

Release Notes

Prospect® 8.0

Nokia GSM/GPRS 14.1.11.0.20



DOCUMENT CONTROL

Issue Number: 1.0

Issue Date: 07 Aug 2008

Version: 14.1.11.0.20

Build: 02

Project Release Point: RP11

OWNERSHIP & CONFIDENTIALITY

No part of this document may be disclosed orally or in writing, including by reproduction, to any third party without the prior written consent of IBM Corp. This document, its associated appendices, and any attachments remain the property of IBM Corp. and shall be returned upon request.

Table of Contents

1	<i>Description</i> _____	4
2	<i>Supported Platforms</i> _____	5
3	<i>New Features</i> _____	6
4	<i>Resolved Issues</i> _____	11
5	<i>Known Problems</i> _____	12
6	<i>Installation Instructions</i> _____	13
7	<i>Useful Hints</i> _____	20
8	<i>Customer Support</i> _____	23
9	<i>Manifest</i> _____	24

1 Description

This document provides information on Prospect® 8.0 for Nokia GSM/GPRS RP11 Patch 20 (14.1.11.0.20). This is a patch release, which upgrades the GSM module to support MSC version M14.1 and BSS version S13.

This release does not change the recommended Prospect client version or Prospect core version.

The Core version certified against this release is 8.0.4.1.05.

The Client version certified against this release is 8.0.4.0.8.

The Oracle Database version certified against this release is Oracle 9i - 9.2.0.8.

2 Supported Platforms

Complete platform support information for the current release is in the *Prospect Server Preparation Guide*. Complete client hardware and software requirements are in the *Prospect Installation Guide*.

Supported Vendor Software
Nokia MSC M11, M12, M13.2, M13.5, M14.1
Nokia BSS S12.0 Release S11.0, S11.5 Phase 2, S12.0, S13
Nokia SGSN GSM/GPRS SG4.0, SG5.0, SG5.1
Nokia GGSN 1.0 2.2, 3.0, 4.0, 4.1
Nokia MGW U2, U3B/U3C (selected counters)

3 New Features

3.1 Vendor Upgrade – Nokia GSM

This release adds support for performance statistics for MSC M14.1 and BSS S13 data.

Entity	Object Name	Counter Status	Technology
ACCESS	RNS_PS_LULAC_ACCESS1_RAW	New entity	GSM
BSC	RBS_PS_CCPM_CCPM_RAW	New object	GSM
BSC	RBS_PS_PCUUTIL_PCU_RAW	New object	GSM
BTS	RBS_PS_AMRSIG_BTS_RAW	New object	GSM
BTS	RBS_PS_HO_EBTS_RAW	New object	GSM
BTS	RBS_PS_PCU_BTS_RAW	New object	GSM
BTS	RBS_PS_RESAVAIL_EBTS_RAW, RBS_PS_RESAVGPR_EBTS_RAW	New object	GSM
BTS	RBS_PS_TRAFFIC_EBTS_RAW	New object	GSM
D_Channel	RBS_PS_ABISDCH_TRX_RAW	New entity	GSM
MSC	RNS_PS_GVLR_MSC_RAW	New object	GSM
MSC	RNS_PS_MGWCM_MSC_RAW	New object	GSM
MSC	RNS_PS_SIMCMSC_MSC_RAW	New object	GSM
MSC	RNS_PS_TRFO_MSC_RAW	New object	GSM
NBCell_HO	RBS_PS_PBS_CI_RAW	New object	GSM
PMGW	RNS_PS_SIMCMGW_PMGW1_RAW	New entity	GSM
PMGW_TCAT	RNS_PS_MGWTCP_TCAT2_RAW	New entity	GSM
TRX	RBS_PS_AMRPPC_TRX_RAW	New object	GSM
TRX	RBS_PS_POWER_TRX_RAW, RBS_PS_POTRX_TRX_RAW	New object	GSM
VMGW_TCAT	RNS_PS_MGWTCV_TCAT3_RAW	New entity	GSM
VMSC	RNS_PS_VMST_VMST1_RAW	New object	GSM

Refer to the scope document for a complete list of new and changed counters.

Note: There are 36 missing counters (out of total 55) from the MSC sample data, and 200 missing counters (out of total 229) from BSC sample data provided by customer. As such, no testing has been performed on those missing counters:

MSC missing counters	BSC missing counters
INTRA_VLR_LOC_UPDATE_ATTEMPT	FCD_RELEASE_AFTER_FCD_HO_ATT
INTRA_VLR_LOC_UPDATE_SUCCESS	CL_2_SUBS_FORCED_RELEASE
INTER_VLR_LOC_UPDATE_ATTEMPT	TCH_REQUESTS_CALL_ATT_CL_1
INTER_VLR_LOC_UPDATE_SUCCESS	SUCC_TCH_SEIZ_CALL_ATT_CL_1
PERIODIC_LOC_UPDATE_ATTEMPT	TCH_REQUESTS_CALL_ATT_CL_2
PERIODIC_LOC_UPDATE_SUCCESS	SUCC_TCH_SEIZ_CALL_ATT_CL_2
IMSI_ATTACH_ATTEMPT	TCH_REQUESTS_CALL_ATT_CL_3
IMSI_ATTACH_SUCCESS	SUCC_TCH_SEIZ_CALL_ATT_CL_3
IE_VLR_LU_REROUTE	DR_TRAU_DG_ATT_IN_AMR_HO
DATA_MISSING_IN_LU_PER_LAC_VAL	DR_TRAU_DG_ATT_FAILED
CODEC_NEGOTIATION_ATTEMPT	DR_TRAU_UG_ATT_IN_AMR_HO
SUCCESSFUL_CODEC_NEGOTIATION	DR_TRAU_UG_ATT_FAILED
CODEC_MODIFICATION_ATTEMPT	SEIZ_AMR_FR_TO_HR
SUCCESSFUL_CODEC_MODIFICATION	SEIZ_AMR_HR_TO_FR
TRFO_ALL_TIME_WBAMR	INT_AMR_HO_TO_EXT
VMSC_MO_SM_ATT	SUCC_LRTCH_SEIZ
VMSC_MO_SM_SUCC	BCCH_DOWNTIME
VMSC_MT_SM_ATT	BCCH_UPTIME
VMSC_MT_SM_SUCC	SUCC_HO_FROM_LRTCH_TO_NORM
MGWTCAT_CALL_ATTEMPTS	HO_ATT_FROM_LRTCH_TO_EXT
MGWTCAT_CALL_ATTEMPTS_RINGING	SUCC_HO_FROM_LRTCH_TO_EXT
MGWTCAT_CALL_ATTEMPTS_ANSWERED	HO_ATT_DUE_TO_IBHO_TO_GSM
MGWTCAT_CC_GROUP1	HO_ATT_DUE_TO_IBHO_TO_UTRAN
MGWTCAT_CC_GROUP2	HO_ATT_DUE_TO_INT_HO_TO_EXT
MGWTCAT_CC_GROUP3	HO_ATT_DUE_TO_DTM_MO_CS_TO_PS
MGWTCAT_CC_GROUP4	HO_ATT_DUE_TO_DTM_MT_CS_TO_PS
MGWTCAT_CC_GROUP5	HO_ATT_DUE_TO_DTM_MT_PS_TO_PS
MGWTCAT_CC_GROUP6	HO_ATT_DUE_TO_DTM_PS_TO_CS
MGWTCAT_CC_GROUP7	HO_ATT_DUE_TO_DTM_DISABLED
MGWTCAT_CC_GROUP8	HO_ATT_DUE_PCU_QUAL_CONTROL
MGWTCAT_SUCCESSFUL_TRAFFIC	HO_ATT_DUE_DTM_NO_PS_RES_AV
MGWTCAT_ANSWERED_TRAFFIC	ESTAB_INT_TO_INC_EXT_HO
MGWTCAT_TOTAL_TRAFFIC	ESTAB_INC_EXT_ISHO
MGWTCAT_DATA_PROV_RESTARTED	ESTAB_INC_EXT_DTM_HO_DUE_NO_RESOURCE
SIMUL_DATA_PROV_RESTARTED	ESTAB_INC_EXT_DTM_HO_DUE_TRAFFIC
MGWC_DATA_PROV_RESTARTED	INTRA_HO_FROM_LRTCH_TO_NORMAL_AREA
	INTRA_HO_FROM_LRTCH_TO_EXT_AREA
	WEIGHTED_DL_ALLOC_EDGE_4_NUM
	WEIGHTED_DL_ALLOC_EDGE_4_DEN
	WEIGHTED_DL_ALLOC_EDGE_NUM
	WEIGHTED_DL_ALLOC_EDGE_DEN
	WEIGHTED_DL_ALLOC_GPRS_NUM
	WEIGHTED_DL_ALLOC_GPRS_DEN
	WEIGHTED_UL_ALLOC_EDGE_NUM
	WEIGHTED_UL_ALLOC_EDGE_DEN
	WEIGHTED_UL_ALLOC_EDGE_4_NUM
	WEIGHTED_UL_ALLOC_EDGE_4_DEN
	RLC_RETR_DL_CS1_DUE_OTH_NACK
	RLC_RETR_DL_CS2_DUE_OTH_NACK
	DL_CS1_DATA_FOR_DUMMY_LLC
	IGNOR_RLC_BL_UL_DUE_BSN_CS1
	IGNOR_RLC_BL_UL_DUE_BSN_CS2

