

Release Notes

Prospect® 8.0

Ericsson GGU 7.1.14.2.0



DOCUMENT CONTROL

Issue Number: 1

Issue Date: 28 May 2009

Version: 7.1.14.2.0

Build: 3

Project Release Point: 14.0

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Table of Contents

| | | |
|----------|---|-----------|
| 1 | <i>Description</i> | 4 |
| 2 | <i>Supported Platforms</i> | 5 |
| 3 | <i>Resolved Issues</i> | 6 |
| 4 | <i>New Features</i> | 7 |
| 5 | <i>Known Problems</i> | 8 |
| 6 | <i>Installation and Upgrade Instructions</i> | 13 |
| 7 | <i>Useful Hints</i> | 18 |
| 8 | <i>Customer Support</i> | 19 |
| 9 | <i>Manifest</i> | 20 |

1 Description

Prospect® 8.0 for Ericsson GGU version 7.1.14.2.0 is an upgrade release to support the upgrade of the SGSN (GSM), UTRAN, as well as to address the CR (CR# MR0327092523).

SGSN has been upgraded from current SGSN 2009A (UMTS) to SGSN 2009A (UMTS and GSM).

UTRAN version has been upgraded from current P6 (with P6FP and P7 loaded as per P6 rules), to P7FP.

CR (MR0327092523) introduces the change to 3 preloaded calculations PEGs, namely CS_Speech_Usage_SS, CS_Speech_Usage_AS and CS_Speech_Usage_AA.

The Prospect Base version certified against this release 8.0.6.0 with core fix pack 8.0.6.1 or any later version.

The client version certified against this release is 8.0.6.

The operating system version 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>

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*.

| <i>Supported Vendor Software</i> |
|---|
| Ericsson MSC R11, R12, R12.1 |
| Ericsson SGSN R7.0, R8MD, R8IP, 2009A |
| Ericsson BSC R11, R11.1, BSS06B |
| Ericsson RANOS P5ED, P5MD, P6, GPEH EBS-W, P6FP |

| <i>New Added Supported Vendor Software in this Release</i> |
|---|
| SGSN (GSM) 2009A |
| RANOS P7, P7FP |

3 Resolved Issues

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

| <i>ClearQuest/APAR</i> | <i>Description</i> |
|------------------------|---|
| valnt00077576 | In the RANOS PM loader, Handover source section data was not loaded. |
| valnt00077596 | The file-decode procedure in the RANOS PM loader did not work if the RNC name contained lowercase letters. |
| valnt00077598 | The RANOS CM loader did not load any data for the RNCModule entity. |
| valnt00078507 | The following counters in the SGSN module were not loaded: ipsecSACurrentBytes, ipsecSAPacketsOk and ipsecSAPacketsNotOk |

4 New Features

4.1 SGSN (GSM) 2009A

SGSN 2009A Delta Dictionary specifies the following changes to counter groups in SGSN module:

| Entity | Counter Status | Technology |
|--------|----------------|------------|
| GSN | Extended | GPRS/UMTS |
| Card | Extended | GSM/UMTS |

Note: SGSN (UMTS), The OSS RC version supported is R6.3. R7.1 will be only applicable to BSS.

4.2 UTRAN P7FP

UTRAN P7FP Delta Dictionary specifies the following changes to counter groups in RANOS module:

| Entity | Counter Status | Technology |
|----------------------|-------------------|------------|
| DownlinkBaseBandPool | Extended | UMTS |
| EDchResources | Extended | UMTS |
| GsmRelation | Extended | UMTS |
| HsDschResources | Extended/Modified | UMTS |
| IpHostLink_NodeB | New | UMTS |
| IubDataStreams | Modified | UMTS |
| NodeB | Extended | UMTS |
| RadioLinks | Extended/Modified | UMTS |
| RNC | Extended | UMTS |
| RncCapacity | New | UMTS |
| Sccpch | Extended | UMTS |
| UplinkBaseBandPool | Extended/Modified | UMTS |
| UtranCell | Extended/Modified | UMTS |
| UtranRelation | Extended | UMTS |

This release also includes the preloaded calculation formula modification as per customer's request.

5 Known Problems

5.1 Confidence Report Displays Null Values [SEAd53522 / SEAd58917]

Description: Confidence reports display null values for BSC and OSSRC.

Impact: BSC and OSSRC confidence reports are not useful.

Workaround: A data availability report can provide similar information to a confidence report. A suitable template is in `\Templates\Available Data Templates\STS_BSC_AvailableData`. If you use this template, make sure that the INCLUDE NULL ROWS option is selected. This option is in the Report Editor, on the REPORT TYPE tab. A version of this is also available for the OSSRC data file format.

