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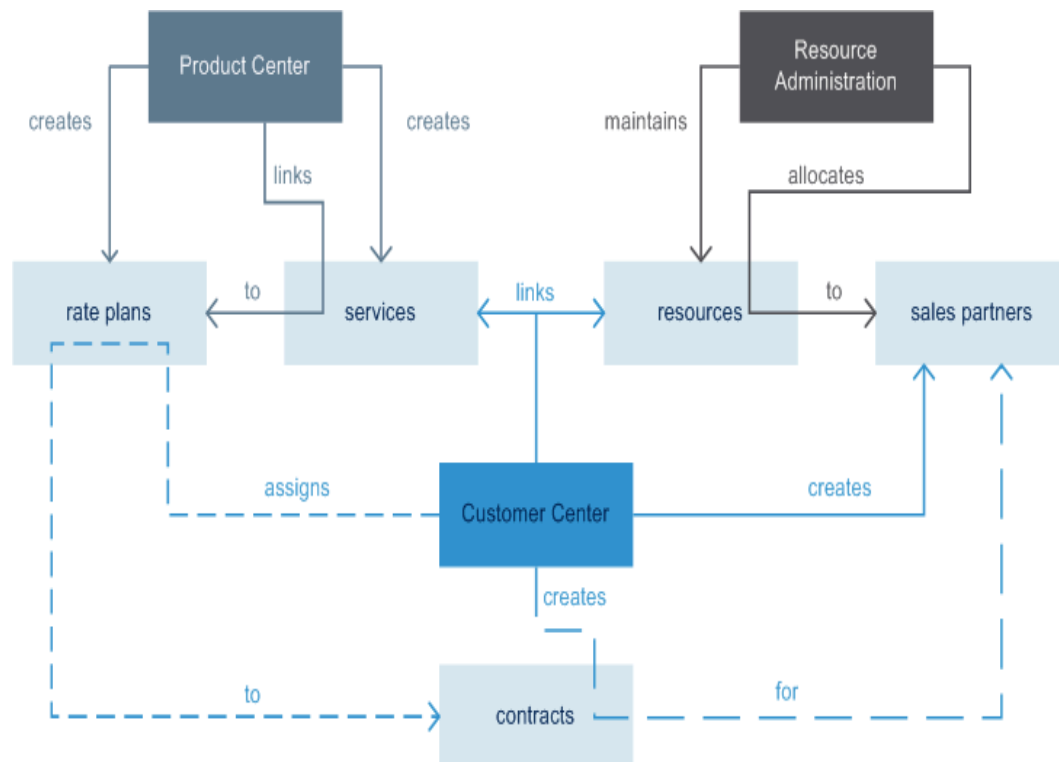
## 1. RA Overview

Resource Administration is used to manage resources of the following type:

- directory numbers
  - regular telephone numbers
  - access point names (APNs)
  - packet data protocol (PDP) addresses
- ports
- storage media
- closed user groups (CUGs)
- virtual private networks (VPNs)

Refer to the [Resources](#) concept for more information about those resource types.

Resources can be created in RA, ordered from vendors (refer to [PPC Files](#)), or imported into RA (refer to [Importing Resource Files](#)). They are allocated to the sales partners that are created and maintained in Customer Center (CX). Resources are also linked to services and, hence, to contracts in CX.



Interaction with other applications

Since different resources are required in the different markets, RA is structured based on markets. The following markets are supported:

- AMPS
  - Calling Card (CCD)
  - GSM
  - Intelligent Network (IN)
  - ISDN
  - Leased Line (LLI)
  - X.25
- Customization

RA can be customized to a large extent during the database setup. This affects the appearance of your graphical user interface (GUI) because many window items can be adapted to your specific needs.

The following GUI changes are possible:

- Mandatory window items can be made optional and vice versa.
- Window items can be hidden.
- Item labels can be changed.

## 2. RA Configuration Options

### 2.1 Configuration Tables

Table	Description
<a href="#">AUC_DIRECTORY</a>	Contains the HLR- specific directories for the Authentication Center (AuC) interface files. <a href="#">Details of configuration settings in this table</a>
<a href="#">MPSCFTAB</a>	Contains settings related to the configuration of PPC and AuC files. <a href="#">Details of configuration settings in this table</a>
<a href="#">RA_MPDSCTAB</a>	Contains market-specific settings. <a href="#">Details of configuration settings in this table</a>
<a href="#">VENDOR_ALL</a>	Contains SIM card vendors. <a href="#">Details of configuration settings in this table</a>
<a href="#">VENDOR_DIRECTORY</a>	Contains the directories for the vendor-specific Pre-Personalization Center (PPC) input and output files. <a href="#">Details of configuration settings in this table</a>

## 2.2 Feature Codes

The application evaluates the following feature codes:

<b>FC 0: SIF year format</b>		
OFFSET:	0	
Values:	4	If SIF contains year information, the year is defined by 4 numbers.
	else	If SIF contains year information, the year is defined by 2 numbers.
<b>FC 1: This feature code is not used.</b>		
OFFSET:	1	
<b>FC 2: This feature code is not used.</b>		
OFFSET:		2
<b>FC 3: This feature code is not used.</b>		
OFFSET:		3
<b>FC 4: This feature code is not used.</b>		
OFFSET:	4	
<b>FC 5: User Dealer Restriction</b>		
OFFSET:	5	
Values:	S	BSCS user needs only permission to administrate the source of the dealer table.
	N	BSCS user needs no permissions defined by ROLES_DEALERS.
	else	BSCS user must have access to source and destination level of the dealer table.
<b>FC 6: This feature code is not used.</b>		
OFFSET:	6	
<b>FC 7: Enable 'Process active APN's already used as service parameters' checkbox</b>		
OFFSET:	7	
Values:	X	Enable the <b>Process active APN's already used as service parameters</b> check box in the <b>Link APNs to GPRS service</b> window.
	else	Disable the <b>Process active APN's already used as service parameters</b> check box in the <b>Link APNs to GPRS service</b> window.

## 3. RA Tasks


















### 3.1 Working with Resource Administration

Resource Administration maintains internal resources only. Resources that were entered in Customer Center are not maintained.



#### 3.1.1 Workflow in Resource Administration

Resources are market-specific, which means that the first step is always to select a market. Most Resource Administration functions are not available if no market is selected. Then you can continue with the actual task on hand - creating, ordering or importing the resources you require.

#### 3.1.2 Icons

Icon	Name	Description
	New	Clears all items from the window so that you can make new entries.
	Open	Opens existing data, such as purchase orders.
	Save	Saves your entries.
	Close	Closes the window. If data has been changed but not saved, you are asked if you want to save these changes.
	Delete	Deletes data.
	Refresh	Updates the data displayed on the screen after you have made changes.
	Add item to order	Adds the current item to the purchase order. A validation check is performed.
	Check	Checks the data of the PPC output file of the currently selected purchase order item in the table. If inconsistencies are found, the <b>Check Purchase Order Item Result</b> window opens.
	Assign	Retrieves free resources from the database and prepares them for allocation to a sales partner.
	Deassign	Retrieves reserved resources from the database and prepares them for removal from the sales partner.
	New Order Item	Lets you allocate resources to or remove resources from the same sales partner.
	Search	Opens the <b>Find Dealer/Provider</b> window, in which you can search for a sales partner.
	First	Goes to the first entry.
	Last	Goes to the last entry.
	Next	Goes to the next entry.
	Previous	Goes to the previous entry.
	View	Displays the report created.



Icon	Name	Description
	<b>Print</b>	Prints the report created.
	<b>Print window</b>	Prints the window on the default printer. Note that only the window cutout you see on the screen is printed,

## 3.2 General Handling of Resources

**Resources** are identifiers which are linked to a customer's contract. They can identify the customer, the equipment, or the logical entry to the network. For more details on resources and the different resource types, refer to the [Resources](#) concept.

The following tasks can be carried out for all resources, independent of the market they belong to:

### 3.2.1 Importing Resource Files

In every market, you can import resources into the database instead of creating or purchasing them:

*Importable resource types*

Market	Port	Directory Number	Closed	User Group
AMPS	X	-	-	-
Calling Card	X	-	-	-
GSM	X	X	X	X
IN	-	X	-	-
ISDN	X	X	X	X
Leased Line	X	-	-	-
X.25	X	X	X	X

Resources can be imported directly by using the file interface without submitting a purchase order. PPC input files are not involved. However, if you want to import resource files, a telecommunications provider-specific version of a `ppcfile.dll` has to be available, because the maintenance of resource files requires the implementation of a customized file interface. This interface can also be used for PPC files.

The resources are read from an ASCII file and saved directly in the database. This function can be used primarily if an external resource management system is implemented. Imported resources are usually set to **free** status, which means they are in the internal resource pool and can be allocated to any sales partner.

In a multicompany deployment scenario, ports and directory numbers have to be linked to business units. If these resources are imported into the system, a business unit for the imported resources has to be specified. The resources are then linked with the sales partner specified in the import file and the business unit specified by the user. If the resources are imported for a service provider, they can be linked with the service provider's business unit only.

Select a market from the **Market** list box.

Select **Actions** > **Ports** or **Directory Numbers** or **Closed User Groups** > **Import Resource File**.

The **Import Resource File** window opens.

Select the resource vendor from the **Vendor** list box.

Click **Search** to search for the appropriate file that contains the resources required.

The **Choose File** window opens and the directory reserved for imported resource files is open.

The directory for importing files is determined during the database setup and cannot be changed during run time.

Select an appropriate file and click **Open**.

The **Choose File** window closes and the file path is entered in the **File to Import** text box.

If you are importing **AMPS ports**, make the following selections:

- Select the combination of numbering plan and directory number type with which the resources are associated from the list provided in **Numbering plan**.
- Select the network that is valid for the ports.
- Select the home location register for the ports.

If you are importing **preactivated, prepaid ports** for the **Calling Card and GSM** markets, make the following selections:

- Select the network to be assigned to the ports.
- Select a home location register from either the **REG** or **HLR** list box depending on the market.  
This list box is not available if only one HLR is configured in the database.
- Select the prepaid profile to be assigned to the ports.

Click **Import** to process the resource file.

- The file is opened.
- Each record is validated.
- The number of validated records is displayed.
- The resources are loaded into the database.

If the resources are MINs and in the home range of MIN Block Identifiers, they are linked to the selected HLR and network.

If the resource file includes the external identification code of a sales partner or provider, the resource are given the status **reserved**. If not, it is given the status **free**.

Click **Close** to close the **Import Resource File** window.

### 3.2.2 Assigning Resources to Sales Partners

It is also possible to allocate imported resources to a specific sales partner if the external identification codes of sales partners are contained in the same file. In this case, the status is set to **reserved**.

When resources are assigned to a sales partner or service provider, they have to be linked to a business unit if the system is deployed in a multicompany environment. During the import of resources, a business unit has to be specified which is assigned to the resources if a specific sales partner is contained in the import file.

The maintenance of resource files requires the implementation of a customized file interface that is also used for PPC files. Therefore, a telecommunications provider-specific version of a `ppcfile.dll` has to be available if you want to import resource files.

Resources have to be allocated to a sales partner or a service provider before they can be assigned to services in Customer Center.

You can assign or remove resources in large numbers.

When resources are assigned to a sales partner, their status is set to **reserved**. As a result, they can be maintained only for the selected sales partner.

In a multicompany deployment scenario, you have to specify the business unit for which the resources are valid. Resources can be used only for those contracts that belong to the same business unit as the resource.

When resources are removed from a sales partner, their status is set to **free** and the link to the business unit is removed. This means the resources are available for allocation to other sales partners.

When reserving resources for dealers within a sales hierarchy, the party role of the dealer is used to find the appropriate dealer. Party roles are defined in Partner Customer Center (Partner CX).

If an electronic communication is configured for a selected sales partner in the database, the resources assigned are written to a file. This file can be electronically transferred if the sales partner involved is connected to the central site by ISDN or other electronic means.

Two file name formats are supported:

- The file name `xxxxxxx.xxx` in DOS format is used if specified in Partner CX.
- If no file name was specified in Partner CX, the following format is used: `CUSTCODE_YYYYMMDD_MARKET_RESOURCE.XXX`.

### 3.2.3 Changing the Status of a Resource

The status of individual resources can be changed from **deactive** to **free** or **reserved**. Mass changes, however, are not possible. Resources include:

- ports
- directory numbers
- storage media
- closed user groups

If a resource has been deactivated by a process; for example, if a SIM card has been reported as stolen or invalid in the AuC, this resource can be made available again by resetting or releasing it.

When reset, the status is changed to free, when released, the status is changed to reserved. In the latter case, the resource is reassigned to the former sales partner or service provider.

When the status of a port, directory number or storage medium is set to free, the link to the sales partner and the business unit is removed.

Select a market from the **Market** list box.

Select **Actions** > **Change Resource Status**.

The **Change Resource Status** window opens.

Select the resource type from **Resource Type** list box.

Which resources are available depends on the market.

Select the the combination of numbering plan and directory number type with which the resource is associated from the list provided in **Numbering plan**.

Select the network that is valid for the resource.

This list box is not available if an Interlock code (Closed User Group) can be selected from the **Resource Type** list box.

Select a Virtual Private Network from the **VPN** list box if the resource is linked to a VPN.

The **VPN** list box is available only if the numbering plan supports the data formats required by the access point name (APN) and the Packet Data Protocol (PDP) and if the GSM market is selected.

Enter the resource number, which is either a port, a directory number or a storage medium, in the **Resource Number** text box.

Which status do you want the deactive resource to have?

Free.

Click **Free**.

Reserved.

Click **Reserve**.

Click **Close** to close the **Change Resource Status** window.

## 3.3 AMPS Resources

### 3.3.1 What is AMPS?

AMPS (Advanced Mobile Phone Service) is the most widely deployed cellular phone system in the United States. Call setup data is transmitted digitally, while voice transmission is analog. The resources used in the AMPS technology are the following:

Resource Type	Name
Port	MIN
Port	IRM
Storage medium	ESN
Directory number	MDN

For roaming purposes a special MIN format called the IRM is used.

Each cell site is identified by its cell global identifier (CGI).

AMPS in RA

You can create ports and directory numbers or import them. It is also possible to delete them.

Refer to the following sections for more information:

- [Creating and Deleting AMPS Ports](#)
- [Creating and Deleting AMPS Directory Numbers](#)
- [Importing Resource Files](#)

Resources have to be allocated to a sales partner before they can be assigned to a contract.

Refer to the following sections for more information:

- [Allocating AMPS Ports to a Sales Partner](#)
- [Allocating AMPS Directory Numbers to a Sales Partner](#)

RA also deals with functions necessary for roaming in AMPS networks.

Refer to the following sections for more information:

- [Creating a Roaming Agreement Group](#)
- [Maintaining BIDs](#)
  - [Creating a BID](#)
  - [Creating a BID Group](#)
  - [Assigning a Phone Number Range to a Home BID](#)

- [Assigning a CGI Range to a Serving BID](#)

### 3.3.2 Creating and Deleting AMPS Ports

From the **Market** list box, select **AMPS**.

Select **Actions** > **Ports** > **Generate/Delete....**

In the **Generate/Delete MIN for AMPS** window, select an item from the following list boxes:

- **Numbering plan**
- **Network**
- **HLR**
- **MBI**

This list box is not available if only one HLR is configured in the database.

Use the **from** and **up to** items to define the range of MINs.

Click **Create** or **Delete**, and then click **OK** to confirm.

Click **Close**.

### 3.3.3 Creating and Deleting AMPS Directory Numbers

Select **AMPS** from the **Market** list box.

Select **Actions** > **Directory Numbers** > **Generate/Delete....**

The **Generate/Delete Directory Numbers for AMPS** window opens.

Select the combination of numbering plan and directory number type with which the directory numbers are associated from the list provided in **Numbering plan**.

Select the **Network**.

Select the national destination code from the **NDC** list box.

Select the physical home location register from the **HLR** list box.

This list box is not available if only one HLR is configured in the database.

Select the logical HLR from the **Range** list box.

Logical HLRs are subsets of the physical HLR. They are available only if the selected physical HLR comprises more than one logical HLR.

The **Constant Part** text box displays the part of the number which is common to all directory numbers covered by the selection above.

Determine the range of directory numbers to be created or deleted. Enter the first and last number of the extensions in the **from** and **up to** text boxes. These numbers must be within the default range and have the same length.

The first extension must not be the same as the international access code configured in the database.

You can narrow down the creation or deletion of directory numbers to one or more types by selecting one or more types from the **Numbers of type** list box. By default, all entries are selected.

The clsfydn.dll is used to customize type-specific directory numbers.

- V.I.P.: ending in 00
- Golden: ending in 99
- Regular: all other numbers not ending in 00 or 99

Do you want to create directory numbers or delete them?

Create directory numbers.

Click **Create**.

A message shows the numbers of directory numbers to be created.

Delete directory numbers.

Click **Delete**.

A message shows the numbers of directory numbers to be deleted.

Click **OK** to create or delete the range of directory numbers.

A message appears if any of the directory numbers cannot be created or deleted.

If the directory numbers you want to create overlap with already existing directory numbers, they cannot be created. For more details about overlapping numbers, refer to [Directory Numbers](#) in the Resources concept.

Click **Close** to close the **Generate/Delete Directory Numbers for AMPS** window.

### 3.3.4 Allocating AMPS Directory Numbers to a Sales Partner

Directory numbers have to be allocated to a sales partner or service provider before they can be assigned to a contract.

For this purpose you can do either of the following:

- Create directory numbers and allocate them.
- Remove directory numbers from one sales partner and re-allocate them to another.

If the system is deployed in a multicompany environment, you have to specify the business unit to be assigned to the resource during the allocation of resources to a sales partner. Resources can be used only for those contracts that belong to the same business unit as the resource.

To remove directory numbers from a sales partner, perform the steps below and click the **Deassign** icon. This changes the status of the specified directory numbers to **free**.

You cannot remove directory numbers if they are assigned to a contract.

Select **AMPS** from the **Market** list box.

Select **Actions** > **Directory Numbers** > **Distribute....**

The **Distribute Directory Number for AMPS** window opens.

Select the combination of numbering plan and directory number type with which the directory numbers are associated from the list provided in **Numbering plan**.

Select the **Network**.

Select the national destination code from the **NDC** list box.

Select the physical home location register from the **HLR** list box.

This list box is not available if only one HLR is configured in the database.

Select the logical HLR from the **Range** list box.

Logical HLRs are subsets of the physical HLR. They are available only if the selected physical HLR comprises more than one logical HLR.

Enter the identification code of the sales partner or service provider in the **Dealer/Provider** text box.

The address and total quantity associated with this sales partner appear in the text boxes.

If you do not know the identification code, click the **Search** icon to open the **Find Dealer/Provider** window. Various search criteria are available to help you find the required sales partner. Refer to [Searching for Sales Partners](#) for more information.

Select the business unit for the resources.

The **Business Unit** list box is available only if you run the system in a multicompany environment.

Enter the **Quantity** of directory numbers you want to allocate .

You can enter the first number of the range of directory numbers to be allocated in the **1 st Number** text box. The subscriber-specific part of the directory number must be entered without the national destination code.

Directory numbers whose extension corresponds to the entered length are allocated .



If you do not enter a number, directory numbers of any length within the minimum or maximum length configured are allocated .

The directory number you enter must not exceed the minimum and maximum length of the extension configured in the database.

You can narrow down the directory numbers to one or more types by selecting one or more types of directory numbers from the **Numbers of type** list box. By default, all entries are selected.

- V.I.P.: ending in 00
- Golden: ending in 99
- Regular: all other numbers not ending in 00 or 99

The `clsfydn.dll` is used to customize conventions for the creation of type-specific directory numbers.

To check the number of directory numbers that can be allocated, click the **Assign** icon.

The number of available directory numbers is displayed in the table at the bottom of the window. If not enough directory numbers are available in the database, a message appears. If so, adjust the number in the **Quantity** text box.

To change the selection of directory numbers, you can select or clear specific directory numbers in the table as follows:

- To change the selection of individual rows, click one or more rows separately.
- To clear a large number of directory numbers, click **None** and select one or more rows.
- To select a large number of directory numbers, click **All** and clear one or more rows.

The directory numbers in the rows you selected (check mark) are allocated .

Click the **Save** icon to change the status of the directory numbers selected to **reserved** .

You can allocate more directory numbers. For which sales partner do you want to repeat the procedure?

For the same sales partner.

Click the **New Order Item** icon.

For a different sales partner.

Click the **New** icon.

The entries you made before are cleared.

Click the **Close** icon.

The **Distribute Directory Number for AMPS** window closes.

### 3.3.5 Allocating AMPS Ports to a Sales Partner

AMPS ports have to be assigned to a specific sales partner or service provider to be available for new contracts. For this purpose you can either assign newly created resources or redistribute resources by removing them from one sales partner and re-assigning them to another.

If the system is deployed in a multicompany environment, you have to specify the business unit to be assigned to the resource during the allocation of resources to a sales partner. Resources can be used only for those contracts that belong to the same business unit as the resource.

To remove ports from a sales partner, perform the steps below and click the **Deassign** icon. This changes the status of the specified ports to **free**.

AMPS ports can be deassigned only as long as they are not assigned to a contract.

Select **AMPS** from the **Market** list box.

Select **Actions > Ports > Distribute....**

The **Distribute Port for AMPS** window opens.

Select the numbering plan to which the ports belong.

Select the network in which the ports are valid.

Select a home location register from the **Register** list box.

This list box is not available if only one HLR is configured in the database.

Enter the identification code of the sales partner or service provider to whom you want to allocate the AMPS ports in the **Dealer/Provider** text box.

The address and total quantity associated with this sales partner appear in the text boxes.

If you do not know the identification code, click the **Search** icon to open the **Find Dealer/Provider** window. Various search criteria are available to help you find the required sales partner. For more information refer to [Searching for Sales Partners](#).

Select the business unit for the resources.

The **Business Unit** list box is available only if you run the system in a multicompany environment.

Enter the number of ports you want to assign in the **Quantity** text box.

If you want the ports to start with a particular number, enter this number in the **1st Number** text box.

If you do not enter a first number, ports of any length within the range of the minimum or maximum length that is configured in the database are assigned or removed.

To check the number of ports that can be allocated, click the **Assign** icon.

The number of available ports is displayed in the table at the bottom of the window. If not enough ports are available in the database, a message appears. If so, adjust the number in the **Quantity** text box.

To change the selection of ports, you can select or clear specific ports in the table as follows:

- To change the selection of individual rows, click one or more rows separately.
- To clear a large number of ports, click **None** and select one or more rows.
- To select a large number of ports, click **All** and clear one or more rows.

The ports in the rows selected (check mark) are allocated.

Click **Save** to change the status of the ports selected to **reserved**.

You can allocate more ports. For which sales partner do you want to repeat the procedure?

For the same sales partner.

Click the **New Order Item** icon.

For a different sales partner.

Click the **New** icon.

The entries you made before are cleared.

Click the **Close** icon.

The **Distribute Port for AMPS** window closes.

### 3.3.6 Creating a Roaming Agreement Group

You can move a roaming agreement to a roaming agreement group. This roaming agreement group collects many batches which are sent to a clearinghouse. The roaming agreement group consists of roaming agreements of the same CIBER record version.

Prerequisites

You have an existing roaming agreement.

Select **CIBER > Roaming Agreement Group**.

The **Roaming Agreement Group** window opens.

Select **Entry > Open**.

The **Edit Roaming Agreement Group** window opens.

To create a new roaming agreement group, click **New**.

Enter the abbreviation (**Short Desc**) of the roaming agreement group and the **Roaming Agreement Group Name**.

Select one or more roaming agreements in the **Available Roaming Agreements** list box.

Click **>(Add)**.

To move all available roaming agreements at once, click **>> (Add all)**.

To confirm your new CIBER roaming agreement group, click **OK**.

In the **Roaming Agreement Group** window, a new row is inserted displaying the new roaming agreement group.

### 3.3.7 Maintaining BIDs

In RA you can create a Billing Identifier (BID) or a System Identifier (SID) for your system. Both are 5 digit decimal numbers. The BID is assigned by CIBERNET and the SID is assigned by the respective country's governing communications agency. Both BID and SID numbers are used to group ranges of directory numbers together and into regional cells. It is possible for a SID to be subdivided into one or more BIDs; however, it is not essential as BIDs exist independently of SIDs. SID and BID numbers share the same number space. Thus they are indistinguishable and often called SID/BID or simply BID. They are used by clearinghouses to route call records to the correct network provider.

You can group one or more BIDs into a BID group. The BID group is used for a subset of a roaming agreement.

If you assign a phone number range to a BID, you create a home BID. Otherwise if you assign a CGI range to a BID, you create a serving BID.

#### 3.3.7.1 Creating a BID

In RA you can create various BID types for your system:

- a BID
- a SID
- a clearinghouse

Select **CIBER > BID**.

The **Billing Identifier** window opens.

Select **Entry > Open**.

The **Edit Billing Identifier** window opens.

Click **New**.

Enter the five-digit decimal number of the new BID and the short description of the BID in the corresponding text boxes.

The description of the BID could be the area name of the BID.

Define the type of the new BID.

BID as a BID type

Select **BID**. Go to **step 6**.

SID as a BID type

Select **SID**. Go to **step 7**.

Clearinghouse as a BID type

Select **Clearing House**. Go to **step 8**.

The CDRs of this BID are cleared directly by a clearinghouse and not by the network provider.

Select the **Network Description**, the **BID group** and the **Parent SID**.

Go to **step 8**.

Select the **Network Description** and **BID group**.

Click **OK**.

- After a successful validation, the **Edit Billing Identifier** window closes.
- A new row is inserted at the end of the table in the **Billing Identifier** window.

Close the **Billing Identifier** window.

Confirm your modifications.

### ***3.3.7.2 Creating a BID Group***

You can move a BID to a BID group. The BID group is used in the rating process. All members of a BID group are rated together. A BID group consists of one or more BIDs from the same PLMN.

Select **CIBER > BID Group**.

The **Billing Identifier Group** window opens.

Select **Entry > Open**.

The **Edit Billing Identifier Group** window opens.

Click **New**.

Enter a description for the BID group.

Select a **Network Description** (network) for which you want to create a BID group.

All available BIDs or SIDs which are not assigned to BID group are listed in the **Available BIDs** list box.

What do you want to do?

Move one or more BIDs from the **Available BIDs** list box to the **Selected BIDs** list box.

- Select one or more BIDs in the **Available BIDs** list box.
- Click **>** (Add).

To move all BIDs at once, click **>>** (Add all).

Click **OK**.

- After a successful validation, the **Group ID** text box displays an internal unique key.
- The **Edit Billing Identifier Group** window closes.
- In the **Billing Identifier Group** window, a new row is inserted.

### ***3.3.7.3 Assigning a Phone Number Range to a Home BID***

A home BID defines the subscriber's home in terms of the phone number range. The phone number range has to be defined for the home network and all visited networks with whom a roaming agreement exists. This is necessary for outgoing roamer CDRs.

Prerequisites

A BID is generated for the network.

[\(Creating a BID\)](#)

Select **CIBER > Phone Number Assignment to Home BIDs....**

The **Phone Number Assignment to BIDs** window opens.

Enter the five-digit decimal number of the BID to which you want to assign a phone number range.

Click **Search**.

The table displays all phone number ranges assigned to the BID.

Select **Entry > Open**.

The **Edit Phone Number Assignment to BIDs** window opens.

Do you have a phone number range assignment?

Yes

Click **New**.

No

Go to **step 6**.

In the **Phone Number Start** and **Phone Number End** text boxes, enter the start and end value of the phone number range you want to assign to the BID.

The number of digits for the start value and the end value must be the same.

Enter the **Start Date** of this assignment.

Select the **Country** and enter the **State** and the **City** of the BID in the text boxes.

Click **OK**.

- After a successful validation, the **Edit Phone Number Assignment to BIDs** window closes.
- The new assignment is displayed in the **Phone Number Assignment to BIDs** window.

#### ***3.3.7.4 Assigning a CGI Range to a Serving BID***

When a BID is mapped to a network region, it is referred to as a serving BID. A serving BID identifies the location of the roaming subscriber with the Cell Global Identifier (CGI) range and is used in the outgoing CDRs that you send to your roaming partner.

Prerequisites

A BID is generated for the visitor network. Refer to [Creating a BID](#).

Select **CIBER > CGI Assignment to Serving BIDs**.

The **CGI Assignment to BIDs** window opens.

Select **Entry > Open**.

The **Edit CGI Assignment to Serving BIDs** window opens.

Do you have existing CGI / serving BID assignments?

Yes

Click **New**.

No

Go to **step 4**.

Enter the five-digit decimal number of the BID to which you want to assign a CGI range.

The BID description and the **Network** are displayed. Otherwise a confirmation message is displayed.

Enter the **CGI Start** and **CGI End** value of the CGI range you want to assign to the BID.

The number of digits for the start value and the end value must be the same.

Enter the effective **CGI Start Date** of the assignment.

Select a **Cost Center** for this assignment.

Select the **Country** and enter the **State** and the **City** of the CGI range.

Select a **Time Zone**.

Click **OK**.

- After a successful validation, the **Edit CGI Assignment to Serving BIDs** window closes.
- A new row is inserted at the end of the table in the **CGI Assignment to BIDs** window.

Confirm your modifications.

## 3.4 Calling Cards

### 3.4.1 Ordering Calling Cards

To order calling cards you have to fill out a purchase order. Since the port is always integrated in the storage medium - in this case, the calling card -, the purchase order for ports is used.

Select **Calling Card** from the **Market** list box.

Select **Actions** > **Ports** > **Purchase Order**.

The **Purchase Order for Calling Card** window opens with the **Header** tab in focus.

Click the **New** icon.

The list boxes on the **Header** tab become available.

Select the card manufacturer from the **Vendor** list box.

Select the **Submarket**.



All items of a purchase order must belong to the same submarket. If you want to place an order for items associated with a different market, you have to create a separate purchase order.

Enter the **Order Date**. If you are filling out a new purchase order, the current date is automatically displayed.

You can enter the date on which you expect the ordered items to be delivered in the **Delivery date** text box.

Enter the deadline for the delivery in the **Due date** text box.

You can enter a short **Comment** (64 characters) on the purchase order.

If a more comprehensive comment is necessary, select **PO Header** from the **Remarks** menu.

Select the **Item Characteristics** tab.

Select the combination of numbering plan and resource type with which the calling cards are associated from the list provided in **Numbering plan**.

Select the **Network** to be used for the calling cards are valid.

Select the home location register from the **REG** list box.

This list box is not available if only one home location register is configured in the database.

Select the **TYPE** of calling cards.

If the calling cards are used for pre-activated prepaid contracts, select the **Prepaid Profile**. This profile provides the following data:

- the initial credit
- the contract template on which the pre-activated prepaid contracts are based
- the HLR
- the provider who offers the prepaid profile
- the external rate plan to be used for charging the services

Enter the **Quantity** of calling cards you want to order.

Numbers between 1 and 10,000 are accepted.

If you want the calling cards to have storage media and ports that begin with a certain number, proceed as follows:

- Enter the first number of the storage medium numbers in the **SM start value** text box.
- Enter the first number of the ports in the **Port start value** text box.

Click the **Add Item to Order** icon.

The data of the purchase order item is displayed in the table at the bottom of the window.

If you want to add another item to the purchase order, click the **New** icon.

You are prompted to save the purchase order item. If you confirm, the list and text boxes are cleared.

Click the **Save** icon to save the purchase order.

A message shows the new order number. If your system setup supports PPC files, the PPC input files are written to a predefined directory.

The reference data records of the purchased calling cards are either entered immediately in the database (with the status purchased) or they are entered in the database after the purchase order receipt has been processed. It depends on the configuration in the APP\_MODULES table.

### 3.4.2 Allocating Calling Cards to a Sales Partner

Calling cards have to be allocated to a specific sales partner or service provider before they can be assigned to a contract.

For this purpose you can do either of the following:

- Create the resources and allocate them.
- Remove the resources from one sales partner and re-allocate them to another.

If the system is deployed in a multicompany environment, you have to specify the business unit to be assigned to the resource during the allocation of resources to a sales partner. Resources can be used only for those contracts that belong to the same business unit as the resource.

To remove ports from a sales partner, perform the steps below and click the **Deassign** icon. This changes the status of the specified ports to **free**.

You cannot remove calling cards if they are assigned to a contract.

Since the port is always integrated in the storage medium - in this case, the calling card -, the ports are always allocated.

Select **Calling Card** from the **Market** list box.

Select **Actions** > **Ports** > **Distribute...**

The **Distribute Storage Medium for Calling Card** window opens.

Select the **Numbering plan**.

Select the **Network**.

Select the home location register from the **REG** list box.

This list box is not available if only one HLR is configured in the database.

Select the **Submarket**.

The submarket determines the types of storage media that are available.

Select the **TYPE** of calling cards.

Enter the identification code of the sales partner in the **Dealer/Provider** text box.

The address and total quantity associated with this sales partner appear in the text boxes.

If you do not know the identification code, click the **Search** icon to open the **Find Dealer/Provider** window. Various search criteria are available to help you find the required sales partner. For more information refer to [Searching for Sales Partners](#).

Select the business unit for the resources.

