=65535,TLATA=65535;

- */*Add a dialing mode configuration table.*/*

ADD DIALM:

DPR="dial1",STATE="BV",HNL=LEN7D,HNLT=LEN7D,FNL=LEN7D,FNLT=LEN1+10D,PHNL=LEN10D,PHNLT=LEN10D,PFNL=LEN10D,AHNL=CONNECT,AHNLT=CONNECT,AFNL=CONNECT;

Number Analysis Example 2-- Configuring Comcast Data (cont.)

`/*-----Perform configurations on the ATS9900 MML interface.-----*/`

- `/*Add a call type attribute table. */` (The following shows an example. In fact, there are multiple data records.)

ADD CALTYP:

`CT=IAL-IAS-`

`ORC,ATTRI="none",TGRP=2000,TKC="IALIASORC.domain2.huawei.com",DM=DM10D-1&DM1+10D-1&DM7D-1;`

- `/*Add a number call type configuration table. */` (The following shows an example. In fact, there are multiple data records.)

ADD NUMCT:

`PFXCDE=k'2,INPA=include_NPA,MINL=7,MAXL=10,DESCR="none",CT=normal,ND="",REANA=NOTNEED;`

- `/*Add a profile number information table.*/`

ADD PRONO: `PRON="profilename1", NUM211="6614571021",
NUM311="6614571021", NUM411="6614571021", NUM511="6614571021",
NUM611="6614571021", NUM711="6614571021", NUM811="6614571021",
RVM="6614571021";`

- `/*Add a 7-bit number supplement table.*/`

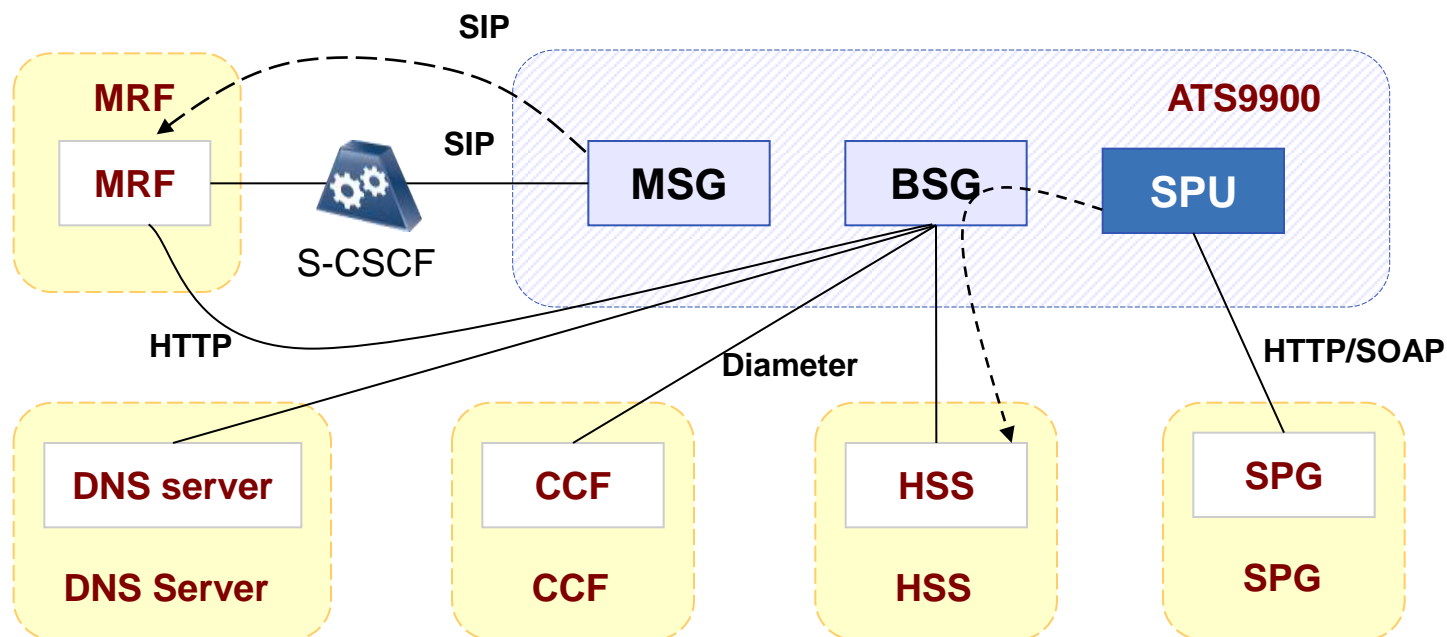
ADD DNUNI: `DPR="dial1", NXX="451", NPA="284";`