ONE_PH_UL_GPRS_TBF_ESTAB_REQ
ONE_PH_UL_EGPRS_TBF_ESTAB_REQ
ONE_PH_UL_GPRS_TBF_ESTAB_SUCC
ONE_PH_UL_EGPRS_TBF_ESTB_SUCC
TBF_SERVICE_AREA_REALLOC
TBF_SERVICE_AREA_REALLOC_FAIL
EXT_PCU_INIT_PAGE
NO_ANSWER_TO_EXT_PCU_PAGE
DISC_UL_LLC_PDU_INV_NRI
DL_TBF_DATA_ATTEMPTS
DL_TBF_DATA_FAILURES
DL_LLC_TRANSF_DELAY_SUM
DL_LLC_DELAY_FRAME_DENOM
DL_LLC_DELAY_FRAME_BYTES_TOT
DL_RLC_DATA_FOR_DUMMY_LLC_0
DL_RLC_DATA_FOR_DUMMY_LLC_1
DL_RLC_DATA_FOR_DUMMY_LLC_2
DL_RLC_DATA_FOR_DUMMY_LLC_3
DL_RLC_DATA_FOR_DUMMY_LLC_4
DL_RLC_DATA_FOR_DUMMY_LLC_5
DL_RLC_DATA_FOR_DUMMY_LLC_6
DL_RLC_DATA_FOR_DUMMY_LLC_7
DL_RLC_DATA_FOR_DUMMY_LLC_8
DL_RLC_DATA_FOR_DUMMY_LLC_9
DL_RLC_DATA_FOR_DUMMY_LLC_10
RLC_RETR_DL_DUE_OTH_NACK_0
RLC_RETR_DL_DUE_OTH_NACK_1
RLC_RETR_DL_DUE_OTH_NACK_2
RLC_RETR_DL_DUE_OTH_NACK_3
RLC_RETR_DL_DUE_OTH_NACK_4
RLC_RETR_DL_DUE_OTH_NACK_5
RLC_RETR_DL_DUE_OTH_NACK_6
RLC_RETR_DL_DUE_OTH_NACK_7
RLC_RETR_DL_DUE_OTH_NACK_8
RLC_RETR_DL_DUE_OTH_NACK_9
RLC_RETR_DL_DUE_OTH_NACK_10
IGNOR_RLC_DATA_UL_DUE_BSN_0
IGNOR_RLC_DATA_UL_DUE_BSN_1
IGNOR_RLC_DATA_UL_DUE_BSN_2
IGNOR_RLC_DATA_UL_DUE_BSN_3
IGNOR_RLC_DATA_UL_DUE_BSN_4
IGNOR_RLC_DATA_UL_DUE_BSN_5
IGNOR_RLC_DATA_UL_DUE_BSN_6
IGNOR_RLC_DATA_UL_DUE_BSN_7
IGNOR_RLC_DATA_UL_DUE_BSN_8
IGNOR_RLC_DATA_UL_DUE_BSN_9
IGNOR_RLC_DATA_UL_DUE_BSN_10
SPARE072236
SPARE072237
SPARE072238
SPARE072239
SPARE072240
SPARE072241
SPARE072242
SPARE072243
SPARE072244
SPARE072245
SPARE072246

SPARE072247
SPARE072248
SPARE072249
EMERGENCY_LR_TO_LB_IF
FAILED_EME_LR_IN_LB_TIMEOUT
FAILED_EME_LR_IN_LB_CONGEST
FAILED_EME_LR_IN_LB_CONNECT
FAILED_EME_LR_IN_LB_MSC_ABORT
FAILED_EME_LR_IN_LB_BSC_ABORT
PEAK_RESERVED_PCUPCM_CH
PEAK_OCCUPIED_PDTCH_UL
PEAK_OCCUPIED_PDTCH_DL
UL_RX_QUAL_POWER_CL_0
UL_RX_QUAL_POWER_CL_0_DENOM
DL_RX_QUAL_POWER_CL_0
DL_RX_QUAL_POWER_CL_0_DENOM
UL_RX_QUAL_POWER_CL_1
UL_RX_QUAL_POWER_CL_1_DENOM
DL_RX_QUAL_POWER_CL_1
DL_RX_QUAL_POWER_CL_1_DENOM
UL_RX_QUAL_POWER_CL_2
UL_RX_QUAL_POWER_CL_2_DENOM
DL_RX_QUAL_POWER_CL_2
DL_RX_QUAL_POWER_CL_2_DENOM
UL_RX_QUAL_POWER_CL_3
UL_RX_QUAL_POWER_CL_3_DENOM
DL_RX_QUAL_POWER_CL_3
DL_RX_QUAL_POWER_CL_3_DENOM
UL_RX_QUAL_POWER_CL_4
UL_RX_QUAL_POWER_CL_4_DENOM
DL_RX_QUAL_POWER_CL_4
DL_RX_QUAL_POWER_CL_4_DENOM
UL_RX_QUAL_POWER_CL_5
UL_RX_QUAL_POWER_CL_5_DENOM
DL_RX_QUAL_POWER_CL_5
DL_RX_QUAL_POWER_CL_5_DENOM
UL_RX_QUAL_POWER_CL_6
UL_RX_QUAL_POWER_CL_6_DENOM
DL_RX_QUAL_POWER_CL_6
DL_RX_QUAL_POWER_CL_6_DENOM
UL_RX_QUAL_POWER_CL_7
UL_RX_QUAL_POWER_CL_7_DENOM
DL_RX_QUAL_POWER_CL_7
DL_RX_QUAL_POWER_CL_7_DENOM
UL_RX_QUAL_POWER_CL_8
UL_RX_QUAL_POWER_CL_8_DENOM
DL_RX_QUAL_POWER_CL_8
DL_RX_QUAL_POWER_CL_8_DENOM
UL_RX_QUAL_POWER_CL_9
UL_RX_QUAL_POWER_CL_9_DENOM
DL_RX_QUAL_POWER_CL_9
DL_RX_QUAL_POWER_CL_9_DENOM
UL_RX_QUAL_POWER_CL_10
UL_RX_QUAL_POWER_CL_10_DENOM
DL_RX_QUAL_POWER_CL_10
DL_RX_QUAL_POWER_CL_10_DENOM
UL_RX_QUAL_POWER_CL_11
UL_RX_QUAL_POWER_CL_11_DENOM