The **Business Unit** list box is available only if you run the system in a multicompany environment.

If the calling cards are used for prepaid contracts, select the **Prepaid Profile**. Additionally, you can narrow down the storage media available for allocation by selecting the file with which the resources have been imported into the system from the **Batch** list box.

The list boxes are available only if an HLR for prepaid rating is set up in the database.

Enter the **Quantity** of calling cards you want to allocate .

If you want the calling cards to start with a particular number, enter this number in the **1st Number** text box.

If you do not enter a first number, calling card numbers of any length within the range of the minimum or maximum length that is configured in the database are allocated or removed.

To check the number of calling cards that can be allocated, click the **Assign** icon.

The number of available ports is displayed in the table at the bottom of the window.

To change the selection of ports, you can select or clear specific ports in the table as follows:

- To change the selection of individual rows, click one or more rows separately.
- To clear a large number of calling cards, click **None** and select one or more rows.
- To select a large number of calling cards, click **All** and clear one or more rows.

The calling cards in the rows selected (check mark) are allocated .

Click **Save** to change the status of the calling cards selected to **reserved** .

You can allocate more ports. For which sales partner do you want to repeat the procedure?

For the same sales partner.

Click the **New Order Item** icon.

For a different sales partner.

Click the **New** icon.

The entries you made before are cleared.

Click the **Close** icon.

The **Distribute Storage Medium for Calling Card** window closes.

### 3.4.3 Allocating Calling Cards and Ports to Different Sales Partners

If calling cards have not yet been assigned to a contract, you can move them from one level in a sales hierarchy to another. This is necessary if too many resources have been assigned to a certain dealer, for example. You can select the dealer as the sender and move part of his stock to another dealer, the receiver.

Select **Calling Card** from the **Market** list box.

Select **Actions > Ports > Move Storage Media....**

The **Move Storage Media and Ports from one Distribution Level to Another for Calling Cards** window opens.

Select the **Numbering plan**.

Select the **Network**.

Select the home location register from the **REG** list box.

In the **Sender** group box, enter the following information:

- the identification code of the **Dealer/Provider** who hands over the calling cards  
If you do not know the identification code, click the **Search** icon to open the **Find Dealer/Provider** window. Various search criteria are available to help you find the required sales partner. For more information refer to [Searching for Sales Partners](#).
- Select the business unit of the resources.  
The **Business Unit** list box is available only if you run the system in a multicompany environment.
- If the calling cards are used for prepaid contracts, select the **Prepaid Profile**.

In the **Receiver** group box, enter the following information:

- the identification code of the **Dealer/Provider** who receives the calling cards.  
If you do not know the identification code, click the **Search** icon to open the **Find Dealer/Provider** window. Various search criteria are available to help you find the required sales partner. For more information refer to [Searching for Sales Partners](#).
- Select the business unit for the resources.  
The **Business Unit** list box is available only if you run the system in a multicompany environment.

Click on a row in the **Sender** table and then press the **Insert** key.

The first empty table row is marked for selection.

Enter your selection criteria in the **Storage Medium** and **Requested Quantity** columns.

- If you want to move a specific calling card, enter the complete card number in the **Storage Medium** column.

- If you want to move an indefinite number of calling cards, enter a truncated card number in the **Storage Medium** column.
- If you want to move a definite number of calling cards, just enter the number in the **Requested Quantity** column.

Click **Test** to check the number of calling cards available for reallocation.

The number of calling cards available for reallocation is shown in the **free** column.

Click **OK** to move the calling cards to the sales partner you selected in the **Receiver** group box.

## 3.5 GSM Resources

What is GSM?

GSM (Groupe Spéciale Mobile) is a digital mobile telephone system that is widely used in Europe and other parts of the world. GSM is the de facto wireless telephone standard in Europe. The resources used in GSM systems include:

Resource Type	Name
Storage medium	SIM
Port	IMSI
Directory number	MSISDN
Equipment identity	IMEI

GSM in RA

You can create or delete directory numbers (MSISDNs, APNs, PDP addresses), closed user groups (CUGs) and virtual private networks (VPNs). You can order SIM cards and import directory numbers and closed user groups.

Refer to the following sections for more information:

- [Creating and Deleting GSM Directory Numbers](#)
- [Creating and Deleting Virtual Private Networks](#)
- [Ordering SIM Cards](#)
- [Creating and Deleting Closed User Groups](#)

Directory numbers, independent of whether they are internal or external, are not allowed to overlap with other directory numbers in RA. That is, directory number A is not allowed to be the prefix of directory number B.

For example, if directory number 123 456 789 already exists, it is not possible to enter directory number 123 456 789 0, since the first digits 123 456 789 would overlap. After dialing 123 456 789 an active directory number is reached, therefore dialing the additional 0 to get a different connection is not possible.

GSM resources have to be allocated to a sales partner before they can be assigned to a contract.

Refer to the following sections for more information:

- [Allocating GSM Directory Numbers to a Sales Partner](#)

- [Allocating Storage Media to a Sales Partner](#)
- [Allocating Storage Media and Ports to Different Sales Partners](#)

To register APNs you can assign them to a physical home location register (HLR).

- [Assigning APNs to and Removing them from an HLR](#)

APNs can be linked to specific GPRS services. Refer to the following section for more information:

- [Assigning and Deassigning APNs to GPRS Services](#)

### 3.5.1 Creating and Deleting GSM Directory Numbers

Directory numbers in the GSM market can be MSISDNs, APNs and PDP addresses.

APNs and PDP addresses can be created for the public or private use. Private APNs and PDP addresses are linked to a virtual private network (VPN).

You can also specify the following parameters in RA:

- whether to allow international access to the APN
- whether the PDP address for the APN is static or dynamic.  
Static PDP addresses are permanent addresses and unique to each mobile station. Dynamic PDP addresses are reassigned automatically by the network each time the mobile station accesses the network if the mobile station does not have a static PDP address.

Select **GSM** from the **Market** list box.

Select **Actions** > **Directory Numbers** > **Generate/Delete....**

The **Generate/Delete Directory Numbers for GSM** window opens.

Select the combination of numbering plan and directory number type with which the directory numbers are associated from the list provided in **Numbering plan**.

If you selected an APN or PDP numbering plan and if you want the APNs and PDP addresses to be private, select the **VPN** to be linked to the APNs or PDPs.

Select the **Network**.

If you selected an MSISDN numbering plan, select the national destination code from the **NDC** list box.

Select a physical home location register from the **HLR** list box.

This list box is not available if only one physical HLR is configured in the database.

Select the logical HLR from the **Range** list box.

Logical HLRs are subsets of the physical HLR. They are available only if the selected physical HLR comprises more than one logical HLR.

The **Constant Part** text box displays the part of the number which is common to all directory numbers covered by the selection above.

If you selected an MSISDN numbering plan, you can select the type of MSISDN you want to create or delete from the **Numbers of type** list box. By default, all entries are selected.

The MSISDN type determines the number range in which MSISDNs can be created or deleted. You can select several MSISDN types at once. If you do so, RA assigns the MSISDNs automatically to the correct number range.

On the other hand, if you select only one MSISDN type and you enter MSISDNs in the wrong range, RA does not create them.

The clsfydn.dll is used to customize conventions for the creation of type-specific directory numbers.

- V.I.P.: ending with 00
- Golden: ending with 99
- Regular: all other numbers not ending with 00 or 99

Determine the amount of directory numbers to be created or deleted. Which type of directory number are you creating or deleting?

#### MSISDNs

Enter the first MSISDN and the last MSISDN in the **from** and **up to** text boxes. These numbers must be within the default range and have the same length. Then go to **step 15**.

#### APNs

Enter the URL of the APN as described in **steps 11 to 13**.

#### PDP addresses

Determine the range of PDP addresses as described in **step 14**.

Enter the URL of the APN in the **from** text box.

**Example:** <http://www.mycompany.com/private/index.html> or <http://192.168.0.4/private/index.html>.

The following characters are allowed:

- any letter from a - z
- any digit from 0 - 9
- a dot (.)
- a hyphen (-)

- an asterisk (\*) as a wildcard APN

You can use a wildcard (\*) only once in an HLR. The URL can have the wildcard only as a placeholder for a string and not for a single value.

The following prefixes not allowed:

- rac
- lac
- sgsn

Suffixes like .gprs are also not allowed.

If you want to assign a static PDP address to the APN, select the **Static PDP required for APN** check box.

If you do not select this check box, a dynamic PDP address is automatically assigned.

If you want to allow international access to the APN, select the **Roaming network access for APN** check box.

If you do not select this check box, only national access to the APN is allowed.

Go to **step 16**.

Determine the range of PDP addresses to be created or deleted. Which type of PDP numbering plan did you select?

IPv4

Enter numeric decimal values in both the **from** and **up to** text boxes. Four text boxes are available, in which you can enter values between 000 and 255. The values must be within the default range and have the same length.

IPv6

Enter hexadecimal values in the **from** and **up to** text boxes. Eight text boxes are available, in which you can enter values between 0000 and FFFF. The values must be within the default range and have the same length.

Do you want to create directory numbers or delete them?

Create directory numbers.

Click **Create**.

A message shows the number of directory numbers to be created.

Delete directory numbers.

Click **Delete**.



A message shows the number of directory numbers to be deleted.

Click **OK** to create or delete the range of directory numbers.

A message appears if any of the directory numbers cannot be created or deleted.

If the directory numbers you want to create overlap with already existing directory numbers, they cannot be created. For more details about overlapping numbers, refer to [Directory Numbers](#) in the Resources concept.

Click **Close** to close the **Generate/Delete Directory Numbers for GSM** window.

### 3.5.2 Creating and Deleting Virtual Private Networks

You can connect private APNs and PDP addresses to a specific virtual private network (VPN).

In Resource Administration, APNs and PDP addresses are considered as directory numbers and, hence, handled in the same way. To create them, refer to [Creating and Deleting Directory Numbers](#).

VPNs can be deleted only if they are not linked to directory numbers.

Select **GSM** from the **Market** list box.

Select **Actions** > **VPN** > **Generate/Delete....**

The **Generate/Delete Virtual Private Network for GSM** window opens.

Do you want to create a VPN or delete it?

Create a VPN.

Go to **step 4**.

Delete a VPN.

Go to **step 6**.

Enter the name of the virtual private network in the **VPN** combo box.

All characters including special characters are allowed. Spaces at the end of the line are deleted.

Click **Create**.

The system checks for duplicate VPNs. If the VPN is unique, it is created.

Go to **step 8**.

Select the virtual private network to be deleted from the **VPN** combo box.

Click **Delete**.

Click **Close** to close the **Generate/Delete Virtual Private Network for GSM** window.

### 3.5.3 Ordering SIM Cards (Purchase Order)

To order SIM cards you have to create a purchase order. For the GSM market, there are two options of how to order: A regular purchase order and an automated purchase order. For both options the purchased ports are always ordered together with their storage medium - in this case, the SIM card. If a prepaid profile is used for both options, a Port-linked Directory Number is ordered as well. If a prepaid profile is used for a regular purchase order, the ordered directory numbers are either to be created as new directory number or taken from a set of already existing free directory numbers. In addition to this the automated purchase order allows to determine what set of individual directory numbers shall be used if a prepaid profile is used. Furthermore, if a prepaid profile is used for an automated purchase order, the directory numbers to be included can additionally be taken from already existing deactivated directory numbers. Newly Created and already existing directory number cannot be part of the same Purchase Order, neither Automated- or regular Purchase Order.

A purchase order consists of one or more purchase order items. The information about a purchase order is entered on three tabs:

- **Header:** Information entered here applies to the whole purchase order, that is, to all batches ordered
- **Item Characteristics:** the attributes of each purchase order item (batch) ordered
- **Item Characteristics - add on:** further attributes of the purchase order item

A purchase order is identified by a purchase order number, which is assigned when the order is saved. Each batch within a purchase order is assigned a purchase order item number and a batch number. The purchase order item is unique within the purchase order, but the batch number is unique within the system.

**Example:**

PO No.	PO Item No.	Batch No.
1	1	1
	2	2
	3	3
2	1	4
	2	5
	3	6

What do you want to do?

#### 3.5.3.1 Creating a Regular Purchase Order

By creating a regular purchase order, you can order SIM cards and storage medium with or without directory numbers. The directory numbers are retrieved from existing free directory numbers or are created as new directory numbers. Individual directory cannot be determined.

The number of purchased items is limited to vendor specific limitations.

Select **GSM** from the **Market** list box.

Select **Actions > Ports > Purchase Order**.

The **Purchase Order for GSM** window opens with the **Header** tab in focus.

Click the **New** icon .

The items of the **Header** tab become available.

Select the card manufacturer from the **Vendor** list box.

Select the **Submarket**.

All items of a purchase order must belong to the same submarket. If you want to place an order for items associated with a different sub-market, you have to create a separate purchase order.

Click the **Item Characteristics** tab and select the following items:

Item	Description
<b>Numbering plan</b>	The combination of numbering plan and directory number type with which the resources are associated.
<b>Network</b>	The network in which the storage media are used. The structure of SIM serial numbers in the GSM market is network-specific. Therefore, the selection made here determines the structure of the SIM serial numbers that are created.
<b>HLR</b>	The name of the home location register (HLR) at which the storage media are registered.  This list box is not available if only one HLR is configured in the database.
<b>Type</b>	The SIM card type.
<b>Electrical Profile</b>	The profile to be used for electronic personalization.  The <b>Electrical Profile</b> affects items of the <b>Input Parameter</b> and <b>Output Parameter</b> group boxes.
<b>Graphical Profile</b>	The profile used for graphical personalization. It determines the design of the SIM card.

Are the SIM cards to be used for pre-activated prepaid contracts?

Yes

1. Select **Prepaid Profile** from the list box.

**Result:** The **Numbering plan for DN**, **NDC** and **Range** list boxes become available.

2. Select **numbering plan**, **NDC** and **Range** from the list boxes.

No

Continue with the next step.

Enter the **Quantity** of SIM cards per purchase order item and PPC file.

Values between 5 and 5,000 which can be divided by 5 are accepted.

You can enter the following start values in the text boxes:

- **SM start value**

The first subscriber number of the SIM card to be ordered as part of the SIM serial number. If you do not know which numbers can be assigned, leave the text box empty. The system then looks for the first numbers that can be assigned. This process can take a while, though. RA begins with this number and orders all following card numbers in the quantity you specified in the **Quantity** text box. If the number you entered already exists in the database, RA will use the next applicable number.

The resulting number is the SIM serial number which is composed of different parts as configured in the [SIM ICC FORMAT](#) table.

- **Port start value**

The first port to be ordered. If you do not know which numbers can be assigned, leave the text box empty. The system then looks for the first numbers that can be assigned. This process can take a while, though. RA begins with this number and orders all following ports in the quantity you specified in the **Quantity** text box. If you entered a first port and it is not possible to create all the ports specified in the **Quantity** text box in one batch because ports already exist within the defined batch, the purchase order is split automatically. Enter only the variable part of the port without the prefix because the prefix depends on the selected network, home location register, and so on. If the number you entered already exists in the database, RA will use the next applicable number.

The resulting number is the SIM serial number which is composed of different parts as configured in the [MPDRSTAB](#) table.

- In case of prepaid contracts, you can select the following:

- **DN start value:**

This is the first directory number with which the ordered directory numbers start.

This text box is only available if you selected a logical HLR from the **Range** list box. If you leave this text box empty, the range of directory numbers (MSISDNs) starts with next applicable number range.

- **Use free DNs:**

Select the **Use free DNs** check box if you want to reuse free DNs. In case of preactivated prepaid contracts, free directory numbers can be reused. Directory numbers that are reserved for porting cannot be reused in this context. The check box is available only if you have selected a **Numbering plan for DN**.

- The resulting number is the SIM serial number which is composed of different parts as configured in the [MPDRSTAB](#) table.

Specify additional parameters, for example, the personal identification number (PIN), the personal unblocking key (PUK), the secret codes of GSM phase 1 and 2, and others, for the Pre-Personalization Center (PPC) in the **Input Parameter** and **Output Parameter** group boxes.

- In the **Input Parameter** group box, you can enter values for the parameters that have to be provided by the vendor for the SIM cards you order. If you do not enter a value for an available parameter, the vendor specifies the value.
- In the **Output Parameter** group box, you can select the parameters whose values you want the vendor to include in the PPC output file that will be sent to you.

For more information about PPC files refer to [Ordering Resources](#).

For more information about the items of the **Input Parameter** and **Output Parameter** group boxes refer to [Purchase Order for GSM \(Ports\)](#).

Click the **Item Characteristics -add on** tab and enter additional information of the purchase order item. For more information about the items of this tab refer to [Purchase Order for GSM \(Ports\)](#).

Click the **Add Item to Order** icon .

A new row with the details of the purchase order item is added to the table.

You can add or modify purchase order items.

Add a purchase order item:

- Select the **Item** menu and then **New Item**.  
**Result:** The text and list boxes on the **Item Characteristics** tab are cleared. The information on the **Header** tab cannot be changed and applies also to the new purchase order item.
- Repeat [as described above](#)

Modify a purchase order item:

Refer to [Changing or Deleting a Purchase Order Item](#)

Click the **Save** icon .

The purchase order is created and a message shows the order number. If your system setup supports PPC files, the corresponding PPC input files are written to a predefined directory.

The data of the purchase order is written to the database immediately. For more information refer to [Tasks Performed in Resource Administration and Batch Execution Engine](#).

Next Task

The next task depends on whether your system is configured to support authentication of the SIM cards.

- If AuC support is configured you can have the ports on the SIM cards released at an authentication center. To do this, refer to [Releasing GSM Ports at an Authentication Center](#).
- If AuC support is not configured, you can check the resources received from the card vendor. To do this, refer to [Checking Resources Received \(Purchase Order Receipt\)](#).

### 3.5.3.2 Creating an Automated Purchase Order

By creating an automated purchase order, you can determine the individual directory numbers for a prepaid profile based purchase order: Furthermore you can use deactivated directory numbers for the purchase order.

The number of purchased items is **not** restricted to vendor specific limitations. If the number of purchase items exceeds the limitation of the vendor, the respective number of purchase order batches will be created.

Select **GSM** from the **Market** list box.

Select **Actions > Ports > Purchase Order**.

The **Purchase Order for GSM** window opens with the **Header** tab in focus.

Click the **New** icon .

The items of the **Header** tab become available.

Select the card manufacturer from the **Vendor** list box.

Select the **Submarket**.

All items of a purchase order must belong to the same submarket. If you want to place an order for items associated with a different submarket, you have to create a separate purchase order.

What kind of purchase order do you want to set up?

A purchase order that contains the purchase of directory numbers for a prepaid profile

Select **1st via**.

The **File to import** field gets enabled where a full path and filename to a CSV can be entered. This CSV file determines the individual directory numbers to be contained within the current automated purchase order. No other directory numbers will be contained in the purchase order. The directory numbers contained in the CSV file must exist in the database -free and deactivated ones- or can be created as new directory numbers. If the CSV file is not defined, the directory number contained in a purchase order is determined by the results of the directory number search on the database like it is done for a regular purchase order. If an alphanumeric **External PO number** is entered the PPC-in and PPC-out files names will contain this **External PO number** together with a sequence number specific to the **External PO number**. If the **Set External State** check box is selected, a single character **External State** has to be defined that will become a property of the directory numbers contained in this purchase order.

A purchase order that does not contain the purchase of directory numbers

Select **2nd via**.

No directory numbers but only the port and storage medium resources are purchased. No CSV file is used.

Click the **Item Characteristics** tab and select the following items:

Item	Description
<b>Numbering plan</b>	The combination of numbering plan and directory number type with which the resources are associated.
<b>Network</b>	The network in which the storage media are used. The structure of SIM serial numbers in the GSM market is network-specific. Therefore, the selection made here determines the structure of the SIM serial numbers that are created.
<b>HLR</b>	<p>The name of the home location register (HLR) at which the storage media are registered.</p> <p>This list box is not available if only one HLR is configured in the database.</p>
<b>Type</b>	The SIM card type.
<b>Electrical Profile</b>	<p>The profile to be used for electronic personalization.</p> <p>The <b>Electrical Profile</b> affects items of the <b>Input Parameter</b> and <b>Output Parameter</b> group boxes.</p>
<b>Graphical Profile</b>	The profile used for graphical personalization. It determines the design of the SIM card.

If in the **PO Via** combo box **1st via** was selected, directory numbers always part of the automated purchase order, a prepaid profile must be defined:

1. Select Prepaid Profile from the list box.  
Result: The **Numbering plan for DN**, **NDC** and **Range** list boxes become available.
2. Select numbering plan, NDC and range from the list boxes

If a CSV file is used for the automated purchase order, the **Quantity** entry field is disabled and filled with the quantity of directory numbers contained in the CSV file, otherwise the Quantity of SIM cards to be purchased has to be entered. This quantity is not limited to the **Maximum Resources per Trailer** value shown in the **Headertab**. The vendor specific minimum quantity and quantity step rules are upheld for both **PO Via** cases, independent from a CSV file being used or not.

If in the **PO Via** combo box **1st via** was selected, but no CSV file is used for the automated purchase order, you can enter the following start values in the text boxes:

- **SM start value**  

The first subscriber number of the SIM card to be ordered as part of the SIM serial number. If you do not know which numbers can be assigned, leave the text box empty. The system then looks for the first numbers that can be assigned. This process can take a while, though. RA begins with this number and orders all following card numbers in the quantity you specified in the **Quantity** text box. If the number you entered already exists in the database, RA will use the next applicable number.

The resulting number is the SIM serial number which is composed of different parts as configured in the [SIM\\_ICC\\_FORMAT](#) table.
- **Port start value**

The first port to be ordered. If you do not know which numbers can be assigned, leave the text box empty. The system then looks for the first numbers that can be assigned. This process can take a while, though. RA begins with this number and orders all following ports in the quantity you specified in the **Quantity** text box. If you entered a first port and it is not possible to create all the ports specified in the **Quantity** text box in one batch because ports already exist within the defined batch, the purchase order is split automatically. Enter only the variable part of the port without the prefix because the prefix depends on the selected network, home location register, and so on. If the number you entered already exists in the database, RA will use the next applicable number.

The resulting number is the SIM serial number which is composed of different parts as configured in the [MPDRSTAB](#) table.

If a prepaid profile is used, you can select the following:

- **DN start value:**

This is the first directory number with which the ordered directory numbers start.

This text box is only available if you selected a logical HLR from the **Range** list box. If you leave this text box empty, the range of directory numbers (MSISDNs) starts with next applicable number range.

- **Use free DNs:**

Select the **Use free DNs** check box if you want to reuse free DNs. In case of preactivated prepaid contracts, free directory numbers can be reused. Directory numbers that are reserved for porting cannot be reused in this context. The check box is available only if you have selected a **Numbering plan for DN**.

- **Use deactivated DNs:**

Select the **Use free DNs** check box if you want to reuse free DNs. In case of preactivated prepaid contracts, deactivated directory numbers can be reused. Directory numbers that are reserved for porting cannot be reused in this context. The check box is available only if you have selected a **Numbering plan for DN**. Any port and storage medium referencing a deactivated directory number that is used in an automated purchase order will be un-linked and set to failed state.

Only if **Use free DNs** and **Use deactivated DNs** check boxes are cleared, new directory numbers are created as part of an automated purchase order within the currently unused directory number space. No automated purchase order will contain new as well as already existing free and/or deactivated directory numbers.

Specify additional parameters, for example, the personal identification number (PIN), the personal unblocking key (PUK), the secret codes of GSM phase 1 and 2, and others, for the Pre-Personalization Center (PPC) in the **Input Parameter** and **Output Parameter** group boxes.

- In the **Input Parameter** group box, you can enter values for the parameters that have to be provided by the vendor for the SIM cards you order. If you do not enter a value for an available parameter, the vendor specifies the value.
- In the **Output Parameter** group box, you can select the parameters whose values you want the vendor to include in the PPC output file that will be sent to you.

For more information about PPC files refer to [Ordering Resources](#).

For more information about the items of the **Input Parameter** and **Output Parameter** group boxes refer to [Purchase Order for GSM \(Ports\)](#).

Click the **Item Characteristics -add on** tab and enter additional information of the purchase order item. For more information about the items of this tab refer to [Purchase Order for GSM \(Ports\)](#).

Click the **Add Item to Order** icon .

A new row with the details of the purchase order item is added to the table.



To add a purchase order item, select the **Item** menu and then **New Item**.

**Result:** The text and list boxes on the **Item Characteristics** tab are cleared. The information on the **Header** tab cannot be changed and applies also to the new purchase order item. If a CSV file is used for directory number identification, you cannot purchase the same directory numbers a second time. Repeat [as described above](#)

Complete saved automated purchase orders can be deleted. Purchase order items cannot be modified nor deleted.

To delete a complete automated purchase order, a purchase order item, select the **Item** menu and then **New Item**.

**Result:** The text and list boxes on the **Item Characteristics** tab are cleared. The information on the **Header** tab cannot be changed and applies also to the new purchase order item. If a CSV file is used for directory number identification, you cannot purchase the same directory numbers a second time. Repeat [as described above](#)

Click the **Save** icon .

The purchase order is created and saved with all included items. No automated purchase order item can be saved individually. A message shows the order number. If your system setup supports PPC files, the corresponding PPC input files are written to a predefined directory.

The data of the purchase order is written to the database immediately. For more information refer to [Tasks Performed in Resource Administration and Batch Execution Engine](#).

Next Task

The next task depends on whether your system is configured to support authentication of the SIM cards.

- If AuC support is configured you can have the ports on the SIM cards released at an authentication center. To do this, refer to [Releasing GSM Ports at an Authentication Center](#).
- If AuC support is not configured, you can check the resources received from the card vendor. To do this, refer to [Checking Resources Received \(Purchase Order Receipt\)](#).

### 3.5.4 Releasing GSM Ports at an Authentication Center

GSM ports can be verified and automatically released by an authentication center (AuC). It is a subsystem of the home location register (HLR). The authentication center creates an AuC response file for every IMSI (port) belonging to a new SIM (storage medium). IMSIs that are checked successfully are given the status **free**.

Prerequisites

- You have ordered SIM cards and checked the purchase order receipt. (Refer to [Ordering SIM Cards](#) and [Checking Resources Received](#).)
- The handling of AuC response files is configured in the database.
- The library file which processes the AuC response files is adjusted to the customer-specific format.
- The authentication center has sent AuC response files.

Select **GSM** from the **Market** list box.

Select **Actions** > **Ports** > **Release**.

The **Open AuC Response File** window opens.

Double-click the directory in which the AuC response files are saved in the **Look in** list box.

Select an AuC response file from the list box.

The **File Name** text box contains the name of the selected file.

Click **Open** to start the release process.

It runs according to the check routines defined in the AuC-related library file.

If the process completes without errors, a message shows the number of SIM cards whose IMSIs were updated and given the status **free**.

If the process completes with errors, a message shows the number of SIM cards whose IMSIs were updated and were given the status **failed**.

### 3.5.5 Allocating Storage Media to a Sales Partner

SIM cards have to be assigned to a specific sales partner or service provider to be available for new contracts. For this purpose you can either assign newly created resources or redistribute resources by removing them from one sales partner and assigning them to another.

If the system is deployed in a multicompany environment, you have to specify the business unit to be assigned to the resource during the allocation of resources to a sales partner. Resources can be used only for those contracts that belong to the same business unit as the resource.

To remove SIM cards from a sales partner, perform the steps below and click the **Deassign** icon. This changes the status of the specified SIM cards to **free**.

SIM cards can be deassigned only as long as they are not assigned to a contract.

Select **GSM** from the **Market** list box.

Select **Actions > Ports > Distribute....**

The **Distribute Storage Medium for GSM** window opens.

Select the numbering plan to which the SIM cards belong.

Select the network in which the SIM cards are used.

Select a home location register from the **HLR** list box.

This list box is not available if only one HLR is configured in the database.

Select a submarket from the list box.

The submarket determines the types of SIM cards that are available.

Select the type of SIM card from the **Type** list box.

Select the SIM card manufacturer from the **Vendor** list box.

Enter the identification code of the sales partner or service provider to whom you want to allocate the SIM cards in the **Dealer/Provider** text box.

The address and total quantity associated with this sales partner appear in the text boxes.

If you do not know the identification code, click the **Search** icon to open the **Find Dealer/Provider** window. Various search criteria are available to help you find the required sales partner. For more information refer to [Searching for Sales Partners](#).

Select the business unit for the resources.

The **Business Unit** list box is available only if you run the system in a multicompany environment.

If the SIM cards are used for prepaid contracts, select the **Prepaid Profile**. Additionally, you can narrow down the storage media available for allocation by selecting the file with which the resources have been imported into the system from the **Batch** list box.

The list box is available only if an HLR for prepaid rating is set up in the database.

Enter the number of SIM cards you want to allocate in the **Quantity** text box.

If you want to allocate only SIM cards that have been ordered at a specific date, enter a date in the **SIM Date** text boxes.

If you want the SIM cards to start with a particular serial number, enter this number in the **1st Number** text box.

If you do not enter a first number, SIM serial numbers of any length within the range of the minimum or maximum length that is configured in the database are assigned or deassigned.

To check the number of SIM cards that can be allocated, click the **Assign** icon.

The number of available SIM cards is displayed in the table at the bottom of the window. If not enough SIM cards are available in the database, a message appears. If so, adjust the number in the **Quantity** text box.

To change the selection of SIM cards, you can select or clear specific SIM cards in the table as follows:

- To change the selection of individual rows, click one or more rows separately.
- To clear a large number of SIM cards, click **None** and select one or more rows.
- To select a large number of SIM cards, click **All** and clear one or more rows.

The SIM cards in the rows selected (check mark) are allocated.

Click **Save** to change the status of the SIM cards selected to **reserved**.

You can allocate more SIM cards. For which sales partner do you want to repeat the procedure?

For the same sales partner.

Click the **New Order Item** icon.

For a different sales partner.

Click the **New** icon.

The entries you made before are cleared.

Click the **Close** icon.

The **Distribute Storage Medium for GSM** window closes.

### 3.5.6 Allocating Storage Media and Ports to Different Sales Partners

SIM cards can be moved within a sales hierarchy from one level to another if they are not already assigned to a contract. This is necessary; for example, if too many resources have been assigned to a certain dealer. Then you can select this dealer as a sender and move part of his stock to another dealer, the receiver.

Select **GSM** from the **Market** list box.

Select **Actions** > **Ports** > **Move Storage Media**.

The **Move Storage Media and Ports from one Distribution Level to Another for GSM** window opens.

Select the numbering plan valid for the SIM cards.

Select the network to which the SIM cards belong.

Select the home location register for the SIM cards from the **HLR** list box.

In the **Sender** group box, enter the following information:

- the identification code of the **Dealer/Provider** who hands over the calling cards  
If you do not know the identification code, click the **Search** icon to open the **Find Dealer/Provider** window. Various search criteria are available to help you find the required sales partner. For more information refer to [Searching for Sales Partners](#).
- Select the business unit of the resources.  
The **Business Unit** list box is available only if you run the system in a multicompany environment.
- If the calling cards are used for prepaid contracts, select the **Prepaid Profile**.

In the **Receiver** group box, enter the following information:

- the identification code of the **Dealer/Provider** who receives the calling cards.  
If you do not know the identification code, click the **Search** icon to open the **Find Dealer/Provider** window. Various search criteria are available to help you find the required sales partner. For more information refer to [Searching for Sales Partners](#).
- Select the business unit for the resources.  
The **Business Unit** list box is available only if you run the system in a multicompany environment.

Click on a row in the sender table and click the **Insert** key.

The first empty table row is marked for selection.

Enter your selection criteria in the **Storage Medium** and **Requested Quantity** columns.

- If you want to move a specific SIM card, enter the complete card number in the **Storage Medium** column.
- If you want to move an indefinite number of SIM cards, enter a truncated card number in the **Storage Medium** column.
- If you want to move a definite number of SIM cards, just enter the number in the **Requested Quantity** column.

Click **Test** to check the number of SIM cards available for reallocation.

The number of SIM cards available for reallocation is shown in the **free** column.

Click **OK** to move the specified SIM cards to the sales partner you selected in the **Receiver** group box.

### 3.5.7 Allocating Directory Numbers to a Sales Partner

Directory numbers have to be assigned to a specific sales partner or service provider to be available for new contracts.

For this purpose you can either allocate newly created resources or redistribute resources by removing them from one sales partner and allocating them to another.

If the system is deployed in a multicompany environment, you have to specify the business unit to be assigned to the resource during the allocation of resources to a sales partner. Resources can be used only for those contracts that belong to the same business unit as the resource.

To remove directory numbers from a sales partner, perform the steps below and click the **Deassign** icon. This changes the status of the specified directory numbers to **free**.

Directory numbers can be removed from a sales partner only as long as they are not assigned to a contract.

Select **GSM** from the **Market** list box.

Select **Actions** > **Directory Numbers** > **Distribute....**

The **Distribute Directory Number for GSM** window opens.

Select the combination of numbering plan and directory number type with which the directory numbers are associated from the list provided in **Numbering plan**.

If you selected an APN or PDP numbering plan and the APNs and PDP addresses are private, select the Virtual Private Network linked to the APNs or PDP addresses from the **VPN** list box.