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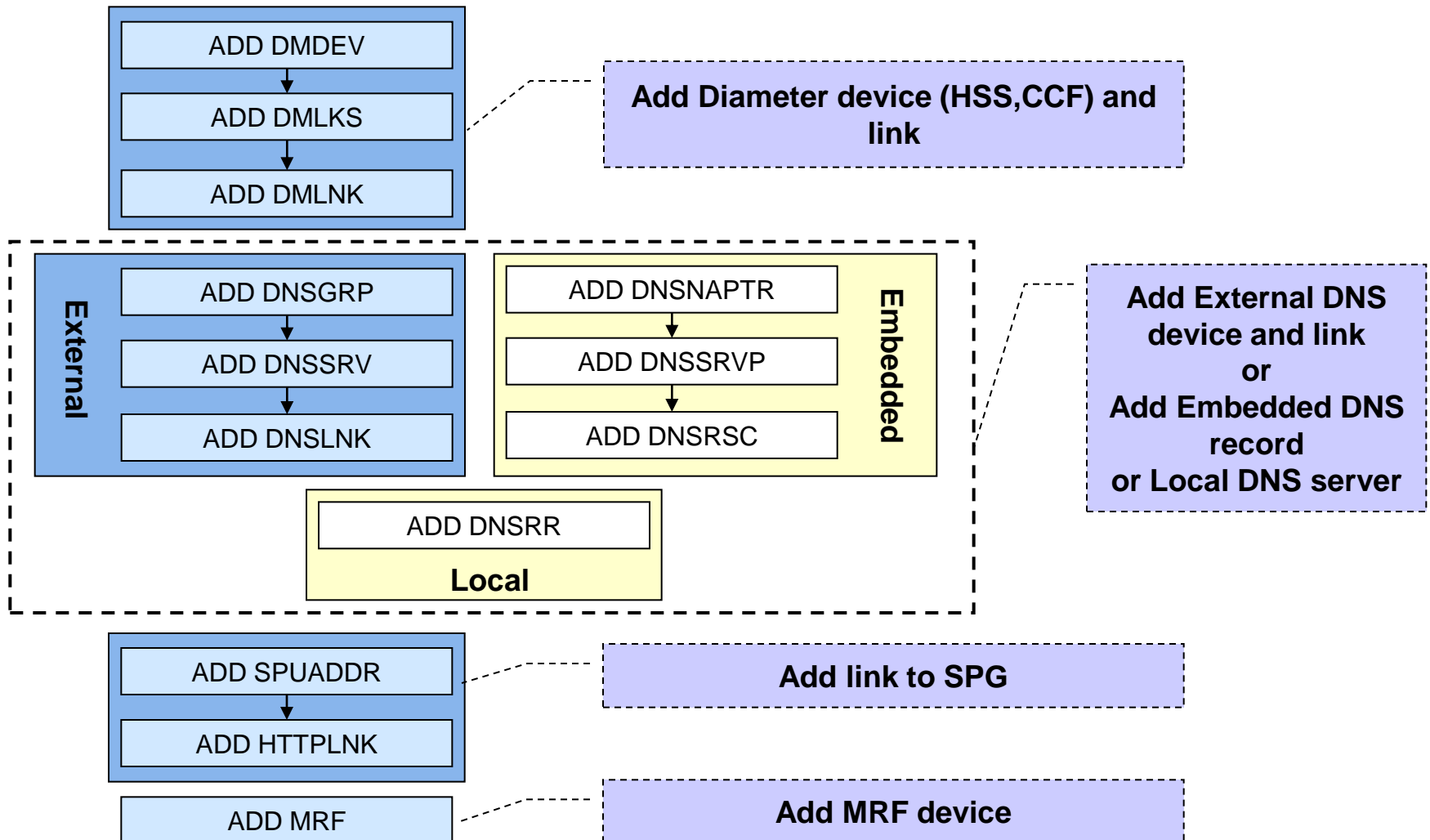
Interworking Data



- ATS9900 interworks with SPG by SOAP message for the service provisioning
- ATS9900 interworks with MRFC via SCSCF by SIP message, for the announcement playing
- ATS9900 interworks with MRFC directly, for the announcement playing