DL_RX_QUAL_POWER_CL_11
DL_RX_QUAL_POWER_CL_11_DENOM
UL_RX_QUAL_POWER_CL_12
UL_RX_QUAL_POWER_CL_12_DENOM
DL_RX_QUAL_POWER_CL_12
DL_RX_QUAL_POWER_CL_12_DENOM
UL_RX_QUAL_POWER_CL_13
UL_RX_QUAL_POWER_CL_13_DENOM
DL_RX_QUAL_POWER_CL_13
DL_RX_QUAL_POWER_CL_13_DENOM
UL_RX_QUAL_POWER_CL_14
UL_RX_QUAL_POWER_CL_14_DENOM
DL_RX_QUAL_POWER_CL_14
DL_RX_QUAL_POWER_CL_14_DENOM
UL_RX_QUAL_POWER_CL_15
UL_RX_QUAL_POWER_CL_15_DENOM
DL_RX_QUAL_POWER_CL_15
DL_RX_QUAL_POWER_CL_15_DENOM
REP_ACCH_MS_TCH_SEIZURES
UL_SACCH_SOFT_COMBININGS
DL_SACCH_REPEATINGS
UL_SACCH_REPEAT_REQUESTS
DL_FACCH_REPEATINGS
DL_FACCH_NON_REPEATINGS
INTRA_CELL_HO_TO_EXT
D_CHANNEL_RATE
DL_FRAME_ERRORS
DL_OCTETS
UL_FRAME_ERRORS
UL_OCTETS
UL_I_FRAME_OCTETS
UL_UI_FRAME_OCTETS

4 Resolved Issues

Following is a list of problems present in the previous release that have been resolved.

<i>DDTS / PMR / APAR</i>	<i>Description</i>
SEAd63467 / SRS 37054	<p>The filenames displayed by <code>pmtop</code> from the BSS and SGSN loaders were truncated, as they would not fit into the available space on the screen. They included a directory name, which was constant. Therefore, in this release, <code>pmtop</code> no longer displays the directory, leaving more room for the filename.</p> <p>The filename shown by <code>pmtop</code> is that of the <code>.tar.gz</code> file.</p>
SEAd67700	<p>If a file processed by the BSS or SGSN loader failed to load because of an Oracle error, then reloading it after fixing the cause of the Oracle error would have no effect. The loader log would contain a message <code>WARN : No new data to output</code>. This is a safeguard to ensure that late files do not overwrite previously-loaded data with nulls.</p> <p>A workaround was to find the file in the <code>remediate</code> directory that corresponds to the data file that failed to load, and delete it before trying to reload the file. Identifying this file could be difficult. It contains all data for the appropriate network element and timestamp, and so deleting it could cause further problems if late files subsequently arrive.</p> <p>This release changes the BSS and SGSN loaders so that if an Oracle error occurs when loading a file, the loaders do not update the file in the <code>remediate</code> directory. Therefore, if you fix the cause of the Oracle error and reload the failed file(s), they will load without any further action.</p>

5 Known Problems

Please refer to the release notes for Nokia GSM/GPRS RP11 (13.6.0.11.0.0) for known issues.

6 Installation Instructions

6.1 Prerequisites

This release requires a Prospect system running Nokia GSM/GPRS RP11 (13.6.11.0.0) or RP11 patch 10 (13.6.11.0.10).

6.1.1 Network Timeouts

If your system has a security policy in place such that a session is disconnected after a lengthy period of apparent inactivity, you should disable it during this installation. The installation can take a few hours to run and requires no user input during the majority of the installation. This can make the session appear idle. If timeouts are not disabled, the terminal could be disconnected during the install.

