Documentation

HiPath 4000 V5
IP Solutions - Mobile HFA

Service Documentation

A31003-H3150-S104-1-7620

Communication for the open minded

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Reference No.: A31003-H3150-S104-1-7620

Service Manual HiPath 4000 V4 - IP Solutions - Mobile HFA - Contents

1 Feature Description

1.1 Mobility Session

This feature is an enhancement to the static HFA (HiPath Feature Access).

The idea of mobile HFA is to use the characteristics (classmarks, name, number, keys, ...) of one subscriber (mobile user) on different phones, which might be spread all over the world. We call such a user a “mobile user”.

The mobile user has a phone at his home office and travels to another place (other office or an other country). There he uses a phone (visited phone) as a visitor. He enters a code for the activation of “Mobile HFA” , his home number, his PIN and a possible password to use the visited phone with the characteristics of his phone at home.

If this procedure ends successfully (sufficient classmarks, phone types, ...) his home phone is placed in an out of order state (forced log off). The mobile user can then use the visited phone like his home phone. E.g. the home phone number/name are displayed if a call is established by or to the mobile user, the home phone’s classmarks are valid ...

If the visitor cancels the mobile HFA logon by a logoff, the orginal characteristics of the home phone and the visited phone are reactivated. The time between a mobile HFA logon and logoff at a visited phone is called “mobility session”.

The owner of the visited phone is no longer reachable in this case. All calls to the owner of the visited phone are redirected to a **CFNR** destination.

Activation of feature

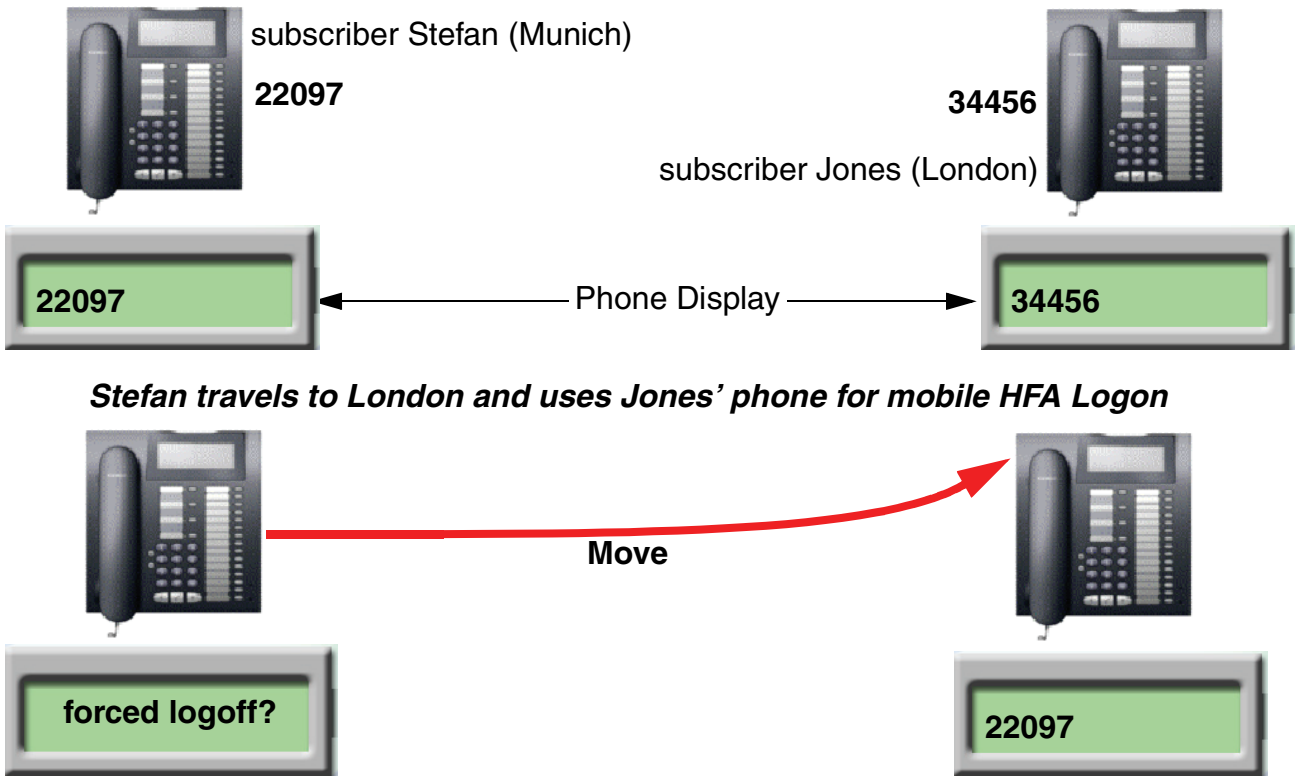


Figure 1-1 Activation of feature

All calls dialed for 34456 are now forwarded to the system **CFNR (Call forwarding no reply)** for subscriber Jones (admin by AMO ZIEL).

If Stefan travels back to Munich he performs the mobile logoff in London (DAR or menu) , or if he forgets he can also cancel it in Munich. In both cases the orginal status of both phones are redone within seconds.

While the London phone is in mobile use nobody can use Stefan's device in Munich.

Any call to Jones does not ring at Jones' device.

The feature can be protected against misuse with passwords, feature blocking and line dependent classmarks.

