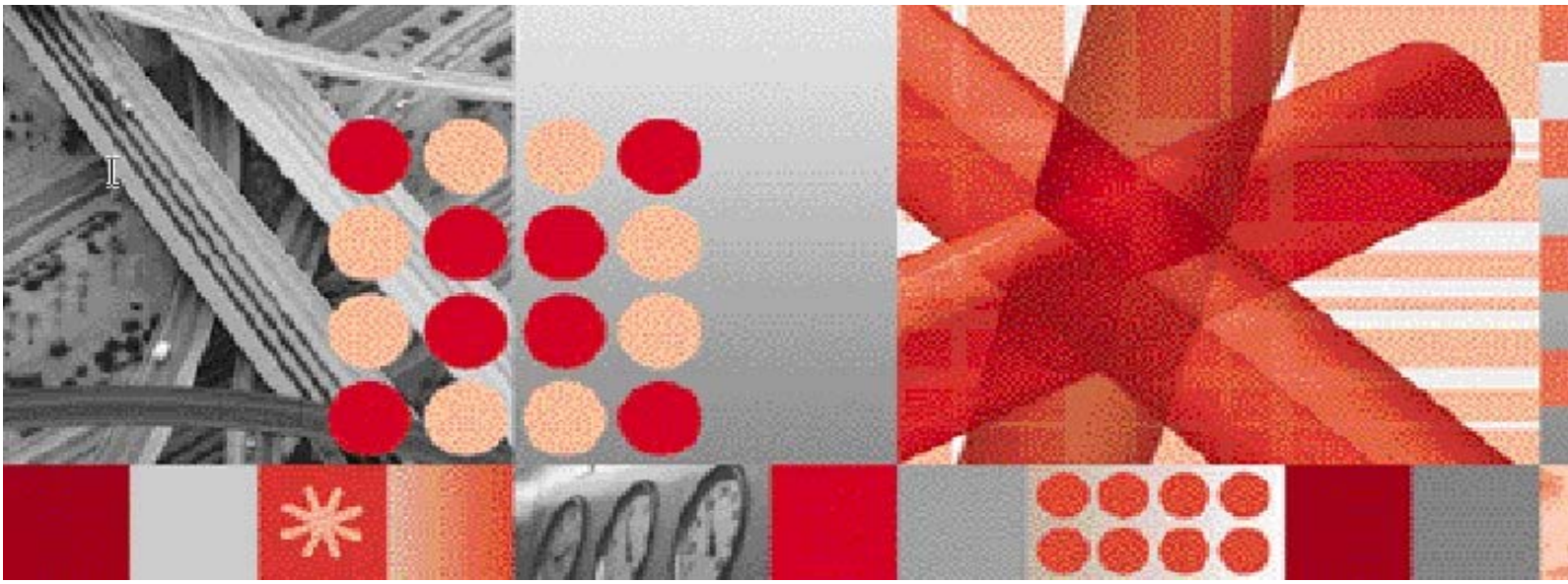
IBM Prospect®

Nokia GSM/GRPS 14.1.12.1.0

(14.1.12.1-TIV-PROSPECT-NOKGG-FP0000)



Release Notes

Document Revision Number *(v04)*

Note: Before using this information and the product it supports, read the information in Notices section in this document.

This edition applies to IBM Prospect Nokia GSM/GRPS 14.1.12.1.0 and to all subsequent releases and modifications until otherwise indicated in new editions.

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2 About this Documentation

Table 1 below details the information provided by the *IBM Prospect*® Nokia GSM/GRPS 14.1.12.1.0 Release Notes.

Table 1 - About this Documentation

Chapter	***Description***
About this Documentation	An overview of the Prospect® Nokia GSM/GRPS 14.1.12.1.0 documentation, which gives details of the intended audience and the structure of the guides.
Release Contents	Information on the release content included in the release.
Media Content	Details of media provided for the release.
Hardware Requirements	Details of hardware required for the release.
Software Requirements & Installation Information	Details on the Software required and the guides to be followed during the installation of the product for the release.
Known issues	Details on known issues included in the release and workarounds, if available.