6.1.2 Baseline Requirements

The base environment that this upgrade will be applied against:

- Prospect® 8.0 Nokia GSM/GPRS RP11 (13.6.11.0.0)

The following patch is optional:

- Prospect® 8.0 Nokia GSM/GPRS RP11 patch 10 (13.6.11.0.10)

You can check this by running the following command:

```
$ show_installed
```

The output should be similar to the following:

COMPONENT	INSTALL_TY	INSTALL_DATE
CORE Prospect rev 8.0.4.1 b5	INSTALL	07-OCT-04 16:55:25
VENDOR NokGSM rev 13.6.11.0.0 b2	INSTALL	07-OCT-04 20:55:20
VENDOR NokMGW rev 13.6.11.0.0 b2	UPGRADE	07-OCT-04 23:51:49
VENDOR NokPktCore rev 13.6.11.0.0 b2	UPGRADE	07-OCT-04 23:01:56

The version numbers (rev) of CORE Prospect and VENDOR module should be greater than or equal to those shown. The build numbers (e.g. b1, b2 or b3, etc) might be different. The install type (INSTALL, PATCH or UPGRADE) is not important. The install dates and times will be different from those shown.

It is critical that this upgrade is installed to an environment at the correct hot fix and upgrade level. Please verify the environment carefully. For more information, please contact customer support.

6.1.3 Disk Requirement

The installation of the patch requires additional 500 MB disk space under /u01 file system.

The install script also requires that at least 10% of total tablespace size is available for each tablespace. Please contact customer support if there is less than 10% of total tablespace available for any of the tablespaces.

Copyright © 2008 IBM Corporation and/or its subsidiaries. All rights reserved.

6.1.4 XDK

The Oracle Database must have XDK installed. Log into the database using SQL*Plus:

```
$ sqlplus $DB_CONNECT
```

Please use the following sql statement to check if the XDK is installed accordingly. Oracle XDK for Java should be there in the result. The version must be 9.2.0.x.

```
SQL> SELECT comp_id, comp_name, version FROM dba_registry;
COMP_ID COMP_NAME VERSION
```

```
-----
"
"
XML Oracle XDK for Java 9.2.0.10.0
"
```

6.1.5 Perl Version

Make sure that Perl version 5.6.1 is installed. Type the following command:

```
$ /usr/bin/env perl -v
```

The first line of output should start with:

```
This is perl, v5.6.1 ...
```

If Perl is not installed, or is an earlier version than required, some scripts will not run, or might produce incorrect results.

6.1.6 Java Version

Make sure that Java version 1.4.2 is installed. Type the following command:

```
$ java -version
```

The first line of output should resemble:

```
java version "1.4.2_12"
```

If Java is not installed, or is an earlier version than required, some scripts will not run, or might produce incorrect results.

6.1.7 System Backup

This patch cannot be uninstalled. Back up the Prospect system, including the Oracle schema, before applying the patch.

6.1.8 Installation Privileges Required

Privilege	Required
UNIX flexpm user in DBA group	Yes
Root privilege required	No
Oracle sys user password set to default (change_on_install)	Yes

6.1.9 Note Schedule_maint Settings

If the middleware is down for an extended period of time, the script `schedule_maint` could display some jobs as not scheduled. Thus the jobs will not run and the system will fail.

Before the upgrade, run `schedule_maint` to get a list of the current schedule settings. Make a note of the next run time of each job.

6.1.10 Oracle Sys Account Access

Prospect 8.0 requires that all logins using the `sys` account must be qualified `as sysdba`. The following Oracle changes are required.

1. Verify that the change is needed. Connect to the Prospect server from a remote system (for example, using `telnet` or `ssh`), and then try to log in using `sqlplus`:
 - o If you can log in, you can skip the rest of this procedure.
 - o If you get an error concerning privileges, then you need to continue with the following steps.
2. Set the `remote_login_passwordfile` parameter in the `init<sid>.ora` file. On most Prospect systems the `sid` is `flexpm`. Log in as the oracle user, and then enter the following command.

```
$ cd $ORACLE_BASE/admin/flexpm/pfile
```

3. Edit the `init<sid>.ora` file (for example, `initflexpm.ora`) and add the following line.


```
remote_login_passwordfile=EXCLUSIVE
```
4. Create the Oracle password file to allow remote `sys` access. While still logged in as the oracle user verify that `$ORACLE_HOME` and `$ORACLE_SID` are correct, then enter the following command.

```
$ orapwd file=${ORACLE_HOME}/dbs/orapw${ORACLE_SID} \
password=change_on_install entries=10
```

5. Bounce the database so that the parameter and password file take effect. If you get an error concerning the `passwordfile`, verify that it is in the `dbs` directory and that the filename is `orapwflexpm`.
6. To verify that the changes has been taken. Rerun step 1.