Call to mobile user

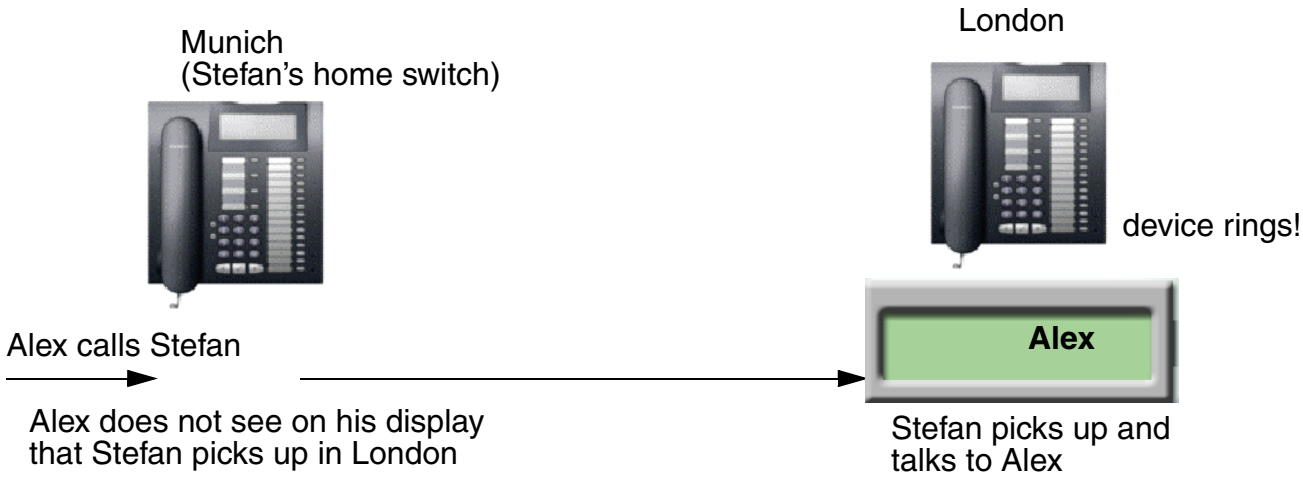


Figure 1-2 Call to mobile user

Call to visited phone

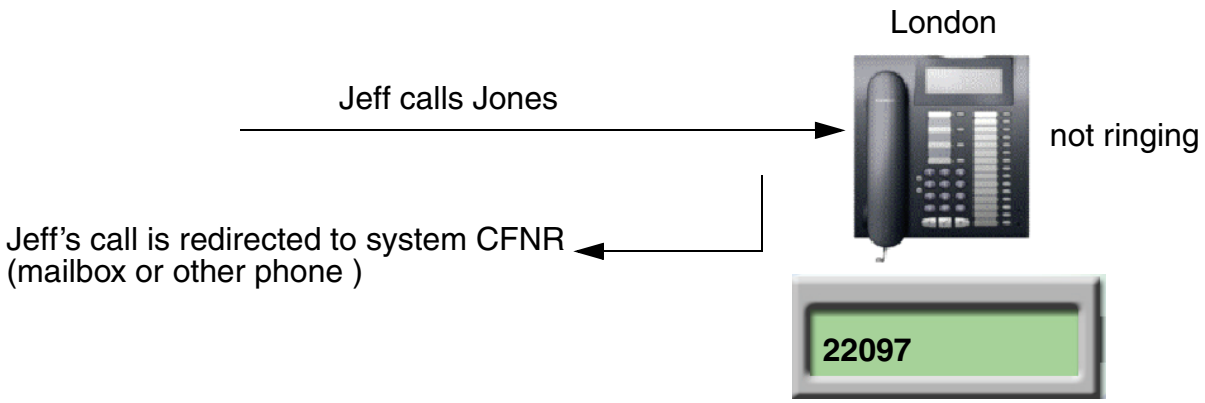


Figure 1-3 Call to visited phone

1.2 Shared Desk Area

Based on the feature "Mobile HFA Logon",the functionality "Shared Desk Area" can be used. The Shared Desk Area is a scenario, that allows a dynamic assignment of telephone devices to users. At a switch a number of users **without fix phones**, and phones with **virtual subscribers** are configured. The phones are spread over various rooms or buildings. The number of phones might be significantly lower than the number of users.

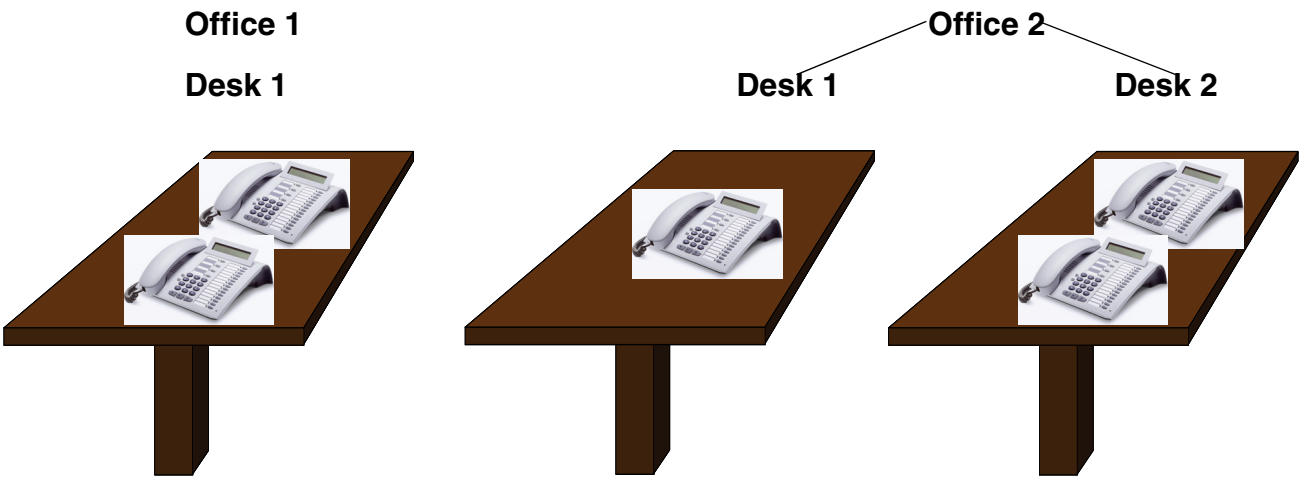
The real users can use any phone of the Desk Area. One terminal can be used by different users one after another.