Select the network in which the directory numbers are used.

If you selected an MSISDN numbering plan, select the National Destination Code that belongs to the directory numbers from the **NDC** list box.

Select a home location register that is linked to the directory numbers from the **Range** list box.

This list box is not available if only one HLR is configured in the database.

The **Constant Part** text box displays the part of the number which is common to all directory numbers covered by the selection above.

Enter the identification code of the sales partner or service provider to whom you want to allocate the directory numbers in the **Dealer/Provider** text box.

The address and total quantity associated with this sales partner appear in the text boxes.

If you do not know the identification code, click the **Search** icon to open the **Find Dealer/Provider** window. Various search criteria are available to help you find the required sales partner. For more information refer to [Searching for Sales Partners](#).

Select the business unit for the resources.

The **Business Unit** list box is available only if you run the system in a multicompany environment.

Enter the number of directory numbers you want to allocate in the **Quantity** text box.

Determine the first number of the range of directory numbers to be allocated. Which type of directory number are you allocating?

MSISDNs

Enter the first telephone number of the MSISDN number range in the **1 st Number** text box. Enter only the subscriber-specific part without the National Destination Code. Numbers from 0000 to 9999 are allowed.

Go to **step 13**.

APNs

Enter the URL of the APN as described in **steps 11**.

PDP addresses

Determine the range of PDP addresses as described in **step 12**.

Enter the URL of the APN in the **1 st Number** text box.

**Example:** <http://www.mycompany.com/private/index.html> or <http://192.168.0.4/private/index.html>.

The following characters are allowed:

- any letter from a - z
- any digit from 0 - 9
- a dot (.)

- a hyphen (-)
- an asterisk (\*) as a wildcard APN

You can use a wildcard (\*) only once in an HLR. The URL can have the wildcard only as a placeholder for a string and not for a single value.

The following prefixes are not allowed:

- rac
- lac
- sgsn

Suffixes like .gprs are also not allowed.

Go to **step 14**.

Determine the range of PDP addresses to be allocated. Which type of PDP numbering plan have you selected?

IPv4

Enter numeric decimal values in the **1 st Number** text box. Four text boxes are available, in which you can enter values between 000 and 255. The values must be within the default range and have the same length.

IPv6

Enter hexadecimal values in the **1 st Number** text box. Eight text boxes are available, in which you can enter values between 0000 and FFFF. The values must be within the default range and have the same length.

Go to **step 14**.

You can narrow down the assignment of MSISDNs to one or more types by selecting one or more types of MSISDNs from the **Numbers of type** list box. By default, all entries are selected.

- V.I.P.: ending with 00
- Golden: ending with 99
- Regular: all other numbers not ending with 00 or 99

The `clsfydn.dll` is used to customize type-specific directory numbers.

This list box is not available for APNs and PDP addresses.

To check the number of directory numbers that can be allocated, click the **Assign** icon.

The number of available directory numbers is displayed in the table at the bottom of the window. If not enough directory numbers are available in the database, a message appears. If so, adjust the number in the **Quantity** text box.

To change the selection of directory numbers, you can select or clear specific directory numbers in the table as follows:

- To change the selection of individual rows, click one or more rows separately.
- To clear a large number of directory numbers, click **None** and select one or more rows.
- To select a large number of directory numbers, click **All** and clear one or more rows.

The directory numbers in the rows selected (check mark) are allocated.

Click **Save** to change the status of the directory numbers selected to **reserved**.

You can allocate more directory numbers. For which sales partner do you want to repeat the procedure?

For the same sales partner.

Click the **New Order Item** icon.

For a different sales partner.

Click the **New** icon.

The entries you made before are cleared.

Click the **Close** icon.

The **Distribute Directory Number for GSM** window closes.

### 3.5.8 Assigning and Deassigning APNs to and from HLRs

You can assign or deassign Access Point Names (APNs) to or from one or several home location registers (HLRs).

Prerequisites

You have the right to link APNs to HLRs.

Select **GSM** from the **Market** list box.

Select **Actions** > **Directory Numbers** > **Linking DNs to HLRs**.

The **Linking of Directory Numbers to HLR for GSM** window opens.

Select the combination of numbering plan and directory number type with which the APN is associated from the list provided in **Numbering plan**.

Select the network in which the APN is used.

If the APN is private, select a Virtual Private Network from the **VPN** list box.



Select the APN to be assigned to an HLR from the **Directory Number** list box.

Do you want to assign an APN to an HLR or deassign it from an HLR?

Assign an APN.

Select the HLR from the **unassigned** list box and click **Add >>**.

Deassign an APN.

Select the HLR from the **assigned** list box and click **<< Remove**.

Click the **Save** icon to save the assignment or deassignment.

Click the **Close** icon to close the window.

### 3.5.9 Assigning APNs to and Deassigning them from GPRS Services

You can link one or more APNs to a GPRS service for the GSM market. The linked APNs are then available exclusively for this service. An APN must be assigned to a service before it can be used. Only those APNs that have not yet been assigned to other GPRS services will be available for assignment.

You can also unlink APNs from a GPRS service, but only if the service with these APNs linked to it is not assigned to a contract.

**Implementation tip:** The PARAMETER\_VALUE table must be scanned to find out whether an APN is already used in a contract. This may have a negative effect on the performance, so an index should be generated on the PARAMETER\_VALUE.PRM\_VALUE\_STRING column.

Prerequisites

Before you can assign or deassign APNs, you need the appropriate permission assigned.

Select **GSM** from the **Market** list box.

Select **Actions > Directory Numbers > Linking APNs to GPRS Service**.

The **Linking APN to GPRS Service for GSM** window opens.

In the **Target GPRS service** drop down list box Select the GPRS service that you want to assign APNs to or deassign APNs from.

The **Unlinked APNs** and the **Linked APNs** list boxes are populated with APNs if there are any available.

Do you want to assign APNs to or deassign APNs from the selected GPRS service?

Assign APNs.

Select one or more APNs in the **Unlinked APNs** list box and click **Add>>**.

Deassign APNs.

Select one or more APNs in the **Linked APNs** list box and click **<<Remove**.

Any APNs that are gray cannot be selected for deassignment because they are linked to GPRS services which have been assigned to customer contracts.

After assigning or deassigning APNs, they are initially displayed in blue indicating that the action has not yet been saved.

Click **Save** to save the assignment or deassignment.

The actions are saved, and the APN text color changes to black.

In some systems an APN linked to a GPRS service that is assigned to a contract may not be grayed out. In this case, the APN can be moved from one list box to the other. However, when **Save** is clicked, the APN is not assigned or deassigned.

When you are finished, click **OK** to close the window.

## 3.6 IN Resources

What is IN?

IN (Intelligent Network) is a telephone network architecture in which the service logic for a call is located separately from the switch facilities. This allows services to be added or changed without having to redesign or install new phone equipment.

IN is a service-independent architecture in which a given part of a telephone number, such as 800 or 900, triggers a request for a specific service.

IN in RA

Virtual Private Networks (VPNs) and directory numbers for VPNs can be created and deleted. Directory number blocks can be created and deleted as well as extensions defined.

VPN directory numbers can also be imported instead of created.

Refer to the following sections for more information:

- [Creating or Deleting Virtual Private Networks](#)
- [Creating or Deleting VPN Directory Numbers and Directory Number Blocks](#)
- [Defining Extensions for IN Directory Number blocks](#)

Directory numbers, independent of whether they are internal or external, are not allowed to overlap with other directory numbers. That is, directory number A is not allowed to be the prefix of directory number B.

For example, if directory number 123 456 789 already exists, it is not possible to enter directory number 123 456 789 0, since the first digits 123 456 789 would overlap. After dialing 123 456 789 an active directory number is reached, therefore dialing the additional 0 to get a different connection is not possible.

To be available for contracts, directory numbers have to be allocated to a sales partner.

- [Allocating VPN Directory Numbers to a Sales Partner](#)

### 3.6.1 Creating or Deleting Virtual Private Networks

The attributes associated with a VPN are required later to create or handle VPN directory numbers. You can add, change or remove attributes.

VPNs can be deleted only if they are not linked to directory numbers.

Select **Intelligent Network Services** from the **Market** list box.

Select **Actions > VPN > Generate/Delete...**

The **Generate/Delete VPNs for Intelligent Network Services** window opens.

Do you want to create a VPN or delete it?

Create a VPN.

Go to **step 4**.

Delete a VPN.

Go to **step 9**.

**VPN creation:** Enter the name of the Virtual Private Network in the **VPN** combo box.

All characters including special characters are allowed. Spaces at the end of the line are deleted.

Click **Create**.

The system checks for duplicate VPNs. If the VPN is unique, it is created.

Once you saved the new VPN, you cannot change the name in RA.

Specify the numbering plan, the network and other important data for the new VPN. This is necessary in order assign a VPN number and, in the case of external network-based VPNs, private VPN numbers to the VPN. In Customer Center (CX), you can create a VPN owner contract only if a VPN number is assigned to the VPN.

To do so, click **Add** and read the steps in [Entering VPN Attributes](#).

Click **Update** to save the VPN in the database.

Click **Close** to close the **Generate/Delete VPNs for Intelligent Network Services** window.

**VPN creation:** Select the VPN to be deleted from the **VPN** combo box.

Click **Delete**.

Click **Close** to close the **Generate/Delete VPNs for Intelligent Network Services** window.

Next task

Enter the directory numbers to be usable in the VPN. Refer to [Creating or Deleting VPN Directory Numbers and Directory Number Blocks](#).

### ***3.6.1.1 Entering VPN Attributes***

Attributes of VPNs are; for example, the numbering plan associated with the VPN.

Prerequisites

- A VPN has been created. (Refer to [Creating or Deleting Virtual Private Networks](#).)
- The **Generate/Delete Virtual Private Network for GSM** window is open.  
(**Actions** > **VPN** > **Generate/Delete...**)

Do you want to add, change or delete VPN attributes?

Add attributes.

Click **Add** to open the **Edit VPN address** window.

Change attributes.

Click **Change** to open **Edit VPN address** window.

If the VPN is already linked to a directory number, only the numbering plan, network and HLR can be changed.

Delete an attribute.

Click **Remove** and go to **step 7** in [Creating or Deleting Virtual Private Networks](#).

Select a numbering plan from the **Numbering plan** list box.

Select the network to which the VPN belongs.

Select a home location register from the **INR** list box.

This list box is not available if only one HLR is configured in the database.

If you selected a numbering for VPN private numbers, you can select a mapping rule for connecting a public number to a private number.

If you selected a numbering for VPN private numbers, enter the national destination code (NDC) in the **Prefix** text box and a description for the NDC in the **Description** text box.

The NDC is later used for creating VPN directory numbers.

The description is displayed in the **NDC** list boxes in other windows.

Click **OK** to close the **Edit VPN address** window.

Return to **step 7** in [Creating or Deleting Virtual Private Networks](#).

### 3.6.2 Creating or Deleting VPN Directory Numbers and Directory Number Blocks

Select **Intelligent Network Services** from the **Market** list box.

Select **Actions** > **Directory Numbers** > **Generate/Delete....**

The **Generate/Delete Directory Numbers for Intelligent Network Services** window opens.

Select the combination of numbering plan and directory number type with which the directory numbers are associated from the list provided in **Numbering plan**.

If you selected an APN or PDP numbering plan and if you want the APNs and PDP addresses to be private, select the Virtual Private Network to be linked to the APNs or PDP addresses from the **VPN** list box.

Select a network from the **Network** list box.

If you selected an MSISDN numbering plan, select the National Destination Code from the **NDC** list box.

Select a physical home location register from the **INR** list box.

This list box is not available if only one HLR is configured in the database.

Select the logical HLR from the **Range** list box.

Logical HLRs are subsets of the physical HLR. They are available only if the selected physical HLR comprises more than one logical HLR.

The **Constant Part** text box displays the part of the number which is common to all directory numbers covered by the selection above.

Enter the first and last number for the extension of the VPN directory numbers in the **from** and **up to** text boxes. These numbers must be within the default range and have the same length.

You can narrow down the creation or deletion of VPN directory numbers to one or more types by selecting one or more types of MSISDNs from the **Numbers of type** list box. By default, all entries are selected.

The clsfydn.dll is used to customize type-specific directory numbers.

- V.I.P.: ending with 00
- Golden: ending with 99
- Regular: all other numbers not ending with 00 or 99

If you want to define directory number blocks, enter the first block directory number in the **from** text box and the last block directory number in the **up to** text box. The length of both numbers must be the same.

To define the extensions of directory number blocks, refer to [Defining Extensions for Directory Number Blocks](#) when you have completed this task.

Do you want to create VPN directory numbers or delete them?

Create VPN directory numbers.

Click **Create**.

A message shows the numbers of directory numbers to be created.

Delete VPN directory numbers.

Click **Delete**.

A message shows the numbers of directory numbers to be deleted.

Click **OK** to create or delete the range of directory numbers.

A message appears if any of the directory numbers cannot be created or deleted.

If the directory numbers you want to create overlap with already existing directory numbers, they cannot be created. For more details about overlapping numbers, refer to [Directory Numbers](#) in the Resources concept.

Click **Close** to close the **Generate/Delete Directory Numbers for GSM** window.

Next task

Assign the VPN directory numbers to a sales partner. To do this, refer to [Assigning or Deassigning VPN Directory Numbers to or from Sales Partners](#).

If you have specified directory number blocks, continue with [Defining Extensions for Directory Number Blocks](#).

### 3.6.3 Defining Extensions for IN Directory Number Blocks

Directory number blocks are directory numbers with a subset of extensions belonging to a company-internal telephone exchange system which routes external and in-house calls to phone extensions. This system is called private branch exchange (PBX).

A directory number block can have one or more extension ranges. They can all be deleted, except one. If the directory number block is not yet assigned to a contract, its free extension ranges can be changed or deleted.

Directory number blocks remain in the reserved status until all extensions of the directory number block are set to active in Customer Center. The reserved status refers to the invariable part of the number before the extension.

When directory number blocks are assigned to a sales partner, the status of their extensions does not change. They remain in the free status until Customer Center assigns all extensions. Then their status is changed to active. Active extension ranges cannot be changed or deleted.

When an extension is created for an active directory number, the directory number is set to the status reserved.

When entering new extension ranges in addition to existing ones, make sure the ranges do not overlap.

**Example:** The directory number block has an extension range from 050 to 100. New extension ranges can then be either from 101 to 120 (greater than the existing extension range) or from 002 to 049 (smaller than the existing extension range).

The extension ranges of directory number blocks should be processed only by users who know which extension ranges have to be provided to Customer Center.

Select **Intelligent Network Services** from the **Market** list box.

Select **Actions** > **Directory Numbers** > **Block Number splitting**.

The **Block Number splitting for Intelligent Network Services** window opens.

Select the combination of numbering plan and directory number type with which the directory numbers are associated from the list provided in **Numbering plan**.

Select the network to which the directory number blocks belong.

Enter a directory number block in full length, but without the Country Code (CC) and the National Access Code (NAC) prefix **0** in the **Directory Number** text box.

Click the **Refresh** icon.

The directory number block is checked for validity. If it is a valid directory number block, the associated extension ranges are displayed in the table.

Select a table row.

You can either create new extension ranges or change and delete existing ones. How do you want to process the extension ranges of the directory number block?

Create new extension ranges for the directory number block.

Go to **steps 9 and 10**.

Change existing extension ranges.

Go to **steps 11 and 12**.

Delete extension ranges.

Click the **Delete** icon. A message appears asking you if you really want to delete the extension ranges. Click **Yes**.

The selected extension range is given the status **not valid** and marked as being deleted.

Click the **New** icon.

The **Edit Block Number splitting for IN** window opens.

Enter the new extension range in the **from** and **up to** text boxes. The new extension ranges must meet the following requirements:

- no overlapping with an existing extension range
- the extensions in the **from** and **up to** text boxes must have the same length
- the extensions in the **from** and **up to** text boxes must have the same length or be smaller than existing extension ranges

See the **example** in the introduction.

The **Block size** text box displays the number of single directory numbers that are included in the block. The block size is not restricted.

Then go to **step 13**.

Click the **Open** icon.

The **Edit Block Number splitting** window opens containing the selected valid extension range.

Enter the new extension range in the **from** and **up to** text boxes. The new extensions range must meet the following requirements:

- no overlapping with an existing extension range
- the extensions in the **from** and **up to** text boxes must have the same length
- the extensions in the **from** and **up to** text boxes must have the same length or be smaller than existing extension ranges

See the **example** in the introduction.

The **Block size** text box displays the number of single directory numbers that are included in the block. The block size is not restricted.

Click **OK**.

The **Edit Block Number splitting** window closes.

- If you created a new extension range, a new row is added to the table. It contains the new extension ranges which have the status **free**.



If you created a new extension range for a directory number block that is already assigned to a contract with all its extensions, the status of the directory number block is changed from **active** to **reserved**.

- If you changed an existing extension range, a new row is added to the table. It contains the changed extension range, which has the status **free**. The extension range in the row you selected before you clicked the **Open** icon is given the status **not valid** and is marked as being deleted.

Click the **Save** icon.

- The new or changed extension ranges are saved in the database.
- All rows marked as being deleted are removed.
- The table in the **Block Number splitting for Intelligent Network Services** window is updated and shows the currently valid extension ranges of the directory number block.

Click the **Close** icon to close the **Block Number splitting for Intelligent Network Services** window.

### 3.6.4 Allocating VPN Directory Numbers to Sales Partners

Directory numbers (MSISDN) have to be assigned to a specific sales partner or service provider to be available for new contracts.

For this purpose you can either allocate newly created directory numbers or redistribute directory numbers by removing them from one sales partner and allocating them to another.

If the system is deployed in a multicompany environment, you have to specify the business unit to be assigned to the resource during the allocation of resources to a sales partner. Resources can be used only for those contracts that belong to the same business unit as the resource.

To remove directory numbers from a sales partner, perform the steps below and click the **Deassign** icon. This changes the status of the specified directory numbers to **free**.

Directory numbers can be removed from a sales partner only as long as they are not assigned to a contract.

Directory number blocks cannot be removed if one or more extension ranges are active

Select **Intelligent Network Services** from the **Market** list box.

Select **Actions** > **Directory Numbers** > **Distribute....**

The **Distribute Directory Number for Intelligent Network Services** window opens.

Select the combination of numbering plan and directory number type with which the directory numbers are associated from the list provided in **Numbering plan**.

If you selected an APN or PDP numbering plan and the APNs and PDP addresses are private, select the Virtual Private Network linked to the APNs or PDP addresses from the **VPN** list box.

Select the network in which the directory numbers are used.

If you selected an MSISDN numbering plan, select the National Destination Code that belongs to the directory numbers from the **NDC** list box.

Select the physical home location register from the **INR** list box.

This list box is not available if only one HLR is configured in the database.

Select the logical HLR from the **Range** list box.

Logical HLRs are subsets of the physical HLR. They are available only if the selected physical HLR comprises more than one logical HLR.

The **Constant Part** text box displays the part of the number which is common to all directory numbers covered by the selection above.

Enter the identification code of the sales partner or service provider to whom you want to allocate the directory numbers in the **Dealer/Provider** text box.

The address and total quantity associated with this sales partner appear in the text boxes.

If you do not know the identification code, click the **Search** icon to open the **Find Dealer/Provider** window. Various search criteria are available to help you find the required sales partner. For more information refer to [Searching for Sales Partners](#).

Select the business unit for the resources.

The **Business Unit** list box is available only if you run the system in a multicompany environment.

Enter the number of directory numbers you want to allocate in the **Quantity** text box.

You can enter the first number of the range of directory numbers to be assigned or deassigned in the **1 st Number** text box. The subscriber-specific part of the directory number must be entered without National Destination Code.

Directory numbers whose extension corresponds to the entered length are allocated.

If you do not enter a number, directory numbers of any length within the minimum or maximum length configured are allocated.

The directory number you enter must not exceed the minimum and maximum length of the extension configured in the database.

You can narrow down the assignment or deassignment of directory numbers to one or more types by selecting one or more types of directory numbers from the **Numbers of type** list box. By default, all entries are selected.

- V.I.P.: ending with 00
- Golden: ending with 99
- Regular: all other numbers not ending with 00 or 99

The `clsfydn.dll` is used to customize conventions for the creation of type-specific directory numbers.

Do you want to allocate regular numbers or number blocks?

Regular numbers.

Select the **Single** radio button in the **Directory Number** group box.

Number blocks.

Select the **Block** radio button in the **Directory Number** group box. You can also determine the maximum number of digits the extension range is allowed to have in the **Max. Extension Length** text box.

To check the number of directory numbers that can be allocated, click the **Assign** icon.

The number of available directory numbers is displayed in the table at the bottom of the window. If not enough directory numbers are available in the database, a message appears. If so, adjust the number in the **Quantity** text box.

To change the selection of directory numbers, you can select or clear specific directory numbers in the table as follows:

- To change the selection of individual rows, click one or more rows separately.
- To clear a large number of directory numbers, click **None** and select one or more rows.
- To select a large number of directory numbers, click **All** and clear one or more rows.

The directory numbers in the rows selected (check mark) are allocated.

Click **Save** to change the status of the directory numbers selected to **reserved**.

You can allocate more directory numbers. For which sales partner do you want to repeat the procedure?

For the same sales partner.

Click the **New Order Item** icon.

For a different sales partner.

Click the **New** icon.

The entries you made before are cleared.

Click the **Close** icon.

The **Distribute Directory Number for Intelligent Network Services** window closes.

## 3.7 ISDN Resources

What is ISDN?

ISDN (Integrated Services Digital Network) is the standard for circuit-switched voice and data networks. It includes a number of bearer (B) channels and one delta (D) channel. The B channels transmit data, voice, and other services, while the D channel transmits control and signaling information.

The resources used in ISDN systems include:

- ISDN

The phone number in the ISDN market. It can be used for different services such as telephony or fax.

- OLID (Originating Line ID)

The port in the ISDN market.

ISDN in RA

You can create and delete ports as well as create and order directory numbers and directory number blocks. Ports and directory numbers can also be imported instead of created. When creating a purchase order for directory numbers, IP addresses can also be selected as a type of directory number. The numbering plans related to IP addresses support either the IPv4 or IPv6 internet protocol.

For more information, refer to:

- [Creating and Deleting ISDN Ports](#)
- [Ordering ISDN Directory Numbers](#)
- [Generate / Delete Directory Numbers for ISDN](#)
- [Defining Extensions for ISDN Directory Number Blocks](#)

Directory numbers, independent of whether they are internal or external, are not allowed to overlap with other directory numbers. That is, directory number A is not allowed to be the prefix of directory number B.

For example, if directory number 123 456 789 already exists, it is not possible to enter directory number 123 456 789 0, since the first digits 123 456 789 would overlap. After dialing 123 456 789 an active directory number is reached, therefore dialing the additional 0 to get a different connection is not possible.

ISDN resources have to be allocated to a sales partner to be available for contracts.

- [Allocating ISDN Directory Numbers to a Sales Partner](#)
- [Allocating ISDN Ports to a Sales Partner](#)

### 3.7.1 Creating and Deleting ISDN Ports

Select **ISDN market** from the **Market** list box.

Select **Actions** > **Ports** > **Generate/Delete...**

The **Generate/Delete Ports for ISDN market** window opens.

Select a numbering plan from the **Numbering plan** list box.

Select the network to which the ports belong from the **Network** list box.

Select a home location register from the **Register** list box.

This list box is not available if only one HLR is configured in the database.

The **Constant Part** text box contains the sections which are common to all ports being created or deleted.

Enter the first and last number of the extensions of the port in the **from** and **up to** text boxes in the **Local Address** group box.

The numbers must be within the default range configured in the database and have the same length.

If you create ports, you can assign parameters to them. To do this, click **Assign Parameter** and refer to [Assigning Service Parameters to Ports](#).

To deassign parameters, click **Clear**.

Do you want to create ports or delete them?

Create ports.

Click **Create**.

A message shows the number of ports that can be created.

Delete ports.

Click **Delete**.

A message shows the number of ports that can be deleted.

Click **OK** to actually create or delete the ports.

A message appears if any of the ports cannot be created or deleted.

Click **Close** to close the **Generate/Delete Ports for ISDN** window closes.

Next task

Assign the ports to a sales partner.

### 3.7.2 Ordering ISDN Directory Numbers or Directory Number Blocks

ISDN directory numbers are ordered from an external issuer or vendor. You can order either standard directory numbers or directory number blocks that are used in one or more private branch exchanges (PBX).

For IP addresses, you can also create a purchase order for directory numbers using numbering plans for IP addresses. These numbering plans support either the IPv4 or IPv6 internet protocol.

Select **ISDN market** from the **Market** list box.

Select **Actions > Directory Numbers > Purchase Order**.

The **Purchase Order for ISDN market** window opens with the **Header** tab in focus.

Click the **New** icon.

Select the issuer who receives the purchase order from the **Vendor** list box.

Select the **Item Characteristics** tab.

Select the combination of numbering plan and directory number type with which the resources are associated from the list provided in **Numbering plan**.

Select the network to which the directory numbers belong.

Select the physical home location register from the **Register** list box.

This list box is not available if only one HLR is configured in the database.

Select the logical HLR from the **Range** list box.

Logical HLRs are subsets of the physical HLR. They are available only if the selected physical HLR comprises more than one logical HLR.

Enter the area code in the **Constant Part** text box without the National Destination Code prefix **0**.

**Example:** For Frankfurt enter 69 (not 069).

The area code is checked for validity. If it is valid, the **Zone Destination** text box shows the name of the destination.

Enter the number of directory numbers you want to order in the **Quantity** text box.

If you want the purchase order item to start with a specific directory number, enter it in the **DN start value** text box.

Only resources equal to or greater than the entered number are ordered.

The number must correspond to the minimum and maximum resource length configured in the database. Otherwise a message prompts you to adjust your input.

If you want to order a directory number block, enter the first and the last number of the block in the **from** and **up to** text boxes in the **Block Number** group box. Both numbers must have the same length.

A number block consists of the Country Code + Area Code + Base Code + Extension, where the Base Code is the constant part and the extension is the variable part.

The **Block size** text box displays the number of single directory numbers that are included in the block. The block size is not restricted.

To change or delete extensions, refer to [Defining Extension for ISDN Directory Number Blocks](#).

Click the **Add Item to Order** icon.

A new row with the details of the purchase order item is added to the table.

To add another item to the current purchase order, select **New Item** from the **Item** menu and repeat **steps 6 to 14**.

The text and list boxes on the **Item Characteristics** tab are cleared.

If everything is correct with the purchase order item, click the **Save** icon. If you want to change the data, refer to [Changing or Deleting a Purchase Order Item](#).

A message shows the new order number. If your system supports PPC files, the corresponding PPC input files are written to a predefined directory.

The reference data records of the purchased directory numbers are either entered immediately in the database (with the status **purchased**) or they are entered in the database after the purchase order receipt has been processed. It depends on the configuration in the APP\_MODULES database table.

Next task

Assign the directory numbers to a sales partner.

### 3.7.3 Defining Extensions for ISDN Directory Number Blocks

The definition of extensions for directory number blocks in the ISDN market is done in the same way as the definition of extensions for directory number blocks in the Intelligent Network Services market.

Please refer to [Defining Extensions for IN Directory Number Blocks](#). The only difference is that you have to select the **ISDN market** from the **Market** list box in the first step.

### 3.7.4 Allocating ISDN Directory Numbers to a Sales Partner

Directory numbers (ISDNs) have to be assigned to a specific sales partner or service provider to be available for new contracts.

For this purpose you can either allocate newly created directory numbers or redistribute directory numbers by removing them from one sales partner and allocating them to another.

If the system is deployed in a multicompany environment, you have to specify the business unit to be assigned to the resource during the allocation of resources to a sales partner. Resources can be used only for those contracts that belong to the same business unit as the resource.

To remove directory numbers from a sales partner, perform the steps below and click the **Deassign** icon. This changes the status of the specified directory numbers to **free**.

Directory numbers can be removed from a sales partner only as long as they are not assigned to a contract.

Select **ISDN** from the **Market** list box.

Select **Actions > Directory Numbers > Distribute....**

The **Distribute Directory Number for ISDN market** window opens.

Select the combination of numbering plan and directory number type with which the directory numbers are associated from the list provided in **Numbering plan**.

Select the network in which the directory numbers are used.

Select the physical home location register from the **Register** list box.

This list box is not available if only one HLR is configured in the database.

Select the logical HLR from the **Range** list box.

Logical HLRs are subsets of the physical HLR. They are available only if the selected physical HLR comprises more than one logical HLR.

Enter the identification code of the sales partner or service provider to whom you want to allocate the directory numbers in the **Dealer/Provider** text box.

The address and total quantity associated with this sales partner appear in the text boxes.

If you do not know the identification code, click the **Search** icon to open the **Find Dealer/Provider** window. Various search criteria are available to help you find the required sales partner. For more information refer to [Searching for Sales Partners](#).

Select the business unit for the resources.

The **Business Unit** list box is available only if you run the system in a multicompany environment.

Enter the number of directory numbers you want to allocate in the **Quantity** text box.

Enter the area code in the **Constant Part** text box without the National Destination Code prefix **0**.

**Example:** For Frankfurt enter 69 (not 069).

The area code is checked for validity. If it is valid, the **Zone Destination** text box shows the name of the destination.

You can enter the first number of the range of directory numbers to be assigned or deassigned in the **1 st Number** text box. The subscriber-specific part of the directory number must be entered without National Destination Code.

Directory numbers whose extensions correspond to the entered length are assigned.

If you do not enter a number, directory numbers of any length within the minimum or maximum length configured are allocated.

The directory number you enter must not exceed the minimum and maximum length of the extension configured in the database.

You can narrow down the allocation of directory numbers to one or more types by selecting one or more types of directory numbers from the **Numbers of type** list box. By default, all entries are selected.

- V.I.P.: ending with 00
- Golden: ending with 99
- Regular: all other numbers not ending with 00 or 99

The `clsfydn.dll` is used to customize conventions for the creation of type-specific directory numbers.

Do you want to allocate regular numbers or number blocks?

Regular numbers.

Select the **Single** radio button in the **Directory Number** group box.



Number blocks.

Select the **Block** radio button in the **Directory Number** group box. You can also determine the maximum number of digits the extension range is allowed to have in the **Max. Extension Length** text box.

To check the number of directory numbers that can be allocated, click the **Assign** icon.

The number of available directory numbers is displayed in the table at the bottom of the window. If not enough directory numbers are available in the database, a message appears. If so, adjust the number in the **Quantity** text box.

To change the selection of directory numbers, you can select or clear specific directory numbers in the table as follows:

- To change the selection of individual rows, click one or more rows separately.
- To clear a large number of directory numbers, click **None** and select one or more rows.
- To select a large number of directory numbers, click **All** and clear one or more rows.

The directory numbers in the rows selected (check mark) are allocated.

Click **Save** to change the status of the directory numbers selected to **reserved**.

You can allocate more directory numbers. For which sales partner do you want to repeat the procedure?

For the same sales partner.

Click the **New Order Item** icon.

For a different sales partner.

Click the **New** icon.

The entries you made before are cleared.

Click the **Close** icon.

The **Distribute Directory Number for ISDN market** window closes.

### 3.7.5 Allocating ISDN Ports to a Sales Partner

ISDN ports have to be assigned to a specific sales partner or service provider to be available for new contracts. For this purpose you can either allocate newly created resources or redistribute resources by removing them from one sales partner and allocating them to another.

To remove ports from a sales partner, perform the steps below and click the **Deassign** icon. This changes the status of the specified ports to **free**.

If the system is deployed in a multicompany environment, you have to specify the business unit to be assigned to the resource during the allocation of resources to a sales partner. Resources can be used only for those contracts that belong to the same business unit as the resource.

ISDN ports can be removed from a sales partner only as long as they are not assigned to a contract.

Select **ISDN** from the **Market** list box.

Select **Actions > Ports > Distribute....**

The **Distribute Port for ISDN market** window opens.

Select the numbering plan to which the ports belong.

Select the network in which the ports are used.

Select a home location register from the **Register** list box.

This list box is not available if only one HLR is configured in the database.

Enter the identification code of the sales partner or service provider to whom you want to allocate the ISDN ports in the **Dealer/Provider** text box.

The address and total quantity associated with this sales partner appear in the text boxes.

If you do not know the identification code, click the **Search** icon to open the **Find Dealer/Provider** window. Various search criteria are available to help you find the required sales partner. For more information refer to [Searching for Sales Partners](#).

Select the business unit for the resources.

The **Business Unit** list box is available only if you run the system in a multicompany environment.

Enter the number of ports you want to assign or deassign in the **Quantity** text box.

If you want the ports to start with a particular number, enter this number in the **1st Number** text box.

If you do not enter a first number, ports of any length within the range of the minimum or maximum length that is configured in the database are assigned or deassigned.

To check the number of ports that can be allocated, click the **Assign** icon.

The number of available ports is displayed in the table at the bottom of the window. If not enough ports are available in the database, a message appears. If so, adjust the number in the **Quantity** text box.

To change the selection of ports, you can select or clear specific ports in the table as follows:

- To change the selection of individual rows, click one or more rows separately.
- To clear a large number of ports, click **None** and select one or more rows.