6.2 Installation Instructions

1. If this Prospect system is associated with a Prospect Web system, it is advisable to use the Prospect Web Administration Tool to disable the `datasource` associated with this Prospect system. See the Prospect Web Administration Guide for more information.
2. Log on as user `flexpm` and source the `.profile`
3. Stop the middleware if it is running.

```
$ ps-mgr stop all
```

Copyright © 2008 IBM Corporation and/or its subsidiaries. All rights reserved.

```
$ ps-mgr halt
```

- Download and copy the TAR package to be installed on to the appropriate Prospect Server into a staging directory, for example,

```
$ mkdir /var/tmp/14.1.11.0-TIV-PROSPECT-GGNOK-IF0020
```

- Move to the newly-created directory.

```
$ cd /var/tmp/14.1.11.0-TIV-PROSPECT-GGNOK-IF0020
```

- Untar the TAR package using the following command:

```
$ tar -xvf 14.1.11.0-TIV-PROSPECT-GGNOK-IF0020.tar
```

- Run the installation tool with PREVIEW option by typing the following command and examine the output for any abnormal messages. Please contact customer support if you need any help.

```
$ ./wminstall -b $FLEXPM_BASE -i ProspectBase -core_spec core.spec -portbase $PORT_GROUP -d $DB_CONNECT -preview -v
```

The output of the command line should be the same as following. Look for the word **UPGRADE** in the output.

```
+-----+
| Vendor Tarball :
| Module - NokGSM, version - 14.1.11.0.20.2 : All prerequisites met
| FlexPM-NokiaGSM_14.1.11.0.20.tgz : UPGRADE - VENDOR - 14.1.11.0.20.2
+-----+
| Vendor Tarball :
| Module - NokPktCore, version - 14.1.11.0.20.2 : All prerequisites met
| FlexPM-NokiaPktCore_14.1.11.0.20.tgz : UPGRADE - VENDOR - 14.1.11.0.20.2
+-----+
```

If the output from the preview contains no errors, install the application by running the same command again, but without the `-preview` option.

```
$ ./wminstall -b $FLEXPM_BASE -i ProspectBase -core_spec core.spec -portbase $PORT_GROUP -d $DB_CONNECT -v
```

- A license agreement is displayed. Use the scroll bar to read the complete text if it does not display in the window. Enter `yes` (case sensitive) to continue with the installation. The installation aborts if you do not enter `yes`.

Note:

The installation might take a while to complete. The main terminal where the install command is executed seems to hang occasionally at the `INSTALL` section for each module. The log file (with a file name like `<YYYY>__<MM>__<DD>__<HH>__<MM>__<SS>`) under `/var/tmp` can be viewed from another console during the installation to monitor the installation progress. The date changes as each module installs.

- After `wminstall` is completed, examine the `detail.log` under the directory `$FLEXPM_HOME/audit/<YYYY>__<MM>__<DD>__<HH>__<MM>__<SS>__<running_number>` for any error messages.

6.3 Post-Installation Instructions

6.3.1 Re-resource the Profile

Log out and log back in as user flexpm.

Check the current installed modules by running `show_installed`

```
$ show_installed
```

The output should be similar to the following:

COMPONENT	INSTALL_TY	INSTALL_DATE
CORE Prospect rev 8.0.4.1 b5	INSTALL	08-FEB-13 14:29:33
VENDOR NokGSM rev 14.1.11.0.20 b2	UPGRADE	08-FEB-13 16:52:29
VENDOR NokPktCore rev 14.1.11.0.20 b2	UPGRADE	08-FEB-15 14:49:51
VENDOR NokMGW rev 13.6.11.0.10 b1	UPGRADE	08-FEB-15 14:54:27

The VENDOR modules for NokGSM and NokPktCore should be at 14.1.11.0.20.

Note: Other modules might be listed; these are not important. The version numbers (*rev*) should be the same as those shown. The build numbers (e.g. b1, b2 or b3, etc) might be different. The install type (INSTALL, PATCH or UPGRADE) is not important. The install dates and times will be different from those shown.

6.3.2 Check Database for Invalid Objects

After an upgrade or fresh install finishes, it is useful to check for any invalid objects in the database. Log into the database using SQL*Plus:

```
$ sqlplus $DB_CONNECT
SQL> select object_type, object_name from user_objects where
status='INVALID' and object_type != 'VIEW';
```

This should produce the output:

```
no rows selected
```

If the above SELECT statement outputs some rows, please recompile the schema. Use the correct value for *schema_name* (in UPPERCASE) if it differs from below:

```
SQL> execute dbms_utility.compile_schema('schema_name',FALSE);
```

If your *schema_name* is FLEXPM, you can use the command as below:

```
SQL> execute dbms_utility.compile_schema('FLEXPM',FALSE);
```

6.3.3 Configure Time Zone Region

For further information on Time Zone Regions please refer to the Prospect Administration Guide.