E.g. user Jones can use a phone starting at 9.00 am. User Jeffrey can use the same phone afterwards when Jones has left the office. Both users can use the same phone using their own user characteristics.

User Jones comes to a phone and logs on with own phone number and password. If the logon succeeds he can phone as “Jones“.

His session is canceled if he logs off or if another user (Jeffrey) logs on to this phone.

After a logoff the phone comes up as configured. For this reason any physical phone must be configured with a virtual subscriber number (Dummy Number).



If a user logs off or his session is canceled by another user logging on at the device this user turns into visited state. That is that any call to him is redirected to the system **CFNR destination**.

In the following example phone numbers starting with “3” indicate users of the shared desk areas configured at the switch. The dummies for the telephones have “names” like “office1 desk12” and corrresponding numbers starting with “2”: 20112 (=office1, desk 12).

Jeffrey 32245 (not in office)

34456 34457 20112



Jones logged on at desk 12 | Wilson loggen on at desk 11 | desk 12

Jones and Wilson are logged on at the phones at desk10 and desk 11.

Calls to ...		
Name	**Number**	**Action**
Jeffrey	32245	are redirected to System CFNR
Jones	34456	ring at desk phone 10
Wilson	34457	ring at desk phone 11
desk10	20110	are redirected to System CFNR
desk11	20111	are redirected to System CFNR
desk12	20112	ring at desk phone 12

Now user Jeffrey logs on at desk phone 11 (knocks out Wilson). Jones logs off and moves to desk 12 for logon.

Wilson 34457 (not in office)

20110 32245 34456



office 1 at desk 10 | Jeffrey loggen on at desk 11 | Jones logged on at desk 12

Calls to ...		
Name	**Number**	**Action**
Jeffrey	32245	ring at desk phone 11
Jones	34456	ring at desk phone 12
Wilson	34457	are redirected to System CFNR
desk10	20110	ring at desk phone 10
desk11	20111	are redirected to System CFNR
desk12	20112	are redirected to System CFNR

2 User Interface

For mobility and shared desk area the procedures for activation and deactivation are identical!

The user has two possibilities to activate a mobile logon:

- via DAR (Digit analysis Result) and
- via service menu.

A third possibility works for admin only: The administration via AMO ACTDA.

2.1 Activation/Deactivation via DAR

The feature via DAR is activated/deactivated at the visited phone.

2.1.1 HFA Logon

Enter the DAR for mobile HFA logon.

Then the user is asked to enter his home number (terminate with #) and his PIN (terminate with #).

Display says “MOBILE HFA LOGON STARTED”. If all checks run ok soon his own display on the home phone is displayed. As it he was really at home.

If the checks do not run ok (wrong password, wrong home number, missing attributes, ...) the rejection is shown on display.

- Mobility session (home phone physicall extended)

  The home phone displays “Forced Logoff - Cancel mobility?” and is not usable, even not for fire brigade or other emergency calls. The only possible action is to cancel the mobility. But this action is protected by password (phone password - not the same as mobility password).

- Shared Desk Area (No physical home phone)

  If the home phone does not exist physically nothing can be displayed on the home. No cancelation from home phone is possible.

2.1.2 HFA Logoff

To logoff enter the DAR for logoff.

The display says “MOBILE HFA LOGOFF STARTED ... “

Soon afterwards the visitors own display comes up again at the visited phone and the home user’s phone comes up at the home switch.

2.2 Activation via menu

The menu items “MOBILE HFA LOGON/LOGOFF” for mobile HFA are located in the service menu. Activate the service menu at the visited phone and step forward/backward with the buttons “<“ and “>” until the menu items for mobile HFA logon/logoff are reached.

The mobile HFA feature can also be reached with service menue and digit “8”’(mobile HFA logon) and digit “9” (mobile HFA logoff).

After confirming logon the user is asked to enter home number and PIN like above.

After confirming an action the behaviour is the same like DAR activation.

2.3 Activation with AMO ACTDA

AMO ACTDA needs three parameters. visited number, home number and PIN.

The Activation with AMO ACTDA is only possible at the switch where the visited phone is configured.

The AMO displays a message if logon runs ok or if it fails (with a reason).

3 Prerequisites

This feature is restricted with different flags in the switch of the visited phone and the switch of the home phone.

Possible phones for mobile HFA

The feature does not work with any type of phone. Both phones must have the capacity for mobile HFA in their firmware. Currently the following phones have this functionality:

- optipoint 410 (not 410 entry),
- optipoint 420 (electronic labeling keys)
- optipoint 600
- OpenStage 20/20G/40/40G/60/60G/80/80G

  If the OpenStage is operated in combination with an optiClient, "optiPoint 420 standard" must be set as the device type in the optiClient (key module with EKL). For more information, refer to "'Mobile Registration' with OpenStage Hardware Terminals" in the optiClient readme file.

AMO prerequisites

- AMO FEASU bit **MOBHFA** must be set on both sides.
- The home phone must have the line attribute **MHFAHOME** in AMO SDAT.
- The visited phone must have the line attribute **MHFATBV** (to be visited) in AMO SDAT.
- For the home phone a PIN must be installed with COPIN attribute **MOBILE**.

Hardware

The mobile HFA phones are connected to the common gateway board (STMI2/4 board).

Password settings

For the mobile user a **mobile password** should be added. This password prevents the "***forced logoff***" at the home station from being cancelled without a password.

- optiPoint terminals

  The password is assigned in the terminal Configuration menu, submenu "***02=System***".
- OpenStage terminals

The password can be asigned via the WBM of the terminal (**Administrator Pages > User mobility > Cancel mobility passowrd**) or directly at the terminal via the menu **Admin > Password > Mobility**.