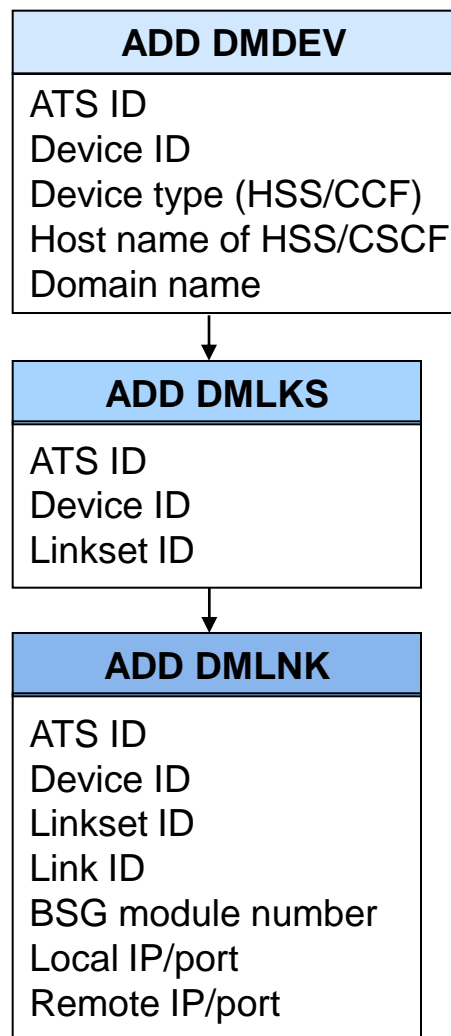
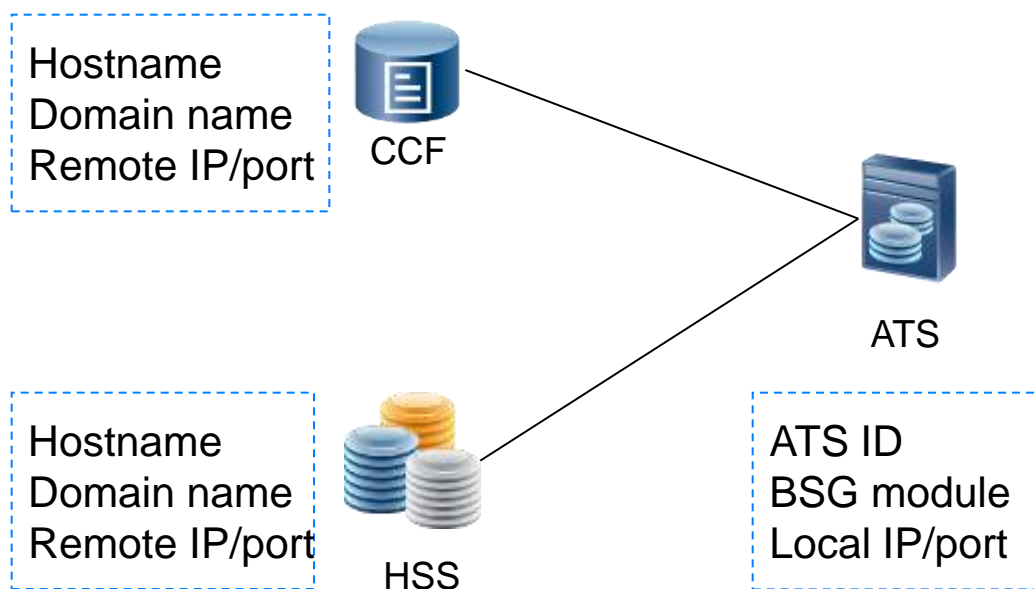
Configuration Flow

- ATS interworking data configuration flow



ADD Diameter Device

- To add a HSS or a CCF device

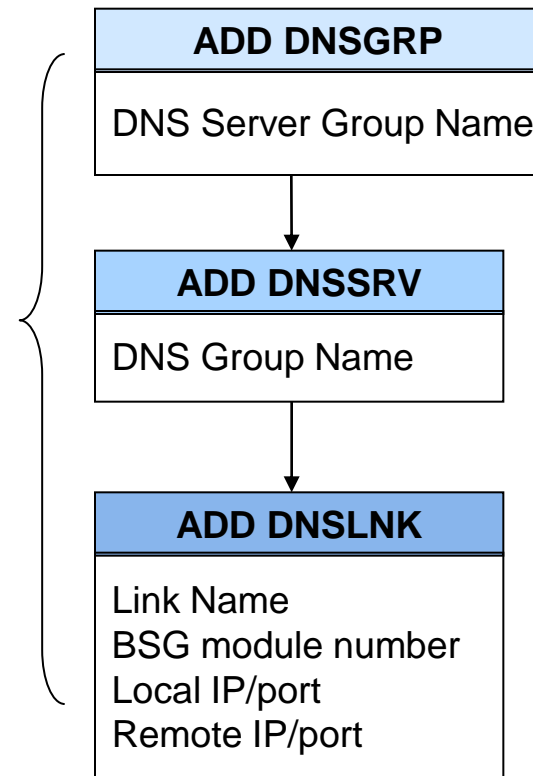
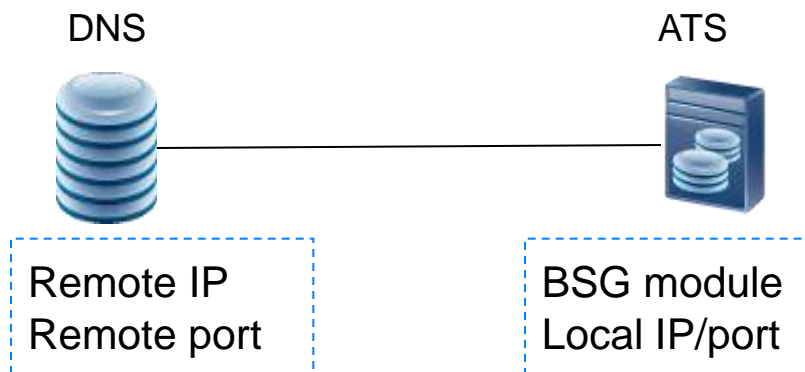


DNS Concept

- There are 3 kinds of DNS can be use in ATS
 - External DNS: A DNS server work for the ATS.
 - Embedded DNS: A DNS server incorporated in the ATS to support the DNS-compliant query mechanism.
 - Local DNS Server: A data table stored in the ATS that records the mapping between domain names and IP addresses and the mapping between port numbers and bearer types.

ADD DNS Device

- To add a External DNS device



Add Embedded DNS Record

- ADD DNSNAPTR

Command Input (F5):

NAPTR Record ID

Domain

Order

Prefer

Flag




Service

Regular Expression



Replacement

Add Embedded DNS Record (cont.)