2.1 Audience

The target audience of this guide is for System Administrators of Prospect or a person who installs / upgrades the Prospect System,

IMPORTANT: Before attempting an installation of Prospect® Nokia GSM/GRPS 14.1.12.1.0 you are strongly advised to read these release notes. Failure to consult these release notes may result in a corrupt, incomplete or failed installation.

2.2 Required Skills and Knowledge

This guide assumes you are familiar with the following:

- Knowledge of Solaris
- General IT and Telco principles
- Basic knowledge of Oracle Database
- General knowledge of Shell and Perl scripting.
- Knowledge of Prospect Administrators scripts and Client / Pweb Interface

This guide also assumes that you are familiar with your company's network and with procedures for configuring, monitoring, and solving problems on your network.

2.3 Document Conventions

The following command prompts can be seen throughout this document where the user has to enter commands at the command line:

- # (hash): This prompt will be displayed if the user is logged in as user root.
- $ (dollar): This prompt will be displayed if the user is logged in as either the server or oracle user.

Please note the above prompts are not part of commands. All commands must be entered after these prompts.

This document uses the typographical conventions shown in the following table:

Table 2: General Document Conventions

Format	***Examples***	***Description***
ALL UPPERCASE	GPS NULL MYWEBSERVER	Acronyms, device names, logical operators, registry keys, and some data structures.
Link	See www.sun.com	For links within a document or to the Internet.

Bold	**Note**: The busy hour determiner is...	Heading text for Notes, Tips, and Warnings.
SMALL CAPS	The STORED SQL dialog box... ...click VIEW... In the main GUI window, select the FILE menu, point to NEW, and then select TRAFFIC TEMPLATE.	Any text that appears on the GUI.
Italic	A *busy hour* is... A web server *must* be installed... See the *User Guide*	New terms, emphasis, and book titles.

`Monospace`	`./wminstall`
	`$ cd /cdrom/cdrom0`
	`/xml/dict`
	`addmsc.sh`
	`core.spec`
	`Type OK to continue.`
		Code text, command line text, paths, scripts, and file names.
		Text written in the body of a paragraph that the user is expected to enter.

`Monospace Bold`	**`[root] # pkginfo | grep -i perl`** system Perl5 On-Line Manual Pages system Perl 5.005_03 (POD Documentation) system Perl 5.005_03	For contrast in a code example to show lines the user is expected to enter.
`<Monospace italics>`	# cd *`<oracle_setup>`*	Used in code examples: command-line variables that you replace with a real name or value. These are always marked with arrow brackets.
[square bracket]	log-archiver.sh [-i][-w][-t]	Used in code examples: indicates options.

2.4 User Publications

The following user publications are provided with the Prospect® Nokia GSM/GRPS 14.1.12.1.0 software in Adobe® PDF and HTML formats.

Table 3 - Prospect® Nokia GSM/GRPS 14.1.12.1.0 User Publications

Document	***Description***
PerfDataRef.pdf	Prospect Performance Data Reference

2.5 Accessing Publications online

All of the IBM Prospect publications, including Release Notes, are available online from the IBM information Center website as follows:

http://publib.boulder.ibm.com/infocenter/tivihelp/v8r1/index.jsp?topic=/com.ibm.netcool_pm.doc/IBM_Prospect_060308.htm

3 Release Contents

Prospect® Nokia GSM/GRPS 14.1.12.1.0 contains the following components:

3.1 Release Description

This document provides information on the Prospect® 8.0 for Nokia GSM/GPRS RP12.1 release. This release is available as an upgrade from an existing application version only. In this updated version of Nokia for Prospect, the network element SGSN is updated to support SG7 CD2 with data loading tested on OSS 5.2 only and MGW is updated to support release version U4.2 with counters from intermediate versions of U4.0 and U4.1. From data loading perspective, only U4.2 files are supported. Thus the loading compatibility of U4.0 and U4.1 files will not be tested. However, all new counters introduced in U4.0 and U4.1 versions will be supported as they appear in U4.2 files. If a new counter is introduced in U4.0/U4.1 and obsolete in U4.2, the counter will not be supported.