4 Service Information

4.1 Mobile HFA in Connection with other Features

„Malicious Call Identification“ at visited switch

If the feature “Malicious Call Identification” is activated at the visited switch (AMO PERSI) then the attempts for logon that fail because of wrong password entered, are output on the service terminal of the visited switch.

The output warning looks like this:

```
F2754 M4 N0063 MC TRACE BPA PIN TRACE 04-02-10 13:25:12

ALARM CLASS:CENTRAL:024

STNO INTERN:3581 PIN:25587

FORMAT:34
```

Read: At station 3581 a logon was attempted with PIN 25887.

„Signaling and Payload Encryption (SPE)“

Please refer to the documentation of „Signaling and Payload Encryption“

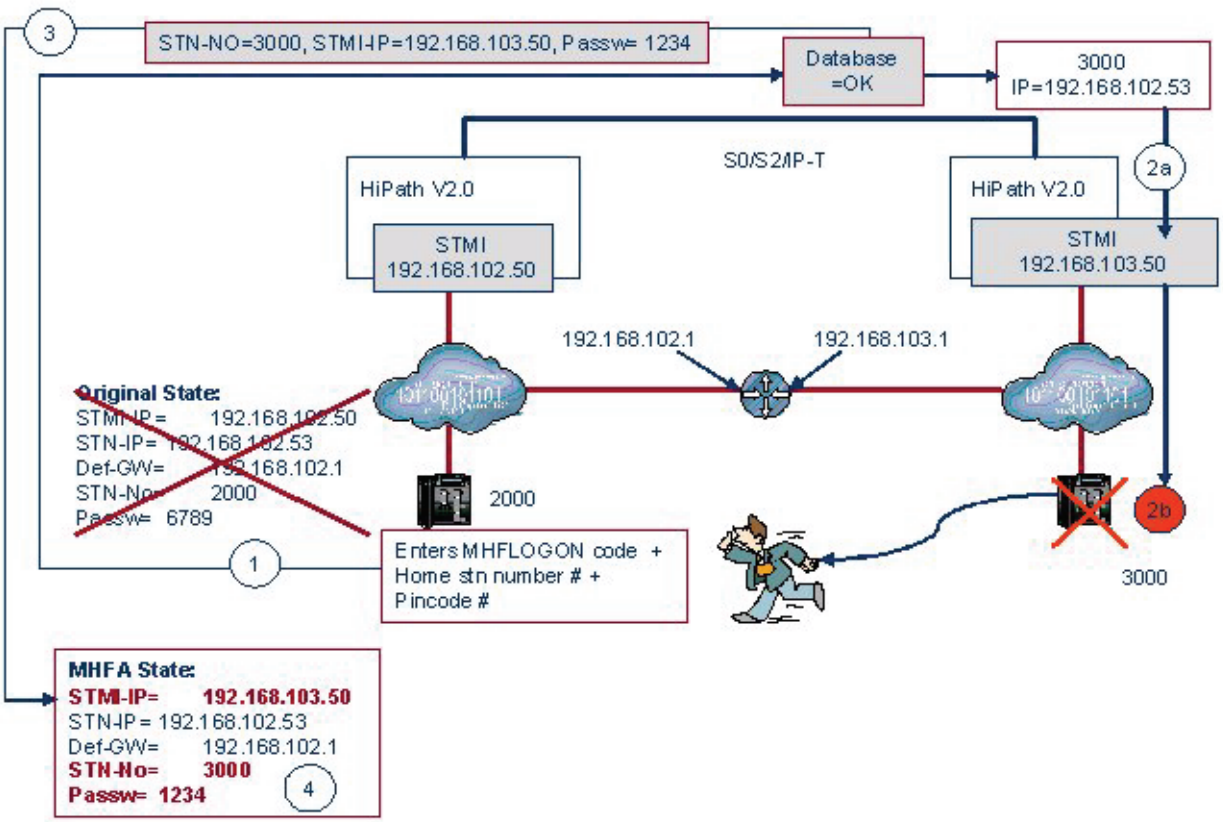
4.2 Language Support

The feature works with the language of the home switch. That means that menu and display texts, which are controlled by the switch software, are displayed in the switch language („Please dial“, „Enter password“,..).

Any messages controlled by the phone firmware (directly, not switch dependent) are only English („Cancel logoff“ , „logging on to home...“).

If the switch language is not set to English, texts are displayed in two languages.

4.3 Logon Sequences



5 Generation

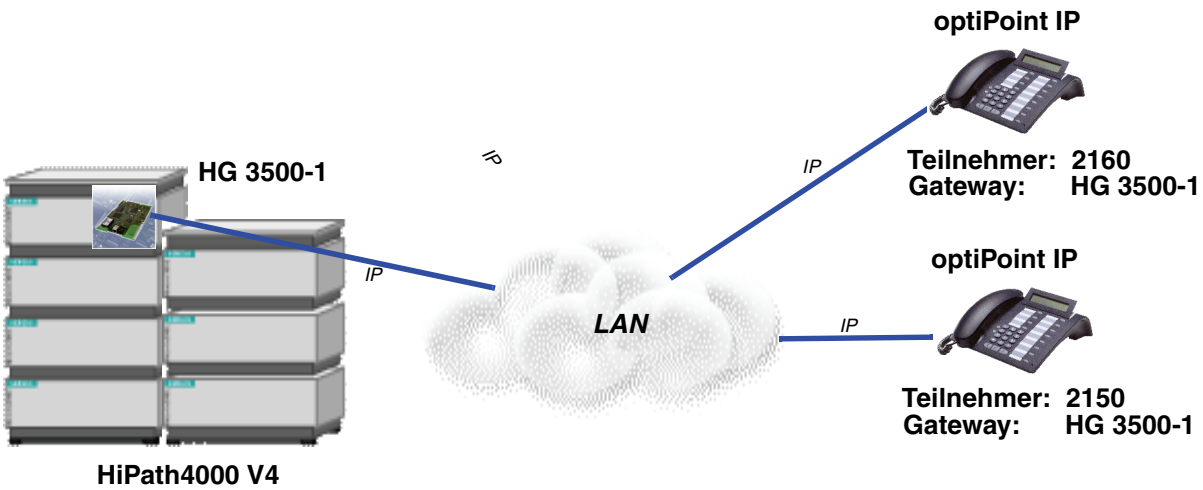
- Important time interval

  After all AM commands to install Mobile HFA are executed wait 3 minutes before starting a mobile HFA logon. HFA boards and IP phones need up to 3 minutes to perform a self-initialization. If a HFA logon is attempted before the self initalization has passed successfully, this logon will possibly fail.