- ADD DNSSRVVP and ADD DNSRSC

Command Input (F5):   

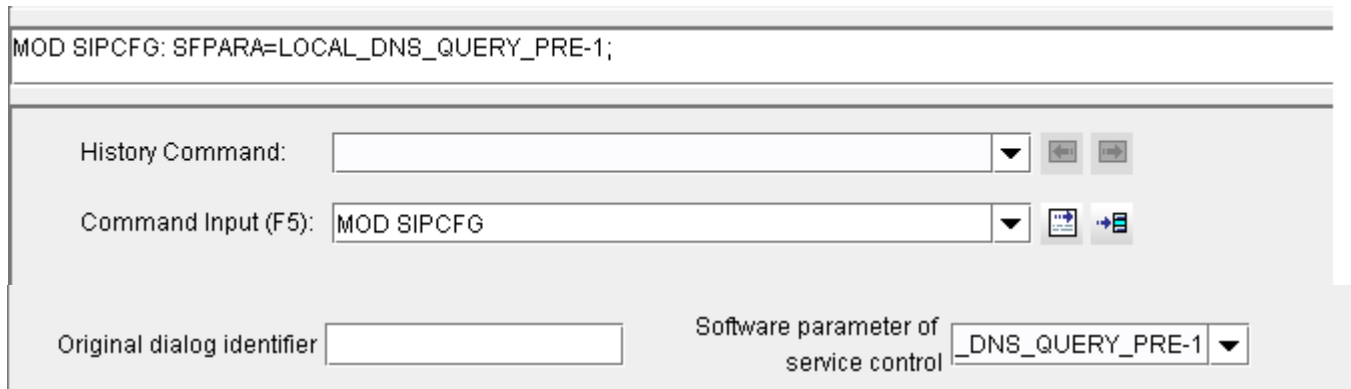
SRV Record ID	<input type="text" value="1"/>	Domain	<input type="text" value="_sip._udp.scscf.ims2.com"/>
Priority	<input type="text" value="0"/>	Weight	<input type="text" value="1"/>
Port	<input type="text" value="5060"/>	Target	<input type="text" value="scscf.ims2.com"/>

Command Input (F5):   

Resource Record ID	<input type="text" value="0"/>	Domain	<input type="text" value="scscf.ims2.com"/>
IP Address	<input type="text" value="189.1.4.7"/>		

Add Embedded DNS Record (*cont.*)

- By default, the system queries the external DNS server first. If an embedded DNS server is configured, you can run MOD SIPCFG to change the DNS query mode so that the system queries the embedded DNS server first.

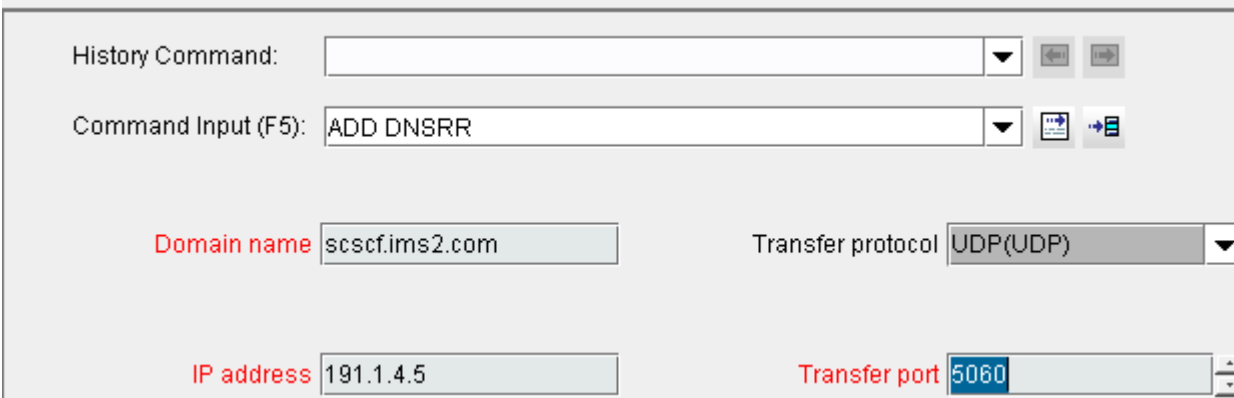


The screenshot displays a configuration window with the following elements:

- A text field at the top containing the command: `MOD SIPCFG: SFPARA=LOCAL_DNS_QUERY_PRE-1;`
- A "History Command" section with an empty dropdown menu and two small icons to its right.
- A "Command Input (F5)" section with a dropdown menu containing the text `MOD SIPCFG` and two small icons to its right.
- An "Original dialog identifier" section with an empty text input field.
- A "Software parameter of service control" section with a dropdown menu containing the text `_DNS_QUERY_PRE-1`.

