

DX 200

Optional Feature Installation

BSC SW S10.5 13.13-0

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Summary of changes

Version	Date	Editor	Note
1.0-0	26-05-2003	Antti Salokoski	First version for S10.5 13.13-0

1 General

This document describes how the new optional features can be installed into a BSC. This document does not describe the actual activation or use of the optional features. Activation and using of the features is described more detailed in Feature Activation Manual which is included in the S10.5 documentation library.

The features can be installed locally at the BSC site or remotely from NMS/2000 site. The common part of the installation is to copy the required files and programs and execute the PRFILE and FIFILE conversion.

2 Installation of the new features

The optional features are delivered on the new diskette labelled *Customer Specific Disk*, *Customer Specific DAT Tape* or *Customer Specific Magneto-optical disk*, which replaces the one in Release Binders.

2.1 Creating new directories

The ASWDIR directory is necessary for the PRFILE and FIFILE conversion. If the directory does not exist in the package, create it using MML-command:

```
ZIWL:<bsc_name>,OMU:WS,DEF::ASWDIR,FF,,<initials>;
```

Also, a new temporary directory PRCONV is necessary during the PRFILEGX conversion. Create the PRCONV directory using MML-command:

```
ZIWL:<bsc_name>,OMU:WS,DEF::PRCONV,10,,<initials>;
```

2.2 Copying new modules to BSC

2.2.1 Copying from floppy disk

Copy the PRFILEGX, FIFILEGX, the customer specific optional feature text files and conversion programs from the new diskette labelled *Customer Specific Disk* to the PRCONV directory. Insert the diskette into the floppy drive and enter the following MML-commands:

```
ZIWY:S:SYSTEM=<bsc_name>,UNIT=OMU,PATH=/,DRIVE=FDU-N0;  
ZIWY:D:SYSTEM=<bsc_name>,UNIT=OMU,PATH=/PRCONV,DRIVE=WDU-S;
```

```
ZIBC:,,PRFILEGX,IMG;  
ZIBC:,,FIFILEGX,IMG;  
ZIBC:,,CID%,TXT;  
ZIBC:,,PRFCNVGX,IMG;  
ZIBC:,,FIFCNVGX,IMG;
```

2.2.2 Copying from DAT tape

Copy the PRFILEGX, FIFILEGX, the customer specific optional feature text files and conversion programs from the new DAT tape labelled *Customer Specific DAT Tape For S10.5 13.13-0 SW* to the PRCONV directory.

Optional feature files for test bed installation are included in S10.5 13.13-0 E5 software delivery.

The DAT tape has the following directory structure:

Customer specific optional features.
File Set: S105_ED

Directory	Contents
ASA_13_13_0/CUST	S10.5 Customer specific files of BSC/BSCi/BSC2/BSC2i
ASA_13_13_0/CUST3I	S10.5 Customer specific files of BSC3i

Conversion programs.

File Set: S105_ED

Directory	Contents
ASA_13_13_0/CONVPR	S10.5 PRFILE and FIFILE Conversion programs

Depending of the type of the BSC, you have to chose, from which directory PRFILE and FIFILE is copied.

Define the source and destination directories for copying optional feature files with the MML-commands:

```

ZIWY:S:SYSTEM=<bsc>,UNIT=OMU,PATH=/ASA_13_13_0/<cust_file_dir>,DRIVE=
CTU-N0;
ZIWY:D:SYSTEM=<bsc>,UNIT=OMU,PATH=/<s105rootdir>/PRCONV,DRIVE=WDU
-S;

```

Insert the DAT tape into the DAT drive and enter the following MML-command:

```
ZIBC:,,,,,,,,,DIR:SSN=S105_ED, SYSTEM=ALL,UNIT=ALL;
```

Define the source and destination directories for copying conversion programs with the MML-commands:

```

ZIWY:S:SYSTEM=<bsc>,UNIT=OMU,PATH=/ASA_13_13_0/CONVPR,DRIVE=CTU-
N0;
ZIWY:D:SYSTEM=<bsc>,UNIT=OMU,PATH=/<s105rootdir>/PRCONV,DRIVE=WDU
-S;

```

```
ZIBC:,,,,,,,,,DIR:SSN=S105_ED,SYSTEM=ALL,UNIT=ALL;
```

2.2.3 Copying from Magneto-optical disk

Copy the PRFILEGX, FIFILEGX, the customer specific optional feature text files and conversion programs from the new diskette labelled **Customer Specific Disk** to the PRCONV directory. Insert the diskette into the Magneto-optical drive and enter the following MML-commands:

```

ZIWY:S:SYSTEM=<bsc_name>,UNIT=OMU,PATH=/ASA_13_13_0/CUST3I,DRIVE=F
DU-N0;
ZIWY:D:SYSTEM=<bsc_name>,UNIT=OMU,PATH=PRCONV,DRIVE=WDU-S;