- To select a large number of ports, click **All** and clear one or more rows.

The ports in the rows selected (check mark) are allocated.

Click **Save** to change the status of the ports selected to **reserved**.

You can allocate more ports. For which sales partner do you want to repeat the procedure?

For the same sales partner.

Click the **New Order Item** icon.

For a different sales partner.

Click the **New** icon.

The entries you made before are cleared.

Click the **Close** icon.

The **Distribute Port for ISDN market** window closes.

## 3.8 Leased Line Resources

What is Leased Line?

Leased lines are dedicated lines rented from a telephone company. They transmit voice and data.

A leased line consists of three parts:

- Part A  
Connects the calling party to the leased line provider's point of presence (POP).
- Part B  
Connects the source and the target POP.
- Part C  
Connects the target POP to the called party.

The points of presence (POP) are assigned as service parameters.

The following resources are used:

- Line ID  
The port in the Leased Line market. It identifies the user of the line, but the customer is charged a flat rate for using the line (no usage charges). The line ID also identifies the capacity of the leased line.
- Directory numbers and storage media are not used.

Leased Line in RA

You can create and delete ports, or you can import them.

Refer to the following sections for more information:

- [Creating and Deleting Leased Line Ports](#)

The ports have to be allocated to a sales partner to be available for contracts.

- [Allocating Leased Line Ports to a Sales Partner](#)

### 3.8.1 Creating and Deleting Leased Line Ports

Select **Leased Line** from the **Market** list box.

Select **Actions** > **Ports** > **Generate/Delete....**

The **Generate/Delete Ports for Leased Line** window opens.

Select a numbering plan from the **Numbering plan** list box.

Select the network to which the ports belong from the **Network** list box.

Select a home location register from the **REG** list box.

This list box is not available if only one HLR is configured in the database.

The **Constant Part** text box contains the sections which are common to all ports being created or deleted.

Determine how often the ports can be used for parallel data processing by entering a number in the **Capacity** text box.

Enter the first and last number of the extensions of the port in the **from** and **up to** text boxes in the **Local Address** group box.

The numbers must be within the default range configured in the database and have the same length.

You can assign parameters to the ports. To do this, click **Assign Parameter** and refer to [Assigning Service Parameters to Ports](#).

To deassign parameters, click **Clear**.

Do you want to create ports or delete them?

Create ports.

Click **Create**.

A message shows the number of ports that can be created.

Delete ports.

Click **Delete**.

A message shows the number of ports that can be deleted.

Click **OK** to actually create or delete the ports.

A message appears if any of the ports cannot be created or deleted.

Click **Close** to close the **Generate/Delete Ports for Leased Line** window closes.

Next task

Assign the ports to a sales partner.

### 3.8.2 Allocating Leased Line Ports to a Sales Partner

Leased Line ports have to be assigned to a specific sales partner or service provider to be available for new contracts. For this purpose you can either allocate newly created resources or redistribute resources by removing them from one sales partner and allocating them to another.

If the system is deployed in a multicompany environment, you have to specify the business unit to be assigned to the resource during the allocation of resources to a sales partner. Resources can be used only for those contracts that belong to the same business unit as the resource.

To remove directory numbers from a sales partner, perform the steps below and click the **Deassign** icon. This changes the status of the specified directory numbers to **free**.

Leased Line ports can be removed from a sales partner only as long as they are not assigned to a contract.

Select **Leased Line** from the **Market** list box.

Select **Actions > Ports > Distribute....**

The **Distribute Port for Leased Line** window opens.

Select the numbering plan to which the ports belong.

Select the network in which the ports are used.

Select a home location register from the **REG** list box.

This list box is not available if only one HLR is configured in the database.

Enter the identification code of the sales partner or service provider to whom you want to allocate the ports in the **Dealer/Provider** text box.

The address and total quantity associated with this sales partner appear in the text boxes.

If you do not know the identification code, click the **Search** icon to open the **Find Dealer/Provider** window. Various search criteria are available to help you find the required sales partner. For more information refer to [Searching for Sales Partners](#).

Select the business unit for the resources.

The **Business Unit** list box is available only if you run the system in a multicompany environment.

Enter the number of ports you want to allocate in the **Quantity** text box.

If you want the ports to start with a particular number, enter this number in the **1st Number** text box.

If you do not enter a first number, ports of any length within the range of the minimum or maximum length that is configured in the database are assigned or deassigned.

To check the number of ports that can be allocated, click the **Assign** icon.

The number of available ports is displayed in the table at the bottom of the window. If not enough ports are available in the database, a message appears. If so, adjust the number in the **Quantity** text box.

To change the selection of ports, you can select or clear specific ports in the table as follows:

- To change the selection of individual rows, click one or more rows separately.
- To clear a large number of ports, click **None** and select one or more rows.
- To select a large number of ports, click **All** and clear one or more rows.

The ports in the rows selected (check mark) are allocated.

Click **Save** to change the status of the ports selected to **reserved**.

You can allocate more ports. For which sales partner do you want to repeat the procedure?

For the same sales partner.

Click the **New Order Item** icon.

For a different sales partner.

Click the **New** icon.

The entries you made before are cleared.

Click the **Close** icon.

The **Distribute Port for Leased Line** window closes.

## 3.9 Preactivated Prepaid Resources

To create preactivated prepaid contracts, resources are needed which provide a prepaid profile. These resources (storage medium, port and directory number) are referred to as **preactivated prepaid resources**. They are always created as a triple combination and any number of such triple combinations can be created simultaneously in a

batch. The actual preactivated prepaid contracts are created by Batch Execution Engine (BEE) when the appropriate batch job is triggered in Configuration Management (ADMX).

Depending on license agreements, the number of pre-activated prepaid contracts can be limited. In such a case, this limit is supervised by License Manager. If the limit is exceeded, creation of further pre-activated prepaid contracts is not possible.

To create preactivated prepaid resources, perform the steps listed below. For background information about preactivated prepaid contracts, refer to the Preactivated Prepaid Contracts concept.

Create or import the resources and link them to a prepaid profile. Refer to the following sections for details:

- [Ordering Calling Cards](#)
- [Ordering SIM Cards \(Purchase Order\)](#)
- [Create and Delete AMPS Ports](#)
- [Importing Resource Files](#)

Depending on the market, the resources you receive from the vendor differ. In addition to the preactivated prepaid handsets, you receive the following resources:

- SIM cards in the GSM market
- ESNs (Electronic Serial Numbers) in the AMPS market
- Calling cards in the Calling Card market

After you have received a preactivated prepaid resource file, you can compare the contents of the file with your purchase order. For details, refer to [Checking Resources Received](#).

Assign the resources you created in **step 1** to a sales partner. Refer to the following sections for details:

- [Allocating Calling Cards to a Sales Partner](#)
- [Allocating Storage Media to a Sales Partner](#)
- [Allocating AMPS Ports to a Sales Partner](#)

Next Task

Create a preactivated prepaid contract with the resources you just created.

## 3.10 X.25 Resources

What is X.25?

A PDP standard which allows computers on different networks to communicate. An X.25 network consists of components which interconnect over a geographical area and provide a service to the data terminal equipment (DTE) of network subscribers. X.25 networks can be accessed via a leased line, dial-up line or via ISDN. X.25 supports two types of data transfer:

- using SVC
- using PVC

The resources for the X.25 market include:

- **NUA (Network User Address)**  
The directory number in the X.25 market. Each NUA uniquely identifies a piece of data terminal equipment (DTE) in the network. The NUA is between 5 and 14 digits long.
- **NUI (Network User Identifier)**  
The name of the port in the X.25 market. The NUI is used to bill the services consumed by the customer. The NUI is a simple character string, for example, A001000.

X.25 in RA

You can create or delete ports. Directory numbers can be ordered. Both resources can also be imported.

Refer to the following sections for more information:

- [Creating and Deleting X.25 Ports](#)
- [Ordering X.25 Directory Numbers](#)

X.25 resources have to be allocated to a sales partner to be available for contracts.

- [Allocating X.25 Directory Numbers to Sales Partners](#)
- [Allocating X.25 Ports to Sales Partners](#)

### 3.10.1 Creating and Deleting X.25 Ports

Select **X.25 data communication** from the **Market** list box.

Select **Actions** > **Ports** > **Generate/Delete....**

The **Generate/Delete Ports for X.25 data communication** window opens.

Select a numbering plan from the **Numbering plan** list box.

Select the network to which the ports belong from the **Network** list box.

Select a home location register from the **REG** list box.

This list box is not available if only one HLR is configured in the database.

The **Constant Part** text box contains the sections which are common to all ports being created or deleted.

Enter the first and last number of the extensions of the port in the **from** and **up to** text boxes in the **Local Address** group box.

The numbers must be within the default range configured in the database and have the same length.

You can assign parameters to the ports. To do this, click **Assign Parameter** and refer to [Assigning Service Parameters to Ports](#).

To deassign parameters, click **Clear**.



Do you want to create ports or delete them?

Create ports.

Click **Create**.

A message shows the number of ports that can be created.

Delete ports.

Click **Delete**.

A message shows the number of ports that can be deleted.

Click **OK** to actually create or delete the ports.

A message appears if any of the ports cannot be created or deleted.

Click **Close** to close the **Generate/Delete Ports for X.25 data communication** window closes.

Next task

Order directory numbers.

### 3.10.2 Ordering X.25 Directory Numbers

X.25 directory numbers (NUAs) are ordered from an external issuer or vendor. You can order either standard directory numbers or directory number blocks that are used in one or more private branch exchanges (PBX).

You can order phone numbers only. Other types of directory numbers are not supported.

Select **X.25 data communication** from the **Market** list box.

Select **Actions > Directory Numbers > Purchase Order**.

The **Purchase Order for X.25 data communication** window opens with the **Header** tab in focus.

Click the **New** icon.

Select the issuer who receives the purchase order from the **Vendor** list box.

Select the **Item Characteristics** tab.

Select the combination of numbering plan and directory number type with which the resources are associated from the list provided in **Numbering plan**.

Select the network to which the directory numbers belong.

Select the physical home location register from the **REG** list box.

This list box is not available if only one HLR is configured in the database.

Select the logical HLR from the **Range** list box.

Logical HLRs are subsets of the physical HLR. They are available only if the selected physical HLR comprises more than one logical HLR.

Enter the number of directory numbers you want to order in the **Quantity** text box.

You can order a maximum of 10,000 directory numbers.

If you want the purchase order item to start with a specific directory number, enter it in the **DN start value** text box.

The number must correspond to the minimum and maximum resource length configured in the database. Otherwise a message prompts you to adjust your input.

If you want to order a directory number block, enter the first and the last number of the block in the **from** and **up to** text boxes in the **Block Number** group box. Both numbers must have the same length.

A number block consists of the Country Code + Area Code + Base Code + Extension, where the Base Code the constant part and the extension is the variable part.

The **Block size** text box displays the number of single directory numbers that are included in the block. The block size is not restricted.

Click the **Add Item to Order** icon.

A new row with the details of the purchase order item is added to the table.

To add another item to the current purchase order, select **New Item** from the **Item** menu and repeat **steps 5 to 13**.

The text and list boxes on the **Item Characteristics** tab are cleared.

If everything is correct with the purchase order item, click the **Save** icon. If you want to change the data, refer to [Changing or Deleting a Purchase Order Item](#).

A message shows the new order number. If your system supports PPC files, the corresponding PPC input files are written to a predefined directory.

The reference data records of the purchased directory numbers are either entered immediately in the database (with the status **purchased**) or they are entered in the database after the purchase order receipt has been processed. It depends on the configuration in the APP\_MODULES database table.

Next task

Assign the directory numbers ordered and the ports created to a sales partner.

### 3.10.3 Allocating X.25 Directory Numbers to a Sales Partner

Directory numbers (NUAs) have to be assigned to a specific sales partner or service provider to be available for new contracts.

For this purpose you can either allocate newly created directory numbers or redistribute directory numbers by removing them from one sales partner and allocating them to another.

If the system is deployed in a multicompany environment, you have to specify the business unit to be assigned to the resource during the allocation of resources to a sales partner. Resources can be used only for those contracts that belong to the same business unit as the resource.

To remove directory numbers from a sales partner, perform the steps below and click the **Deassign** icon. This changes the status of the specified directory numbers to **free**.

Directory numbers can be removed from a sales partner only as long as they are not assigned to a contract.

Select **X.25 data communication** from the **Market** list box.

Select **Actions > Directory Numbers > Distribute....**

The **Distribute Directory Number for X.25 data communication** window opens.

Select the combination of numbering plan and directory number type with which the directory numbers are associated from the list provided in **Numbering plan**.

Select the network in which the directory numbers are used.

Select the National Destination Code for the directory numbers from the **NDC** list box.

Select the physical home location register from the **REG** list box.

This list box is not available if only one HLR is configured in the database.

Select the logical HLR from the **Range** list box.

Logical HLRs are subsets of the physical HLR. They are available only if the selected physical HLR comprises more than one logical HLR.

Enter the identification code of the sales partner or service provider to whom you want to allocate the directory numbers in the **Dealer/Provider** text box.

The address of the sales partner appears in a text box.

If you do not know the identification code, click the **Search** icon to open the **Find Dealer/Provider** window. Various search criteria are available to help you find the required sales partner. For more information refer to [Searching for Sales Partners](#).

Select the business unit for the resources.

The **Business Unit** list box is available only if you run the system in a multicompany environment.

Enter the number of directory numbers you want to allocate in the **Quantity** text box.

You can enter the first number of the range of directory numbers to be assigned in the **1 st Number** text box. The subscriber-specific part of the directory number must be entered without National Destination Code.

Directory numbers whose extension corresponds to the entered length are allocated.

If you do not enter a number, directory numbers of any length within the minimum or maximum length configured are allocated.

The directory number you enter must not exceed the minimum and maximum length of the extension configured in the database.

You can narrow down the allocation of directory numbers to one or more types by selecting one or more types of directory numbers from the **Numbers of type** list box. By default, all entries are selected.

- V.I.P.: ending with 00
- Golden: ending with 99
- Regular: all other numbers not ending with 00 or 99

The `clsfydn.dll` is used to customize type-specific directory numbers.

Do you want to allocate regular numbers or number blocks?

Regular numbers.

Select the **Single** radio button in the **Directory Number** group box.

Number blocks.

Select the **Block** radio button in the **Directory Number** group box. You can also determine the maximum number of digits the extension range is allowed to have in the **Max. Extension Length** text box.

To check the number of directory numbers that can be allocated, click the **Assign** icon.

The number of available directory numbers is displayed in the table at the bottom of the window. If not enough directory numbers are available in the database, a message appears. If so, adjust the number in the **Quantity** text box.

To change the selection of directory numbers, you can select or clear specific directory numbers in the table as follows:

- To change the selection of individual rows, click one or more rows separately.
- To clear a large number of directory numbers, click **None** and select one or more rows.
- To select a large number of directory numbers, click **All** and clear one or more rows.

The directory numbers in the rows selected (check mark) are allocated.

Click **Save** to change the status of the directory numbers selected to **reserved**.

You can allocate more directory numbers. For which sales partner do you want to repeat the procedure?

For the same sales partner.

Click the **New Order Item** icon.

For a different sales partner.

Click the **New** icon.

The entries you made before are cleared.

Click the **Close** icon.

The **Distribute Directory Number for X.25 data communication** window closes.

### 3.10.4 Allocating X.25 Ports to a Sales Partner

Ports (NUIs) have to be assigned to a specific sales partner or service provider to be available for new contracts.

For this purpose you can either allocate newly created ports or redistribute ports by removing them from one sales partner and allocating them to another.

If the system is deployed in a multicompany environment, you have to specify the business unit to be assigned to the resource during the allocation of resources to a sales partner. Resources can be used only for those contracts that belong to the same business unit as the resource.

To remove ports from a sales partner, perform the steps below and click the **Deassign** icon. This changes the status of the specified ports to **free**.

X.25 ports can be deassigned only as long as they are not assigned to a contract.

Select **X.25 for data communication** from the **Market** list box.

Select **Actions > Ports > Distribute....**

The **Distribute Port for X.25 for data communication** window opens.

Select the numbering plan to which the ports belong.

Select the network in which the ports are used.

Select a home location register from the **REG** list box.

This list box is not available if only one HLR is configured in the database.

Select a logical home location register from the **Range** list box.

Enter the identification code of the sales partner or service provider to whom you want to allocate the ports in the **Dealer/Provider** text box.

The address and total quantity associated with this sales partner appear in the text boxes.

If you do not know the identification code, click the **Search** icon to open the **Find Dealer/Provider** window. Various search criteria are available to help you find the required sales partner. For more information refer to [Searching for Sales Partners](#).

Select the business unit for the resources.

The **Business Unit** list box is available only if you run the system in a multicompany environment.

Enter the number of ports you want to allocate in the **Quantity** text box.

If you want the ports to start with a specific number, enter this number in the **1st Number** text box.

If you do not enter a first number, ports of any length within the range of the minimum or maximum length that is configured in the database are allocated.

To check the number of ports that can be allocated, click the **Assign** icon.

The number of available ports is displayed in the table at the bottom of the window. If not enough ports are available in the database, a message appears. If so, adjust the number in the **Quantity** text box.

To change the selection of ports, you can select or clear specific ports in the table as follows:

- To change the selection of individual rows, click one or more rows separately.
- To clear a large number of ports, click **None** and select one or more rows.
- To select a large number of ports, click **All** and clear one or more rows.

The ports in the rows selected (check mark) are allocated.

Click **Save** to change the status of the ports selected to **reserved**.

You can allocate more ports. For which sales partner do you want to repeat the procedure?

For the same sales partner.

Click the **New Order Item** icon.

For a different sales partner.

Click the **New** icon.

The entries you made before are cleared.

Click the **Close** icon.

The **Distribute Port for X.25 for data communication** window closes.

## 3.11 Handling Closed User Groups

What are Closed User Groups?

A group of subscribers who have restricted access to other members of the network. A subscriber who is a member of a closed user group can only communicate with other members of the group, but not with users outside the group. Specific closed user group members can have the right to originate calls outside the group, and/or to receive calls from outside the group.

#### Closed User Groups in RA

Closed user groups can be created for the markets GSM, ISDN and X.25. They have to be assigned to sales partners to be available for contracts.

Refer to the following sections for more information:

- [Creating and Deleting Closed User Groups](#)
- [Assigning Closed User Groups to a Sales Partner](#)

### 3.11.1 Creating and Deleting Closed User Groups

The closed user group (CUG) resource name, such as Interlock Code, can be customized in the database.

Instead of creating closed user groups you can import them by file transfer (refer to [Importing Resource Files](#)).

Select one of the following markets from the **Market** list box.

- GSM
- ISDN
- X.25

Closed user groups can be created only for those markets.

Select **Actions** > **Closed User Groups** > **Generate/Delete...**

The market-specific **Generate/Delete Closed User Group for [market]** window opens.

Determine how many closed user groups you want to create or delete by entering the first and last number of the variable part of the interlock code in the **from** and **up to** text boxes.

Both numbers must be within the default range and have the same length.

Do you want to create closed user groups or delete them?

Create them.

Click **Create**.

A message shows the number of ports that can be created.

Delete them.

Click **Delete**.

A message shows the number of ports that can be deleted.

Click **OK** to actually create or delete the closed user groups.

A message appears if any of the closed user groups cannot be created or deleted.

Click **Close** to close the **Generate/Delete Closed User Group for [market]** window.

Next task

Assign the closed user groups to a sales partner.

### 3.11.2 Assigning and Deassigning Closed User Groups to or from a Sales Partner

Closed user groups have to be assigned to a specific sales partner or service provider to be available for new contracts.

For this purpose you can either assign newly created closed user groups or redistribute ports by deassigning them from one sales partner and re-assigning them to another.

Closed user groups can be deassigned only as long as they are not assigned to a contract.

Select one of the following markets from the **Market** list box.

- GSM
- ISDN
- X.25

Closed user groups are available only for those markets.

Select **Actions > Closed User Groups > Distribute....**

The **Distribute Closed User Group for [market]** window opens.

Enter the identification code of the sales partner or service provider to whom you want to allocate the closed user group in the **Dealer/Provider** text box.

The address and total quantity associated with this sales partner appear in the text boxes.

If you do not know the identification code, click the **Search** icon to open the **Find Dealer/Provider** window. Various search criteria are available to help you find the required sales partner. For more information refer to [Searching for Sales Partners](#).

Enter the number of closed user groups you want to assign or deassign in the **Quantity** text box.

If you want the closed user groups to start with a specific number, enter this number in the **1st Number** text box.

If you do not enter a first number, closed user groups of any length within the range of the minimum or maximum length that is configured in the database are assigned or deassigned.



To check the number of closed user groups that can be allocated or removed, click the **Allocate resources to sales partner** or **Remove resources from sales partner** icon.

The number of available closed user groups is displayed in the table at the bottom of the window. If not enough closed user groups are available in the database, a message appears. If so, adjust the number in the **Quantity** text box.

To change the selection of closed user groups, you can select or clear specific closed user groups in the table as follows:

- To change the selection of individual rows, click one or more rows separately.
- To clear a large number of closed user groups, click **None** and select one or more rows.
- To select a large number of closed user groups, click **All** and clear one or more rows.

The closed user groups in the rows selected (check mark) are assigned or deassigned.

Click **Save** to change the status of the closed user groups selected to **reserved** or **free**.

If you want to repeat the procedure with the same sales partner, click the **Allocate to or remove from same sales partner** icon.

If you want to repeat the procedure with a different sales partner, click the **New** icon.

The entries you made before are cleared.

Click the **Close** icon.

The **DistributeClosed User Group for [market]** window closes.

## 3.12 General Tasks

Some tasks can be carried out in several or all markets. These include:

- [Processing Purchase Orders](#)
- [Assigning Service Parameters to Ports](#)
- [Searching for Objects](#), such as dealers
- [Generating Reports](#)

### 3.12.1 Assigning Service Parameters to Ports

Service parameters with multiple values can be assigned to ports of the following markets:

- ISDN
- X.25
- Leased Line

Prerequisites

The **Service Parameters** window is open.

( **Actions** > **Ports** > **Generate/Delete...** > **Assign Parameter** in the **Generate/Delete Ports for [ISDN/ X.25 data communication/Leased Line]** window)

Double-click a parameter in the left list box.

The associated parameter values appear in the **Parameter Details** group box. They are presented either in a list box, check box or text box depending on the parameter.

Select a parameter value from the **Parameter Details** group box.

Click **OK** to assign the parameter to the ports selected in the **Generate/Delete Ports for [ISDN/ X.25 data communication/Leased Line]** window.

- Rules are checked and a message appears if the rules are violated.
- The **Service Parameter** window closes.

### 3.12.2 Processing Purchase Orders

When writing purchase orders, the following options are available:

#### 3.12.2.1 Changing and Deleting Purchase Order Items

Resources can be ordered in the following markets:

- Calling Card
- GSM
- ISDN
- X.25

Prerequisites

The **Purchase Order** window is open with the **Item Characteristics** tab in focus. The table contains an entry. One of the above markets has to be selected.

(**Actions** > **Ports** or **Directory Numbers** > **Purchase Order**)

Select the table row with the item you want to change or delete.

Do you want to change a purchase order item or delete it?

Change it.

Go to **step 3 to 5**.

Delete it.

Select **Delete Actual Order Item** from the **Item** menu. Then click **OK** in the message to confirm the deletion. Then go to **step 6**.

Enter or select the data you want to change in the appropriate text and list boxes.

Select **Change Actual Order Item** from the **Item** menu.

The message **Change Actual Purchase Order Item** opens.

Click **Yes** to save your changes.

Click the **Save** icon to save your changes.

Click the **Close** icon to close the window.

### 3.12.2.2 Changing the Delivery Address of a Purchase Order

When you open a new purchase order, a default delivery address is displayed. You can change the address for this specific purchase order.

The delivery address can be changed only if the purchase order is not yet saved.

Resources can be ordered in the following markets:

- Calling Card
- GSM
- ISDN
- X.25

Prerequisites

The **Purchase Order** window is open with the **Header** tab in focus. The **Delivery Address** text box contains the default address. One of the above markets has to be selected.

(**Actions** > **Ports** or **Directory Numbers** > **Purchase Order**)

Select **Delivery Address** from the **Entry** menu.

The **Delivery Address** window opens. It shows the address data valid for the current purchase order.

Change the address data.

Click **OK** to close the **Delivery Address** window.

In the **Delivery Address** text box in the **Purchase Order** window, the new address data is displayed.

### 3.12.2.3 Adding Remarks to a Purchase Order or a Purchase Order Item

You can attach a remark to the header data of the whole purchase order or to a single purchase order item.

You can enter remarks either after having saved a purchase order or purchase order item or after having checked the received resources.

Resources can be ordered in the following markets:

- Calling Card
- GSM
- ISDN
- X.25

Prerequisites

- The **Purchase Order** window is open.  
(**Actions** > **Ports** or **Directory Numbers** > **Purchase Order**) or
- The **Purchase Order Receipt** window is open.  
(**Actions** > **Ports** or **Directory Numbers** > **Purchase Order Receipt**)

Do you want to enter a remark for a purchase order or a purchase order item?

For a purchase order.

Select **PO Header** from the **Remarks** menu.

The **Remarks** window opens.

For a purchase order item.

Select a row in the table and select **PO Item** from the **Remarks** menu.

The **Remarks** window opens.

If you want to enter a new remark, click the **New** icon.

The **Remark** text box and the combo box are cleared.

Enter a subject line for the remark in the **Remark** text box or change it.

You can type up to 20 characters.

Enter or change the actual remark in the text box below.

You can enter up to 255 characters. If your remark is longer, you need to set up a second remark. To do this, click the **New** icon.

To scroll between different remarks, use the arrow icons on the toolbar.

You can select an area; for example, packing slip or invoice, to which the remark refers from the **Select for** group box.

Click the **Save** icon to save the remark and then the **Close** icon to close the window.

### 3.12.2.4 Checking Resources Received

To ensure that the resources delivered are those you have ordered, you can search for a purchase order and check every purchase order item (batch). If any discrepancies are found, these are displayed, and you can decide whether to accept the batch in spite of the discrepancies, or to reject it. If all batches are correct, or if you accepted all the batches with discrepancies, the status of the purchase order is changed from **open** to **closed** and you produce a purchase order receipt for it.

If your system supports PPC output files (refer to [RA\\_MPDSCTAB](#)), you can process the PPC output files supplied by the resource vendor or issuer and check if the data of the delivered resources are correct.

To perform the check, the PPC output file must be located in the directory configured in the `VENDOR_DIRECTORY` database table.

Select one of the following markets from the **Market** list box:

- Calling Card (you can order ports)
- GSM (you can order storage media)
- ISDN (you can order directory numbers)
- X.25 (you can order directory numbers)

Select **Actions** > **Directory Numbers** or **Ports** > **Purchase Order Receipt**.

The **Purchase Order Receipt for [market]** window opens.

To search for the purchase order you want to check, click the **New** icon.

The **Purchase Order Search** window opens.

In the **Purchase Order Search** window, perform your search and click **OK**.

For more information about how to search, refer to [Searching for Purchase Orders and Purchase Order Receipts](#).

From the table, select the purchase order item you want to check.

Click the **Check** icon to perform the validity checks on the purchase order item.

RA performs its check routine, depending on whether PPC support is configured in the database.

Scenario	Result of Validation	RA Action
PPC is supported.	The resources delivered match the resources ordered in every respect.	Validation is successful. Go to <b>step 8</b> .
RA opens the appropriate PPC output file (configured in <code>VENDOR_DIRECTORY</code> ) to perform the validation.	RA detects discrepancies between the resources ordered and the resources delivered.	The <b>Check Purchase Order Item Result</b> opens. Go to <b>step 7</b> .

Scenario	Result of Validation	RA Action
PPC is not supported.	—	No validation is performed. RA assumes that the delivered items are correct. Go to <b>step 8</b> .

In the **Check Purchase Order Item Result** window, you can accept or reject the purchase order item.

Your choice, together with the type of discrepancy detected (**Invalid**, **Not matching**, **Not delivered** or **Not purchased**) determines whether the resources are inserted or updated in the database. Refer to [Tasks Performed in Resource Administration](#) in the Resources concept for more information about what these discrepancies mean and what the results of your user action will be.

Decide what you want to do.

Accept the purchase order item.

Click **Accept**.

Reject the purchase order item.

Click **Cancel**.

The **Check Purchase Order Item Result** window closes.

In the **Purchase Order Receipt** window, click the **Save** icon.

The result depends on the scenario:

Scenario	Result
The validation was in step 6 was successful and step 7 was skipped.	RA inserts or updates all the resources in batch to <b>free</b> status.
No validation was performed because PPC support is not configured.	
Discrepancies were detected and you had to make a choice in the <b>Check Purchase Order Item Result</b> window	Depending on the type of discrepancy and your choice in the previous step, the resources are updated or inserted into the database, or no updates are performed. Refer to <a href="#">Tasks Performed in Resource Administration</a> for more information.

If your database is configured accordingly (refer to [RA\\_MPDSC TAB](#)), an AuC command file is created.

Repeat the procedure from step 5 until you have checked all purchase order items.

If all batches were correct, or if you accepted all the ones with discrepancies, a purchase order receipt is produced and the purchase order status is set to **closed**.

If there is at least one batch in which discrepancies were detected and you selected **Cancel** in the **Check Purchase Order Item Result** window, the purchase order remains in **open** status.

If the purchase order is still open due to faulty batches that you did not accept, proceed as follows:

- Ask the vendor to send the PPC output file.
- Save the file in the configured directory.
- Repeat the procedure for the batch you want to check again.

Make sure that the resources that are in **failed** status in the database are not physically distributed to your sales partners. This means, for example, that you have to open the box containing the batch and remove the SIM cards before sending the box to your sales partner.

Next Step

The next task depends on whether AuC support is configured in the database (refer to [RA\\_MPDSC TAB](#)).

Scenario	Next Task
AuC support is configured.	<p>The ports have to be checked at the authentication center.</p> <p>Send the AuC command file to the authentication center. The AuC command file is located in the directory configured in the <a href="#">AUC_DIRECTORY</a> database table.</p> <p>After receiving the AuC response file with the outcome of the check, save it in the directory specified in <a href="#">AUC_DIRECTORY.AD_RSP</a>.</p> <p>Release the resources. Refer to <a href="#">Releasing GSM Ports at an Authentication Center</a>.</p>
AuC support is not configured.	<p>Allocate the resources to a sales partner. Refer to <a href="#">Assigning Resources to Sales Partners</a>.</p>

### 3.12.3 Searching for Objects

You can search for the following objects:

#### 3.12.3.1 Searching for Purchase Orders and Purchase Order Receipts

The wildcard character \* can be used to truncate search criteria.

Prerequisites

- You selected the market required.
- You are in the **Purchase Order Receipt** window.

(**Actions** > **Directory Numbers** or **Ports** > **Purchase Order Receipt**)

Do you want to search for a purchase order or for a purchase order receipt?

For a purchase order.

Click the **New** icon and go to **step 2**.

The **Purchase Order Search** window opens.

For a purchase order receipt.

Click the **Open** icon and go to **step 9**.

The **Purchase Order Receipt Search** window opens.

You can determine the way in which the search results are sorted. To do this, select the appropriate radio button in the **Sort according to** group box.

Enter the purchase order number in the **PO Number** text box. If you want to retrieve all purchase order numbers, leave the text box blank.

Enter the name of the user who submitted the purchase order. If you want to retrieve the purchase orders of all users, leave the text box blank.

If you want to search for purchase orders in the open status, select the **Open** check box.

Click **Search** to search for the purchase orders according to the criteria you set.

The window toggles to the display mode and shows the purchase orders found. If the search result includes too many purchase orders, they cannot be displayed. In this case, specify more detailed search criteria.

Have you found the purchase order you were looking for?

Yes.

Click **OK** to transfer it to the **Purchase Order Receipt** window.

The **Purchase Order Search** window closes.

No.

Click **Criteria**, change the search criteria and click **Search** again..

Go to **step 4** in [Checking Received Resources](#).

Enter the purchase order receipt number in the **PO Receipt Number** text box. If you want to retrieve all purchase order receipt numbers, leave the text box blank.

Enter the purchase order number in the **PO Number** text box. If you want to retrieve all purchase order numbers, leave the text box blank.

Enter the purchase order item number in the **PO Number** text box. If you want to retrieve all purchase order item numbers, leave the text box blank.



Enter the batch number in the **Batch** text box. If you want to retrieve all batch numbers, leave the text box blank.

Click **Search** to search for the purchase order receipts according to the criteria you set.

The window toggles to the display mode and shows the purchase order receipts found. If the search result includes too many purchase order receipts, they cannot be displayed. In this case, specify more detailed search criteria.

Have you found the purchase order receipt you were looking for?

Yes.

Click **OK** to transfer it to the **Purchase Order Receipt** window.

The **Purchase Order Search** window closes.

No.

Click **Criteria**, change the search criteria and click **Search** again..

Go to **step 4** in [Checking Received Resources](#).