Add Local DNS Server

- There is only one data configuration configured for Local DNS Server

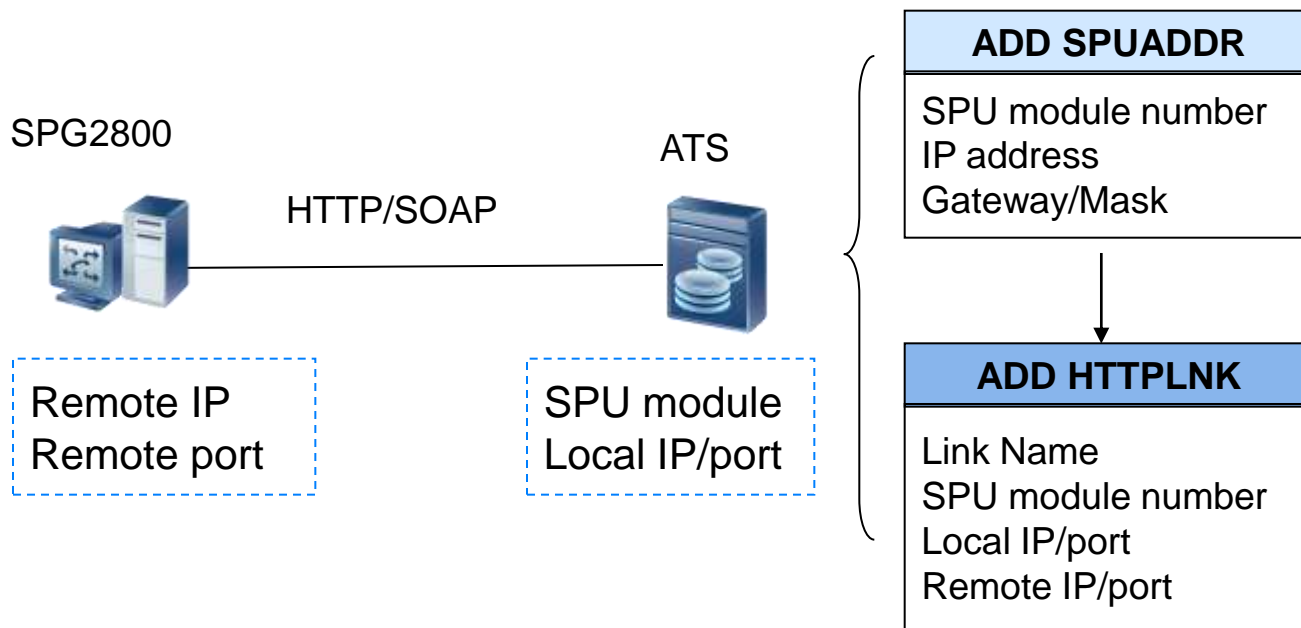


The screenshot displays a configuration window for adding a local DNS server. It features a 'History Command' field at the top, followed by a 'Command Input (F5):' field containing 'ADD DNSRR'. Below this, there are four main configuration fields: 'Domain name' set to 'scscf.ims2.com', 'Transfer protocol' set to 'UDP(UDP)', 'IP address' set to '191.1.4.5', and 'Transfer port' set to '5060'. Each field is accompanied by a red label and a corresponding input box or dropdown menu.

- The commands under this node are used for configuring the DNS resource data. The DNS resource data is used to query the local DNS server. The ATS first queries the embedded DNS server. If the query fails, the ATS continues querying a local DNS server or an external DNS server.



ADD HTTP Link to SPG2800

- To add a HTTP link to SPG2800



ADD MRF Device

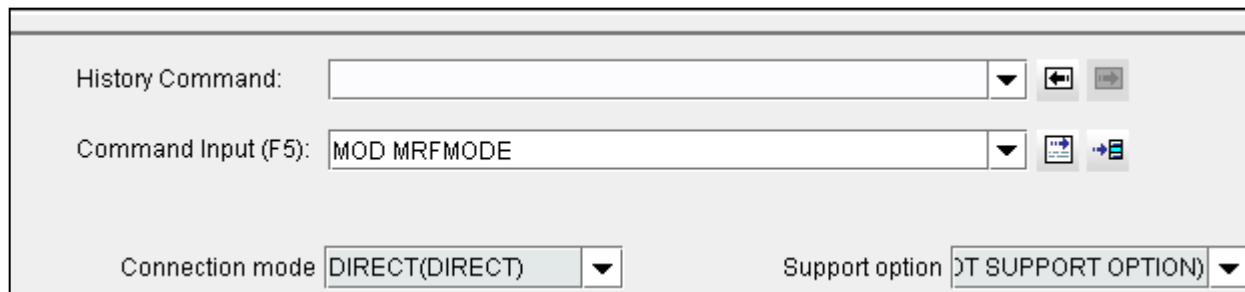
- ADD MRF

Command Input (F5):  

MRF index	<input type="text" value="0"/>	MRF address type	<input type="text" value="OMAIN(Domain Name)"/>
MRF domain name	<input type="text" value="mrf.ims2.com"/>	MRF description	<input type="text" value="mrf"/>
Record address	<input type="text" value="file://record"/>	Record name	<input type="text" value="record"/>

Modify MRF Mode

- MOD MRFFMODE
 - To configure and list the connection mode between the ATS and the MRFC. The connection mode can be direct or indirect.
 - To configure and list whether to enable the OPTION detection between the ATS and the MRFC.