- Preparation
  - Preparation: Reserve memory for boards and subscriber
  - Add board data
  - Add subscriber data
  - Add authorizations and classmarks for feature, subscriber ...
  - Add DARs
  - Add call forwarding destinations
  - Others

5.1 Example 1: Two HFA subscribers in the same Host

The subscriber 2150 shall get the right to be able to identify himself at the terminal of subscriber 2160. The subsriber 2160 shall not get any possibility of the identification. An incoming call for 2160 should be forwarded to subscriber 4444, if 2150 is using the phone of 2160.




```
ADD-DIMSU:TYPE=SYSTEM,CGW=1;
```

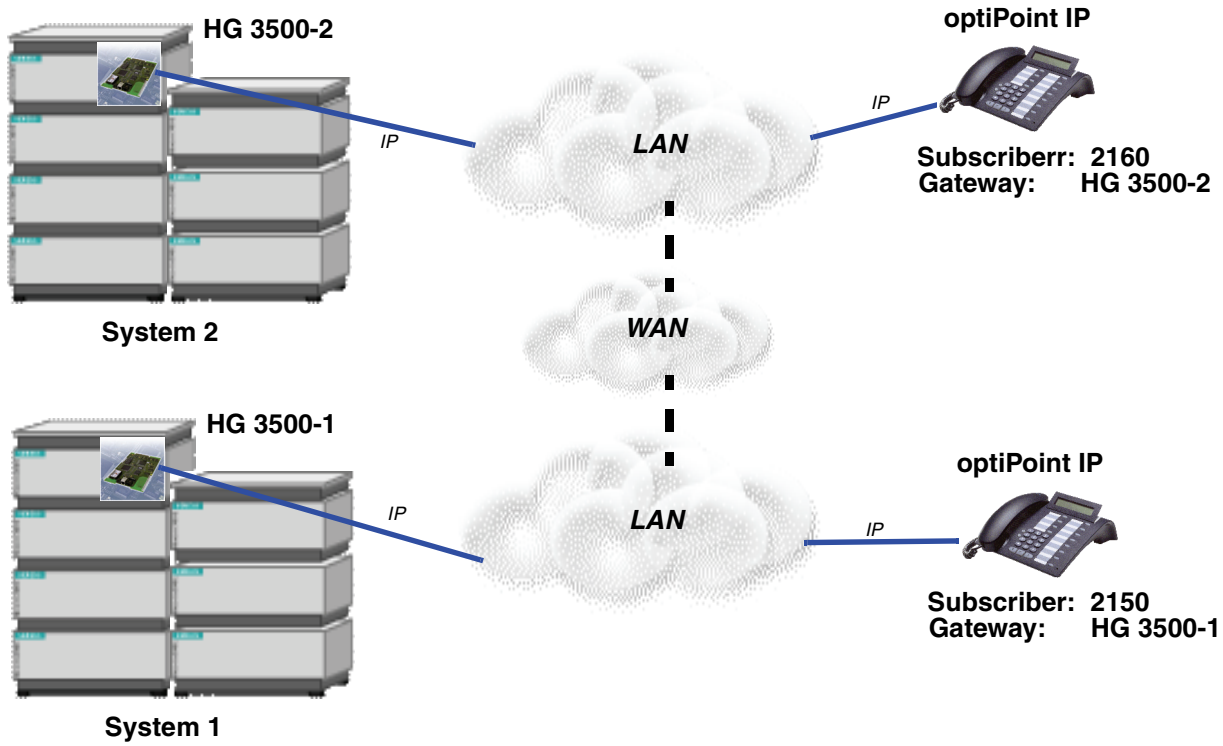
Generation

Example 1: Two HFA subscribers in the same Host

```
ADD-BFDAT:FCTBLK=1,FUNCTION=HG3530,BRDBCHL=BCHL60;

CHANGE-BFDAT:CONFIG=CONT,FCTBLK=1,FUNCTION=HG3530,LINECNT=30,BCHLCNT=30; /*
Configuration of 30 HG 3530 circuits with 30 b-channels

CHANGE-BFDAT:CONFIG=OK,FCTBLK=1,ANSW=YES;


ADD-BCSU:MTYPE=IPGW,LTG=1,LTU=3,SLOT=85,PARTNO="Q2316-X",FC-
TID=1,LWVAR="0",FCTBLK=1,ALARMNO=0;


ADD-
CGWB:LTU=3,SLOT=85,SMODE=NORMAL,IPADR=192.168.1.85,NETMASK=255.255.255.0;


RESTART-BSSU:ADDRTYPE=PEN,LTU=3,SLOT=85;


ADD-SBCSU:STNO=2150,OPT=OPTI,CONN=IP2,PEN=1-3-85-0,DVCFIG=OPTIIP, ...;
ADD-SBCSU:STNO=2160,OPT=OPTI,CONN=IP2,PEN=1-3-85-1,DVCFIG=OPTIIP, ...


ADD-WABE:CD=*95,DAR=MHFALGON,CHECK=N;
ADD-WABE:CD=*96,DAR=MHFALGOF,CHECK=N;


ADD-PERSI:TYPE=STN,STNO=2150,NAME="STEFAN*",PIN1="258861",PININDIV=Y;
CHANGE-PERSI:TYPE=COPIN,COPIN=1,COTYPE=MOBILE, ...;


CHANGE-SDAT:STNO=2150,TYPE=ATTRIBUT,AATTR=MHFAHOME;
CHANGE-SDAT:STNO=2160,TYPE=ATTRIBUT,AATTR=MHFATBV;


CHANGE-FEASU:TYPE=A,CM=MOBHFA;


ADD-
ZIEL:TYPE=FWD,SRCNO=2160,SI=VOICE,DESTNOF=4444,DTYPE=CFNR,ITYPE=GEN,CFVAR=S
YSTEM;


REGENERATE-RICHT;
```