### 3.12.3.2 Searching for Sales Partners

You can search for the identification code of any type of sales partner (distribution channel, sales agent, dealer, regional distributor, outlet) or service provider when assigning or deassigning resources and when creating reports on resources reserved for a specific sales partner

Sales partners are set up in Customer Center .

In most cases the **Find Dealer/Provider** window opens automatically if invalid data is entered.

If a user is restricted to a specific sales partners in System Administration, the **Find Dealer/Provider** window provides only those specific sales partners.

You define in the MPSCFTAB with CFCODE=11070 if the user shall be restricted to one specific business unit (distinct) or if all business units shall be available for this user (pooled). If a user is restricted to a specific business unit, the **Find Dealer/Provider** window displays only the sales partners assigned to this specific business unit. On the contrary, if there is no restriction, all sales partners of all business units are displayed for the user. Refer to the description of CFCODEs in the [MPDSCFTAB](#) for more information.

Prerequisites

The **Find Dealer/Provider** window is open.

- (**Actions** > **Ports** or **Directory Numbers** > **Distribute...** > **Search** icon)
- (**Reports** > **Ports** or **Directory Numbers** > **Delivery Note...** > **Search** icon)

Determine the type of business partner you are searching for. Are you searching for a sales partner or a service provider?

Sales partner.

Select the **Dealer** radio button in the **Search for** group box.

All sales hierarchy levels are available in the list box. They are all selected by default. To restrict the search to a specific level, select one or several of them.

Service provider.

Select the **Provider** radio button in the **Search for** group box.

To search for a sales partner or provider with a certain status, select one or several of the check boxes in the **Status** group box.

You can search for a specific sales partner or provider by entering either the identification code or part of it in the **Public code** text box. You can truncate the identification code with an asterisk (\*).

You can also enter address data such as the name or the company name.

Every entry can be truncated.

Entering no data in any field retrieves all sales partners or providers from the database. Such a search result can include far too many sales partners or providers to be displayed. In this case, you have to specify more detailed search criteria.

To make your search case-sensitive, select the **Case Sensitive** check box.

To find last names that are spelled differently but sound alike, for example, Read, Reede, Reid or McPherson, MacPherson, select the **Matchcode** check box.

With this search mode, you cannot enter an asterisk (\*) in the **Lastname** text box.

Click **Search**.

All sales partners or providers who match the search criteria are displayed in the table. To sort the data in ascending or descending order, click the column header.

Have you found the sales partner or provider you were looking for?

Yes.

Select the identification code in the table and click **OK**. This transfers the identification code to the window from which you started the search.

The **Find Dealer/Provide** window closes.

No.

Click **Criteria**, change the search criteria and click **Search** again.

Then select the identification code in the table and click **OK** to transfer the identification code to the window from which you started the search.

### 3.12.4 Creating Reports

The following reports can be produced:

- delivery notes  
For all resources assigned to a sales partner.
- status reports  
For all free, reserved, active and deactive resources in the system. A status report can be generated for all resources assigned to a specific sales partner.
- purchase order items  
If PPC input files are supported, a report is available for every PO item, identified by a batch number (which is also the number of the corresponding PPC input file).
- directory numbers with expired pre-periods  
For all directory numbers reserved for customers whose contracts have not yet been activated.
- protocol files  
For each checked purchase order item.
- check files  
After checking resources with an external vendor, a check file can be printed or viewed for each purchase order item.
- AuC command file  
After checking resources by means of an authentication center (GSM market), an AuC command file can be printed or viewed for each purchase order item.

#### 3.12.4.1 Creating a Report about Resource Statuses

Select a market from the **Market** list box.

Select **Reports > Ports** or **Directory Numbers** or **Closed User Groups > Status....**

The market- and resource-specific **Status Report for [resource type] of [market]** window opens.

You can enter a name for the report in the **Report Title** text box.

The name you enter appears as a subtitle on the report.

Select the combination of numbering plan and directory number type with which the resources are associated from the list provided in **Numbering plan**.

To create a status report about private APNs and private PDPs, select a Virtual Private Network from the **VPN** list box.

The list box is available only for the GSM market and if the numbering plan supports the data format required by APNs and PDPs.

Select a network from the **Network** list box.

About which status do you want to create a report?

Free resources.

Select the **free** radio button and go to **step 10**.

Reserved resources.

Select the **reserved** radio button and go to **step 8**.

The **Overview Of All Dealer / Provider** and the **Select One Dealer / Provider** radio buttons are available.

Do you want to list the reserved resources of all sales partners and service providers or of a particular sales partner or service provider?

List all sales partners and service providers.

Select the **Overview Of All Dealer/Provider** radio button.

The report includes both reserved and active resources.

List the resources of a particular sales partner or service provider

Select the **Select One Dealer/Provider** radio button.

The report includes reserved, active and deactive resources. The **Find Dealer/Provider** window opens, in which you can search for the sales partner or service provider you require. For more information refer to [Searching for Sales Partners](#).

When you have clicked **OK** in the **Find Dealer/Provider** window, the **Dealer/Provider** text box shows the identification code.

Do you want to view the report or print it?

View it.

Click the **View** icon.

Print it.

Click the **Print** icon.

To close the window, click **Close**.

#### 3.12.4.2 Creating a Delivery Note for Resources Assigned

You can print a delivery note for resources that have been assigned to a sales partner or service provider.

Select a market from the **Market** list box.

Select **Reports > Ports** or **Directory Numbers** or **Closed User Groups > Delivery Note....**

The market- and resource-specific **Print Delivery Note for [resource type] of [market]** window opens.

Select the combination of numbering plan and directory number type with which the resources are associated from the list provided in **Numbering plan**.

Select a network from the **Network** list box.

To create a delivery note on private APNs and private PDPs, select a Virtual Private Network from the **VPN** list box.

The list box is available only for the GSM market and if the numbering plan supports the data format required by APNs and PDPs.

Enter the identification code of the sales partner or service provider to whom the resource has been assigned in the **Dealer/Provider** text box.

If you do not know the identification code, click the **Search** icon to open the **Find Dealer/Provider** window. Various search criteria are available to help you find the required sales partner. For more information refer to [Searching for Sales Partners](#).

Enter the date on which you assigned the resources to the sales partner or service provider in the **Delivery Date** text box.

Do you want to view the delivery note or print it?

View it.

Click the **View** icon.

Print it.

Click the **Print** icon.

To close the window, click **Close**.

### 3.12.4.3 Creating a Report on Directory Numbers with Expired Pre-periods

Directory numbers are attributed a pre-period, which refers to the number of days the resources are reserved for a customer whose contract has not yet been activated.

This kind of report is available for the following markets:

- AMPs
- GSM
- ISDN

Select a market from the **Market** list box.

Select **Actions** > **Directory Numbers** > **Pre-Period Expired**.

The **Directory Numbers with expired Pre-Periods** window opens.

You can enter a name for the report in the **Report Title** text box.

The name you entered appears as a subtitle on the report.

Select the combination of numbering plan and directory number type with which the directory numbers are associated from the list provided in **Numbering plan**.

Select the network in which the directory numbers are used.

Select the National Destination Code for the directory numbers from the **NDC** list box.

Select the physical home location register from the **HLR** list box.

This list box is not available if only one HLR is configured in the database.

Select the logical HLR from the **Range** list box.

Logical HLRs are subsets of the physical HLR. They are available only if the selected physical HLR comprises more than one logical HLR.

Enter the area code without the National Access Code prefix **0** in the **Constant Part** text box if it is available.

**Example:** For Frankfurt, enter 69 instead of 069.

The area code is checked for validity. If it is valid, the **Zone Destination** text box shows the destination.

You can enter the number of days since the preperiod of directory numbers has expired in the **Days overdue** text box.

Do you want to view the report or print it?

View it.

Click the **View** icon.

Print it.

Click the **Print** icon.

To close the window, click **Close**.

#### **3.12.4.4 Printing or Viewing a Purchase Order Item**

When a new purchase order for SIM cards, Calling Cards or ISDN directory numbers has been created, the corresponding PPC input files are sent to the Personalization Center. You can view and print those purchase orders.

Prerequisites

PPC file handling is supported.

Select a market from the **Market** list box.

Select **Reports > Purchase Order Item**.

The **Print Purchase Order Item** window opens.

Enter the number of the PPC file you want to view or print in the **Batch** text box.

Do you want to view the report or print it?

View it.

Click the **View** icon.

Print it.

Click the **Print** icon.

To close the window, click **Close**.

#### **3.12.4.5 Creating a Protocol File for Checked Order Items**

When checking received or ordered resources, a protocol file is created for every purchase order item in which an error is detected.

You can view and print these files. A protocol file lists the following types of resources:

- resources delivered
- resources purchased

The following file types are available:

- Protocol Files (PRO):  
A protocol file is produced whenever the delivery checked does not correspond to the purchase order. The file names are [PPC file name].PRO and are saved in the directory for PPC error files.
- AuC Command (CMD):  
In the GSM market an AuC command file is produced. The file contains the resources for the Authentication Center. The file names are [PPC file name].CMD and are saved in the directory for AuC output files.

Prerequisites

PPC file and protocol file handling is configured in the database.

Select a market from the **Market** list box.

Select **Reports > Protocol File PRO**.

The **Open PO Item Check-Protocol** window and the **File Report** window appear.

Navigate to the directory containing the protocol file for purchase order items and select the file from the list box in the **Open PO Item Check-Protocol** window.

Click **Open** to transfer the path of the selected \*.PRO file to the **File Report** window.

- The **Open PO Item Check-Protocol** window closes.
- The path of the selected \*.PRO file appears in the **Filename** text box in the **File Report** window.

You can enter a name for the report in the **Report Title** text box.

The report name appears as a subtitle in the report.

To select another \*.PRO file, click **File**.

The **Open PO Item Check-Protocol** window opens again, in which you can select another \*.PRO file and transfer it to the **File Report** window by clicking **OK**.

Do you want to view the report about the screen or print it out?

View it.

Click **View**.

The content of the \*.PRO file is shown as it will look when printed.

Print it out.



Click **Print**.

The report selected is printed.

Click **Cancel** to close the **File Report** window and the **Open PO Item Check-Protocol** window.

#### 3.12.4.6 Creating a AuC Command File for Checked Order Items

When resources received or ordered in the GSM market are checked by an authentication center, an AuC command file is produced for every purchase order item in which an error is detected.

Prerequisites

- The handling of AuC response files is configured in the database.
- The library file which processes the AuC files is adjusted to the customer-specific AuC file format.

Select **GSM** from the **Market** list box.

Select **Reports > Ports > View and Print File > AuC Command File CMD**.

The **Open AuC Command File** and the **File Report** windows appear.

Navigate to the directory containing the protocol file for purchase order items and select the file from the list box in the **Open AuC Command File** window.

Click **Open** to transfer the path of the selected \*.CMD file to the **File Report** window.

- The **Open AuC Command File** window closes.
- The path of the selected \*.CMD file appears in the **Filename** text box in the **File Report** window.

You can enter a name for the report in the **Report Title** text box.

The report name appears as a subtitle in the report.

To select another \*.CMD file, click **File**.

The **Open AuC Command File** window opens again, in which you can select another \*.PRO file and transfer it to the **File Report** window by clicking **OK**.

Do you want to view the report about the screen or print it out?

View it.

Click **View**.

The content of the \*.CMD file is shown as it will look when printed.

Print it out.

Click **Print**.

The report selected is printed.

Click **Cancel** to close the **File Report** window and the **Open AuC Command File** window.

## 4. RA Window Descriptions

### 4.1 Assign CGI Ranges to BID

You can view CGI ranges, which are not assigned to the BID in the parent window.

Item	Description
BID	Displays the Billing Identifier (BID) of the parent window.
BID Description	Displays the area name of the BID.
CGI End	Displays the last CGI in a range of CGIs assigned to an HPMN.
CGI Start	Displays the first CGI in a range of CGIs assigned to an HPMN.
CGI Start Date	Displays the date on which the assignment of the CGI range to the HPMN goes into effect.
Cancel	Cancels the process and returns you to the parent window.
City	Displays the name of the city for this CGI range.
Country	Displays the ISO country code for this CGI range.
County	Displays the name of the county for this CGI range.
Network	Displays the PMN associated with the BID.
OK	Closes the window and returns you to the parent window.
Province/ State	Displays the state abbreviation for this CGI range.
Time Zone Description	Displays the time zone for this CGI range.

### 4.2 Billing Identifier

You can view BID details of your system. The following types of BIDs exist:

- Billing Identifier (BID)
- System Identifier (SID)

- Clearing House

If the BID type is **Clearing House** there are no entries for **Network Description**, **Parent SID** and **Group Name**.

The items described here also apply to the following window:

- **CIBER Batch Sequence**

Item	Shortcut	Description
BID		Displays the Billing Identifier (BID).
BID Description		Displays the area name of the BID.
BID Type		Displays the type of BID:  BID  SID  Clearing House
Close	F3	Closes the window and returns you to the parent window.
Exit		Closes the application.
Group Name		Displays the group to which the BID or SID belongs.
Network Description		Displays the name of the associated PMN.
Open		Opens the <a href="#">Edit Billing Identifier</a> window.
Parent SID		Displays the parent SID of the BID.
Print Window	CTRL+P	Prints the data area of the window.
Printer Settings		Opens the <b>Printing parameters</b> window, in which you can adjust the printer settings.
Save	CTRL+S	Saves your entries.

## 4.3 Billing Identifier Group

You can view the BID groups in your system.

The items described here also apply to the following window:

- **Roaming Agreement Group**





Item	Shortcut	Description
Close	F3	Closes the window and returns you to the parent window.
Description		The name of a BID group.
Exit		Closes the application.
Network		The name of the PMN.
Open	CTRL+O	Opens the <a href="#">Edit Billing Identifier Group</a> window in which you can change the contents of the table.
Print Window	CTRL+P	Prints the data area of the window.
Printer Setup		Opens the <a href="#">Printing parameters</a> window, in which you can adjust the printer settings.
Save	CTRL+S	Saves your entries.


## 4.4 Block Number Splitting for ISDN market

The items described here also apply to the [Block Number Splitting for Intelligent Network Services](#) window.

Directory number blocks are groups of directory numbers for which extensions are specified.

For more information refer to [Defining Extensions for IN Directory Number Blocks](#).

Item	Shortcut	Description
	CTRL+N	Opens the <a href="#">Edit Block Number Splitting for ISDN market</a> or the <a href="#">Edit Block Number Splitting for Intelligent Network Services</a> window, in which you can create a new directory number block.
	CTRL+O	Opens the <a href="#">Edit Block Number Splitting for ISDN market</a> or the <a href="#">Edit Block Number Splitting for Intelligent Network Services</a> window, in which you can modify the directory number block selected in the table.
	CTRL+P	Prints the data area of the window.
	F5	Updates the data displayed in the window.  Enter a valid directory number in the <a href="#">Directory Number</a> text box before clicking <a href="#">Refresh</a> .

Item	Shortcut	Description
	CTRL+S	Saves your entries.
Block Number from		The first directory number extension.
Block Number up to		The last directory number extension.
Block Size		The amount of directory number extensions in the directory number block.
Close	F3	Closes the window and returns you to the parent window.
Delete	CTRL+D	Deletes the selected range of directory number blocks.
Directory Number		The directory number block in full length, but without the Country Code (CC) and the National Access Code (NAC) prefix <b>0</b>
Exit		Closes the application.
Network		The network in which the directory number is used. To display its extension ranges, click the <b>Refresh</b> icon.
Numbering plan		The numbering plan and the directory number type assigned to the directory number.
Printer Settings		Opens the <b>Printing parameters</b> window, in which you can adjust the printer settings.
Status		The status of the directory number block.

## 4.5 CGI Assignment to BIDs

You can search for a BID and view the Cell Global Identity CGI assignment to this BID in a table.

Item	Shortcut	Description
Add CGI Ranges		Opens the <b>Assign CGI Ranges to BID</b> window. A confirmation message is displayed if the data has not been saved.
BID		The BID you are searching for. The BID description is displayed in the text box if there is an entry in the table.

Item	Shortcut	Description
CGI End		Displays the last CGI in a range of CGIs assigned to an HPMN.
CGI Start		Displays the first CGI in a range of CGIs assigned to an HPMN.
CGI Start Date		Displays the date on which the assignment of the CGI range to the HPMN goes into effect.
City		Displays the name of the city for this CGI range.
Close	F3	Closes the window and returns you to the parent window.
Country		Displays the ISO country code for this CGI range.
County		Displays the name of the county for this CGI range.
Delete		Deletes the rows in your table, which are marked with an X. A confirmation message is displayed.
Exit		Closes the application.
Network		Displays the PMN associated with the BID if there is an entry in the table.
Open	CTRL+O	Opens the <b>Assign CGI Ranges to BID</b> window in which you can select the entries for the table. A confirmation message is displayed if the data has not been saved.
Print Window	CTRL+P	Prints the data area of the window.
Printer Setup		Opens the <b>Printing parameters</b> window, in which you can adjust the printer settings.
Province / State		Displays the province or state abbreviation for this CGI range.
Refresh		Updates the data displayed in the window.
Save	CTRL+S	Saves your entries.
Search		Starts the search according to the criteria you entered.
Time Zone Description		Displays the time zone for this CGI range.

## 4.6 Change Resource Status

Deactivated resources, such as ports, directory numbers and storage media, can be reset or released. A resource can be deactivated to prevent misuse if, for example, a SIM card is lost or stolen.

- Resetting a resource changes its status to 'free'.
- Releasing a resource changes the status to 'reserved'. It is then automatically reassigned to the sales partner or service provider to whom it was previously assigned.

Item	Description
Clear	Deletes the contents of all input elements in the window.
Close	Closes the window and returns you to the parent window.
Free	Sets the status of the resource to 'free'.  The link to the business unit is removed if the system is deployed in multicompany environment.
Network	The network in which the resource is used.
Numbering plan	The numbering plan and the directory number type assigned to the resource.
Reserve	Sets the status of the resource to reserved and assigns it to the sales partner or service provider to whom it was previously assigned.
Resource-Number	The number of the resource to be reset or released.
Resource-Type	The resource type.
VPN	In the case of a GSM directory number, the VPN, in which the directory number is used.

## 4.7 Check Purchase Order Item Result

RA analyzes the PPC output file when the check of the purchase order items (batches) is triggered in the **Purchase Order Receipt for <market>** window. The PPC output file is sent by the vendor.

To perform the check, RA compares the PPC output file with the corresponding order data in the database. If any discrepancies are found between the resources ordered and the resources delivered, this window opens.

Item	Shortcut	Description
Accept		Accepts the batch. The type of error determines how the resources are handled now:  If the error is <b>Not purchased</b> (the delivered resource has not been ordered), the resource is inserted in the database and gets the status <b>free</b> .

Item	Shortcut	Description
		<p>If the error is <b>Not delivered</b>, the resource is inserted in the database and gets the status <b>failed</b>.</p> <p>If the error is <b>Not matching</b>, the resource is not inserted in the database and gets the status <b>failed</b>.</p> <p>If the error is <b>Duplicate / Invalid</b> (the combination of storage medium and port is not valid), the resource is not inserted in the database and gets the status <b>failed</b>.</p> <p>These actions are carried out after you have clicked the <b>Save</b> icon in the <b>Purchase Order Receipt for &lt;market&gt;</b> window.</p>
Cancel		<p>Stops the purchase order receipt for the selected batch. This means, the resources of the selected batch are not inserted in the database and their status is not changed. The purchase order item remains in the status <b>open</b>.</p> <p>You have to click the <b>Save</b> icon in the <b>Purchase Order Receipt for &lt;market&gt;</b> window to finish the check process.</p> <p>Now you can request a new PPC output file with corrected resources from the vendor.</p> <p>As long as the purchase order item receipt is <b>open</b>, you can delete the purchase order item in the <b>Purchase Order for &lt;market&gt;</b> window.</p>
Close	F3	Closes the window and returns you to the parent window.
Delivered		<p>A string of output parameters assigned to the delivered resources. Thus any discrepancies between the <b>Purchased</b> parameters and the <b>Delivered</b> parameters can be compared easily.</p> <p>This item is available for the GSM market only.</p>
Delivered Card No.		<p>The card numbers delivered.</p> <p>This item is available for the Calling Card market only.</p>
Delivered IMSI		<p>The IMSI numbers delivered.</p> <p>This item is available for the GSM market only.</p>
Delivered ISDN		<p>The ISDN numbers delivered.</p> <p>This item is available for the ISDN market only.</p>
Delivered NUA		<p>The NUA numbers delivered.</p> <p>This item is available for the X.25 market only.</p>



Item	Shortcut	Description
Delivered Serial No.		<p>The serial numbers delivered.</p> <p>This item is available for the Calling Card market only. To support multiple networks, the serial number includes network-specific information.</p>
Exit		Closes the application.
Invalid		<p>A resource marked as invalid is already in the database.</p> <p>If you click <b>Accept</b>, such resources are not saved in the database.</p>
Not delivered		<p>A resource has been ordered but not delivered.</p> <p>If you click <b>Accept</b>, the status of these resources is updated to <b>failed (I)</b>.</p>
Not matching		<p>The delivered storage medium does not match the delivered port and so is completely unusable.</p> <p>If you click <b>Accept</b>, such resources are not saved in the database.</p>
Not purchased		<p>A resource has been delivered but not purchased.</p> <p>If you click <b>Accept</b>, such resources are saved in the database with the status <b>free (f)</b>, just like resources that passed the validation check (delivered as per purchase order).</p>
Print Window	CTRL+P	Prints the data area of the window.
Printer Setup		Opens the <b>Printing parameters</b> window, in which you can adjust the printer settings.
Purchased		<p>A string of output parameters corresponding to the ones selected on the <b>Purchase Order Item Characteristics</b> tab in the <b>Purchase Order for GSM</b> window. Thus any discrepancies between the <b>Purchased</b> parameters and the <b>Delivered</b> parameters can be compared easily.</p> <p>This item is available for the GSM market only.</p>
Purchased Card No.		<p>The card numbers purchased.</p> <p>This item is available for the Calling Card market only. To support multiple networks, the serial number includes network-specific information.</p>
Purchased IMSI		<p>The IMSI numbers purchased.</p> <p>This item is available for the GSM market only.</p>
Purchased		The ISDN numbers purchased.

Item	Shortcut	Description
ISDN		This item is available for the ISDN market only.
Purchased NUA		The NUA numbers purchased. This item is available for the X.25 market only.
Purchased Serial No.		The serial numbers purchased. This item is available for the Calling Card market only. To support multiple networks, the serial number includes network-specific information.

## 4.8 Delivery Address

You can change the address to which the resources ordered are delivered.

This window is available only if you enter a new purchase order on the **Header** tab in the **Purchase Order for <market>** window.

Item	Description
Address	The street and number.
Cancel	Cancels the process and returns you to the parent window.
Country	The name of the country.
Name	The name of the recipient.
OK	Saves your entries, closes the window and returns you to the parent window.
Zip/City	The postal code and the name of the city of residence.




## 4.9 Directory Numbers with expired Pre-Periods

A report can be created for directory numbers whose preperiod has expired. Preperiods refer to the number of days a directory number is reserved for a customer while his or her contract is not activated.

Preperiods are assigned to contracts that are on hold in Reference Data (RD). Daily Job (DLY) resets the reserved directory numbers to free when the preperiod has passed and the contract is still not active.

The report lists the directory numbers that were set from on hold to expired.

You can enter criteria to display the directory numbers that are used in a specific network only, that are registered at a specific HLR, and so on. If you do not specify criteria, all directory numbers whose preperiod has expired are displayed.

Item	Shortcut	Description
		Prints the report.
	CTRL+P	Prints the data area of the window.
		Displays the report in the <b>Report Preview</b> window.
Clear		Deletes the contents of all input elements in the window.
Clear	DEL	Deletes the contents of the text box in which the cursor is positioned.
Close	F3	Closes the window and returns you to the parent window.
Constant Part		<p>The location area code (LAC) of the directory numbers without the national access code (NAC) prefix 0.</p> <p>RA performs a validation check. If the check is successful, the name of the corresponding zone destination is displayed in the <b>Zone Destination</b> text box.</p>
Copy	CTRL+C	Copies the selected object to the clipboard.
Cut	CTRL+X	Removes the selected object and places it on the clipboard.
Date	CTRL+D	Enters the system date in the text box where the cursor is positioned.
Days over due		The number of days since the preperiod has expired.
Exit		Closes the application.
HLR		<p>The home location register (HLR) at which the directory numbers are registered.</p> <p>The list box is not available if only one home location register is specified in the database.</p>
Log HLR		<p>The logical home location register (HLR) at which the directory numbers are registered. The logical HLR is a subset of the HLR.</p> <p>The list box is not available if only one logical HLR is specified in the database.</p>
NDC		The national destination code (NDC) code of the directory numbers.
Network		The network in which the directory numbers are used.
Numbering plan		The numbering plan and the directory number type assigned to the directory

Item	Shortcut	Description
		numbers.
Paste	CTRL+V	Inserts the contents of the clipboard at the insertion point.
Printer Settings		Opens the <b>Printing parameters</b> window, in which you can adjust the printer settings.
Register		The home location register (HLR) at which the ISDN directory numbers are registered.  The list box is not available if only one home location register is specified in the database.
Report Title		This title is displayed as a subtitle on the report, provided that at least one matching item is found.
Undo	CTRL+Z	Reverses the last command or deletes the last entry you made.
Vanity Number Converter	CTRL+G	Opens the <a href="#">Vanity Number Converter</a> window, in which you can convert a vanity number into the corresponding phone number.
Zone Destination		The name of the zone destination related to the constant part.




## 4.10 Distribute Closed User Group for GSM





The items described here also apply to the following windows:

- **Distribute Closed User Group for ISDN market**
- **Distribute Closed User Group for X.25 data communication**

Closed user groups (CUG) have to be assigned to a sales partner or service provider otherwise they cannot be assigned to contracts.

You can assign one closed user group (CUG) to a sales partner or service provider or several at once in a batch. The same is possible when removing CUGs from a sales partner or service provider.

Item	Shortcut	Description
	CTRL+A	Assigns the interlock codes specified in the <b>1st Number</b> and <b>Quantity</b> text boxes to the sales partner or service provider selected.
	CTRL+D	Removes the interlock codes specified in the <b>1st Number</b> and <b>Quantity</b> text boxes from the sales partner or service provider selected.
	CTRL+N	Deletes the contents of all input elements in the window.

Item	Shortcut	Description
	CTRL+E	You can assign or remove a new interlock code or a batch of interlock codes to or from the same sales partner or service provider selected.
	CTRL+P	Prints the data area of the window.
	CTRL+S	Saves your entries.  The status of assigned interlock codes is changed to 'reserved' and the status of removed interlock codes to 'free'.
		Opens the <a href="#">Find Dealer / Provider</a> window, in which you can search for and select a sales partner or service provider.
1st Number		<p>The interlock code of the first CUG to be assigned to or removed from the sales partner or service provider selected.</p> <p>In the case of assignment to a sales partner or service provider, RA begins with this interlock code and reserves all following interlock codes in the quantity you specified in the <b>Quantity</b> text box. If it is not possible to reserve all interlock codes in one batch because some of them are already assigned, the batch is split automatically.</p> <p>In the case of removal from a sales partner or service provider, RA begins with this interlock code and removes all following interlock codes in the quantity you specified in the <b>Quantity</b> text box.</p> <p>The code you enter here is only the subscriber-specific part of the interlock code without the prefix. The latter is created automatically on the basis of the network selected, the home location register, the storage medium type, and so on.</p>
Address		The address, to which the bills are sent.
Close	F3	Closes the window and returns you to the parent window.
Dealer/Provider		The code of the sales partner or service provider to whom the CUGs are assigned or from whom they are removed. If you enter an invalid code, the <a href="#">Find Dealer / Provider</a> window, in which you can search for a sales partner or service provider, opens.
Delivery Date		<p>The date on which the interlock codes are reserved for the sales partner or service provider selected.</p> <p>The current system date is displayed after you have clicked <b>Save</b>.</p>
Exit		Closes the application.

Item	Shortcut	Description
From Number		The interlock code of the first CUG that is assigned to or removed from the sales partner or service provider selected.
Printer Settings		Opens the <b>Printing parameters</b> window, in which you can adjust the printer settings.
Quantity		<p>text box: The number of CUGs to be assigned to or removed from the sales partner or service provider selected.</p> <p>table: The number of CUGs that are assigned to or removed from the sales partner or service provider selected.</p>
Total Quantity		The number of interlock codes already assigned to the sales partner or service provider selected.
Up to Number		The interlock code of the last CUG that is assigned to or removed from the sales partner or service provider selected.




## 4.11 Distribute Directory Number for GSM




The items described here also apply to the following windows:


- **Distribute Directory Number for AMPS**
- **Distribute Directory Number for Intelligent Network Services**
- **Distribute Directory Number for ISDN market**
- **Distribute Directory Number for X.25 data communication**

Directory numbers have to be assigned to a specific sales partner or service provider before they can be assigned to a contract. For more information refer to [Assigning Resources to Sales Partners](#).

You can assign one directory number to a sales partner or service provider or several at once in a batch. The same is possible when removing directory numbers from a sales partner or service provider.

Item	Shortcut	Description
	CTRL+A	Assigns the directory numbers you specified in the <b>1st Number</b> and <b>Quantity</b> text boxes to the sales partner or service provider selected.
	CTRL+D	Removes the directory numbers you specified in the <b>1st Number</b> and <b>Quantity</b> text boxes to the sales partner or service provider selected.
	CTRL+N	Deletes the contents of all input elements in the window.

Item	Shortcut	Description
	CTRL+P	Prints the data area of the window.
	CTRL+S	Saves your entries.  The status of allocated directory numbers is changed to 'reserved'.  The status of removed directory numbers is changed to 'free' and the link to the business unit is removed.
		Opens the <b>Find Dealer / Provider</b> window, in which you can search for and select a sales partner or service provider.
1st Number		The first directory number to be assigned to or removed from the sales partner or service provider.  In the case of assignment to a sales partner or service provider, RA begins with this number and reserves all following directory numbers in the quantity you specified in the <b>Quantity</b> text box. If it is not possible to reserve all directory numbers in one batch because some of them are already assigned, the batch is split automatically.  In the case of removal from a sales partner or service provider, RA begins with this number and removes all following directory numbers in the quantity you specified in the <b>Quantity</b> text box.
Address		The address of the sales partner or service provider selected.
Block		An ISDN or Intelligent Network Services directory number block is assigned to or removed from the sales partner or service provider.
Business Unit		All business units available for the selected market.  Resources allocated to a service provider have to be assigned to the service provider's business unit. So, if you specified a service provider in the <b>Dealer/Provider</b> text box, the service provider's business unit is displayed only.  This list box is available only if the system is deployed in a multicompany environment.
Close	F3	Closes the window and returns you to the parent window.
Constant Part		The location area code (LAC) of the directory number or the directory numbers of the batch to be assigned or removed without the national access code (NAC) prefix 0.  RA performs a validation check after you have clicked <b>Add Item to Order</b> . If the check is successful, the name of the appropriate zone destination is

Item	Shortcut	Description
		displayed in the text box next to this one.
Dealer / Provider		<p>The code of the sales partner or service provider to whom the directory numbers are assigned or from whom they are removed.</p> <p>If you enter an invalid code, the <b>Find Dealer / Provider</b> window, in which you can search for a sales partner or service provider, opens.</p>
Delivery Date		<p>The date on which the directory numbers are reserved for the sales partner or service provider.</p> <p>The current system date is displayed after you have clicked <b>Save</b>.</p>
Exit		Closes the application.
HLR		<p>The name of the home location register (HLR) at which the AMPS and GSM directory numbers are registered.</p> <p>The list box is not available if only one home location register is specified in the database.</p>
INR		<p>The name of the home location register (HLR) at which the Intelligent Network Register directory numbers are registered.</p> <p>The list box is not available if only one home location register is specified in the database.</p>
Log HLR		<p>The logical home location register (HLR) at which the directory numbers are registered. The logical HLR is a subset of the HLR.</p> <p>The list box is not available if only one logical HLR is specified in the database.</p>
Max. Extension Length		The length of the variable part of the directory number. It is not restricted as long as the lower and upper limits are equal.
NDC		The national destination code (NDC) of the directory numbers.
Network		The network in which the directory numbers are used.
New Order Item	 CTRL+E	You can assign or remove a new directory number or a new batch of directory numbers to or from the same sales partner or service provider selected.
Numbering plan		<p>The numbering plan and the directory number type assigned to the directory numbers.</p> <p>In the GSM market, different types of numbering plans are available</p>



Item	Shortcut	Description
		for MSISDNs, APNs and PDP addresses, which are all considered to be directory numbers.
Numbers of Type		<p>Directory numbers of that type or those types are assigned to or removed from the sales partner or service provider.</p> <p>You can select one or more types.</p>
Printer Settings		Opens the <b>Printing parameters</b> window, in which you can adjust the printer settings.
Quantity		<p>text box: The amount of directory numbers to be assigned to or removed from the sales partner or service provider.</p> <p>The order limit associated with the sales partner or service provider is automatically displayed.</p> <p>table: The amount of directory numbers that is assigned to or removed from the sales partner or service provider.</p>
REG		The name of the home location register (HLR) at which the X.25 directory numbers are registered.
Range		<p>The logical home location register (HLR) at which the X.25 directory numbers are registered. The logical HLR is a subset of the HLR.</p> <p>The list box is not available if only one logical HLR is specified in the database.</p>
Register		<p>The name of the home location register (HLR) at which the ISDN directory numbers are registered.</p> <p>The list box is not available if only one home location register is specified in the database.</p>
Single		Only one ISDN or Intelligent Network Services directory number is assigned to or removed from the sales partner or service provider.
Total Quantity		<p>The amount of directory numbers that were assigned or removed the last time from or to the sales partner or service provider selected.</p> <p>The quantity is recalculated and updated each time you click <b>Save</b>.</p>
VPN		<p>The virtual private network (VPN) in which the APNs or PDP addresses are used.</p> <p>Available only for the GSM market.</p>
from Number		The first directory number that is assigned to or removed from a sales partner or service provider.