```

```

ZIBC:,,PRFILEGX,IMG;
ZIBC:,,FIFILEGX,IMG;

```

```
ZIBC:,,CID%,TXT;
```

```
ZIWY:S:SYSTEM=<bsc_name>,UNIT=OMU,PATH=/ASA_13_13_0/CONVPR,DRIVE=FDU-N0;  
ZIWY:D:SYSTEM=<bsc_name>,UNIT=OMU,PATH=PRCONV,DRIVE=WDU-S;
```

```
ZIBC:,,PRFCNVGX,IMG;  
ZIBC:,,FIFCNVGX,IMG;
```

2.2.4 Copying from NMS site

The optional feature modules and conversion programs can be copied from NMS using the features NMS1202 "Software Register" and NMS1205 "Software Archive". For more information on the usage of these features, see in NMS document *"NE SOFTWARE CONFIGURATION MANAGER HELP" TAN 84632*. It is recommended that both features are at least version FN T1367.

The *Customer Specific DAT Tape For S10.5 13.13-0 SW*. First put the DAT tape into the NMS DAT drive. Open application 'NE Software Configuration Manager'. Select **Software Archive** and **-BSC S10 Change Deliveries** from toolbar. Select action **IMPORT** that will copy the contents of the DAT tape under the BSC S10.5 Change Deliveries directory.

Depending of the type of the BSC, you have to chose, which PRFILE and FIFILE is copied to BSC. The other ones must be deleted from NMS before copying files to the BSC. Open a telnet session to the communication server, and delete unnecessary customer specific files:

If BSC type is BSC3i, then BSC/BSCi/BSC2/BSC2i PRFILE and FIFILE must be deleted:

```
rm -R /var/opt/nokianms/global/sw_archive/BSC_S105_CD/ S105_ED/ASA_13_13_0/CUST
```

If BSC type is BSC/BSCi/BSC2/BSC2i, then BSC3i PRFILE and FIFILE must be deleted:

```
rm -R /var/opt/nokianms/global/sw_archive/BSC_S105_CD/ S105_ED/ASA_13_13_0/CUST3I
```

Upload Conversion Programs and Customer Specific files to the BSC.

After the upload, files must be copied to the correct directory:

```
ZIWY:S:SYSTEM=<bsc>,UNIT=OMU,PATH=/<s105rootdir>/CDTEMP,DRIVE=WDU-S;  
ZIWY:D:SYSTEM=<bsc>,UNIT=OMU,PATH=/<s105rootdir>/PRCONV,DRIVE=WDU-S;
```

```
ZIBC:,,PRFILEGX,IMG;  
ZIBC:,,FIFILEGX,IMG;  
ZIBC:,,CID%,TXT;  
ZIBC:,,PRFCNVGX,IMG;  
ZIBC:,,FIFCNVGX,IMG;
```


2.2.5 Downloading files from NOLS to PC

The customers having NOLS contract with Nokia, can download feature files from the NOLS. This chapter provides instructions for downloading and transferring feature files from NOLS to PC and further to BSC with FTP method.

NOTE! Web browser must be Internet Explorer 5.01 SP2 or newer or Netscape Navigator 4.7 or newer.

- Create directory (e.g. S105CSFE) to your PC where you can download and extract feature files
- Go to <http://www.online.nokia.com> with your browser
- Login by using your NOLS- Username and Password
- Choose "Software Distribution" from the right menu
- Choose "Nokia High Capacity Base Station Controller BSC2i" from the bottom of page
- Choose right "Release" by clicking the arrow
- Choose "Customer Specific Software"
- Click the Customers name what you are looking for
- Choose "Download" to get Customer Specific software
- Finally choose "NOLS Logout"

2.2.6 Transferring files from PC to BSC

Note! The TCP/IP feature must be activated in a BSC before you can use these instructions.

These instruction are made for MS-DOS FTP -client use. The BSC must be connected to the same LAN (Local Area Network) than the PC with the downloaded files.