The screenshot shows a command-line interface for the 'MOD MRFFMODE' command. It features a 'History Command' field, a 'Command Input (F5)' field containing 'MOD MRFFMODE', and two dropdown menus: 'Connection mode' set to 'DIRECT(DIRECT)' and 'Support option' set to 'DT SUPPORT OPTION'. There are also several small icons for navigation and execution.

- Direct connection: The ATS connects to the MRFC directly.
- Indirect connection: The ATS connects to the MRFC through the S-CSCF.
- OPTION detection: The ATS sends an OPTION message to the MRFC and determines whether the MRFC is normal based on the response.



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Configuring an Offline Charging Point

Configure the messages and services for which charging data is provided.

Command Input (F5): **MOD EVTACR**

System configuration parameter: 0

Message: []

Subscribe: []

Register: []

Publish: []

R202 SELECT ALL

R202 CLEAR ALL

R202 GRAY ALL

R3XX A OCD_USED(A OCD_USED)

R3XX WAKEUP_CALL_REGISTERED(WAKEUP_CALL_REGISTERED)

NS456XX WAKEUP_CALL_USED(WAKEUP_CALL_USED)

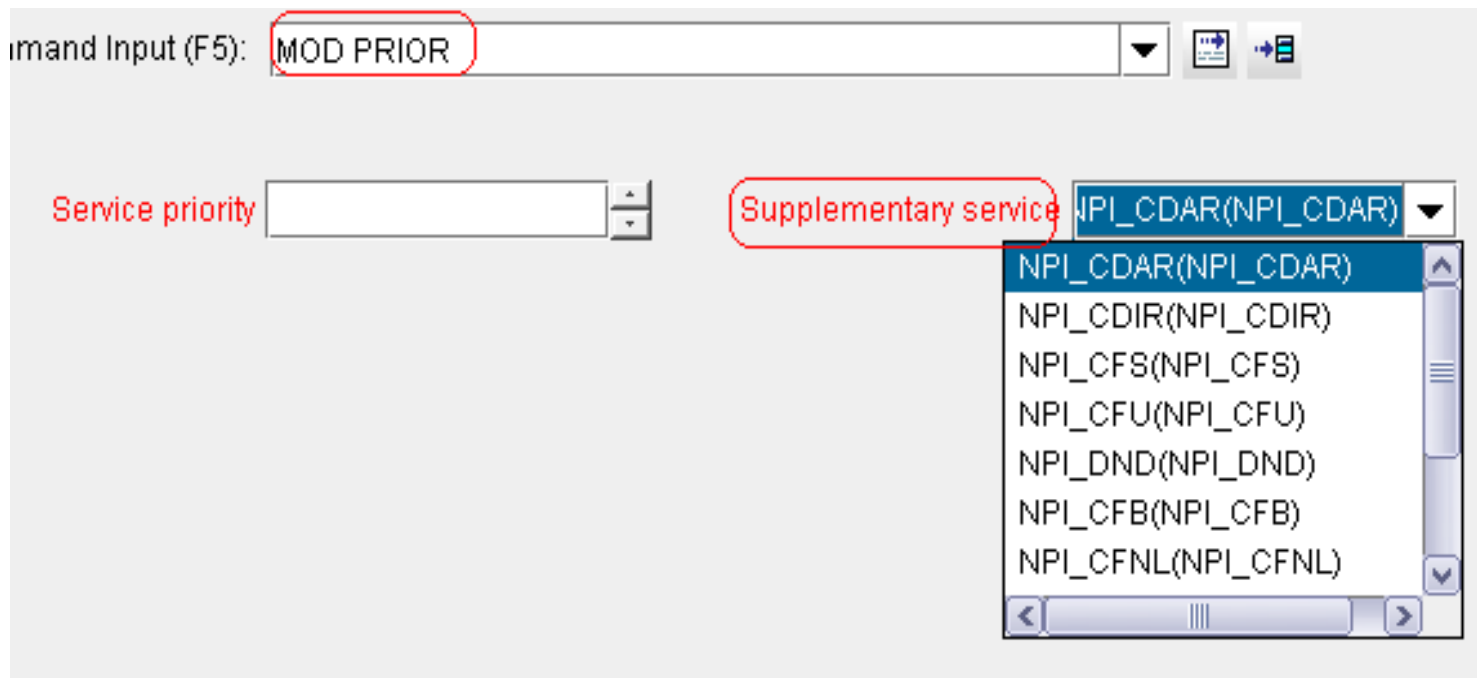
NS456XX WAKEUP_CALL_CANCEL(WAKEUP_CALL_CANCEL)

NS456XX WAKEUP_VERIFY(WAKEUP_VERIFY)

NS charging

Setting the Service Priority

- Generally, not all the supplementary services registered by a subscriber are implemented. The system processes services based on the priorities of these services.
- The priority 0 is the highest priority.



Configuring the ARUN Service

Note: The ARUN service can be used only when the right is set.