5.2 Example 2: Two HFA subscriber at different systems

The two subscribers 2150 and 2160 shall get the rights to be able to identify themselves at the terminal of the other subscriber. The calls for 2160 should be forwarded to his mobile number 017544444444, if his phone is used as “Mobile HFA Logon”. The calls for 2150 should be forwarded to the subscriber 4444, if his phone is used as “Mobile HFA Logon”.



Generation of the System 1:

```
ADD-DIMSU:TYPE=SYSTEM,CGW=1;


ADD-BFDAT:FCTBLK=1,FUNCTION=HG3530,BRDBCHL=BCHL60;

CHANGE-BFDAT:CONFIG=CONT,FCTBLK=1,FUNCTION=HG3530,LINECNT=30,BCHLCNT=30; /*
Configuration of 30 HG 3530 circuits with 30 b-channels

CHANGE-BFDAT:CONFIG=OK,FCTBLK=1,ANSW=YES;


ADD-BCSU:MTYPE=IPGW,LTG=1,LTU=3,SLOT=85,PARTNO="Q2316-X",FC-
TID=1,LWVAR="0",FCTBLK=1,ALARMNO=0;
```

Generation

Example 2: Two HFA subscriber at different systems

```
ADD-CGWB:LTU=3,SLOT=85,SMODE=NORMAL,IPADR=192.168.1.85,NET-
MASK=255.255.255.0;

RESTART-BSSU:ADRART=LAGE,LTU=3,EBT=85;

ADD-SBCSU:STNO=2150,OPT=OPTI,CONN=IP2,PEN=1-3-85-0,DVCFIG=OPTIIP,....;

ADD-WABE:CD=*95,DAR=MHFALGON,CHECK=N;
ADD-WABE:CD=*96,DAR=MHFALGOF,CHECK=N;

ADD-PERSI:TYPE=STN,STNO=2150,NAME="OPTI IP 1*",PIN1="0512",PININDIV=YES;
CHANGE-PERSI:TYPE=COPIN,COPIN=1,COTYPE=MOBILE,....;

CHANGE-SDAT:STNO=2150,TYPE=ATTRIBUT,AATTR=MHFAHOME;
CHANGE-SDAT:STNO=2150,TYPE=ATTRIBUT,AATTR=MHFATBV;

CHANGE-FEASU:TYPE=A,CM=MOBHFA;

ADD-
ZIEL:TYPE=FWD,SRCNO=2150,SI=VCE,DESTNOF=4444,DTYPE=CFNR,ITYPE=GEN,CFVAR=SYS
TEM;

REGENERATE-RICHT;
```

Generation of the system 2:

```
ADD-DIMSU:TYPE=SYSTEM,CGW=1;

ADD-BFDAT:FCTBLK=1,FUNCTION=HG3530,BRDBCHL=BCHL60;

CHANGE-BFDAT:CONFIG=CONT,FCTBLK=1,FUNCTION=HG3530,LINECNT=30,BCHLCNT=30; /*
Configuration of 30 HG 3530 circuits with 30 b-channels

CHANGE-BFDAT:CONFIG=OK,FCTBLK=1,ANSW=YES;

ADD-BCSU:MTYPE=IPGW,LTG=1,LTU=3,SLOT=85,PARTNO="Q2316-X",FC-
TID=1,LWVAR="0",FCTBLK=1,ALARMNO=0;
```

```
ADD-
CGWB:LTU=3,SLOT=85,SMODE=NORMAL,IPADR=192.168.2.97,NETMASK=255.255.255.0;

RESTART-BSSU:ADDRTYPE=PEN,LTU=3,SLOT=85;

ADD-SBCSU:STNO=2160,OPT=OPTI,CONN=IP2,PEN=1-3-85-0,DVCFIG=OPTIIP,...;

ADD-WABE:CD=*95,DAR=MHFALGON,CHECK=N;
ADD-WABE:CD=*96,DAR=MHFALGOF,CHECK=N;

ADD-PERSI:TYPE=STN,STNO=2160,NAME="OPTI IP 10*",PIN1="0612",PININDIV=YES;
CHANGE-PERSI:TYPE=COPIN,COPIN=1,COTYPE=MOBILE,.....;

CHANGE-SDAT:STNO=2160,TYPE=ATTRIBUT,AATTR=MHFAHOME;
CHANGE-SDAT:STNO=2160,TYPE=ATTRIBUT,AATTR=MHFATBV;

CHANGE-FEASU:TYPE=A,CM=MOBHFA;

ADD-
ZIEL:TYPE=FWD,SRCNO=2160,SI=VCE,DESTNOF=0017544444444,DTYPE=CFNR,ITYPE=GEN,
CFVAR=SYSTEM;

REGENERATE-RICHT;
```

5.3 Relevant AMOs

AMO	Parameter	Sprache/ Language	Beschreibung/ Description
ACTDA	ABMED=GERFREI	d	Erlaubt das Abmelden nur im Freizustand.
	COND=IDLESTN	e	Allows the logoff only if station is idle.
	ABMED=UNBED	d	Erlaubt das Abmelden in jedem Fall.
	COND=UNCOND	e	Condition for logoff: Unconditional logoff
	ACTION=MLOGON	d	Aktivieren des Leistungsmerkmals: Logon eines Mobile HFA-users
	ACTION=MLOGON	e	Activate the feature: Logon of mobile hfa-user