1. Open MS Dos Command Prompt and go to the source directory
2. Check downloaded Customer Specific files size (bytes) exactly, check that capital letters are used in names and check also that filename maximum length is 11 characters.
`C:\>dir`
3. Change the filename to correct format if needed
`C:\>ren`
4. Give IP address of the BSC switch
`ftp xxx.xx.xx.xx`
5. Go to destination directory
`ftp>cd <DIRECTORY>`
6. Set binary transfer mode
`ftp>binary`

7. Allocate needed file space.
ftp>quote allo <Customer Specific files size in (bytes)>
8. Transfer (Customer Specific files.zip) to the DX220.
ftp>put < Customer Specific files.zip>
9. Close ftp connection by giving command:
ftp>bye
10. Extract file(s) from ZIP archive:

```
ZIXX:,WDU-S,/<source_directory>,<archive_name>:,:,WDU-  
SB,/PRCONV:PATHS=N,;;
```

2.3 Setting up conversion environment

Also, DXPFILGX, PRBFILSX and MAFILEGX files are necessary for the conversion. Depending the type of the BSC you have it is necessary to copy either MEF_B2SX or MEF_E2SX file. MEF_B2SX file is used with BSC, BSC2 and in BSC2i. MEF_E2SX file is used with BSC3i. Copy these files into the conversion directory and also copy MAFILE to the LFILES directory using the following MML-commands:

```
ZIWY:S:SYSTEM=<bsc_name>,UNIT=OMU,PATH=LFILES,DRIVE=WDU-S;  
ZIWY:D:SYSTEM=<bsc_name>,UNIT=OMU,PATH=PRCONV,DRIVE=WDU-S;
```

```
ZIBC:,,MEF_B2SX,IMG; or ZIBC:,,MEF_E2SX,IMG;  
ZIBC:,,DXPFILGX,IMG;  
ZIBC:,,PRBFILSX,IMG;
```

```
ZIWY:S:SYSTEM=<bsc_name>,UNIT=OMU,PATH=BLCODE,DRIVE=WDU-S;  
ZIWY:D:SYSTEM=<bsc_name>,UNIT=OMU,PATH=PRCONV,DRIVE=WDU-S;
```

```
ZIBC:,,MAFILEGX,IMG;
```

```
ZIWY:S:SYSTEM=<bsc_name>,UNIT=OMU,PATH=BLCODE,DRIVE=WDU-S;  
ZIWY:D:SYSTEM=<bsc_name>,UNIT=OMU,PATH=LFILES,DRIVE=WDU-S;
```

```
ZIBC:,,MAFILEGX,IMG;
```

2.4 Run conversions

Set the source and destination directories and run the conversion:

```
ZDEY:S::OMU:LFILES:WDU-S;  
ZDEY:D::OMU:PRCONV:WDU-S;
```

```
ZDEE::PRCONV:PRFCNVGX,IMG;  
ZDEE::PRCONV:FIFCNVGX,IMG;
```

If there are any failure printouts, stop the conversion and follow the steps described in the *APPENDICES for BSC S10.5 Implementation procedure* in *S10.5 implementation manual*.

2.5 Copy converted files

Copy the converted files and the customer specific optional feature text file into the LFILES directory:

```
ZIWI:S:SYSTEM=<bsc_name>,UNIT=OMU,PATH=PRCONV,DRIVE=WDU-S;  
ZIWI:D:SYSTEM=<bsc_name>,UNIT=OMU,PATH=LFILES,DRIVE=WDU-SB;  
ZIBC:,,PRFILEGX,IMG;  
ZIBC:,,FIFILEGX,IMG;  
ZIBC:,,CID%,TXT;
```

The customer specific optional feature text file can be used to verify which optional features are installed currently into the PRFILE and FIFILE files. The contents of the files can be seen by entering MML-command:

```
ZIBT:WDU,S,CID%,TXT,,,,A;
```

2.6 Activate new features

In order to activate the new PRFILE and FIFILE into the system, copy the PRFILE and FIFILE from disk to memory of all computer units.

First, check what computer units are found in the BSC using following MML-command:

```
ZUSI:COMP;
```

Copy the PRFILE and FIFILE from disk to the memory of all computer units using following MML-commands:

```
ZDFM:OMU:NAME=PRFILEGX;  
ZDFM:MCMU,<unit_index>:NAME=PRFILEGX;  
ZDFM:BCSU,<unit_index>:NAME=PRFILEGX;
```

```
ZDFM:OMU:NAME=FIFILEGX;  
ZDFM:MCMU,<unit_index>:NAME=FIFILEGX;  
ZDFM:BCSU,<unit_index>:NAME=FIFILEGX;
```

2.7 Delete unnecessary files and conversion directory

Delete MAFILE from LFILES directory using following MML-command:

```
ZIWD::WS,DEF:LFILES:MAFILEGX,IMG;
```

Delete all the files from the conversion directory using following MML-command:

```
ZIWD::WS,DEF:PRCONV:%,%;
```

Finally, delete the conversion directory using following MML-command:

```
ZIWM::WS,DEF::PRCONV;
```