1. Define a user on the SPG interface (by running **ADD SBR**).

The screenshot shows the 'Add Subscriber(ADD SBR)' configuration page. On the left is a navigation tree for 'ATS0413' with categories like Subscriber Management, Supplementary Service, and Common Service. The main area is titled 'Add Subscriber(ADD SBR)' and contains a form with the following fields:

IMPU	<input type="text"/>	String (1-128)	*
Subscriber Data Template Index	65535	Integer (0-65535)	
Display index	65534	Integer (0-65534)	
Local DN set	0	Integer (0-65534)	
Call source code	0	Integer (0-65534)	
Name	<input type="text"/>	String (0-32)	
Type	IMSSIPUE(IMSSIPUSER)	Enumeration	
VCC Flag	NO(NO)	Enumeration	
VT Flag	NO(NO)	Enumeration	
Supplement Service Right	<input type="button" value="Expand"/>	BitsGroup	
Call-out authority	<input type="button" value="Expand"/>	BitsGroup	

2. Set the right for the ARUN service (by running **ADD/MOD SBR** or **MOD SS**).

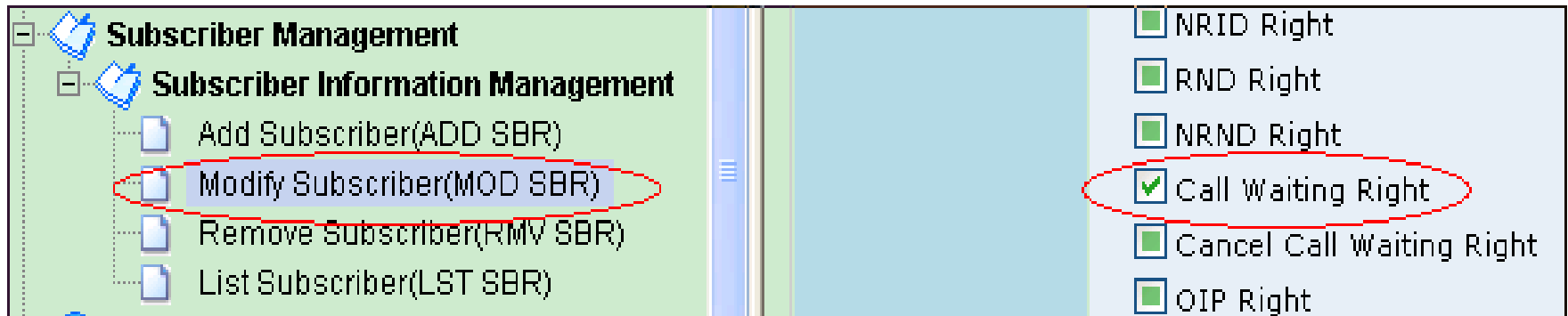
The screenshot shows the 'Modify Supplementary Service Data(MOD SS)' configuration page. On the left is a navigation tree for 'ATS0212' with categories like Subscriber Management, Supplementary Service, and Service Authorization Management. The 'Modify Supplementary Service Data(MOD SS)' option is circled in red. The main area shows a list of rights with checkboxes:

- Green Call Right
- Call Park Right
- Group Pickup Right
- Automatic Report User Number Right
- Multiple Subscriber Number Right

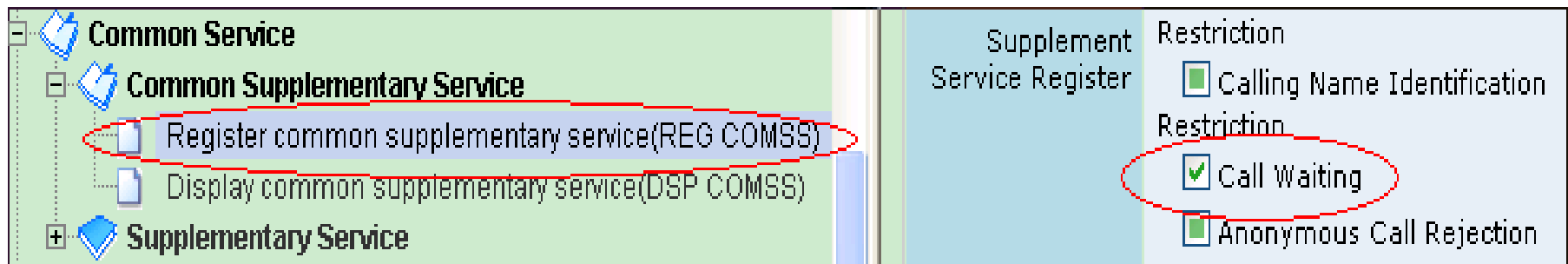
Configuring the CW Service

Note: The CW service can be used after the right is set for the CW service and the CW service is activated.

1. Define a user on the SPG interface (by running **ADD SBR**).
2. Set the right for the CW service. Set **CW** to 1 (by running **ADD/MOD SBR** or **MOD SS**).



3. Activate the right for the CW service (by running **REG SS**).



Configuring the Speed Dial Service

Note: The Speed Dial service can be used after the right is set for the Speed Dial service and the Speed Dial service is registered.

1. Define a user on the SPG interface (by running **ADD SBR**).

The screenshot shows the 'Subscriber Management' interface. On the left, the 'Subscriber Information Management' menu is expanded, and 'Modify Subscriber (MOD SBR)' is highlighted with a red oval. On the right, the 'Right' configuration panel is visible, with 'Speed Dial Right' checked and circled in red. Other options include 'Barring of Incoming Calls When Roaming Outside the Home PLMN Country Right', 'Speed Dial One Digit Right', and 'Speed Dial Two Digit Right'.