AMO	Parameter	Sprache/ Language	Beschreibung/ Description
	ACTION=MLOGOFF	d	Deaktivieren des Leistungsmerkmals: Logoff eines Mobile HFA-users
	ACTION=MLOGOFF	e	Deactivate the feature: Logoff of mobile hfa-user
	BESRNR	d	Rufnummer des besuchten Teilnehmers
	VISSTNO	e	Station number of the visited station
	HEIMPIN	d	PIN des Besuchers
	HOMEPIN	e	PIN of the visitor
	HEIMRNR	d	Heimrufnummer des Besuchers
	HOMESTNO	e	Home station no. of the visitor
BCSU	ALARMNR	d	Alarm Nummer
	ALARMNO	e	Alarm number
	BKAN3530	d	Anzahl der B-Kanaele fuer die HG3530 Funktion
	BCHN2430	e	Number of b-channels for HG3530 function
	FCTID	d	Function Id ist immer 1
	FCTID	e	Function id is always set to 1
	FCTBLK	d	Funktionsblock-Index (einen beliebigen freien Funktionsblock zwischen 1-20 wählen)
	FCTBLK	e	Function block index (choose a free function block between 1-20)
	LWVAR	d	Index auf Loadware Block der T1 Baugruppe
	LWVAR	e	Loadware variant
	SACHNR	d	Baugruppensachnummer (2. und 3. Block) Q2316-X, Q2316-X10, Q2324-X500, Q2324-X510
	PARTNO	e	Part numver (2nd and 3rd bloc) Q2316-X, Q2316-X10, Q2324-X500, Q2324-X510
	TYP=IPGW	d	IP Gateway (Common Gateway Baugruppe)
	MTYPE=IPGW	e	IP gateway (common gateway board)
BFDAT	ANZBKAN	d	Anzahl der funktionsbezogenen B-Kanäle.
	BCHLCNT	e	Defines the number of b-channels related to the selected function.

AMO	Parameter	Sprache/ Language	Beschreibung/ Description
	ANZSATZ	d	Anzahl der funktionsbezogenen Saetze. Mögliche Werte: 1-240
	LINECNT	e	Defines the number of lines related to the selected function.
	BGBKAN	d	Block fuer Baugruppe mit 60 und/oder 120 B-Kanaelen
	BRDBCHL	e	Dedicates the block for boards with 60 and/or 120 b-channels.
	CONFIG=WEITER	d	Weitere Block-Konfiguration ermöglichen
	CONFIG=CONT	e	Continue block configuration
	CONFIG=OK	d	Block-Konfiguration abschließen
	CONFIG=OK	e	Terminate block configuration
	FCTBLK	d	Dieser Index beschreibt den Funktionsblock welcher auf dem Common Gateway konfiguriert werden soll. Anhand des Funktionsblocks wird die Konfiguration der benötigten pyhsikalischen Lines (Sätze der Baugruppe) festgelegt.
	FCTBLK	e	This index describes the function block which should be configured on the CGW board. With that index the amount of needed physical lines (board circuits) is calculated.
	FUNCTION	d	Dieser Parameter legt das Konfigurationsprofile des Common Gateways fest. Dabei muss die eventuell benötigte HG 3570 Funktion als erste angeführt werden. Falls ein bestimmter Line-Bereich für die Funktionen HG 3530 oder HG 3550 vorreserviert werden soll, muss die entsprechende Funktion am Ende stehen und mit dem Wert HG35xxR abgeschlossen sein. Die Funktion STANDBY kann nur als Einzel-Funktion konfiguriert werden.

AMO	Parameter	Sprache/ Language	Beschreibung/ Description
	FUNCTION	e	This parameter defines the configuration profile of the common gateway board. If HG3570 functionality is used, it must be configured at first position. If a prereservation of a certain line range of functions HG3530, HG3540 or HG3550 is desired, this function must be at the end of the profile just suffixed by the according HG35xxR value. The function STANDBY can only be configured as single function.
CGWB	SMODE=NORMAL	d	Standby Mode oder Normal Mode Eine Baugruppe im Normal Mode hat gültige Baugruppendaten und normalerweise auch OPTIIPs konfiguriert. Eine Baugruppe im Standby Ready Mode hat keine gültigen Baugruppendaten, auf diese Baugruppe können OPTIIPs umgeschaltet werden, falls eine andere Baugruppe aus demselben Baugruppen-Pool (AMO BPOOL) defekt wurde. Eine Baugruppe im Standby Defekt Mode hat ebenfalls keine gültigen Baugruppendaten, diese Baugruppe hat aufgrund eines Defekts seine OPTIIPs und seine Baugruppendaten abgegeben.
	SMODE=NORMAL	e	Standby Mode or Normal Mode A board in Normal Mode has valid board data and normally also OPTIIPs assigned to it. A board in Standby Ready Mode has no valid board data, to this board OPTIIPs can be switched over if another board of the same board reconfiguration pool (AMO BPOOL) becomes defective. A board in Standby Defect Mode has also no valid board data, this board has lost its OPTIIPs and its board data to another board because it's gone defective.
	IPADR	d	IP Adresse der Common Gateway Baugruppe (Source Adresse)
	IPADR	e	Source IP address of common gateway board