Item	Shortcut	Description
up to		The last directory number that is assigned to or removed from a sales partner or service provider.







## 4.12 Distribute Port for AMPS

The items described here also apply to the following windows:

- **Distribute Port for ISDN market**
- **Distribute Port for Calling Card**
- **Distribute Port for X.25 data communication**

Ports have to be assigned to a specific sales partner or service provider before they can be assigned to a contract. For more information refer to [Assigning Resources to Sales Partners](#).

You can assign one port to a sales partner or service provider or several at once in a batch. The same is possible when removing ports from a sales partner or service provider.

Item	Shortcut	Description
		Opens the <b>Find Dealer / Provider</b> window, in which you can search for and select a sales partner or service provider.
	Shift+CTRL+A	Assigns the ports you specified in the <b>From Number</b> and <b>Up to Number</b> text boxes to the sales partner or service provider selected.
	Shift+CTRL+D	Removes the ports you specified in the <b>From Number</b> and <b>Up to Number</b> text boxes from the sales partner or service provider selected.
	CTRL+N	Deletes the contents of all input elements in the window.
	CTRL+P	Prints the data area of the window.
	CTRL+S	Saves your entries.  The status of allocated ports is changed to 'reserved'.  The status of removed ports is changed to 'free' and the link to the business unit is removed.
1st Number		The first port (without the final check digit) to be assigned to or removed from a sales partner or service provider.  In the case of assignment to a sales partner or service provider, RA begins with this number and reserves all following ports in the quantity you specified in the <b>Quantity</b> text box. If it is not possible to reserve all ports in

Item	Shortcut	Description
		<p>one batch because some of them are already assigned, the batch is split automatically.</p> <p>In the case of removal from a sales partner or service provider, RA begins with this number and removes all following ports in the quantity you specified in the <b>Quantity</b> text box.</p>
Address		The address to which the bill is sent.
All	Alt+L	Selects all rows in the table.
Batch		<p>The batch with which the preactivated prepaid resources have been inserted into the system. Batches are identified by the name of the import file.</p> <p>This information can be used to narrow down the available resources to be allocated to a sales partner.</p>
Batch No.		<p>The batch number. Several ports can be assigned or removed at once. They are grouped in batches.</p> <p>Only available for the AMPS market.</p>
Business Unit		<p>All business units available for the selected market.</p> <p>Resources allocated to a service provider have to be assigned to the service provider's business unit. So, if you specified a service provider in the <b>Dealer/Provider</b> text box, the service provider's business unit is displayed only.</p> <p>This list box is available only if the system is deployed in a multicompany environment.</p>
Clear	DEL	Deletes the contents of the text box in which the cursor is positioned.
Close	F3	Closes the window and returns you to the parent window.
Copy	CTRL+C	Copies the selected object to the clipboard.
Cut	CTRL+X	Removes the selected object and places it on the clipboard.
Dealer / Provider		<p>The code of the sales partner or service provider to whom the ports are assigned or from whom they are removed.</p> <p>If you enter an invalid code, the <b>Find Dealer / Provider</b> window opens.</p>
Delivery Date		The date on which the ports are reserved for a specific sales partner or service provider.

Item	Shortcut	Description
		The current system date is displayed after you have clicked <b>Save</b> .
Exit		Closes the application.
From Number		The first port that is assigned to or removed from the sales partner or service provider selected.
HLR		<p>The home location register (HLR) in the AMPS market at which the ports are registered.</p> <p>The list box is not available if only one home location register is specified in the database.</p>
Network		The network in which the ports are used.
None	Alt+O	Deselects all rows in the table.
Numbering plan		The numbering plan assigned to the ports.
Paste	CTRL+V	Inserts the contents of the clipboard at the insertion point.
Prepaid Profile		<p>The profile used for the pre-activated prepaid storage media.</p> <p>This list box is filled according to your selection in the <b>Network</b>, <b>HLR</b> and <b>Business Unit</b> list boxes.</p>
Printer Settings		Opens the <b>Printing parameters</b> window, in which you can adjust the printer settings.
Quantity		The number of ports to be assigned to or removed from the sales partner or service provider selected.
REG		<p>The home location register (HLR) in the Leased Line and X.25 markets at which the ports are registered.</p> <p>The list box is not available if only one home location register is specified in the database.</p>
Register		<p>The home location register (HLR) in the ISDN market at which the ports are registered.</p> <p>The list box is not available if only one home location register is specified in the database.</p>
Total Quantity		The number of ports already assigned to the sales partner or service provider selected.

Item	Shortcut	Description
Undo	CTRL+Z	Reverses the last command or deletes the last entry you made.
Up to Number		The last port that is assigned to or removed from the sales partner or service provider selected.
Vanity Number Converter	CTRL+G	Opens the <b>Vanity Number Converter</b> window, in which you can convert a vanity number into the corresponding phone number.







### 4.13 Distribute Storage Medium for GSM

The items described here also apply to the following windows:

- Distribute Storage Medium for Calling Card**

Storage media have to be assigned to a specific sales partner or service provider before they can be assigned to a contract. For more information refer to [Assigning Resources to Sales Partners](#).

You can assign one storage medium to a sales partner or service provider or several at once in a batch. The same is possible when removing storage media from a sales partner or service provider.

Item	Shortcut	Description
		Opens the <b>Find Dealer / Provider</b> window, in which you can search for and select a sales partner or service provider.
	Shift+CTRL+A	Assigns the storage media you specified in the <b>From Number</b> and <b>Up to Number</b> text boxes to a sales partner or a service provider.
	Shift+CTRL+D	Removes the storage media you specified in the <b>From Number</b> and <b>Up to Number</b> text boxes from a sales partner or service provider.
	CTRL+N	Deletes the contents of all input elements in the window.
	CTRL+P	Prints the data area of the window.
	CTRL+S	Saves your entries.  The status of allocated storage media is changed to 'reserved'.  The status of removed storage media to 'free' and the link to the business unit is removed.
1st Number		The first card number (without the final check digit) to be assigned or removed.

Item	Shortcut	Description
		<p>In the case of assignment to a sales partner or service provider, RA begins with this number and reserves all following card numbers in the quantity specified in the <b>Quantity</b> text box. If it is not possible to reserve all card numbers in one batch because some of them are already assigned, the batch is split automatically.</p> <p>In the case of removal from a sales partner or service provider, RA begins with this number and removes all following card numbers in the quantity specified in the <b>Quantity</b> text box.</p>
Address		The address to which the bill is sent.
All	Alt+L	Selects all rows in the table.
Batch		<p>The batch with which the preactivated prepaid resources have been inserted into the system. Batches are identified by the name of the import file.</p> <p>This information can be used to narrow down the available resources to be allocated to a sales partner.</p>
Business Unit		<p>All business units available for the selected market.</p> <p>Resources allocated to a service provider have to be assigned to the service provider's business unit. So, if you specified a service provider in the <b>Dealer/Provider</b> text box, the service provider's business unit is displayed only.</p> <p>This list box is available only if the system is deployed in a multicompany environment.</p>
Clear	DEL	Deletes the contents of the text box in which the cursor is positioned.
Close	F3	Closes the window and returns you to the parent window.
Copy	CTRL+C	Copies the selected object to the clipboard.
Cut	CTRL+X	Removes the selected object and places it on the clipboard.
Dealer / Provider		<p>The code of a sales partner or a service provider to whom the storage media are assigned or from whom they are removed.</p> <p>If you enter an invalid code, the <b>Find Dealer / Provider</b> window opens.</p>
Delivery Date		<p>The date on which the storage media are reserved for a specific sales partner or service provider.</p> <p>The current system date is displayed after you have clicked <b>Save</b>.</p>

Item	Shortcut	Description
Exit		Closes the application.
From Number		The first card number to be assigned to or removed from a sales partner or service provider.
HLR		<p>The home location register (HLR) in the GSM market at which the storage media are registered.</p> <p>The list box is not available if only one home location register is specified in the database.</p>
Network		The network in which the storage media are used.
None	Alt+O	Deselects all rows in the table.
Numbering plan		The numbering plan assigned to the ports.
Paste	CTRL+V	Inserts the contents of the clipboard at the insertion point.
Prepaid Profile		<p>The profile used for the pre-activated prepaid storage media.</p> <p>This list box is filled according to your selection in the <b>Network</b>, <b>HLR</b> and <b>Business Unit</b> list boxes.</p>
Printer Settings		Opens the <b>Printing parameters</b> window, in which you can adjust the printer settings.
Quantity		The number of storage media to be assigned to or removed from a sales partner or service provider.
REG		<p>The home location register (HLR) in the Calling Card market at which the storage media are registered.</p> <p>The list box is not available if only one home location register is specified in the database.</p>
SIM Date		Only SIM cards ordered at the date you enter here are assigned to or removed from a sales partner or service provider.
Submarket		The submarket in which the storage media are used.
TYPE		The type of storage medium.
Total Quantity		The number of storage media already assigned to the sales partner or service provider selected.

Item	Shortcut	Description
Undo	CTRL+Z	Reverses the last command or deletes the last entry you made.
Up to Number		The last card number to be assigned to or removed from a sales partner or service provider.
Vanity Number Converter	CTRL+G	Opens the <b>Vanity Number Converter</b> window, in which you can convert a vanity number into the corresponding phone number.
Vendor		The manufacturer of the storage medium.  Available only for the GSM market.

#### 4.14 Edit Billing Identifier

You can create, change or delete the entries of the BID details table of the parent window.

The items described here also apply to the **Edit CIBER Batch Sequence Number** window.

Item	Description
BID	<p>text box: Displays the BID or SID selected from the table of the parent window.</p> <p>If you click the <b>New</b> push button, you can enter a new BID or SID.</p> <p>radio button: The BID can be selected as the BID Type.</p>
BID Description	The area name of the BID or SID.
BID Group	The group to which the BID or SID belongs.
Cancel	Cancels the process and returns you to the parent window.
Clear	Clears all search criteria. This push button is available in search mode only.
Clearing House	Clearing House can be selected as the BID Type.
Criteria	Switches the window to search mode.
Delete	<p>The corresponding row in the table of the parent window is marked with an X in the row header.</p> <p>A confirmation message is displayed. If there are any dependencies to other rows, the row cannot be deleted.</p>
Network Description	The name of the associated PMN.



Item	Description
New	Clears the window. You can then enter a new BID or SID. A new row is inserted in the table of the parent window.
Next	Goes to the next BID or SID.
OK	Closes the window and returns you to the parent window.
Parent SID	The parent SID is the original SID that a BID range was created from.
Previous	Goes to the previous BID or SID.
SID	SID can be selected as the BID type.
Search	Starts the search according to the criteria you entered.

## 4.15 Edit Billing Identifier Group

The items described here also apply to the following window:

- Edit Roaming Agreement Group**

Item	Shortcut	Description
(Move All)	>>	Moves all entries selected from the <b>Available...</b> list box to the <b>Selected...</b> list box.
(Move)	>	Moves the entry selected from the <b>Available...</b> list box to the <b>Selected...</b> list box.
(Remove All)	<<	Moves all entries from the <b>Selected...</b> list box to the <b>Available...</b> list box.
(Remove)	<	Moves the entry selected from the <b>Selected...</b> list box to the <b>Available...</b> list box.
Cancel		Cancels the process and returns you to the parent window.
Criteria		Switches the window to search mode.
Delete		The corresponding row in the table of the parent window is marked with an X in the row header.  A confirmation message is displayed. If there are any dependencies to other rows, the row cannot be deleted.
Description		The name for the BID Group.
Group Id		The internal unique identifier for a BID Group.
Network Description		The PMN, for which the BID group belongs to.

Item	Shortcut	Description
New		Clears the window. You can then enter a new BID group. A new row is inserted in the table of the parent window.
Next		Goes to the next group.
OK		Closes the window and returns you to the parent window.
Previous		Goes to the previous group.
Search		Starts the search according to the criteria you entered.

## 4.16 Edit Block Number Splitting for ISDN market

The items described here also apply to the **Edit Block Number Splitting for Intelligent Network Services** window.

You can enter the directory numbers and their extensions to be included in a directory number block or you can modify existing ones.

Item	Description
Block Size	The amount of directory number extensions in the directory number block.
Cancel	Cancels the process and returns you to the parent window.
OK	Closes the window and returns you to the parent window.  The directory number extensions you specified in the <b>from</b> and <b>up to</b> text boxes are included in the directory number block.
from	The first directory number extension to be included in the directory number block.
up to	The last directory number extension to be included in the directory number block.

## 4.17 Edit Phone Number Assignment to BIDs

You can create, change or delete an assignment of a BID to a range of phone numbers.

Item	Description
BID	Displays the Billing Identifier (BID) of the parent window.
BID Description	Displays the area name of the BID.
Cancel	Cancels the process and returns you to the parent window.
City	The city associated with the BID

Item	Description
Country	The country associated with the BID
Delete	The corresponding row in the table of the parent window is marked with an X in the row header.  A confirmation message is displayed.
Network Description	Displays the name of the associated PMN BID.
New	You can then enter the data for a new assignment of phone number range for the appropriate BID. A new row is inserted in the table of the parent window
Next	Goes to the next assignment.
OK	Closes the window and returns you to the parent window.
Phone Number End	The last phone number in a range of phone numbers to be assigned to the BID.
Phone Number Start	The first phone number in a range of phone numbers to be assigned to the BID.
Previous	Goes to the previous assignment
Province / State	The province or state associated with the BID.
Start Date	The date on which the assignment of the phone number range to the BID goes into effect.

## 4.18 Edit Roaming Agreement Group

Refer to [Edit Billing Identifier Group](#) window for a description of the items in this window.

Item	Description
Roaming Agreement Group ID	The internal unique key for the roaming agreement group.
Roaming Agreement Group Name	The roaming agreement group name.
Short Desc	The abbreviation of the roaming agreement group.

## 4.19 Edit VPN Address

Attributes can be added to a VPN. The attributes are required to create VPN directory numbers.

Item	Description
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Item	Description
Cancel	Cancels the process and returns you to the parent window.
Description	The name of the prefix.
INR	The home location register (HLR) at which the VPN is registered.
Mapping Rule	The rule to be used for mapping the public number to the private number which is used in the VPN.
Network	The network in which the VPN is used.
Numbering Plan	The numbering plan that is used in the VPN.
OK	Validates your entries and closes the window. Your entries are transferred to the parent window.
Prefix	The NDC that is used to generate VPN directory number(s).
VPN	The name of the VPN, for which attributes are defined.

## 4.20 File Report

The contents of the following files can be printed or viewed.

- Protocol Files (PRO)  
When the resources delivered differ from the resources ordered, a protocol file is created for each PPC output file checked. The protocol files are named <PPC file name>.PRO and saved in the directory for PPC errors files.
- AuC Command (CMD)  
In the GSM market, an AuC command file, which contains the resources for the Authentication Center (AuC), is created. The file name is <PPC file name>.CMD and saved in the directory for AuC output files.

Item	Description
Cancel	Cancels the process and returns you to the parent window.
File	Opens the <b>Open PO Item Check-Protocol</b> window, a standard Windows file selection window, in which you can select the file to be viewed or printed.
Filename	The file that contains the information to be viewed or printed.
Print	Prints the report.
Report Title	This title is displayed as a subtitle on the report, provided that at least one matching item is found.
View	Displays the report in the <b>Report Preview</b> window.

## 4.21 Find Dealer / Provider

RA users can be assigned to specific sales partners or service providers.. The assignment determines whether you can assign all sales partners and all service providers or are restricted to a specific sales partner or service provider.

A search in this window retrieves only those sales partners or service providers to whom you are assigned.

This window has two modes:

- search mode  
In this mode you can enter search criteria. You can enter an asterisk (\*) as a wildcard in any text box. **Clear**, **Search**, **Cancel** and **Help** are available.
- results mode  
In this mode, the results of the search are displayed. **OK**, **Criteria**, **Cancel** and **Help** are available. If no search results are displayed, or if the search results are inaccurate, click **Criteria** to change your search criteria.

Item	Description
Active	RA searches for active sales partners and service providers only.
Address Note 1 / 2 / 3	Additional address data that is not covered by the <b>ZIP / City</b> and <b>Street / No.</b> text boxes.
Cancel	Cancels the process and returns you to the parent window.
Case Sensitive	Distinguishes between uppercase and lowercase characters. If you select this option, the search finds only instances which match the capitalization you entered in the text boxes.
Clear	Clears all search criteria. This push button is available in search mode only.
Company name	The name of the company that the sales partner or service provider represents.
Connection Type	The way in which sales partners and service providers are contacted.
Count	The number of entries that match the search criteria you entered.
Criteria	Switches the window to search mode.
Deactive	RA searches for deactivated sales partners and service providers only.
Dealer	RA searches for sales partners only.
Directory number	The order limit for directory numbers for the sales partner or service provider.
Fax No.	The fax number of the sales partner or service provider.
Interested	RA searches for interested sales partners or service providers only.
Lastname	The last name of the sales partner or service provider.

Item	Description
Matchcode	Finds last names that sound alike.
OK	Closes the window and returns you to the parent window. The data matching your search results is transferred to the parent window. If no search results were found, <b>OK</b> is not available. You can either enter new search criteria or cancel the search.
Port	The order limit for ports for the sales partner or service provider.
Provider	RA searches for service providers only.
Public code	The code of the sales partner or service provider used in communication with external entities.
Remark	Remarks entered about the sales partner or service provider.
Search	Starts the search according to the criteria you entered.
Street / No.	The street name and house number where the sales partner or service provider is located.
Suspended	RA searches for suspended sales partners or service providers only.
Tel No.	The phone number of the sales partner or service provider.
ZIP / City	The ZIP or postal code and the city in which the sales partner or service provider is located.

## 4.22 Generate / Delete Closed User Group for GSM

The items described here also apply to the following windows:

- **Generate / Delete Closed User Group for ISDN market**
- **Generate / Delete Closed User Group for X.25 data communication**

You can create or delete one closed user group (CUG) or several at once in a batch.

Item	Description
Cancel	Cancels the process and returns you to the parent window.
Close	Closes the window and returns you to the parent window.
Create	Creates the CUGs you specified in the <b>from</b> and <b>up to</b> text boxes.
Delete	Deletes the CUGs you specified in the <b>from</b> and <b>up to</b> text boxes.
from	The interlock code of the first CUG to be created or deleted. The default entry can be

Item	Description
	overwritten with an interlock code that is greater than or equal to the default entry.
generating	The interlock code currently created. Each code is checked.
up to	<p>The interlock code of the last CUG to be created or deleted.</p> <p>If you want to create or delete only one CUG, enter the same code as in the <b>from</b> text box. If you want to create or delete several CUGs at once, enter the last interlock code of the batch to be created or deleted.</p> <p>The default entry can be overwritten with an interlock code that is smaller than or equal to the default entry. If you enter codes smaller than the default, leading zeros are automatically added.</p> <p>The codes you enter here must have the same length than those entered in the <b>from</b> text box.</p>

## 4.23 Generate / Delete Directory Number for GSM

The items described here also apply to the following windows:

- **Generate / Delete Directory Numbers for AMPS**
- **Generate / Delete Directory Numbers for Intelligent Network Services**
- **Generate / Delete Directory Numbers for ISDN**

You can create one directory number or several at once in a batch.

In the GSM market, PDP addresses and APNs are considered to be directory numbers.

Item	Description
Block size	The amount of directory numbers created or deleted.
Constant Part	<p>The location area code (LAC) of the directory number or the directory numbers to be created or deleted without the national access code (NAC) prefix 0.</p> <p>RA performs a validation check after you have clicked <b>Add Item to Order</b>. If the check is successful, the name of the corresponding zone destination is displayed in the <b>Zone destination</b> text box.</p>
Generating	The directory number currently created. Each directory number is checked.
HLR	<p>The name of the home location register (HLR) at which the AMPS and GSM directory numbers are registered.</p> <p>The list box is not available if only one home location register is specified in the database.</p>

Item	Description
INR	<p>The name of the home location register (HLR) at which the directory numbers for the Intelligent Network Services market are registered.</p> <p>The list box is not available if only one home location register is specified in the database.</p>
Log HLR	<p>The logical home location register at which the Intelligent Network Services directory numbers are registered. Logical HLRs are subsets of the HLR.</p> <p>The list box is not available if only one logical HLR is specified for the home location register selected.</p>
NDC	The national destination code (NDC) for the X.25 directory numbers in the purchase order item.
Network	The network in which the directory numbers are used.
Numbering plan	The numbering plan to be assigned to the directory numbers.
Numbers of Type	<p>The types of directory numbers to be created or deleted. The entries available depend on the market, the numbering plan and the network.</p> <p>The <code>clsfydn.dll</code> is used to customize the conventions for the creation of type-specific directory numbers:</p> <p>If the directory number is an APN or PDP address, this list box is not available and filled with a default value.</p> <p>The directory number type determines the number range in which directory numbers can be created or deleted. You can select several types of directory numbers at once. If you do so, RA assigns the directory numbers automatically to the correct number range.</p> <p>If only one type is selected and directory numbers are entered in the wrong range, RA does not create them.</p>
Range	<p>The logical home location register (HLR) at which the directory numbers are registered. The logical HLR is a subset of the HLR.</p> <p>The list box is not available if only one logical HLR is specified in the database.</p>
Roaming network access for APN	The APNs you are creating can also be accessed from a VPMN.
Static PDP required for APN	Static PDP addresses must be used when the APNs you are creating are accessed.
VPN	The virtual private network (VPN) in which the APNs or PDP addresses are used.



Item	Description
Zone Destination	The name of the zone destination related to the constant part.
from	<p>The first directory number to be created or deleted. You can overwrite the default entry with a number greater than or equal to the default number. The maximum length of the directory number is configured in the database and cannot be exceeded.</p> <p>In the GSM market, there are three types of directory numbers:</p> <ul style="list-style-type: none"> <li>MSISDN: Enter the MSISDN as follows: CC+NDC+SN</li> <li>APN: Enter the URL of the APN, for example, <a href="http://www.mycompany.com/private/index.html">http://www.mycompany.com/private/index.html</a> or <a href="http://192.168.0.4/private/index.html">http://192.168.0.4/private/index.html</a>. The following characters are allowed: a - z, 0 - 9, ., *, -. Prefixes, such as rac, lac and sgsn, and suffixes, such as grps, are not allowed. A wildcard (*) can be used only once in a HLR and the URL can have the wildcard only as a string.</li> <li>PDP address: The IP number version depends on the selected numbering plan. You can enter the digits in four or eight text boxes. You do not need to enter the separator of an IP number. RA supports two kinds of IP numbers: IPv4, for example, 192.128.0.58 and IPv6, for example, FFFF:1000:0:0:0:0:1234:FE08:0.</li> </ul> <p>In the <b>Block Number</b> group box: The first directory number block to be created or deleted. The numbers in the <b>from</b> and <b>up to</b> text boxes must have the same length. Only available for the Intelligent Network Services market.</p>
up to	<p>The last directory number to be created or deleted. It must have the same length as the first directory number.</p> <p>You can overwrite the default entry with a number smaller than or equal to the default number. The maximum length of the directory number is configured in the database and cannot be exceeded. If you enter numbers smaller than the default, leading zeros are automatically added.</p> <p>If you want to create or delete only one directory number, enter the same number as in the <b>from</b> text box here. If you want to create or delete several directory numbers at once, enter the last directory number of the batch here.</p> <p>In the GSM market, there are three types of directory numbers:</p> <ul style="list-style-type: none"> <li>MSISDN: Enter the MSISDN as follows: CC+NDC+SN</li> <li>APN: This text box is not available because you cannot create or delete several APNs at once.</li> <li>PDP address: The IP number version depends on the selected numbering plan. You can enter the digits in four or eight text boxes. You do not need to enter the separator of an IP number. RA supports two kinds of IP numbers: IPv4, for example, 192.128.0.58 and IPv6, for example, FFFF:1000:0:0:0:0:1234:FE08:0.</li> </ul> <p>In the <b>Block Number</b> group box: The last directory number block to be created or</p>

Item	Description
	deleted. The numbers in the <b>from</b> and <b>up to</b> text boxes must have the same length. Only available for the Intelligent Network Services market.

## 4.24 Generate / Delete MIN for AMPS

The items described here also apply to the following windows:

- **Generate / Delete Port for ISDN market**
- **Generate / Delete Port for Leased Line**
- **Generate / Delete Port for X.25 data communication**

The ports in the different markets have different names:

- AMPS: MIN
- ISDN: OLID
- Leased Line: Line ID
- X.25: NUI

You can create or delete one port or several at once in a batch.

Item	Description
Assign Parameter	Opens the <b>Service Parameters</b> window, in which you can assign values to parameters and transfer the values assigned to this window.  Parameter values can be assigned to ports only for the ISDN, Leased Line and X.25 markets.
Cancel	Cancels the process and returns you to the parent window.
Capacity	The number of times a port can be used for parallel data processing in the Leased Line market.
Clear Parameter	Clears the parameters from the <b>Parameter</b> list box.  Available only for the ISDN, Leased Line and X.25 markets.
Close	Closes the window and returns you to the parent window.
Constant Part	The part of the port number that it is the same for all ports of a specific market.
Create	Creates the port or the batch of ports you specified in the <b>from</b> and <b>up to</b> text boxes.

Item	Description
Delete	Deletes the port or the batch of ports you specified in the <b>from</b> and <b>up to</b> text boxes.
HLR	<p>The name of the home location register (HLR) at which the ports of the AMPS market are registered.</p> <p>The list box is not available if only one home location register is specified in the database.</p>
MBI	The MIN block identifier. This is a six-digit number that identifies a wireless telecommunications switch in the AMPS market. The first digit is never 0 or 1 because 0 or 1 are always used for the IRM. This avoids conflict with the MIN.
Network	The network in which the ports are used.
Numbering plan	The numbering plan to be assigned to the ports.
REG	<p>The name of the home location register (HLR) at which the ports of the Leased Line and X.25 markets are registered.</p> <p>The list box is not available if only one home location register is specified in the database.</p>
Register	<p>The name of the home location register (HLR) at which the ports of the ISDN market are registered.</p> <p>The list box is not available if only one home location register is specified in the database.</p>
from	<p>The first port to be created or deleted. A default value is provided to show you a valid port and the predefined length of the MSIN.</p> <p>If you change the default value and enter a number with less digits than the default value, leading zeros are automatically added.</p> <p>The numbers in the <b>from</b> and <b>up to</b> text boxes must have the same length.</p>
generating	The ports currently created. Each number is checked. After the ports have been created, a message shows you the result.
up to	<p>The last port to be created or deleted. A default value is provided to show you a valid range of ports and the predefined length of the MSIN.</p> <p>If you change the default value and enter a number with less digits than the default value, leading zeros are automatically added.</p> <p>If you want to create or delete only one port, enter the same value as in the <b>from</b> text box here. If you want to create or delete several ports at once, enter the last port of the</p>

Item	Description
	batch to be created or deleted here.
	The numbers in the <b>from</b> and <b>up to</b> text boxes must have the same length.

## 4.25 Generate / Delete Virtual Private Network for GSM

You can create or delete one VPN or several at once in a batch.

Item	Description
Add	Opens the <b>Edit VPN Address</b> window, in which you can add attributes to the VPN.
Change	Opens the <b>Edit VPN Address</b> window, in which you can modify the attributes of the VPN.
Close	Closes the window and returns you to the parent window.
Create	Creates the VPN.
Delete	Deletes the VPN selected from the database.  If an APN or a PDP address is linked to the VPN selected, it cannot be deleted.
Description	The name of the prefix.
INR	The home location register (HLR) at which the VPN is registered.
Mapping Rule	The rule to be used for mapping the public directory number to the private directory number which is used in the VPN.
Network	The network to which the VPN belongs.
Numbering Plan	The numbering plan to be assigned to the VPN.
Prefix	The NDC that is used to generate VPN directory number(s).
Remove	Removes the selected VPN from the table.
Update	Updates data of the VPN you have changed.
VPN	The name of the VPN to be created or deleted.

## 4.26 Import Resource File

PPC files with resources for a specific market can be imported from an external system.

If MINs are imported and they are in the home MBI range, the MINs are linked to the appropriate network and HLR.

For more information about PPC files refer to [PPC Files](#) in the **Concepts** section.

Item	Description
Business Unit	<p>All business units available for the selected market.</p> <p>If a sales partner is specified in the import file, the resources are linked with the selected business unit.</p> <p>If no sales partner is specified in the import file, the business unit assignment is done during the allocation of resources to a sales partner and your selection in this list box is ignored.</p> <p>Resources allocated to a service provider have to be assigned to the service provider's business unit.</p>
Cancel	Cancels the process and returns you to the parent window.
File to Import	The name of the PPC output file.
HLR	The home location register (HLR) at which the resources are registered.
Import	Imports the resources from the file into the database.
Network	The network in which the resources are used.
Number of imported Entries	The number of imported and validated resources.
Numbering Plan	The numbering plan and the directory number type to be assigned to the PPC output file.
Prepaid Profile	<p>The profile used for the pre-activated prepaid resource.</p> <p>This list box is filled according to your selection in the <b>Network</b>, <b>HLR</b> and <b>Business Unit</b> list boxes.</p>
Search	<p>Opens the standard <b>Choose File</b> window, in which you can select a valid PPC output file.</p> <p>If errors occurred during the file import process, the <b>Protocol File</b> window opens.</p>
Vendor	The vendor who sent the PPC output file.

## 4.27 Linking APN to GPRS Supplementary Service for GSM



You can link one or more APNs to a GPRS service. The linked APNs are then available exclusively for this service.

Item	Description
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Item	Description
Add	<p>Moves the selected APNs from the <b>Unlinked APNs</b> list box to the <b>Linked APNs</b> list box.</p> <p>Initially, the moved APNs are in blue text indicating that the APN assignment has not yet been saved. After clicking the <b>Save</b> button, the assignment is saved, and the APNs are displayed in black text.</p>
All APN's	When selected, all APNs are displayed in the left list box, this includes the APNs that are already assigned to a GPRS supplementary service and those that are not yet assigned.
Cancel	Cancels the process and returns you to the parent window.
Linked APNs	<p>The list of APNs that have already been assigned to the selected GPRS service.</p> <p>The APNs are in blue immediately after they have been moved from the <b>Unlinked APNs</b> list box. The text turns to black after the assignment has been saved. The APNs are gray and cannot be selected if a GPRS service with these APNs linked to it is assigned to a customer contract.</p>
OK	Closes the window and returns you to the parent window.
Remove	<p>Moves the selected APNs from the <b>Linked APNs</b> list box to the <b>Unlinked APNs</b> list box.</p> <p>Initially, the moved APNs are in blue text indicating that the deassignment of the APNs has not yet been saved. After clicking the <b>Save</b> button, the deassignment is saved, and the APNs are displayed in black text.</p> <p>If a service with APNs linked to it is assigned to a customer contract, the linked APNs cannot be deassigned. These APNs are gray and cannot be selected.</p>
Save	Saves the assignment of APNs to the selected GPRS service or the deassignment of APNs from the selected GPRS service.
Target GPRS service	The GPRS service to which you want to assign APNs or from which you want to deassign already assigned APNs.
Unlinked APNs	<p>The list of APNs that are available for assignment to the selected GPRS service.</p> <p>The APNs are initially in blue if they have been moved here from the <b>Linked APNs</b> list box. The text turns to black after the deassignment has been saved.</p>

## 4.28 Linking of Directory Numbers to HLR for GSM

You can link APNs to one or several home location registers (HLR). This link can also be removed in this window.

Item	Shortcut	Description
	CTRL+P	Prints the data area of the window.
	CTRL+S	Saves your entries.
<< Remove		Transfers the HLRs selected from the <b>assigned</b> list box to the <b>unassigned</b> list box.
Add >>		Transfers the HLRs selected from the <b>unassigned</b> list box to the <b>assigned</b> list box.
Calculator	CTRL+L	Opens the <b>Calculator</b> window. The calculated result is copied to the text box or table cell where the cursor is positioned.
Clear	DEL	Deletes the contents of the text box in which the cursor is positioned.
Close	F3	Closes the window and returns you to the parent window.
Copy	CTRL+C	Copies the selected object to the clipboard.
Cut	CTRL+X	Removes the selected object and places it on the clipboard.
Directory Number		The APN that is linked to or unlinked from the HLR selected.
Exit		Closes the application.
Network		The network in which the directory number is used.
Numbering plan		The numbering plan and the directory number type assigned to the directory number.
Paste	CTRL+V	Inserts the contents of the clipboard at the insertion point.
Printer Settings		Opens the <b>Printing parameters</b> window, in which you can adjust the printer settings.
Undo	CTRL+Z	Reverses the last command or deletes the last entry you made.
VPN		The virtual private network (VPN) in which the directory number is used.
Vanity Number Converter	CTRL+G	Opens the <b><u>Vanity Number Converter</u></b> window, in which you can convert a vanity number into the corresponding phone number.
assigned		The HLRs that are already linked to the APN selected.
unassigned		All HLRs that are not linked to the APN selected.