3.2 Compatibility of Prospect Components

The following is a list of components that Prospect is compatible with:

Prospect Component	***Version Supported***
Prospect Server	8.0.5.0.08, 8.0.5.x, 8.0.6.1, 8.0.6.x
Prospect Client	8.0.5.0.06, 8.0.5.8, 8.0.6.0.13 and 8.0.6.x
Prospect Web	2.2.7.x
Oracle	10g (10.2.0.4 64-bit)
Solaris	10
Perl	5.6.1
Java	1.5.0_13

The vendor software releases supported are:

Already Supported Vendor Software
Nokia MSC M11, M12, M13.2, M13.5, M14.1

Already Supported Vendor Software
Nokia HLR M12, M12.2
Nokia BSS S11.0, S11.5 Phase 2, S12.0, S13
Nokia SGSN GSM/GPRS SG5.0, SG5.1, SG6
Nokia GGSN 4.1, 4.0, 3.0, 2.2, 1.0
Nokia MGW U2, 3.0

Newly Supported Vendor Software
Nokia SGSN GSM/GPRS SG7
Nokia MGW U4.0, U4.1, U4.2

3.3 New Features

In this release, Prospect® adds support for a number of new counter groups and file types. Please refer to the accompanying Performance Data Reference publication for the exact counter details.
Nokia GPRS/MGW
Following changes to counter groups in Nokia GPRS/MGW module:

Entity	Object Name	Counter Status	Technology
Cell_SGSN	P_SGSN_SESSION_MANAGEMENT	Extended (2 counters)	GPRS
	P_SGSN_SESSION_MANAGEMENT	Modified (1 counter)	GPRS
SGSN	P_SGSN_USER	Extended (25 counters)	GPRS
PAPU	P_SGSN_PAPU_USER	Extended (38 counters)	GPRS
Virtual_MGW (New Entity)	M658 (H.248 Measurement)	New Group (283 counters)	GSM, GPRS, UMTS
MGW	M614 (DSP Services)	Retired (85 counters)	GSM, GPRS, UMTS
	M641 (BSSAP protocol)	Retired (90 counters)	GSM, GPRS, UMTS
	M642 (BID protocol)	Retired (7 counters)	GSM, GPRS, UMTS
	M648 (TRFO and TFO)	Modified (23 counters) Extended (10 counters)	GSM, GPRS, UMTS
	M649 (Data Call)	Modified (9 counters) Extended (3 counters)	GSM, GPRS, UMTS
	M643 (Signalling Transcoding)	Extended (129 counters)	GSM, GPRS, UMTS
	M644 (Multi-party call)	Extended (1 counter)	GSM, GPRS, UMTS
Physical_layer_TTP	M512 (ATM Cells)	Retired (2 counters)	GSM, GPRS
Computer_Unit	M646 (RTP)	Retired (6 counters)	UMTS
	M612 (DSP_state)	New Group (2 counters)	GSM, GPRS, UMTS
	M563 (TCP/IP Protocol)	Extended (37 counters)	GSM, GPRS, UMTS
	M645 (Connection)	Extended (7 counters)	GSM, GPRS, UMTS
	M656 (Announcement)	Extended (3 counters)	GSM, GPRS, UMTS
MGW_RNC	M640 (RANAP)	Retired (101 counters)	UMTS

Note: For MGW U4.2 support, as per exemption from the customer, of all the new measurement groups introduced, only 2 new groups (M612 and M658) are required to be supported.

4 Media Content

Prospect® Nokia GSM/GRPS 14.1.12.1.0 is composed of the following media:

1. Prospect application 14.1.12.1-TIV-PROSPECT-NOKGG-FP0000.tar
2. Prospect Release Notes 14.1.12.1-TIV-PROSPECT-NOKGG-FP0000.pdf

5 Software Requirements & Installation

5.1 Software Requirements

To view the software products required to install the Prospect® Nokia GSM/GRPS 14.1.12.1.0 system refer to the Prospect Installation Note**,** which is included in the release media packaging (CD/DVD) or online download via web portal.