5.2 Unable to Save Report Definition when All Split Key Fields are Selected [SEAd56151]

Description: It is not possible to save a report with all split keys selected for some entities low in the hierarchy. If the total length of the names of all the selected entities plus some overhead exceeds 256 characters, the user will not be able to save the report.

Impact: Some reports with split keys cannot be saved.

Workaround: Deselecting some of the entities from the split key panel can resolve the problem for some reports.

5.3 Import Process Sometimes Fails [SEAd56230]

Description: Import of exported user documents sometimes fails. The following message appears in the import log:

```
"SQL*Loader: All/some rows discarded/rejected."
```

Impact: An export of user documents might not always re-import everything that was exported.

Workaround: None.

5.4 Unable to Generate Full Key [SEAd57024]

Description: Data will not load for ASN.1 data for groups RES64K and NONRES64K. The ASN.1 data does not contain enough information to generate a valid full key to use in data loading. The key in sample data is "-" when it should be a valid key value. This is an issue that Ericsson will need to investigate.

Impact: The counters for the two groups will not load for ASN.1 data.

Workaround: None.

5.5 Missing Data Report Displays Unexpected Timestamp Intervals [SEAd58886]

Description: The missing data report displays unexpected timestamp intervals for the OSSRC data file type. If a sub-daily report is run for the OSSRC data file type, then all periods except midnight report missing data.

Impact: The missing data report for OSSRC data files shows missing data for all periods of the day except for midnight.

Workaround: Only run missing data reports for OSSRC-based data at the daily level.

5.6 Null Value Reported in ODBC and ASCII [SEAd58997]

Description: Null values are reported in ODBC and ASCII when using the ODBC Data source editor for OSSRC.

Impact: ODBC data source editor might not show correct values.

Workaround: None.

5.7 Non-Stored Summation Displays Confidence Factor of 90% [SEAd58998]

Description: In testing, non-stored summation report of a sub-network entity displays the confidence factor as 90% even when all data was loaded.

Impact: In some cases, the confidence factor might not be accurate.

Workaround: None.

5.8 SoftAlarms for OSSRC File Type [SEAd59000]

Description: Soft alarms do not trigger for OSSRC data files.

Impact: Soft alarms defined on the counters from the OSSRC data file are not recorded correctly.

Workaround: None.

5.9 10-90 Percentile Graph Report Contains Unwanted Data [SEAd59020]

Description: Graph reports using the 10-90 Percentile macro display macro control data at the end of the report.

Impact: The unwanted data must be cleaned up manually after the report is run.

Workaround: None.

5.10 show-traffic script not in \$PATH [SEAd59022]

Description: The directory containing the `show-traffic` script (`$FLEXPM_HOME/sw/oracle`) is not in `$PATH`.

Impact: It is not possible to run the script from a directory other than `$FLEXPM_HOME/sw/oracle`.

Workaround: Either run `show-traffic` from the specified directory or enter the full path to the script on the command line.

5.11 Counter Values Misaligned in Report if UtranCell Label is in Template [SEAd60613]

Description: If the LABEL field of UtranCell is included in a template, reports that use that template align the counter values to the left of the spreadsheet cells instead of to the center.

Impact: Such reports might be difficult to read, compared with other reports.

Workaround: Select the affected rows and columns in the spreadsheet and correct the alignment manually.

5.12 ORA-01841 error in loader log when loading empty ASN.1 or TRDIP file [SEAd62164]

Description: Empty ASN.1 and TRDIP files now move to the fail directory when loaded. However, such files now cause the following error message to appear in the loader log:

```
INSERT INTO en_event_file_load_v: ORA-01841: (full) year must
be between -4713 and +9999, and not be 0
```

This message might be followed by further Oracle errors, namely ORA-02291, ORA-06512 and ORA-04088.

Impact: None. The messages are harmless.

Workaround: None.

5.13 Split GSM ASN.1 files may overwrite existing data [SEAd62233]

Description: If GSM ASN.1 data is split into more than one file for a given MSC or BSC and a given timestamp, files processed after the first one may overwrite previously-loaded data with nulls.

Impact: GSM reports might not accurately reflect the contents of the ASN.1 files.

Workaround: None.

5.14 add_filetype_timeout.sh -f <file type> -t <timeout> sometimes fails [SEAd63354]

Description: Running add_filetype_timeout.sh sometimes fails with an Oracle error:

```
ORA-02291: integrity constraint (FLEXP.M.FK_TASK_STATUS_JOB)
violated - parent key not found.
```

Impact: No notification will be received when an expected file didn't arrive.