## Move Storage Medium and Port from one distribution level to another for GSM

The items described here also apply to the following windows:

- **Move Storage Medium and Port from one distribution level to another for Calling Card**

In the Calling Card and GSM markets, storage media and ports can be moved from one level in a sales hierarchy to another if they are not yet assigned to a contract. This can be necessary, for example, if too many resources have been assigned to a specific dealer. You can select the dealer as the sender and move part of his stock to another dealer, the receiver.

If you have selected a row in the table, press the Insert key to add a new row to the table. New rows are marked with an arrow, while modified rows have a check mark.

Item	Description
Business Unit	<p>All business units available for the selected market.</p> <p>Resources allocated to a service provider have to be assigned to the service provider's business unit. So, if you specified a service provider in the <b>Dealer/Provider</b> text box, the service provider's business unit is displayed only.</p> <p>This list box is available only if the system is deployed in a multicompany environment.</p>
Close	<p>Closes the window and returns you to the parent window.</p>
Dealer/Provider	<p>In the <b>Sender</b> group box: The code of the sales partner or service provider from whom the storage media and ports are taken.</p> <p>In the <b>Receiver</b> group box: The code of the sales partner or service provider to whom the storage media and ports are transferred.</p>
HLR	<p>The home location register (HLR) of the GSM market at which the ports and storage media are registered.</p>
Network	<p>The network in which the ports and storage media are used.</p>
Numbering plan	<p>The numbering plan assigned to the ports and storage media.</p>
OK	<p>Closes the window and returns you to the parent window.</p> <p>The storage media or ports are transferred from the sender to the receiver.</p> <p>The <b>OK</b> button is only enabled if the <b>Test</b> button has been pressed before, this means a test has to be performed before the move action can be confirmed.</p>
Prepaid Profile	<p>The profile used for the pre-activated prepaid resources.</p> <p>This list box is filled according to your selection in the <b>Network</b>, <b>HLR</b> and <b>Business Unit</b> list boxes.</p>
REG	<p>The home location register (HLR) of the Calling Card market at which the ports and</p>



Item	Description
	storage media are registered.
Received Quantity	The number of ports or storage media that have been transferred to the receiver.
Requested Quantity	The number of storage media or ports to be transferred.
Search	Opens the <a href="#">Find Dealer / Provider</a> window, in which you can search for and select a sales partner or service provider.
Storage Medium	The port or the storage medium to be transferred. If you want to move an indefinite number of ports or storage media, truncate the port or card number.  To enter data, place the cursor in the table cell and press the INSERT key.
Test	Enters the number of storage media or ports available for transfer in the <b>free</b> column.  The push button is available only if the codes of the sales partner or service provider have been entered in the <b>Sender</b> and the <b>Receiver</b> group boxes and if the <b>Storage Medium</b> or <b>Requested Quantity</b> columns in the <b>Sender</b> table are filled with data.  If you click <b>Test</b> , the number of resources to be moved is counted without actually moving them.
free	The number of ports or storage media available for transfer after you click <b>Test</b> .
list box	In the <b>Sender</b> group box: The address of the sender.  In the <b>Receiver</b> group box: The address of the receiver.

## 4.29 Phone Number Assignment to BIDs

You can search for a BID and view the phone number assignment to this BID.

Item	Shortcut	Description
BID		The BID you are searching for. After a successful search, the BID description is displayed in the corresponding text box.
BID Description		Displays the area name of the BID.
City		Displays the city associated with the BID.
Close	F3	Closes the window and returns you to the parent window.
Country		Displays the country associated with the BID.




Item	Shortcut	Description
Exit		Closes the application.
Network		Displays the PMN associated with the BID after a successful search.
Open	CTRL+O	Opens the <a href="#">Edit Phone Number Assignment to BIDs</a> window in which you can change the contents of the table.
Phone Number End		Displays the last phone number in a range of phone numbers assigned to a BID.
Phone Number Start		Displays the first phone number in a range of phone numbers assigned to a BID.
Print Window	CTRL+P	Prints the data area of the window.
Printer Setup		Opens the <b>Printing parameters</b> window, in which you can adjust the printer settings.
Province/ State		Displays the province / state associated with the BID.
Save	CTRL+S	Saves your entries.
Search		Starts the search according to the criteria you entered.
Start Date		Displays the date on which the assignment of the phone number range to the BID goes into effect.


### 4.30 Print Delivery Note for Closed User Group of GSM

The items described here also apply to the following windows:

- **Print Delivery Note for Closed User Group of ISDN market**
- **Print Delivery Note for Closed User Group of X.25 data communication**

A delivery note for directory numbers that were assigned to a sales partner or service provider can be created.

Item	Shortcut	Description
		Prints the report.
	CTRL+P	Prints the data area of the window.
		Opens the <a href="#">Find Dealer / Provider</a> window, in which you can search for

Item	Shortcut	Description
		and select a sales partner or service provider.
		Displays the report in the <b>Report Preview</b> window.
Calculator	CTRL+L	Opens the <b>Calculator</b> window. The calculated result is copied to the text box or table cell where the cursor is positioned.
Clear	DEL	Deletes the contents of the text box in which the cursor is positioned.
Close	F3	Closes the window and returns you to the parent window.
Copy	CTRL+C	Copies the selected object to the clipboard.
Cut	CTRL+X	Removes the selected object and places it on the clipboard.
Date	CTRL+D	Enters the system date in the text box where the cursor is positioned.
Dealer/Provider		The code of the sales partner or service provider to whom the CUGs are assigned.  If you enter an invalid code, the <a href="#">Find Dealer / Provider</a> window, in which you can search for a sales partner or service provider, opens.
Delivery Date		The date on which the CUGs were reserved for the sales partner or service provider selected.
Exit		Closes the application.
Paste	CTRL+V	Inserts the contents of the clipboard at the insertion point.
Printer Settings		Opens the <b>Printing parameters</b> window, in which you can adjust the printer settings.
Undo	CTRL+Z	Reverses the last command or deletes the last entry you made.
Vanity Number Converter	CTRL+G	Opens the <a href="#">Vanity Number Converter</a> window, in which you can convert a vanity number into the corresponding phone number.





### 4.31 Print Delivery Note for Directory Number of GSM

The items described here also apply to the following windows:

- **Print Delivery Note for Directory Number of AMPS**
- **Print Delivery Note for Directory Number of Intelligent Services Network**

- **Print Delivery Note for Directory Number of ISDN market**
- **Print Delivery Note for Directory Number of X.25 data communication**

A delivery note for directory numbers that were assigned to a sales partner or service provider can be created.

Item	Shortcut	Description
		Prints the report.
	CTRL+P	Prints the data area of the window.
		Opens the <a href="#">Find Dealer / Provider</a> window, in which you can search for and select a sales partner or service provider.
		Displays the report in the <b>Report Preview</b> window.
Calculator	CTRL+L	Opens the <b>Calculator</b> window. The calculated result is copied to the text box or table cell where the cursor is positioned.
Clear	DEL	Deletes the contents of the text box in which the cursor is positioned.
Close	F3	Closes the window and returns you to the parent window.
Copy	CTRL+C	Copies the selected object to the clipboard.
Cut	CTRL+X	Removes the selected object and places it on the clipboard.
Date	CTRL+D	Enters the system date in the text box where the cursor is positioned.
Dealer/Provider		The code of the sales partner or service provider to whom the directory numbers are assigned.  If you enter an invalid code, the <a href="#">Find Dealer / Provider</a> window, in which you can search for a sales partner or service provider, opens.
Delivery Date		The date on which the directory numbers were reserved for the sales partner or service provider selected.
Exit		Closes the application.
Network		The network in which the directory numbers are used.
Numbering plan		The numbering plan and the directory number type assigned to the directory numbers.
Paste	CTRL+V	Inserts the contents of the clipboard at the insertion point.
Printer Settings		Opens the <b>Printing parameters</b> window, in which you can adjust the





Item	Shortcut	Description
		printer settings.
Undo	CTRL+Z	Reverses the last command or deletes the last entry you made.
Vanity Number Converter	CTRL+G	Opens the <a href="#">Vanity Number Converter</a> window, in which you can convert a vanity number into the corresponding phone number.

## 4.32 Print Delivery Note for Port of ISDN market

The items described here also apply to the following windows:

- **Print Delivery Note for Port of Leased Line**
- **Print Delivery Note for Port of X.25 data communication**

A delivery note for ports that were assigned to a sales partner or service provider can be created.

Item	Shortcut	Description
		Prints the report.
	CTRL+P	Prints the data area of the window.
		Opens the <a href="#">Find Dealer / Provider</a> window, in which you can search for and select a sales partner or service provider.
		Displays the report in the <b>Report Preview</b> window.
Calculator	CTRL+L	Opens the <b>Calculator</b> window. The calculated result is copied to the text box or table cell where the cursor is positioned.
Clear	DEL	Deletes the contents of the text box in which the cursor is positioned.
Close	F3	Closes the window and returns you to the parent window.
Copy	CTRL+C	Copies the selected object to the clipboard.
Cut	CTRL+X	Removes the selected object and places it on the clipboard.
Date	CTRL+D	Enters the system date in the text box where the cursor is positioned.
Dealer/Provider		The code of the sales partner or service provider to whom the ports are assigned.  If you enter an invalid code, the <a href="#">Find Dealer / Provider</a> window, in





Item	Shortcut	Description
		which you can search for a sales partner or service provider, opens.
Delivery Date		The date on which the ports were reserved for the sales partner or service provider selected.
Exit		Closes the application.
Network		The network in which the ports are used.
Numbering plan		The numbering plan assigned to the ports.
Paste	CTRL+V	Inserts the contents of the clipboard at the insertion point.
Printer Settings		Opens the <b>Printing parameters</b> window, in which you can adjust the printer settings.
Undo	CTRL+Z	Reverses the last command or deletes the last entry you made.
Vanity Number Converter	CTRL+G	Opens the <a href="#">Vanity Number Converter</a> window, in which you can convert a vanity number into the corresponding phone number.

### 4.33 Print Delivery Note for Storage Medium of GSM

The items described here also apply to the following windows:

- **Print Delivery Note for Storage Medium of AMPS**
- **Print Delivery Note for Storage Medium of Calling Card**

A delivery note for storage media that were assigned to a sales partner or service provider can be created.

Item	Shortcut	Description
		Prints the report.
	CTRL+P	Prints the data area of the window.
		Opens the <a href="#">Find Dealer / Provider</a> window, in which you can search for and select a sales partner or service provider.
		Displays the report in the <b>Report Preview</b> window.
Calculator	CTRL+L	Opens the <b>Calculator</b> window. The calculated result is copied to the text box or table cell where the cursor is positioned.

Item	Shortcut	Description
Clear	DEL	Deletes the contents of the text box in which the cursor is positioned.
Close	F3	Closes the window and returns you to the parent window.
Copy	CTRL+C	Copies the selected object to the clipboard.
Cut	CTRL+X	Removes the selected object and places it on the clipboard.
Date	CTRL+D	Enters the system date in the text box where the cursor is positioned.
Dealer/Provider		<p>The code of the sales partner or service provider to whom the storage media are assigned.</p> <p>If you enter an invalid code, the <a href="#">Find Dealer / Provider</a> window, in which you can search for a sales partner or service provider, opens.</p>
Delivery Date		The date on which the storage media were reserved for the sales partner or service provider selected.
Exit		Closes the application.
Network		The network in which the storage media are used.
Numbering plan		The numbering plan assigned to the storage media.
Paste	CTRL+V	Inserts the contents of the clipboard at the insertion point.
Printer Settings		Opens the <b>Printing parameters</b> window, in which you can adjust the printer settings.
Undo	CTRL+Z	Reverses the last command or deletes the last entry you made.
Vanity Number Converter	CTRL+G	Opens the <a href="#">Vanity Number Converter</a> window, in which you can convert a vanity number into the corresponding phone number.

## 4.34 Printer Setup

In this window you can select the default printer and define the printer settings.

Item	Description
Close	Closes the window and returns you to the parent window.
OK	Closes the window and displays the selected printer in the <b>Printer</b> text box in the parent window as the default printer.

Item	Description
Printer	A list of all printers on which you can print.
Setup	Opens a standard window in which you can set up the selected printer.

### 4.35 Printing Parameters



Printing parameters, such as the number of copies or the page range to be printed, can be specified.

Item	Description
All	All pages are printed.
Cancel	Cancels the process and returns you to the parent window.
Copies	The number of copies to be printed.
Draft	Draft pages are printed.
From	The first page number to be printed.
OK	Closes the window and returns you to the parent window.
Pages	The range of pages specified in the <b>From</b> and <b>To</b> text boxes is printed.
Printer	The default printer.
Printer	Opens the <a href="#">Printer Setup</a> window, in which you can adjust the printer settings.
To	The last page number to be printed.


### 4.36 Print Purchase Order Item

Order forms can be printed and viewed. When a new purchase order for SIM cards, Calling Cards or ISDN directory numbers has been created, the corresponding PPCinput files are sent to the Pre-Personalization Center together with the order forms.

This window is available only if PPC file handling is supported.

Item	Shortcut	Description
		Prints the report.
	CTRL+P	Prints the data area of the window.





Item	Shortcut	Description
		Displays the report in the <b>Report Preview</b> window.
Batch Number		The number of the batch of SIM cards, Calling Cards or ISDN directory numbers ordered.
Calculator	CTRL+L	Opens the <b>Calculator</b> window. The calculated result is copied to the text box or table cell where the cursor is positioned.
Clear	DEL	Deletes the contents of the text box in which the cursor is positioned.
Close	F3	Closes the window and returns you to the parent window.
Copy	CTRL+C	Copies the selected object to the clipboard.
Cut	CTRL+X	Removes the selected object and places it on the clipboard.
Date	CTRL+D	Enters the system date in the text box where the cursor is positioned.
Exit		Closes the application.
Paste	CTRL+V	Inserts the contents of the clipboard at the insertion point.
Printer Settings		Opens the <b>Printing parameters</b> window, in which you can adjust the printer settings.
Undo	CTRL+Z	Reverses the last command or deletes the last entry you made.
Vanity Number Converter	CTRL+G	Opens the <b>Vanity Number Converter</b> window, in which you can convert a vanity number into the corresponding phone number.

## 4.37 Protocol File

In this window you can view the errors that occurred during the file import process.

The file has the same name as the `PPCout` file and is saved in the directory in which the error files of a particular vendor are saved.

Item	Shortcut	Description
(Close)		Closes the window and returns you to the parent window.
Error		The row number of the failed resources and a description of the error.
Print window		Prints the data area of the window.

## 4.38 Purchase Order for GSM (Ports)

The items described here also apply to the **Purchase Order for Calling Card** window.

In the Calling Card and the GSM market, storage media can be ordered from an external vendor. The ports of those markets are always integrated in the storage medium, therefore, the purchase order for ports is used to order SIM cards and telephone calling cards. With the storage media, you can order ports and directory numbers in the same quantity as the storage media.

A purchase order consists of one or more purchase order items. Each purchase order item has its own item characteristics, such as card type and electronic profile.

The **Item Characteristic - add on** tab is available only for the GSM market.

You can order one storage medium or several at once in a batch.







This window contains the following tabs. Click the link to view the corresponding description:

- **Header**
- **Item Characteristics**
- **Item Characteristics - add on**

Item Description

The following items are available regardless of your current context.

Only items you cannot also find on the **Header** , **Item Characteristics** , and **Item Characteristics - add on tabs** are described.

Item	Shortcut	Description
	CTRL+S	Saves your entries.
	CTRL+P	Prints the data area of the window.
	CTRL+O	Opens the <a href="#">Purchase Order Search</a> window, in which you can search for purchase orders.
	CTRL+I	Adds the current item to the table at the bottom of the window. A validation check is performed.  Available if you are on the <b>Purchase Order Item Characteristics</b> tab or on the <b>Purchase Order Item Characteristic - add on</b> tab.
	CTRL+N	Switches the window to create mode.
		Deletes the selected order item.  This icon is available for open purchase orders only.  You can select order items which have already been purchased but were not

Item	Shortcut	Description
		received yet and delete them from the purchase order.
Batch		The batch number. Several storage media can be delivered in sets referred to as batches.
Change actual Order Item		<p>Changes the selected order item in the purchase order item table according to the actual contents of the <b>Purchase Order Item Characteristics</b> tab and the <b>Purchase Order Item Characteristic - add on</b> tab.</p> <p>Available if you are on the <b>Purchase Order Item Characteristics</b> tab or on the <b>Purchase Order Item Characteristic - add on</b> tab.</p>
Clear	DEL	Deletes the contents of the text box in which the cursor is positioned.
Close	F3	Closes the window and returns you to the parent window.
Copy	CTRL+C	Copies the selected object to the clipboard.
Cut	CTRL+X	Removes the selected object and places it on the clipboard.
Date	CTRL+D	Enters the system date in the text box where the cursor is positioned.
Delete actual Order Item		<p>Deletes the order item selected.</p> <p>Available if you are on the <b>Purchase Order Item Characteristics</b> tab or on the <b>Purchase Order Item Characteristic - add on</b> tab.</p>
Exit		Closes the application.
Item No		The order number of the purchase order item in the table.
New Item		<p>Clears the window and lets you enter a new purchase order item.</p> <p>Available if you are on the <b>Purchase Order Item Characteristics</b> tab or on the <b>Purchase Order Item Characteristic - add on</b> tab.</p>
PO Header		<p>Opens the <a href="#">Remarks</a> window, in which you can enter a note about the purchase order.</p> <p>Available after you have entered a new purchase order and clicked <b>Save</b> or after you have opened an existing purchase order.</p>
PO Item		<p>Opens the <a href="#">Remarks</a> window, in which you enter a note about a purchase order item.</p> <p>Available after you have entered a new purchase order and clicked <b>Save</b> or after you have opened an existing purchase order.</p>

Item	Shortcut	Description
Paste	CTRL+V	Inserts the contents of the clipboard at the insertion point.
Printer Settings		Opens the <b>Printing parameters</b> window, in which you can adjust the printer settings.
Status		The status of the purchase order selected:  <b>Open:</b> A receipt for the purchase order is not yet available.  <b>Closed:</b> A receipt for the purchase order is available.
Storage Medium start value		The first card number that is ordered.
Undo	CTRL+Z	Reverses the last command or deletes the last entry you made.
Vanity Number Converter	CTRL+G	Opens the <b>Vanity Number Converter</b> window, in which you can convert a vanity number into the corresponding phone number.
Vendor Switch		The setting for the definition of the vendor's AuC command file.

#### 4.38.1 Header

Back to: [Purchase Order for GSM \(Ports\)](#)

Item	Shortcut	Description
Batch		The batch number of the purchase order. Storage media can be delivered in sets referred to as batches.
Business Unit		The business unit which the resources are ordered for.
Comment		A comment on the purchase order. You can type a maximum of 64 characters. If more comprehensive notes are necessary, select the <b>PO Header</b> menu item from the <b>Remarks</b> menu.
Date entered		The date on which the purchase order was entered. The date is entered automatically by RA.
Delivery address	CTRL+A	The address for delivery of the items ordered. In case you need to modify the address use the shortcut CTRL+A to open the <b>Delivery Address</b> window.

Item	Shortcut	Description
Delivery date		The date on which the items ordered are expected to be delivered.
Due date		The date on which items ordered have to be delivered at the latest.
Order Date		The date on which the storage media are ordered. If you are entering a new purchase order, the current system date is entered automatically.
PO Number		The purchase order number automatically created by RA.
PO Status		<p>The status of the purchase order:</p> <p><b>Open:</b> A receipt for the purchase order is not yet available.</p> <p><b>Closed:</b> A receipt for the purchase order is available.</p>
Submarket		The submarket in which the storage media are used. All batches (sets of storage media) of a purchase order must belong to the same submarket. If you want to order batches for a different submarket, you have to generate a new purchase order.
User		The name of the user who entered the purchase order.
Vendor		The card manufacturer who receives the purchase order. The list box is available after having clicked the <b>New</b> icon.

#### 4.38.2 Item Characteristics

Back to: [Purchase Order for GSM \(Ports\)](#)

Item	Description
ADM 1	<p>The first Administrative Secret Code. To include it in the PPC output file, select the appropriate check box.</p> <p>Available only for the GSM market.</p>
ADM 2	<p>The second Administrative Secret Code. To include it in the PPC output file, select the appropriate check box.</p> <p>Available only for the GSM market.</p>
ADM 3	<p>The third Administrative Secret Code. To include it in the PPC output file, select the appropriate check box.</p> <p>Available only for the GSM market.</p>

Item	Description
ADM 4	<p>The fourth Administrative Secret Code. To include it in the PPC output file, select the appropriate check box.</p> <p>Available only for the GSM market.</p>
Access Control	<p>The key word for access control. It sets the value of the Access Control Class File inside the card. To include it in the PPC output file, select the appropriate check box.</p> <p>Available only for the GSM market.</p>
Code A	<p>The constant value of the administrative secret code number 4 for GSM phase 1. To include it in the PPC output file, select the appropriate check box.</p> <p>Available only for the GSM market.</p>
Code ADM	<p>This key word enables the personalization system to handle the same fixed administrative secret code value for all SIM cards in one batch. This applies to the Administrative Secret Code number 7 for phase 1. To include it in the PPC output file, select the appropriate check box.</p> <p>Available only for the GSM market.</p>
Code B	<p>The constant value of the administrative secret code number 5 for GSM phase 1. To include it in the PPC output file, select the appropriate check box.</p> <p>Available only for the GSM market.</p>
Code Retailer	<p>The code retailer key word enables the personalization system to handle the same fixed retailer secured code value for all SIM cards in one batch. This applies to the Administrative Secret Code number 6 for Phase 1. To include it in the PPC output file, select the appropriate check box.</p> <p>Available only for the GSM market.</p>
DN start value	<p>The first directory number to be ordered. RA begins with this number and orders all following directory numbers in the quantity you specified in the <b>Quantity</b> text box.</p>
Electrical Profile	<p>The profile to be used for electronic personalization.</p> <p>Available only for the GSM market.</p>
Graphical Profile	<p>The profile used for graphical personalization. It determines the design of the SIM card.</p> <p>Available only for the GSM market.</p>
HLR	<p>The name of the home location register (HLR) at which the storage media are registered.</p> <p>The list box is not available if only one home location register is specified in the</p>

Item	Description
	database.
NDC	The national destination code (NDC) code of the directory numbers.
Network	<p>The network in which the storage media are used.</p> <p>The structure of SIM serial numbers in the GSM market is network-specific. Therefore, the selection made here determines the structure of the SIM serial numbers that are created.</p>
Numbering plan	The numbering plan and the directory number type to be assigned to the storage medium.
Numbering plan for DN	The numbering plan to be assigned to the directory numbers.
PIN 1	<p>The first Personal Identification Number. To include it in the PPC output file, select the appropriate check box.</p> <p>Available only for the GSM market.</p>
PIN 2	<p>The second Personal Identification Number. To include it in the PPC output file, select the appropriate check box.</p> <p>Available only for the GSM market.</p>
PUK 1	<p>The first Personal Unblocking Key for GSM phase 2 SIM cards. To include it in the PPC output file, select the appropriate check box.</p> <p>Available only for the GSM market.</p>
PUK 2	<p>The second Personal Unblocking Key. To include it in the PPC output file, select the appropriate check box.</p> <p>Available only for the GSM market.</p>
Port start value	<p>The first port to be ordered.</p> <p>If you do not know which numbers are free, leave the text box empty. The system then looks for the first free numbers. This process can take a while, though.</p> <p>RA begins with this number and orders all following ports in the quantity you specified in the <b>Quantity</b> text box.</p> <p>If you entered a first port and it is not possible to create all the ports specified in the <b>Quantity</b> text box in one batch because ports already exist within the defined batch, the purchase order is split automatically.</p> <p>Enter only the variable part of the port without the prefix because the prefix depends on</p>

Item	Description
	the selected network, home location register, and so on.
Prepaid Profile	<p>The profile for pre-activated prepaid resources. It includes the initial credit or monetary value provided with the storage medium.</p> <p>The available prepaid profiles represent a combination of customer template and contract template.</p>
Quantity	<p>The number of storage media to be ordered with the purchase order item.</p> <p>Calling Card market: Quantities between 1 and 10,000 are accepted.</p> <p>GSM market: Quantities between 50 and 5,000 that can be divided by 50 are accepted.</p>
REG	<p>The name of the home location register (HLR) at which the storage media are registered.</p> <p>The list box is not available if only one home location register is specified in the database.</p> <p>This item is only available for the Calling Card market.</p>
Range	<p>The logical home location register (HLR) at which the directory numbers are registered. The logical HLR is a subset of the HLR.</p> <p>The list box is not available if only one logical HLR is specified in the database.</p>
SM start value	<p>The first card number to be ordered.</p> <p>If you do not know which numbers are free, leave the text box empty. The system then looks for the first free numbers. This process can take a while, though.</p> <p>RA begins with this number and orders all following card numbers in the quantity you specified in the <b>Quantity</b> text box.</p>
Transport Key	<p>A transport key is one of the general description keys exchanged with the Pre-Personalization Center (PPC). It is a numeric value between 1 and 255.</p> <p>The transport key is mandatory if the authentication key (KI) information has to be encoded because it defines the algorithm that is used to create the KI.</p>
Type	<p>Calling Card market: The user-defined Calling Card type.</p> <p>GSM market: The SIM card type.</p>
Use free DNs	In case of preactivated prepaid contracts, already existing free directory numbers can be reused. The corresponding directory numbers are created in the database and their status is set to 'p' (purchased) as soon as you send your purchase order to the corresponding vendor. After the purchase order was processed successfully at the vendor, the status of



Item	Description
	<p>these directory numbers is set to 'b' (preactivated).</p> <p>Directory numbers that are reserved for porting cannot be reused in this context.</p> <p>This check box is available under the following conditions:</p> <p><b>Prepaid profile</b> is selected <b>and</b></p> <p>no <b>Numbering plan for DN</b> is selected</p> <p>The entries in the <b>Use free DNs</b> table column are displayed only after you have selected the <b>Use free DNs</b> check box for your purchase order.</p>

#### 4.38.3 Item Characteristics - add on

Back to: [Purchase Order for GSM \(Ports\)](#)

Item	Description
Artwork	<p>The reference to a certain logo, which is embossed on the personalized telephone calling cards.</p> <p>Available only for the GSM market.</p>
Box value	<p>The number of SIM cards to be packed in one box.</p> <p>Available only for the GSM market.</p>
Filter Reference	<p>The name of an S19 DOS file that loads program data in EEPROM during personalization.</p> <p>Available only for the GSM market.</p>
Holder ID	<p>The graphical layout or logo.</p> <p>Available only for the GSM market.</p>
Mailer Items	<p>Informative data for your own purposes. It references the data that is printed on the mailer.</p> <p>Available only for the GSM market.</p>
Master Card ID	<p>The ID for master cards. You can enter a numerical value composed of 7 to 12 digits.</p> <p>Available only for the GSM market.</p>
SIM Reference	<p>Informative data for your own purposes.</p> <p>Available only for the GSM market.</p>

Item	Description
Secret Key ID	The secret key ID for master cards. You can enter a numerical value between 1 and 256.  Available only for the GSM market.

### 4.39 Purchase Order for ISDN market (Directory Numbers)

The items described here also apply to the **Purchase Order for X.25 data communication** window.

In the ISDN market and the X.25 market directory numbers can be ordered from an external vendor.

For IP addresses, you can also create a purchase order for directory numbers using numbering plans for IP addresses. These numbering plans support either the IPv4 or IPv6 internet protocol.





You can order one directory number or several at once in a batch.

A purchase order can belong to one home location register (HLR) only because all batches of a purchase order must belong to the same HLR.

A purchase order consists of one or more purchase order items. Each purchase order item has its own item characteristics, such as the HLR, the constant part of the phone number or the quantity of phone numbers.

In the ISDN market, you can order single directory numbers or directory number blocks with block extensions with one or more Private Branch Exchanges (PBX).

A number block consists of the following elements: Country Code (CC) + Location Area Code (LAC) + Base Code + Subscriber Number (SN), where the Base Code is the constant part and the SN is the variable part.

Item	Shortcut	Description
	CTRL+N	Deletes the contents of all input elements in the window.
	CTRL+O	Opens the <a href="#">Purchase Order Search</a> window, in which you can view an existing purchase order.
	CTRL+P	Prints the data area of the window.
	CTRL+S	Saves your entries.
Add Item to Order	CTRL+I	Adds the current item to the table at the bottom of the window after a validation check has been performed.  Available if you are on the <b>Purchase Order Item Characteristic</b> tab.
Batch		The batch number of the purchase order. Directory numbers can be delivered in sets referred to as batches.

Item	Shortcut	Description
Block Number from		The first number of the batch of directory number blocks ordered.
Block Number up to		The last number of the batch of directory number blocks ordered.
Block size		The amount of directory numbers ordered.
Change Actual Order Item		<p>Changes the selected order item in the purchase order item table according to the entries you made on the <b>Purchase Item Characteristics</b> tab and the <b>Purchase Item Characteristic - add on</b> tab.</p> <p>Available if you are on the <b>Purchase Order Item Characteristic</b> tab.</p>
Clear	DEL	Deletes the contents of the text box in which the cursor is positioned.
Close	F3	Closes the window and returns you to the parent window.
Comment		A comment on the purchase order. The maximum length is 64 characters. If more comprehensive notes are necessary, select the <b>PO Header</b> menu item from the <b>Remarks</b> menu.
Constant Part		<p>The location area code (LAC) of the directory number or the directory numbers without the national access code (NAC) prefix 0.</p> <p>RA performs a validation check after you have clicked <b>Add Item to Order</b>. If the check is successful, the name of the corresponding zone destination is displayed in the <b>Zone destination</b> text box.</p>
Copy	CTRL+C	Copies the selected object to the clipboard.
Cut	CTRL+X	Removes the selected object and places it on the clipboard.
DN start value		The first directory number to be ordered. RA begins with this number and orders the following directory numbers in the quantity you specified in the <b>Quantity</b> text box.
Date	CTRL+D	Enters the system date in the text box where the cursor is positioned.
Date entered		The date on which the purchase order was entered. The date is entered automatically by RA.
Delete Actual Order Item		<p>Deletes the order item selected.</p> <p>Available if you are on the <b>Purchase Order Item Characteristic</b> tab.</p>
Delivery		The address to which the items ordered are delivered.

Item	Shortcut	Description
Address		Opens the <a href="#">Delivery Address</a> window, in which you can change the address of the recipient. (CTRL+A)
Delivery date		The date on which the items ordered are expected to be delivered.
Directory Number start value		The first directory number ordered.
Due date		The date on which the items ordered have to be delivered at the latest.
Exit		Closes the application.
Item No		Indicates the order of the items in the table.
Log HLR		The logical home location register (HLR) at which the X.25 directory numbers are registered.  The list box is not available if only one logical HLR is specified in the database.
NDC		The national destination code (NDC) code for the X.25 directory numbers in the purchase order item.
Network		The network in which the directory numbers are used.
New Item		Clears the window and lets you enter a new purchase order item.  Available if you are on the <b>Purchase Order Item Characteristic</b> tab.
Numbering plan		The numbering plan to be assigned to the directory numbers.
Order Date		The date on which the storage media are ordered. If you are entering a new purchase order, the current system date is entered automatically.
PO Header		Opens the <a href="#">Remarks</a> window, in which you can enter a note about the purchase order.  Available after you have entered a new purchase order and clicked <b>Save</b> or after you have opened an existing purchase order.
PO Item		Opens the <a href="#">Remarks</a> window, in which you enter a note about a purchase order item.  Available after you have entered a new purchase order and clicked <b>Save</b> or after you have opened an existing purchase order.