- The Prospect Base version certified against this release 8.0.6.1 with core fix pack 8.0.6.5 or any later version.
- The client version certified against this release is 8.0.6.
- The operating system versions certified against this release is Solaris 10.
- The Oracle database version certified against this release is Oracle 10g – 10.2.0.4 64-bit.
- The latest core fix pack for Prospect Base is available for download from the following URL:
- http://www-01.ibm.com/software/sysmgmt/products/support/Prospect.html

5.2 Pre-requisites Checks

5.2.1 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 upgrade. The upgrade can take a few hours to run and requires no user input during the majority of the upgrade. This can make the upgrade session appear idle. If timeouts are not disabled, the upgrade terminal could be disconnected during the upgrade.

5.2.2 Disk Space and Table Space Requirements

This installation of the upgrade requires an additional 500MB of free disk space for the user flexpm in $FLEXPM_HOME/. This is required to accommodate the disk usage for the extraction of files and writing of log files during the patch installation.

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

Additional Oracle table space is required to support the new traffic tables introduced in this release. The following lists the disk requirement for each table space assuming that 90 days of data will be retained:

- TRAFFIC_JUMBO: 3GB
- TRAFFIC_LARGE: 2GB
- TRAFFIC_MEDIUM: 1GB
- TRAFFIC_SMALL: 1GB

Note: It is recommended to always keep 10% of total table space size available for each table space.

5.2.3 Environment Path

Prospect installations will no longer ship with the gtar, gunzip or gzip binaries. These are installed with Solaris 9 and Solaris 10.

Make sure that /usr/bin and /usr/sfw/bin are in your path. Enter the following commands to locate gtar, gunzip and gzip:

$ which gtar

$ which gunzip

$ which gzip

These commands return the path to gtar, gunzip and gzip on your system. If these utilities are not found, add /usr/sfw/bin to the path in your .profile file.

5.2.4 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 in the resulting output. For Oracle 10g the version should be 10.2.0.4 or greater.

```
SQL>  SELECT comp_id, comp_name, version FROM dba_registry
    WHERE comp_id = 'XML';
```

For example – on Oracle 10.2.0.4 the result would be similar to:

```
COMP_ID   COMP_NAME            VERSION
--------- -------------------- -----------------
XML       Oracle XDK   10.2.0.4.0
```

5.2.5 Perl Version

Make sure that /usr/perl5/5.6.1 is on your server. Type the following command to verify:

$ /usr/perl5/5.6.1/bin/perl -v

The first line of the output should show:

This is perl, v5.6.1 built …

If an error is received as below, please contact system administrator to install Perl 5.6.1.

ksh: /usr/perl5/5.6.1/bin/perl: not found

Note: If the Perl version is incorrect, the installation will not proceed.

5.2.6 Java Version

Make sure that the java is version 1.5.0_13 and above. Type the following command to check the java version.

$ java -version

java version "1.5.0_13"

Java(TM) 2 Runtime Environment, Standard Edition (build

1.5.0_13-b03)

Java HotSpot(TM) Server VM (build 1.5.0_13-b03, mixed mode)

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

5.2.7 Checking Environment Variables

Execute the following command to verify that the environment variables LOG and OK are NOT set:

$ echo $LOG $OK

$ <- default setting should be empty

If the above environment variables are set, please unset the environment variables as below:

$ unset LOG

$ unset OK

$ echo $LOG $OK

$ <- default setting should be empty

5.2.8 Baseline Requirements

The base environment that this upgrade will be applied against:

- Prospect® 8.0 for NokiaGGU RP12 (14.1.12.0) base.