3. Register the data of the Speed Dial service (by running **REG SPEED DIAL**).

The screenshot shows the 'Speed Dial Service' configuration interface. On the left, the 'Speed Dial Service' menu is expanded, and 'Register speed dial (REG SPEED DIAL)' is highlighted with a red oval. On the right, the 'Register speed dial (REG SPEED DIAL)' configuration form is displayed, showing the following fields:

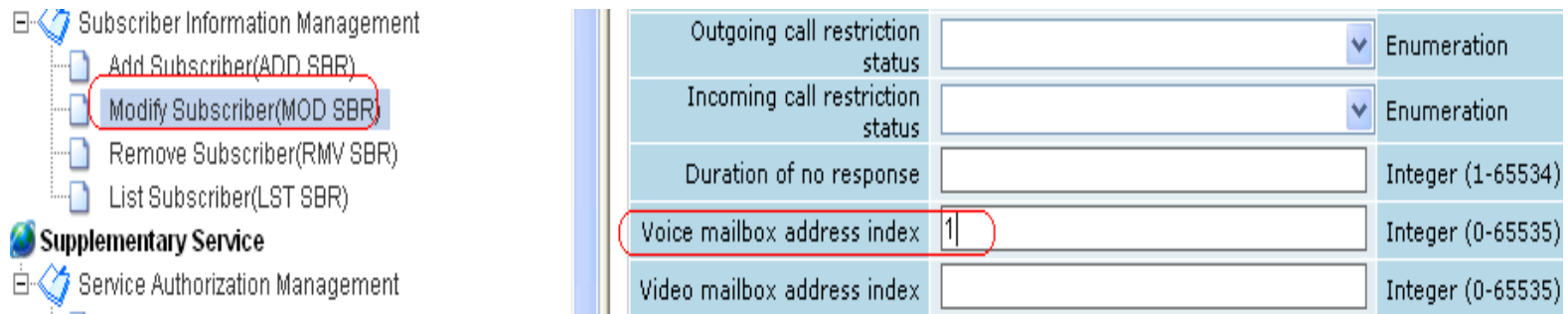
Field	Value	Unit	Required
IMPU		String (1-128)	*
Abbreviated Dial Number		String (1-3)	*
Destination dial number		String (1-32)	*
Register Flag		Enumeration	
Auto Active Flag		Enumeration	

Configuring the CFU-VM Service

1. Add a voice mailbox address on the ATS9900 client.

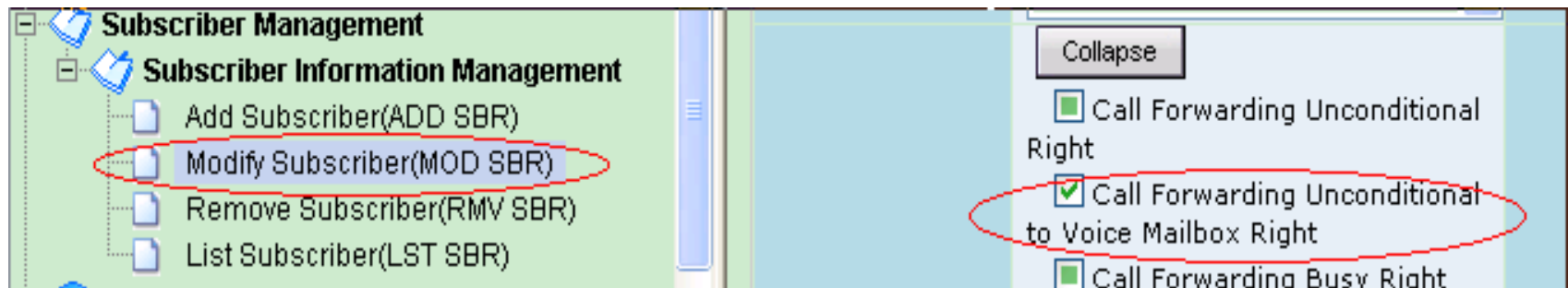
ADD VOICEMAIL: VMAIND=1, VMADDR="sip:571308961@ domain1.huawei.com ";

2. Configure the data of the CFU-VM service on the SPG interface (by running **MOD SBR**).
(Note that **Voice mailbox address index** should be consistent with **Voice mailbox address index** defined in the **ADD VOICEMAIL** command.)



Outgoing call restriction status	<input type="text"/>	Enumeration
Incoming call restriction status	<input type="text"/>	Enumeration
Duration of no response	<input type="text"/>	Integer (1-65534)
Voice mailbox address index	<input type="text" value="1"/>	Integer (0-65535)
Video mailbox address index	<input type="text"/>	Integer (0-65535)

3. Set the right for the CFU-VM service (by running **MOD SBR** or **MOD SS**).



<input type="checkbox"/>	Call Forwarding Unconditional Right
<input checked="" type="checkbox"/>	Call Forwarding Unconditional to Voice Mailbox Right
<input type="checkbox"/>	Call Forwarding Busy Right



Summary

- The configuration flow of hardware data, local data for ATS9900
- The concepts of ATS number analysis data
- The configuration flow of number analysis data for ATS9900

Thank you

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