Item	Shortcut	Description
PO Number		The purchase order number automatically created by RA.
Paste	CTRL+V	Inserts the contents of the clipboard at the insertion point.
Printer Settings		Opens the <b>Printing parameters</b> window, in which you can adjust the printer settings.
Quantity		The amount of directory numbers ordered with the purchase order item. Values between 1 and 10,000 are accepted.
REG		<p>The name of the home location register (HLR) at which the X.25 directory numbers are registered.</p> <p>The list box is not available if only one home location register is specified in the database.</p>
Register		<p>The name of the home location register at which the ISDN directory numbers are registered.</p> <p>The list box is not available if only one home location register is specified in the database.</p>
Status		<p>The status of the purchase order:</p> <p><b>Open:</b> A receipt for the purchase order is not yet available.</p> <p><b>Closed:</b> A receipt for the purchase order is available.</p>
Undo	CTRL+Z	Reverses the last command or deletes the last entry you made.
User		The name of the user who entered the purchase order.
Vanity Number Converter	CTRL+G	Opens the <b>Vanity Number Converter</b> window, in which you can convert a vanity number into the corresponding phone number.
Vendor		The company that issues the directory numbers. The list box is available after having clicked the <b>New</b> icon.
Vendor Switch		The setting for the definition of the AuC command file of the vendor.
Zone Destination		The name of the zone destination related to the constant part.
from		<p>The first number block to be ordered.</p> <p>The numbers in the <b>from</b> and <b>up to</b> text boxes must have the same length.</p>
up to		The last number block to be ordered

Item	Shortcut	Description
		<p>If you want to create or delete only one directory number block, enter the same value as in the <b>from</b> text box. If you want to create or delete several directory number blocks at once, enter here the last directory number block of the batch to be ordered.</p> <p>The numbers in the <b>from</b> and <b>up to</b> text boxes must have the same length.</p>







## 4.40 Purchase Order Receipt for GSM (Ports)

The items described here also apply to the **Purchase Order Receipt for Calling Card** window.

In this window you can check if the header data of the SIM cards or telephone calling cards delivered is correct. The data is provided by means of a PPC output file (for more information refer to [PPC Files](#)) which is sent by the vendor together with the SIM cards or calling cards.

A purchase order consists of one or more purchase order items. Once the purchase order item is checked, a purchase order receipt is automatically created for it.

The data is displayed only and cannot be edited. However, you can enter notes in the **Remarks** menu.

Item	Shortcut	Description
	CTRL+P	Prints the data area of the window.
	F3	Closes the window and returns you to the parent window.
	CTRL+N	Opens the <b>Purchase Order Search</b> window, in which you can select an existing purchase order.
	CTRL+O	Opens the <b>Purchase Order Receipt Search</b> window, in which you can select an existing purchase order receipt.
	CTRL+S	<p>Saves your entries.</p> <p>The status of the purchase order item changes from 'open' to 'closed' and a confirmation message displays the new purchase order receipt number.</p>
	CTRL+T	Checks the data of the PPC output file of the purchase order item selected in the table. If inconsistencies are found, the <b>Check Purchase Order Item Result</b> window opens. If the purchase order item is consistent, the arrow in the table changes to a check mark. The resources are inserted in the database and get the status <b>free</b> .
Code B		The constant value of the administrative secret code number 5 for GSM phase 1.

Item	Shortcut	Description
		Available only for the GSM market.
Prepaid Profile		The profile to be used for pre-activated prepaid resources. It includes the initial credit or monetary value of the storage medium.
ADM 1		The first Administrative Secret Code. Available only for the GSM market.
ADM 2		The second Administrative Secret Code. Available only for the GSM market.
ADM 3		The third Administrative Secret Code. Available only for the GSM market.
ADM 4		The fourth Administrative Secret Code. Available only for the GSM market.
Access Control		The access control key word. It sets the value of the Access Control Class File inside the card. Available only for the GSM market.
Artwork		The reference to a certain logo, which is embossed on the personalized telephone calling cards. Available only for the GSM market.
Batch		The batch number of the purchase order. Storage media can be delivered in sets referred to as batches.
Box value		The number of SIM cards to be packed in a single box. Available only for the GSM market.
Card Holder ID		The graphical layout of the delivery box. Available only for the GSM market.
Code A		The constant value of the administrative secret code number 4 for GSM phase 1. Available only for the GSM market.
Code ADM		This key word enables the personalization system to handle the same fixed administrative secret code value for all cards of the batch. This applies to the Administrative Secret Code number 7 for phase 1.

Item	Shortcut	Description
		Available only for the GSM market.
Code Retailer		<p>The code retailer key word enables the personalization system to handle the same fixed retailer secured code value for all cards of the batch. This applies to the Administrative Secret Code number 6 for Phase 1. To include it in the PPC output file, select the check box.</p> <p>Available only for the GSM market.</p>
Comment		A comment on the purchase order. You can type a maximum of 64 characters. If more comprehensive notes are necessary, select the <b>PO Header</b> menu item from the <b>Remarks</b> menu.
DN start value		The first directory number ordered.
Date entered		The date on which the purchase order was entered.
Delivery address		The address to which the items ordered are delivered.
Delivery date		The date on which the items ordered are expected to be delivered.
Due date		The date on which the items ordered have to delivered at the latest.
Electrical Profile		<p>The profiles used for electronic personalization.</p> <p>Available only for the GSM market.</p>
Exit		Closes the application.
Filter Reference		<p>The name of a S19 DOS file for program data to be loaded in EEPROM during personalization.</p> <p>Available only for the GSM market.</p>
Graphical Profile		<p>The profiles for graphical personalization. It determines the design of the SIM card.</p> <p>Available only for the GSM market.</p>
HLR		<p>The name of the home location register (HLR) at which the storage media are registered.</p> <p>The list box is not available if only one home location register is specified in the database.</p>
Item No		The order number of the purchase order item in the table.



Item	Shortcut	Description
Mailer Items		<p>Informative data for your own purposes. It references the data that is printed on the mailer.</p> <p>Available only for the GSM market.</p>
Master Card ID		<p>The ID for master cards.</p> <p>Available only for the GSM market.</p>
Network		The network in which the storage media are used.
Numbering plan		The numbering plan and the directory number type assigned to the storage medium.
Numbering plan for DN		The numbering plan to be assigned to the directory numbers.
Order Date		The date on which the storage media are ordered.
PIN 1		<p>The first Personal Identification Number.</p> <p>Available only for the GSM market.</p>
PIN 2		<p>The second Personal Identification Number.</p> <p>Available only for the GSM market.</p>
PO Number		The purchase order number automatically created by RA.
PO Status		<p>The status of the purchase order:</p> <p><b>Open:</b> A receipt for the purchase order is not yet available.</p> <p><b>Closed:</b> A receipt for the purchase order is available.</p>
PUK 1		<p>The first Personal Unblocking Key for GSM phase 2 SIM cards.</p> <p>Available only for the GSM market.</p>
PUK 2		<p>The second Personal Unblocking Key.</p> <p>Available only for the GSM market.</p>
Port start value		The first port ordered.
Printer Settings		Opens the <b>Printing parameters</b> window, in which you can adjust the printer settings.

Item	Shortcut	Description
Quantity		The number of storage media ordered with the purchase order item.
REG		<p>The name of the home location register (HLR) at which the storage media are registered.</p> <p>The list box is not available if only one home location register is specified in the database.</p>
SIM Reference		<p>Informative data for your own purposes.</p> <p>Available only for the GSM market.</p>
SM start value		The first card number ordered.
Secret Key ID		<p>The secret key ID for master cards.</p> <p>Available only for the GSM market.</p>
Status		<p>The status of the selected purchase order:</p> <p><b>Open:</b> A receipt for the purchase order is not yet available.</p> <p><b>Closed:</b> A receipt for the purchase order is available.</p>
Storage Medium start value		The first card number ordered.
Submarket		The submarket in which the storage media are used.
TYPE		<p>Calling Card market: The user-defined Calling Card type.</p> <p>GSM market: The SIM card type.</p>
Transport Key		<p>The reference to one of the general description keys exchanged with the Pre-personalization Center (PPC).</p> <p>Available only for the GSM market.</p>
Use free DNS		In case of preactivated prepaid contracts, already existing free directory numbers can be reused. In your purchase order receipt, these directory numbers are marked accordingly. The status of these directory numbers is 'b' (preactivated).
User		The name of the user who entered the purchase order.
Vendor		The card manufacturer who receives the purchase order.
Vendor		The setting for the definition of the AuC command file of the vendor.

Item	Shortcut	Description
Switch		






## 4.41 Purchase Order Receipt for ISDN market (Directory Numbers)

The items described here also apply to the **Purchase Order Receipt for X.25 data communication** window.

In this window you can check if the header data of the directory numbers delivered is correct. The data is provided in a PPC output file (for more information refer to [PPC Files](#)) sent by the vendor together with the directory numbers.

A purchase order consists of one or more purchase order items. Once the purchase order item is checked, a purchase order receipt is automatically created for it.

The data is only displayed and cannot be edited.

Item	Shortcut	Description
	CTRL+T	Checks the data of the PPC output file of the purchase order item selected in the table.  If inconsistencies are found, the <b>Check Purchase Order Item Result</b> window opens. If the purchase order item is consistent, the arrow in the table changes to a check mark.
	CTRL+N	Deletes the contents of all input elements in the window.
	CTRL+O	Opens the <b>Purchase Order Search</b> window, in which you can view an existing purchase order.
	CTRL+P	Prints the data area of the window.
	CTRL+S	Saves your entries.
Batch		The batch number. Directory numbers can be delivered in sets referred to as batches.
Block Number from		The first number block ordered.
Block Number up to		The last number block ordered.
Block size		The amount of directory number blocks ordered.
Close	F3	Closes the window and returns you to the parent window.

Item	Shortcut	Description
Comment		A comment on the purchase order.
Date entered		The date on which the purchase order was entered.
Delivery date		The date on which the items ordered are expected to be delivered.
Directory Number start value		The first directory number ordered.
Due date		The date on which the items ordered have to delivered at the latest.
Exit		Closes the application.
Item No		The order of the items in the table.
NDC		The national destination code (NDC) for the X.25 directory numbers.
Network		The network in which the directory numbers are used.
Numbering plan		The numbering plan and the directory number type assigned to the directory numbers.
Order Date		The date on which the storage media were ordered.
PO Header		<p>Opens the <b>Remarks</b> window, in which you can enter a note about the purchase order.</p> <p>Available after you have entered a new purchase order and clicked <b>Save</b> or after you have opened an existing purchase order.</p>
PO Item		<p>Opens the <b>Remarks</b> window, in which you enter a note about a purchase order item.</p> <p>Available after you have entered a new purchase order and clicked <b>Save</b> or after you have opened an existing purchase order.</p>
PO Number		The purchase order number automatically created by RA.
PO Status		<p>The status of the purchase order:</p> <p><b>Open:</b> A receipt for the purchase order is not yet available.</p> <p><b>Closed:</b> A receipt for the purchase order is available.</p>
Printer Settings		Opens the <b>Printing parameters</b> window, in which you can adjust the printer settings.

Item	Shortcut	Description
Quantity		The amount of directory numbers ordered.
REG		The name of the home location register (HLR) at which the X.25 directory numbers are registered.  The list box is not available if only one home location register is specified in the database.
Receipt Number		The purchase order receipt number.
Register		The name of the home location register at which the ISDN directory numbers are registered.  The list box is not available if only one home location register is specified in the database.
Status		The status of the purchase order:  <b>Open:</b> A receipt for the purchase order is not yet available.  <b>Closed:</b> A receipt for the purchase order is available.
User		The name of the user who entered the purchase order.
Vanity Number Converter	CTRL+G	Opens the <b>Vanity Number Converter</b> window, in which you can convert a vanity number into the corresponding phone number.
Vendor		The company that issues the directory numbers.
Vendor Switch		The setting for the definition of the AuC command file of the vendor.

## 4.42 Purchase Order Receipt Search

This window has two modes:

- search mode  
In this mode you can enter search criteria. You can enter an asterisk (\*) as a wildcard in any text box. **Clear**, **Search**, **Cancel** and **Help** are available.
- results mode  
In this mode, the results of the search are displayed. **OK**, **Criteria**, **Cancel** and **Help** are available. If no search results are displayed, or if the search results are inaccurate, click **Criteria** to change your search criteria.

Item	Description
Batch	In the <b>Sort according to</b> group box: The search results are sorted by the batch number.  The batch number. To retrieve all batch numbers, leave it empty.

Item	Description
Cancel	Cancels the process and returns you to the parent window.
Clear	Clears all search criteria. This push button is available in search mode only.
Criteria	Switches the window to search mode.
OK	Closes the window and returns you to the parent window. The data matching your search results is transferred to the parent window. If no search results were found, <b>OK</b> is not available. You can either enter new search criteria or cancel the search.
PO Item No.	The purchase order item number. To retrieve all purchase order item numbers, leave it empty.
PO No.	In the <b>Sort according to</b> group box: The search results are sorted by the purchase order number.  The purchase order number. To retrieve all purchase orders, leave it empty.
PO Receipt No.	The purchase order receipt number. To retrieve all purchase order receipts, leave it empty.
Receipt No.	In the <b>Sort according to</b> group box: The search results are sorted by the purchase order receipt number.  The purchase order number. To retrieve all purchase orders, leave it empty.
Search	Starts the search according to the criteria you entered.

## 4.43 Purchase Order Search





This window has two modes:





- search mode  
In this mode you can enter search criteria. You can enter an asterisk (\*) as a wildcard in any text box. **Clear**, **Search**, **Cancel** and **Help** are available.
- results mode  
In this mode, the results of the search are displayed. **OK**, **Criteria**, **Cancel** and **Help** are available. If no search results are displayed, or if the search results are inaccurate, click **Criteria** to change your search criteria.

Item	Description
Batches	The number and status of the batches belonging to the purchase order.
Cancel	Cancels the process and returns you to the parent window.
Clear	Clears all search criteria. This push button is available in search mode only.
Criteria	Switches the window to search mode.

Item	Description
No. of batches	The number of batches per purchase order.
OK	Closes the window and returns you to the parent window. The data matching your search results is transferred to the parent window. If no search results were found, <b>OK</b> is not available. You can either enter new search criteria or cancel the search.
PO No.	The purchase order number.
PO Number	<p>In the <b>Sort according to</b> group box: The search results are sorted by the purchase order number.</p> <p>The purchase order number. To retrieve all purchase orders, leave it empty.</p>
Search	Starts the search according to the criteria you entered.
Status	The status of the purchase order selected, which is either <b>Open</b> (a purchase order receipt is not yet available) or <b>Closed</b> (a purchase order receipt is available).
User	<p>In the <b>Sort according to</b> group box: The search results are sorted by the user name.</p> <p>The name of the user who entered the purchase order. To retrieve all purchase orders, leave it empty.</p>

#### 4.44 Remarks

Item	Shortcut	Description
(Text Box)		The text of the remark. The maximum length is 255 characters, including spaces.
Account		The remark refers to an account.
Calculator...	CTRL+L	Opens the <b>Calculator</b> window. The calculated result is copied to the text box or table cell where the cursor is positioned.
Clear	DEL	Deletes the contents of the text box in which the cursor is positioned.
Close	 F3	Closes the window and returns you to the parent window.
Copy	CTRL+C	Copies the selected object to the clipboard.
Cut	CTRL+X	Removes the selected object and places it on the clipboard.
Entry Date		The date on which the remark was created.
Exit		Closes the application.
First		Goes to the first remark.
Invoice		The remark refers to an invoice.
Last		Goes to the last remark.
Modified Date		The date on which the remark was modified.
New	 CTRL+N	Clears all items in the window so that you can enter a new remark.

Item	Shortcut	Description
Next		Goes to the next remark.
Packing Slip		The remark refers to a packing slip.
Paste	CTRL+V	Inserts the contents of the clipboard at the insertion point.
Previous		Goes to the previous remark.
Print window	 CTRL+P	Prints the data area of the window.
Printer Setup...		Opens the <b>Printing parameters</b> window, in which you can adjust the printer settings.
Purchasing		The remark refers to purchasing.
Remark		The subject of the remark.
Remark for		The object the remark refers to:  the purchase order number and the purchase order item number (RA)  the code and the last name of the sales partner (CX)
Save	 CTRL+S	Saves your entries.
Seq. #		The sequence number of the remark. The number is automatically generated in steps of 10.
Undo	CTRL+Z	Reverses the last command or deletes the last entry you made.
User		The login name of the user who created or modified the remark.

## 4.45 Resource Administration

Before you start working with RA, you have to select a market. If no market has been selected, most of the functions are not available.

RA maintains only internal resources, this means, it does not maintain resources that were entered in Customer Care (CX).

The submenu items available in the **Resource Administration** window depend on the market selected.

Ports, directory numbers, Virtual Private Networks (VPN) and Closed User Groups (CUG) can be created and deleted. For some markets, ports, directory numbers and storage media can be ordered from external vendors.

Directory numbers can be linked to storage media and HLRs.

All the resources are assigned to sales partners or service providers in order to make them available for assignment to contracts.

Apart from that, it is possible to split number blocks and to change the status of single resources that are deactivated.

Each resource type can be found as a menu item and each menu item has the following submenu items:

Item	Description



Item	Description
AuC Command File CMD	Opens the <a href="#">File Report</a> window.
BID	Opens the <a href="#">Billing Identifier</a> window. You can view BID details of your system.
BID Group	Opens the <a href="#">Billing Identifier Group</a> window in order to view the BID groups in your system.
Block Number Splitting	Opens the <a href="#">Block Number Splitting for &lt;market&gt;</a> window.
CGI Assignment to Serving BIDs	Opens the <a href="#">CGI Assignment to BIDs</a> window in order to search for a BID and view the CGI assignment to this BID in a table.
Change Resource Status	Opens the <a href="#">Change Resource Status</a> window.
Delivery Note	<p><b>Actions</b> menu &gt; <b>Ports</b>:  Opens the <a href="#">Print Delivery Note for Port of &lt;market&gt;</a> and the <a href="#">Print Delivery Note for Storage Medium of &lt;market&gt;</a> windows.</p> <p><b>Actions</b> menu &gt; <b>Directory Numbers</b>:  Opens the <a href="#">Print Delivery Note for Directory Number of &lt;market&gt;</a> window.</p> <p><b>Actions</b> menu &gt; <b>Closed User Groups</b>:  Opens the <a href="#">Print Delivery Note for Closed User Group of &lt;market&gt;</a> window.</p>
Distribute	<p><b>Actions</b> menu &gt; <b>Ports</b>:  Opens the <a href="#">Distribute Storage Medium for &lt;market&gt;</a> and the <a href="#">Distribute Port for &lt;market&gt;</a> windows.</p> <p><b>Actions</b> menu &gt; <b>Directory Numbers</b>:  Opens the <a href="#">Distribute Directory Number for &lt;market&gt;</a> window.</p> <p><b>Actions</b> menu &gt; <b>Closed User Groups</b>:  Opens the <a href="#">Distribute Closed User Group for &lt;market&gt;</a> window.</p>
Exit	Closes the application.
Generate/Delete	<p><b>Actions</b> menu &gt; <b>Ports</b>:  Opens the <a href="#">Generate / Delete Port for &lt;market&gt;</a> window.</p> <p><b>Actions</b> menu &gt; <b>Directory Numbers</b>:  Opens the <a href="#">Generate / Delete Directory Number for &lt;market&gt;</a> window.</p> <p><b>Actions</b> menu &gt; <b>Closed User Groups</b>:</p>

Item	Description
	<p>Opens the <a href="#">Generate / Delete Closed User Group for &lt;market&gt;</a> window.</p> <p><b>Actions</b> menu &gt; <b>VPN</b>:</p> <p>Opens the <a href="#">Generate / Delete Virtual Private Network for GSM</a> window.</p>
Import Resource File	Opens the <a href="#">Import Resource File</a> window.
Linking DNS to HLRs	Opens the <a href="#">Linking of Directory Numbers to HLR for GSM</a> window.
Market	The market for which resources are set up. The menu items of the <b>Actions</b> and the <b>Reports</b> menu become available only if you select a market.
Move Storage Media	Opens the <a href="#">Move Storage Medium and Port from one distribution level to another for &lt;market&gt;</a> window.
Phone Number Assignment to Home BIDs...	Opens the <a href="#">Phone Number Assignment to BIDs</a> window. You can search for a BID and view the phone number assignment to this BID in a table.
Pre-Period Expired	Opens the <a href="#">Directory Numbers with expired Pre-Periods</a> window.
Protocol File PRO	Opens the <a href="#">File Report</a> window.
Purchase Order	<p><b>Actions</b> menu &gt; <b>Ports</b></p> <p>Opens the <a href="#">Purchase Order for &lt;market&gt;</a> window.</p> <p><b>Actions</b> menu &gt; <b>Directory Numbers</b></p> <p>Opens the <a href="#">Purchase Order for &lt;market&gt;</a> window.</p>
Purchase Order Item	Opens the <a href="#">Print Purchase Order Item</a> window.
Purchase Order Receipt	<p><b>Actions</b> menu &gt; <b>Ports</b></p> <p>Opens the <a href="#">Purchase Order Receipt for &lt;market&gt;</a> window.</p> <p><b>Actions</b> menu &gt; <b>Directory Numbers</b></p> <p>Opens the <a href="#">Purchase Order Receipt for &lt;market&gt;</a> window.</p>
Roaming Agreement Group	Opens the <a href="#">Roaming Agreement Group</a> window in order to view the Roaming Agreement Groups in your system.
Status	<p><b>Actions</b> menu &gt; <b>Ports</b>:</p> <p>Opens the <a href="#">Status Report for Storage Medium of &lt;market&gt;</a> and the <a href="#">Status Report for Port of &lt;market&gt;</a> windows.</p> <p><b>Actions</b> menu &gt; <b>Directory Numbers</b>:</p>

Item	Description
	<p>Opens the <a href="#">Status Report for Directory Number of &lt;market&gt;</a> window.</p> <p><b>Actions</b> menu &gt; <b>Closed User Groups:</b></p> <p>Opens the <a href="#">Status Report for Closed User Group of &lt;market&gt;</a> window.</p>

## 4.46 Roaming Agreement Group

A roaming agreement group is a set of roaming agreements which can be submitted to a clearing house. Roaming agreements are defined previously in the **CIBER Roaming Agreement** window.

Refer to **Billing Identifier Group** window for a description of the items in this window.

Item	Shortcut	Description
Group Desc		The abbreviation of the roaming agreement group.
Group Name		The name of the roaming agreement group.
Group_Id		The internal unique key for the roaming agreement group.
Open	CTRL+O	Opens the <b>Edit Roaming Agreement Group</b> window in which you can change the contents of the table.

## 4.47 Service Parameters

Service parameters can be assigned to ports in the following markets:

- ISDN
- X.25
- Leased Line




Item	Description
(list box)	The parameter that can be configured for the port.
Cancel	Cancels the process and returns you to the parent window.
OK	Closes the window and inserts the parameter value in the <b>Parameter</b> text box in the parent window.
Value	The value to be assigned to the port.

## 4.48 Status Report for Closed User Group of GSM

The items described here also apply to the following windows:

- **Status Report for Closed User Group of ISDN market**
- **Status Report for Closed User Group of X.25 data communication**

With this report, you can retrieve information about the status of Closed User Groups (CUG).

Item	Shortcut	Description
		Prints the report.
	CTRL+P	Prints the data area of the window.
		Displays the report in the <b>Report Preview</b> window.
Calculator	CTRL+L	Opens the <b>Calculator</b> window. The calculated result is copied to the text box or table cell where the cursor is positioned.
Clear	DEL	Deletes the contents of the text box in which the cursor is positioned.
Close	F3	Closes the window and returns you to the parent window.
Copy	CTRL+C	Copies the selected object to the clipboard.
Count		The number of items included in the report. This is displayed after clicking the <b>View</b> or the <b>Print</b> icon.
Cut	CTRL+X	Removes the selected object and places it on the clipboard.
Date	CTRL+D	Enters the system date in the text box where the cursor is positioned.
Exit		Closes the application.
Overview of all Dealer/ Provider		The report lists the number of reserved CUGs sorted by sales partners and service providers.  Available only if you selected the <b>reserved</b> radio button.
Paste	CTRL+V	Inserts the contents of the clipboard at the insertion point.
Printer Settings		Opens the <b>Printing parameters</b> window, in which you can adjust the printer settings.
Report Title		This title is displayed as a subtitle on the report, provided that at least one




Item	Shortcut	Description
		matching item is found.
Select one Dealer/ Provider		You have to select a specific sales partner in the <a href="#">Find Dealer / Provider</a> window. The report then lists all CUGs assigned to the sales partner selected.  Available only if you selected the <b>reserved</b> radio button.
Undo	CTRL+Z	Reverses the last command or deletes the last entry you made.
Vanity Number Converter	CTRL+G	Opens the <a href="#">Vanity Number Converter</a> window, in which you can convert a vanity number into the corresponding phone number.
free		The report lists all CUGs that are not assigned to a sales partner or service provider.
reserved		The report lists all CUGs that are assigned to a sales partner or service provider.

#### 4.49 Status Report for Directory Number of GSM

The items described here also apply to the following windows:

- **Status Report for Directory Number of AMPS**
- **Status Report for Directory Number of Intelligent Network Services**
- **Status Report for Directory Number of ISDN market**
- **Status Report for Directory Number of X.25 data communication**

With this status report, you can retrieve information about the status of directory numbers that are assigned to a specific numbering plan and a specific network.

Item	Shortcut	Description
		Prints the report.
	CTRL+P	Prints the data area of the window.
		Displays the report in the <b>Report Preview</b> window.
Clear	DEL	Deletes the contents of the text box in which the cursor is positioned.
Close	F3	Closes the window and returns you to the parent window.




Item	Shortcut	Description
Copy	CTRL+C	Copies the selected object to the clipboard.
Count		The number of items included in the report. This is displayed after clicking the <b>View</b> or the <b>Print</b> icon.
Cut	CTRL+X	Removes the selected object and places it on the clipboard.
Date	CTRL+D	Enters the system date in the text box where the cursor is positioned.
Exit		Closes the application.
Network		The network in which the directory numbers are used.
Numbering plan		The numbering plan and the directory number type assigned to the directory numbers.
Overview of all Dealer/ Provider		<p>The report lists the number of reserved directory numbers sorted by sales partners and service providers.</p> <p>Available only if you selected the <b>reserved</b> radio button.</p>
Paste	CTRL+V	Inserts the contents of the clipboard at the insertion point.
Printer Settings		Opens the <b>Printing parameters</b> window, in which you can adjust the printer settings.
Report Title		This title is displayed as a subtitle on the report, provided that at least one matching item is found.
Select one Dealer/ Provider		<p>You have to select a specific sales partner in the <a href="#">Find Dealer / Provider</a> window. The report then lists all directory numbers assigned to the sales partner or service provider selected.</p> <p>Available only if you selected the <b>reserved</b> radio button.</p>
Undo	CTRL+Z	Reverses the last command or deletes the last entry you made.
Vanity Number Converter	CTRL+G	Opens the <a href="#">Vanity Number Converter</a> window, in which you can convert a vanity number into the corresponding phone number.
free		The report lists all directory numbers that are not assigned to a sales partner or service provider.
reserved		The report lists all directory numbers that are assigned to a sales partner or service provider.

## 4.50 Status Report for Port of Intelligent Network Services

The items described here also apply to the following windows:

- **Status Report for Port of ISDN market**
- **Status Report for Port of Leased Line**
- **Status Report for Port of X.25 data communication**

With the status report you can retrieve information about the status of ports that are assigned to a specific numbering plan and a specific network.

Item	Shortcut	Description
		Prints the report.
	CTRL+P	Prints the data area of the window.
		Displays the report in the <b>Report Preview</b> window.
Select one Dealer/ Provider		<p>You have to select a specific sales partner or service provider in the <a href="#">Find Dealer / Provider</a> window. The report then lists all ports assigned to the sales partner or service provider selected.</p> <p>Available only if you selected the <b>reserved</b> radio button.</p>
Calculator	CTRL+L	Opens the <b>Calculator</b> window. The calculated result is copied to the text box or table cell where the cursor is positioned.
Clear	DEL	Deletes the contents of the text box in which the cursor is positioned.
Close	F3	Closes the window and returns you to the parent window.
Copy	CTRL+C	Copies the selected object to the clipboard.
Count		The number of items included in the report. This is displayed after clicking the <b>View</b> or the <b>Print</b> icon.
Cut	CTRL+X	Removes the selected object and places it on the clipboard.
Date	CTRL+D	Enters the system date in the text box where the cursor is positioned.
Exit		Closes the application.
Network		The network in which the port is used.
Numbering plan		The numbering plan assigned to the port.




Item	Shortcut	Description
Overview of all Dealer/ Provider		The report lists the number of reserved ports sorted by sales partners and service providers.  Available only if you selected the <b>reserved</b> radio button.
Paste	CTRL+V	Inserts the contents of the clipboard at the insertion point.
Printer Settings		Opens the <b>Printing parameters</b> window, in which you can adjust the printer settings.
Report Title		This title is displayed as a subtitle on the report, provided that at least one matching item is found.
Undo	CTRL+Z	Reverses the last command or deletes the last entry you made.
Vanity Number Converter	CTRL+G	Opens the <a href="#">Vanity Number Converter</a> window, in which you can convert a vanity number into the corresponding phone number.
free		The report lists all ports that are not assigned to a sales partner or service provider.
reserved		The report lists all ports that are assigned to a sales partner or service provider.

## 4.51 Status Report for Storage Medium of GSM

The items described here also apply to the following windows:

- **Status Report for Storage Medium of AMPS**
- **Status Report for Storage Medium of Calling Card**
- **Status Report for Storage Medium of CDMA**

With the status report you can retrieve information about the status of storage media that are assigned to a specific numbering plan and a specific network.

Item	Shortcut	Description
		Prints the report.
	CTRL+P	Prints the data area of the window.
		Displays the report in the <b>Report Preview</b> window.



Item	Shortcut	Description
Select one Dealer/ Provider		<p>You have to select a specific sales partner or service provider in the <a href="#">Find Dealer / Provider</a> window. The report then lists all storage media assigned to the sales partner or service provider selected.</p> <p>Available only if you selected the <b>reserved</b> radio button.</p>
Calculator	CTRL+L	Opens the <b>Calculator</b> window. The calculated result is copied to the text box or table cell where the cursor is positioned.
Clear	DEL	Deletes the contents of the text box in which the cursor is positioned.
Close	F3	Closes the window and returns you to the parent window.
Copy	CTRL+C	Copies the selected object to the clipboard.
Count		The number of items included in the report. This is displayed after clicking the <b>View</b> or the <b>Print</b> icon.
Cut	CTRL+X	Removes the selected object and places it on the clipboard.
Date	CTRL+D	Enters the system date in the text box where the cursor is positioned.
Exit		Closes the application.
Network		The network in which the storage medium is used.
Numbering plan		The numbering plan assigned to the storage media.
Overview of all Dealer/ Provider		<p>The report lists the number of reserved storage media sorted by sales partners and service providers.</p> <p>Available only if you selected the <b>reserved</b> radio button.</p>
Paste	CTRL+V	Inserts the contents of the clipboard at the insertion point.
Printer Setup		Opens the <b>Printing parameters</b> window, in which you can adjust the printer settings.
Report Title		This title is displayed as a subtitle on the report, provided that at least one matching item is found.
Undo	CTRL+Z	Reverses the last command or deletes the last entry you made.
Vanity Number Converter	CTRL+G	Opens the <a href="#">Vanity Number Converter</a> window, in which you can convert a vanity number into the corresponding phone number.
free		The report lists all storage media that are not assigned to a sales partner or

Item	Shortcut	Description
		service provider.
reserved		The report lists all storage media that are assigned to a sales partner or service provider.

## 4.52 Vanity Number Converter

Names or words can be used as part of a phone number. You can convert the letters of the name or word into digits to obtain the regular phone number. For example, the vanity number "1-800-Company" would be converted to "1-800-266 7269".

Item	Description
Cancel	Cancels the process and returns you to the parent window.
Clear	Deletes the contents of the text box in which the cursor is positioned.
Convert	Converts the entered vanity number into the corresponding phone number and displays the result in the <b>Phone Number</b> text box.
Ok	Closes the window and returns you to the parent window.
Phone Number	The numerical representation of the vanity number.
Vanity Number	The vanity number which you want to convert into the corresponding phone number.

## 5. RA Interface

RA supports the following interfaces:

- `PPC` files can be exchanged with resource vendors, e.g. SIM card vendors. Some resources can be personalized with special electrical or graphical features. This pre-personalization is usually performed in a Pre-Personalization Center at vendor site. As a default implementation, the format specified by GEMPLUS is supported. The response message of a `PPC` file basically repeats the input message information, but also contains the list of actually used resources. For more information about how to configure `PPC` files, refer to the [ppcfile.dll Interface Description](#).
- Resources can be registered with the network for authentication. `aucfile.dll` allows to customize the layout of the authentication file. `AUC` files are used to register resources with the network. Along with the resources, authentication information is passed which allows a network to check the validity. `AUC` command files contain a list of strings whereby each string represents a SIM card. The response message contains similar information as the input file and additionally the status information that indicates the success or failure of the processing. `AUC` files are created only if configured. As in the case of `PPC` files, there is always an `AUC` command file which is responded by an `AUC` response file. For more information about how to configure `AUC` files, refer to the refer to the [aucfile.dll Interface Description](#).

- `ra_cugpf.dll` is used to return an interlock code which identifies a Closed User Group. For more information, refer to the `ra_cugpf.dll` Interface Description.
- `ra401.dll` is used to return a batch number for ports and markets. It allows to pre-assign capacities to ports in the least line market. `ra401.dll` allows to derive the capacity to port assignment from any information of the port number itself (for example HLR). For more information, refer to the `ra401.dll` Interface Description.
- `clsfydn.dll` is used to classify a directory number as normal, golden, VIP, etc. For more information, refer to the `clsfydn.dll` Interface Description.