You can check the current installed version by running the following command as the Prospect Unix user:

$ show_installed

This will produce output similar to the following:

```
COMPONENT                                INSTALL_TY INSTALL_DATE
---------------------------------------- ---------- --------------
CORE Prospect rev 8.0.6.5 b1             PATCH      09-NOV-04 14:24:57
CORE Prospect rev 8.0.5.4 b4             INSTALL    08-OCT-02 11:07:11
VENDOR NokGSM rev 14.1.12.0.0 b2         UPGRADE    08-OCT-02 11:43:03
VENDOR NokMGW rev 14.1.12.0.0 b2         UPGRADE    08-OCT-02 12:01:47
VENDOR NokPktCore rev 14.1.12.0.0 b2     UPGRADE    08-OCT-02 11:53:30
```

Note: *The output may have more components installed than the example given here if optional components are installed. The versions (rev) of CORE Prospect and VENDOR module must be greater than or equal to those shown. The build number and install type (INSTALL or UPGRADE) for each component is unimportant. The install dates will be different from those shown.*

Important! *It is critical that you apply this patch to an environment at the correct patch level. Please verify the environment carefully. For more information, please contact IBM customer support*.

5.2.9 WM_MESSAGE_LOG Partition

This pre-validation only apply to Core 8.0.6.3.0 or later.

Make sure the wm_message_log partition is available prior to this upgrade install.

Perform the following to validate:

select * from user_tab_partitions where table_name = 'WM_MESSAGE_LOG';

Ensure there is return row(s) with partition PYYYYMMDD+1 that covered the current system date. Example, today is 2009 July 08, make sure that is partition starting from P20090709 onward in the wm_message_log.

5.3 Privileges Required

The following privileges are required for an upgrade.

Privilege	***Required***
Oracle flexpm user DBA role	Yes
Root privilege required	No
Oracle sys user password set to default (change_on_install)	No

5.4 Pre-Installation Instructions

5.4.1 System Backup

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

5.4.2 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. Try to log in using sqlplus:

$ sqlplus /nolog

> connect sys/change_on_install@flexpm as sysdba

Note: If you can log in, you can skip the rest of this procedure.

2. If you get an error concerning privileges, then you need to continue with the following steps.

3. 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

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

remote_login_passwordfile=EXCLUSIVE

5. 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

6. 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.

7. To verify that the changes has been taken. Rerun step 1.

5.4.3 SARun Modifications

The installation will replace the soft alarm file `$FLEXPM_HOME/pm/run/SARun`. This file typically contains site specific configuration information for the `snmpManager` and `snmpVersion` command line options. These should be recorded, so that they can be added to the database using the new sa_snmp_manager.sh script. This should be done post-installation.

```
Usage: sa_snmp_manager.sh [ -h | -l | -a <host port version> | -r <mgr_id>]

where:

  -h    : show the usage information

  -l    : display the currently registered SA SNMP managers

  -a    : add a new SNMP manager with host, port and version

  -r    : remove SNMP manager with id <mgr_id>
```

Note: *Please make a backup copy of this file so that you have the required information when you need it.*

5.4.4 Warning: Disable server access in Prospect Web

If Prospect Web is accessing this Prospect installation, then use the admin tool to disable the corresponding data source. Failure to do this step may results in errors in both the upgrade and Prospect Web. Consult customer support if you have questions.

5.4.5 Note schedule_maint Settings

If the server 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 eventually 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.

5.4.6 Note Partition Maintenance Settings

During the upgrade a number of new tables are added to the Prospect system. Occasionally this can cause the script past_part_maint.sh to display data retention settings as "Unlimited."

Before the upgrade, run past_part_maint.sh to get a list of the current data retention settings.

5.4.7 Check Prospect Environment

1. Log in as user flexpm, and source the .profile for Nokia GSM/GPRS (if you are have not already done this).

2. Ensure that $FLEXPM_HOME, $FLEXPM_BASE and $release are set correctly:

$ echo $FLEXPM_HOME

$ echo $FLEXPM_BASE

$ echo $release

If the variable FLEXPM_HOME is not set (the output is just a blank line), or the release variable value does not equal to ProspectBase, edit the file .profile and amend the line that sets the install variable to read:

install=X

where X is the install location of the Nokia GSM/GPRS application (make sure it does not contain the ProspectBase string, for example, install="/u01/apps/WatchMark/FlexPM/NokiaGSMGPRS").

Amend the line that sets the release variable to read:

release="ProspectBase"

Edit the file .profile.flexpm and commenting out (by placing # at the beginning of the line) the install= and release= lines if these 2 lines are in the file.