AMO	Parameter	Sprache/ Language	Beschreibung/ Description
	NETMASK	d	IP-Netzmaske des LAN-Segmentes. Die IP-Netzmaske bestimmt die Grenze zwischen Netz- und Host-Teil in der IP-Adresse. Alle IP-Adressen am LAN-Segment müssen bezüglich des Netzanteils der IP-Adresse gleich und bezüglich des Host-Teils unterschiedlich sein (auch der Default Router muss dieser Bedingung entsprechen).
	NETMASK	e	IP net mask of LAN segment The IP net mask determines the network and the host partition of an IP address. All IP addresses of a LAN segment must contain the identical network addresss part but different host address parts (also the Default Router must fulfill this requirement).
DIMSU	CGW	d	Speicherreservierung für eine Common Gateway Baugruppe und Baugruppen bezogene Teilnehmerdaten
	CGW	e	Number common gateway boards
FEASU	LM	d	LM=MOBHFA
	CM	e	CM=MOBHFA
	TYP	d	TYP=FREI Aktivieren des Leistungsmerkmals
	TYPE	e	TYPE=A Activate the feature
PERSI	COPIN	d	Class of PIN
	COPIN	e	Class of PIN
	PIN1	d	PIN (Passowrt für HFA)
	PIN1	e	PIN (password for HFA)
	PINTYP	d	PINTYP=MOBIL COPIN-Typ fuer netzweiten Transfer der COPIN im CorNet Protokoll
	COTYPE	e	COTYPE=MOBILE COPIN type
	RUFNU	d	Rufnummer des Teilnehmers
	STNO	e	Station number

AMO	Parameter	Sprache/ Language	Beschreibung/ Description
	TYP=COPIN	d	Mindestens eine COPIN (1-15) muss das Attribut Mobil haben.
	TYPE=COPIN	e	At least one COPIN (1-15) must have the attribute Mobile.
	TYP=TLN	d	Teilnehemr einrichten
	TYPE=STN	e	add a station
SBCSU	ANSCHL=IP2	d	Anschluss-Art der Geräte IP2=Anschluss ueber IP (HFA Gateway Version 2)
	CONN=IP2	e	Device Connection Type IP2=Connection via IP (HFA gateway version 2)
	ART=OPTI	d	Hauptrufnummer des IP-Telefonanschluss einrichten
		e	
	GERKON=OPTIIP	d	Geräte-Konstellation eines Teilnehmers OPTIIP=IP Sprachterminal
	DVCFIG=OPTIIP	e	Device Configuration OPTIIP=Digital IP voice terminal
	IPPASSW	d	passwort fuer ip login prozedur
	IPPASSW	e	Password for IP logon procedure
SDAT	EMERK	d	EMERK=MHFAMOE Merkmal des Heinat-Telefons EMERK=MHFATBV Merkmal des “besuchten“ Telefons
	AATTR	e	AATTR=MHFAMOE HFA home phone of visitor AATTR=MHFATBV mobile HFA phone which can be visited
	TLNNU	d	Teilnehmerrufnummer
	STNO	e	Station number
	Typ	d	TYP=MERKMAL Teilnehmermerkmale administrieren
	ATTRIBUT	e	TYPE=ATTRIBUT Administrate subscriber attributes (service=voice)

AMO	Parameter	Sprache/ Language	Beschreibung/ Description
WABE	KZP=MFALGON	d	Kennzahlpunkt für Aktivierung
	DAR=MFALGON	e	Logon by a mobile hfa subscriber
	KZP=MFALGOF	d	Kennzahlpunkt für Deaktivierung
	DAR=MFALGOF	e	Logoff by a mobile hfa subscriber
	PRUEF	d	Prüfumfang
	CHECK	e	Scope of check
	RNR	d	2 Rufnummern für Aktivierung / Deaktivierung (*95/*96)
	CD	e	2 station numbers for activation / deactivation (*95/*96)
	VKS	d	Verkehrssituation (5 = Teilnehmer-Vorwahl)
	CPS	e	Call progress state
	WABE	d	WABE-Gruppe
	DPLN	e	Feature access group
ZAND	APIMAX	d	Maximale Anzahl der gleichzeitig aktiven API Sessions. DB-Initialisierung: 10
	APIMAX	e	Maximum number of allowable active API sessions.
	KENNL	d	Linearisierungs- und Kompandierungskennlinien bei der PCM-Kodierung/Dekodierung. Der eingegebene Wert wird zum einen in die zentralen Anlagendaten übernommen, zum anderen bei eingerichteter LTG auch in die entsprechenden COFI-Daten. Der Wert in den zentralen Anlagendaten ist auch gültig bei der Konfiguration von NCUI-Baugruppen in IPDA-Shelfs.Es sollte daher nach Konfiguration von IPDA-Shelfs dieser Wert nicht mehr geändert werden!

AMO	Parameter	Sprache/ Language	Beschreibung/ Description
	CODE	e	Speech coding.The entered value will be issued once to central system data and once for assigned LTG in the according COFI-data. The value in central system data is also valid for configuration of NCUI-boards in IPDA shelfs. Therefore this value should not be changed after configuration of IPDA-shelfs!
	TYP=CIT	d	Konfigurieren von fiktiven Geräten, Einstellungen für API Schnittstelle
	TYPE=CIT	e	Configure virtual stations, settings for API interface
	TYP=CONFC	d	Länderspezifische Einstellung für KENNL, K- oder TDAEMPF. Dieser Zweig gilt nur für kompakte Hardware.
	TYPE=CONFC	e	Selection of country-specific settings for CODE, CONFAT STNAT. This branch is only for compact hardware.
ZIEL	AULVAR=SYSTEM	d	Systemumleitung
	CFVAR=SYSTEM	e	system call forwarding
	KART	d	KART=GEN (alle Anrufe) Kommende Belegungsart des AUL-Zieles
	ITYPE	e	ITYPE=GEN (all calls) incoming seizure of fwd feature
	QLRUFNU	d	Quellenrufnummer
	SRCNO	e	station number of source
	SI=VOICE	d	Service Sprache
	SI=VCE	e	service voice
	TYP=AUL	d	Verbindungstyp Anrufumleitung
	TYPE=FWD	e	Call Forwarding
	UART=CFNR	d	Anrufumlenkung bei nicht melden
	DTYPE=CFNR	e	call forwarding no reply
	ZLRUFNU	d	Zielrufnummer
	DESTNOF	e	destination number for forwarding

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