This can be configured as follows:

1. Review your current Time Zone Region. If your time zone information is correct, skip to [6.3.3](#).

```
$ set_tzr.sh -t
```

Copyright © 2008 IBM Corporation and/or its subsidiaries. All rights reserved.

```
Connected.
```

```
Greenwich Mean Time
```

2. Review the list of available Time Zone Regions:

```
timezoneregion.sh -t
```

```
Connected.
```

```
America/Anchorage      -540 [1] First Sunday on or after Mar 8 at
02:00 ... First Sunday in Nov at 02:00, 60 minutes
America/Buenos Aires  -180
America/Caracas        -240
America/Chicago        -360 [1] First Sunday on or after Mar 8 at
02:00 ... First Sunday in Nov at 02:00, 60 minutes
America/Denver         -420 [1] First Sunday on or after Mar 8 at
02:00 ... First Sunday in Nov at 02:00, 60 minutes
America/Honolulu       -600
America/Indianapolis  -300
America/Lima Peru      -300
America/Mexico City    -480 [1] First Sunday on or after Mar 8 at
02:00 ... First Sunday in Nov at 02:00, 60 minutes
America/New York       -300 [1] First Sunday on or after Mar 8 at
02:00 ... First Sunday in Nov at 02:00, 60 minutes
America/Noronha        -120
```

```
...
```

3. Set your Time Zone Region using one of the existing options:

```
$ set_tzr.sh -n "America/Seattle"
```

```
Connected.
```

```
OK: America/Seattle
```

6.3.4 Start the Middleware

Enter the following command to restart the middleware:

```
$ ps-mgr init
```

6.3.5 Check schedule_maint Settings

After the middleware has been restarted, run `schedule_maint` to check the next run time of the scheduled jobs. If any of the jobs display the next run time as "job not scheduled," then run `schedule_maint` and update the values to an appropriate future time based on the settings you recorded in Section 6.1.9.

For example, to set the `pm_daily` job to run at 1:00 am on 1 May 2006.

```
$ schedule_maint pm_daily 20060501 0100
```

Note: Remember to enter a time in the future. If you are unsure of appropriate times then please contact customer support.

6.3.6 Enable Datasource in Prospect Web

If this Prospect system is associated with a Prospect Web system and you disabled the datasource in section [6.2](#) step 1, then use the Prospect Web Administration Tool to enable the datasource with this Prospect system.

6.4 Uninstallation Procedure

The patch cannot be uninstalled. This patch involves updates to the database or the metadata, therefore recovery from backup is the only way to reverse the changes made by this patch. You must perform a full system backup before installing this patch. If needed, please refer to the "Backing up the Database" section of the *Prospect Administration Guide*. Please contact customer support if you require further support.

7 Useful Hints

7.1 Prospect Single Compatibility

This release features a single, uniform client for all vendor versions.

Users of the Prospect system have expressed the need to connect to all Prospect servers with a single client. Several customers have installed multiple Prospect servers, which cover several different vendor technologies. Two key benefits to the single client are:

- Reduced number of clients that your IT department need to install
- Reduced confusion among users over which Prospect client should be used with which Prospect server.

The single Prospect client supports Prospect servers co-released with the client and a defined number of server versions released before the client. Prospect servers released after the client are not supported (that is, the Prospect client is not forward-compatible). Contact your customer support representative to identify the server versions that your client supports.

This feature removes support for two or more Prospect clients installed on the same PC. Side-by-side installations were originally supported because the Prospect client was not backward compatible with older versions of the server. Full support for backward compatibility removes the need for side-by-side support.

7.2 Ports Used by the Prospect Client

The Prospect client uses two ports to connect to the Prospect server:

- **FX port** — Most queries from the Prospect client, status monitor, Auto Downloader, and DSMonitor (DSMonitor is a process that registers for updates from the DataServer) use this port. By default the FX port number is the base port plus four (4). For example, if the base port is 6440, the FX port would be 6444.
- **Event port** — DSMonitor and Prospect Alarm use this port. By default the Event port number is the base port plus three (3). For example, For example, if the base port is 6440, the Event port would be 6443.

If you have closed the ports required by the Prospect client for security reasons, or if you are using these ports for other services, you need to either re-open or re-assign them to the Prospect FX and Event ports. Otherwise, the ability for the Prospect client to be able to communicate with the Prospect server is compromised.

To determine which port numbers are required for your system, log on as `flexpm` and run the following commands:

```
$ echo $FX_DS_PORT
$ echo $EVENT_PORT
```

7.3 BSC to MSC Mapping (for Nokia BSC and Non-Nokia MSC)

The CFG files must be loaded into `$PROSPECT_HOME/..ftpIN/NokGSM_CFG` before loading any BSC data. Data files will not load if this step is skipped.