3. Logout the system and relog in as user flexpm, and source the .profile to confirm those variables settings are correct.

Important! *Uninstallation of this upgrade is not supported. A complete system back up is recommended.*

5.5 Installation Instructions

Important! *Un-installation of this upgrade is not supported. A complete system back up is recommended before installing this upgrade*

1. Log in as user flexpm, and source the .profile (if you are not already).
2. Download and copy the TAR package to be installed on to the appropriate Prospect Server into a staging directory, for example
   $ mkdir -p /var/tmp/14.1.12.1-TIV-PROSPECT-NOKGG-FP0000
3. cd to the staging directory
   cd /var/tmp/14.1.12.1-TIV-PROSPECT-NOKGG-FP0000
4. Untar the TAR package using the following command:
   tar -xvf 14.1.12.1-TIV-PROSPECT-NOKGG-FP0000.tar
5. Stop the middleware from running if it is currently running
   $ ps-mgr stop all
   $ ps-mgr halt
6. Preview the installation for problems before installing the update:
   If the database is Oracle 10g, use this:
   $ ./wminstall -b $FLEXPM_BASE -d $DB_CONNECT \

   -portbase $PORT_GROUP -spec spec.xml -preview -v
7. Check the results of the preview and contact IBM support if you have any queries. Please refer to previous section for sample installation preview output:
   Run the installation by typing the following command :
   $ ./wminstall -b $FLEXPM_BASE -d $DB_CONNECT \
   -portbase $PORT_GROUP -spec spec.xml -v

   The installation of the upgrade might take a while to complete. The log file (with a filename like <YYYY>_<MM>_<DD>_<HH>_<MM>_<SS>) under /var/tmp can be viewed from another console during the installation for the installation progress.

RP9.3 includes RP9.1 and RP9.2. If wminstall detects any problems during the RP9.1 installation or RP9.2 install, it does not attempt to install RP9.3. If this happens, fix the problems and rerun wminstall.

8. After wminstall has finished, please examine detail.log under the directory $FLEXPM_HOME/audit/<YYYY>_<MM>_<DD>_<HH>_<MM>_<SS>_<running number> for any error messages.

5.6 Post-Installation Instructions

5.6.1 Checking for Invalid Objects

After installation finishes, it is useful to check for any invalid objects in the database. Login to 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 following output:

no rows selected

If the above SELECT statement outputs some rows, please recompile the schema. Use the correct value for schema_name 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);

5.6.2 Verify Installed Versions

It is helpful to run show_installed to confirm that everything installed correctly.

The output from this command should be similar to the following:

```
COMPONENT                                INSTALL_TY INSTALL_DATE
---------------------------------------- ---------- ------------------
CORE Prospect rev 8.0.6.5 b1             PATCH      09-NOV-04 14:24:57
CORE Prospect rev 8.0.6.0 b13            UPGRADE    09-NOV-04 14:00:52
VENDOR NokPktCore rev 14.1.12.1.0 b2     UPGRADE    09-NOV-04 17:34:27
VENDOR NokMGW rev 14.1.12.1.0 b2         UPGRADE    09-NOV-04 17:38:39
VENDOR NokGSM rev 14.1.12.1.0 b2         UPGRADE    09-NOV-04 17:28:54
```

The version numbers (rev) should be the same as those shown. The build numbers (b followed by a number) might be different. The install type (INSTALL, PATCH or UPGRADE) is not important. The install dates and times will be different from those shown.