If a BSC is associated to non-Nokia MSC (e.g. Nokia BSC and Nortel MSC) then you must update the following mapping file:

Copyright © 2008 IBM Corporation and/or its subsidiaries. All rights reserved.

```
$PROSPECT_HOME/NokiaGSM_loader/CFG/data/BSCMSCMapping.txt
```

before loading the CFG files.

This mapping file has four columns separated by commas, as shown below:

```
<OSS ID>,<BSC Name>,<MSC Name>,<MSC ID>
```

This file is needed because CFG files do not have all the information to establish the relationship between a Nokia BSC and a non-Nokia MSC (both are not from same vendor, e.g. Nokia BSC and Nortel MSC).

The following section describes the procedure to update BSCMSCMapping.txt file. For example, a BSC file is named as follows:

```
99_NOR01_BSC724669.200709280800.ATL6.1190968705971.tar.gz
```

Where NOR01 is MSC Name, 724669 is BSC Id, and ATL6 is OSS Id.

From the BSC file name, you can obtain the

- MSC Name
- BSC ID
- OSS ID

To complete the BSCMSCMapping.txt you must obtain the

- BSC Name, from the CFG file.
- MSC ID, from the ne_list

Getting the MSC ID

Using the MSC Name (NOR01) from the filename as the value given to `grep` the `ne_list`, the matching MSC ID (in this case, 900900) appears.

```
$ showNE|grep NOR01
NOR01                99  900900          M12  MSC900900.
NokGSM                MSC
```

If this MSC does not exist in the `ne_list` then add it.

Nokia BSC and Nokia MSC (getting the BSC Name)

Given a BSC file name:

```
15_MMB02_BSC706135.200709280800.ATL6.1190968586306.tar.gz
```

From the BSC file name, 706135 is the BSC Id, MMB02 is the MSC Name, and ATL6 is the OSS Id/name.

Use the BSC ID to `grep` the CFG file to obtain the BSC Name:

```
$ grep 706135 15.20070928.ATL6.CFG
,,,0,,,,,,,,,,,,,5348,,,,,1464,BBX02,,,,,3,706135,1,,,0,,,,
,,,0,,,,,,,,,,,,,18492,,,,,0,BBX02,,,,,717,706135,5348,,,0,,,,
```

If the 20th column is non-zero and the 25th column is 3, it means this is Nokia BSC associated to Nokia MSC (BSC Name=BBX02). Since the BSC and MSC are from the same vendor, Nokia, the mapping file does not need modification.

Nokia BSC and Non-Nokia MSC

Suppose if you have a BSC file name:

```
99_NOR01_BSC724669.200709280800.ATL6.1190968705971.tar.gz
```

From the BSC file name, 724669 is the BSC ID, NOR01 is the MSC Name, and ATL6 is the OSS ID/name.

Use the BSC ID to search the CFG file:

```
$ grep 724669 15.20070928.ATL6.CFG
,,,0,,,,,,,,,,,,,5341,,,,,0,BJX15,,,,,3,724669,1,,,,0,,,,,
,,,0,,,,,,,,,,,,,54579,,,,,0,BJX15,,,,,717,724669,5341,,,,0,,,,,
```

If the 20th column is 0 and the 25th column on the first line is 3 it means it is a Nokia BSC but non-Nokia MSC (BSC Name=BJX15) so the mapping file must be updated. Now you have the BSC Name, and from the BSC file name, the OSS ID and the MSC Name.

Updating the BSCMSCMapping.txt with the values of BSC Name and MSC ID

Based on the previous sections, you have the MSC ID, and the BSC Name.

With this information the mapping file entry for the BSC file name (in the previous section) is now:

```
#<OSS ID>,<BSC Name>,<MSC Name>,<MSC ID>
ATL6,BJX15,NOR01,900900
```

8 Customer Support

Contact customer support if a problem is encountered during the installation of this patch.

9 Manifest

The manifest of files contained within this release is in the root directory on the staging directory. It is called *manifest.txt*.

Corporate Headquarters

13431 NE 20th Street
Bellevue, WA 98005 USA
Phone: +1 425 564 8000
Fax: +1 425 564 8001

EMEA

5300 Cork Airport
Business Park
Kinsale Road
Cork, Ireland
Phone: + 353 21 730 6000
Fax: + 353 21 730 6024

Spencer House
23 Sheen Road
Richmond
Surrey, UK, TW9 1BN
Phone: +44 (0)20 8332 7400
Fax: +44 (0)20 8332 7403

Asia Pacific

901B, Tower B, Uptown 5
5 Jalan SS21/39,
Damansara Uptown
47400 Petaling Jaya
Selangor, Malaysia
Phone: +60 3 7712 7000
Fax: +60 3 7726 7207

Vallent, Metrica, Prospect and ServiceAssure are registered trademarks or trademarks of Vallent Corporation and/or Vallent Software Systems UK in the United States and/or other countries. All other trademarks, trade names, company names, or products mentioned herein are the property of their respective owners. Copyright © 2008 International Business Machine Corporation. All rights reserved.