5.6.3 Configure the SNMP Manager

If SNMP information was recorded in step 5.4.3 above, then please enter the required information using the steps detailed below, otherwise skip to section 5.6.4.
The SNMP configuration values are now stored within the database instead of the SARun file. The `sa_snmp_manager.sh` script is used to manipulate these values within the database. You must reconfigure the SNMP manager using your previous SARun settings.

```
Usage: sa_snmp_manager.sh [ -h | -l | -a <host port version> | -r <mgr_id>]
where:
      -h : show the usage information
      -l : display the currently registered SA SNMP managers
      -a : add a new SNMP manager with host, port and version
      -r : remove SNMP manager with id <mgr_id>
```

1. Check for any SNMP manager entries which are already stored in the system:
   `$ sa_snmp_manager.sh –l`

2. For each SNMP manager entry recorded in step 6.3.3 which was not displayed in step 1, add the entry into the system using the `sa_snmp_manager.sh` script:
   `Usage:`
   `sa_snmp_manager.sh –a <hostname> <port> <SNMP version>`
   `Examples:`
   `$ sa_snmp_manager.sh -a hostname.mydomain.com 162 1`
   `$ sa_snmp_manager.sh -a 192.168.10.20 162 2`

3. Make sure the values have been correctly recorded in the Prospect system:
   `$ sa_snmp_manager.sh –l`

5.6.4 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 5.6.5.

```
$ set_tzr.sh -t

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
```

5.6.5 Start the Middleware

Once the installation has been completed, you should start the middleware so that data can be loaded and the system can be used.

To start the middleware

```
$ ps-mgr init
```

5.6.6 Setting Validation

1. Check schedule 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 previously.

```
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 unsure of appropriate times then please contact customer support

2. Check partition settings

Run `past_part_maint.sh` to get a list of the current data retention settings.

During this upgrade, all of the traffic tables linked to the “traffic” entry were moved to a more appropriate entry based on their technology type. i.e. GSM, GPRS or MGW.

These should all have their previous retention setting as recorded in Section 5.4.6. If not then restore this value to the correct value.

```
For example, to have 30 days data retention for GSM traffic table types.
past_part_maint.sh GSM 30
```

5.6.7 Enable Server Access in Prospect Web

If you disabled access to the Prospect server from Prospect Web in step 5.4.4, then use the admin tool to re-enable access to the corresponding data source in Prospect Web.

5.7 Uninstallation Procedure

This release cannot be uninstalled. This upgrade involves updates to the database or the metadata, therefore recovery from backup is the only way to reverse the changes made by this release/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 IBM customer support if you require further support.

5.8 Useful Hints

5.8.1 Prospect Client/Server Compatibility

The Prospect client is backward compatible with older Prospect servers. If you try to use an older client with newer server, the results are undefined.

5.8.2 Prospect Single Client

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

Users of the Prospect system have expressed the need to connect to all of their 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 (core) servers released after the client are not supported (that is, the Prospect client is not forward-compatible). Contact your IBM 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.

5.8.3 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, 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
```

5.8.4 addNE.sh script

The `addNE.sh` script, which is used to add new elements, supports element names with a maximum length of 30 characters. Element names longer than this are not supported by the script.

5.8.5 Use of add_filetype_timeout.sh is not recommended

Using the `add_filetype_timeout.sh` script is not recommended, as the user will wait a considerable amount of time. This is caused by the time taken for the script to clean the schedule table during the middleware start up.

The `add_filetype_timeout.sh` script is not recommended to be used for checking the data file if it does not arrive as expected. If used, user will have to wait for a substantial long period of time as the `add_filetype_timeout.sh` script increases the time to clean up the schedule table when the middleware is started up.

5.8.6 Solaris 10 Zones not supported

Prospect 8.0.5 does not support Solaris 10 zones.

5.8.7 Traffic Template Description Length Limitation in Prospect Client

Field description in traffic template editor has a limitation of displaying 260 characters only. Traffic template editor will display only the first 260 characters when the actual length of field description is longer than that.

For complete field description, please refer to Prospect Performance Data Reference or the online help.

5.9 Release Restrictions

This release is for General availability/Limited availability.

5.10 Known Issues in vendor application

Following the known issues in Prospect® Nokia GSM/GRPS 14.1.12.1.0 vendor application:

None.

5.11 Dependent Known Issues in the core product

The core issues relating to this Prospect® Nokia GSM/GRPS 14.1.12.1.0 release:
None.

6 IBM Support

6.1 Contacting IBM Support

Please use the IBM Tivoli Support website:
http://www-306.ibm.com/software/sysmgmt/products/support/assistance.html

7 Documentation Addendums

None.

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