Workaround: None.

5.15 "No data returned" message in RS DataServer log [SEAd68216]

Description: Messages similar to the following appear in the RS DataServer log file, approximately every five minutes:

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```
Tx1f |11:13:02|DataServer::handleRequest()  
|Exception : stream read failed - no data returned
```

Impact: None. The message is harmless.

Workaround: Not applicable.

5.16 Reports that use imported user-defined scenarios may fail [SEAd68458]

Description: If a user-defined scenario, exported from schema *A* and imported into schema *B*, makes reference to instances that exist in *A* but not in *B*, reports that use that scenario will fail with the following error:

```
Exception : [SERVERERROR] ORA-06502: PL/SQL: numeric or value  
error: character to number conversion error
```

Impact: Reports, stored busy hours and stored summations that use such scenarios fail.

Workaround: Create a copy of the imported scenario under a new name. This will remove the non-existent instances from the copy. Amend any documents that refer to the imported scenario to refer to the copy. To identify these documents, right click the scenario and select "References" from the popup menu.

5.17 Out-of-order data loading can cause data to be overwritten in GPRS [SEAd68484]

Description: In the GPRS module, if data is loaded out of timestamp order, data that has already been loaded may be overwritten with nulls. This can happen if a backlog in loading data occurs.

Impact: GPRS reports may not be accurate.

Workaround: Reload the data in order of timestamp.

5.18 Scenario activation time reset back to default after core upgrade [SEAd69522]

Description: The scenario activation time is reset to the default run time (01:00 daily) after the core upgrade.

Impact: The scenario activation run time will change if it was set to something other than the default.

Workaround: Run the following command to change it back to the custom time:

```
$ schedule_maint scenario_activation <YYYYMMDD> <HHMI>
```

5.19 Server Prep needs update [valnt00044667]

Description: Upgrading Oracle 9i to 10g steps on editing listener should be done by editing the `listener.ora` file before starting the listener.

Impact: None.

Workaround: Restart the listener.

5.20 Missing parameters in wm_system_values_v view [valnt00051564]

Description: During the Fresh Install, three parameters are missing from the wm_system_values_v view:

AutoCleanIOTMaxLoops (default value: '5')

EventTruncatePmFolderEventTable (default value:'Y')

SummationForceNI (default value: 'FALSE')

Impact: None. Prospect will use the given default value for each parameter if it is not present in wm_system_values_v.

Workaround: However, if there is any abnormal behavior, you can add the relevant parameter(s) to wm_system_values_v with the following command in SQL*Plus:

```
exec wm_sysval.newSysValIfNotExists ('parameter-name', 'parameter-value');
```

For example,

```
exec wm_sysval.newSysValIfNotExists ('AutoCleanIOTMaxLoops', '5');  
exec wm_sysval.newSysValIfNotExists ('EventTruncatePmFolderEventTable', 'Y');  
exec wm_sysval.newSysValIfNotExists ('SummationForceNI', 'FALSE');
```

5.21 Split CM file by measurement group causes some unexpected issues [valnt00074037]

Description: When the split .cm1h files feature is turned on (RANOS_CM_SPLIT_OUTPUT_PER_MEASGROUP and/or RANOS_CM_MAX_ROWS_PER_OUTPUT_FILE defined in the RANOSconfig.csv file), for entities that have multiple measurement groups, the last measurement group (file) to be loaded will always overwrite the other values.

Impact: Unexpected result loaded for CM files.

Workaround: Use the default setting, single .cm1h file option.

6 Installation and Upgrade Instructions

6.1 Prerequisites

6.1.1 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(s) to `gtar`, `gunzip` and `gzip` on your system. If these utilities are not found, add `/usr/sfw/bin` to `$PATH` in your `.profile` file.

6.1.2 Perl Version

Make sure that Perl version 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 start with:
This is perl, v5.6.1 built ...

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

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

6.1.3 Java Version

Make sure that Java version 1.5.0_13 or above is installed. Type the following command to check the Java version.

```
$ java -version
```

The output should resemble the following:

```
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.

6.1.4 Baseline Requirements

The base environment that this patch will be applied against:

- Prospect 8.0 for Ericsson 6.0.14.0.0 base release (either a fresh install or an upgrade from an earlier release)

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- Prospect Core 8.0.6.1

The following releases are optional, as they are bundled in this release:

- Prospect 8.0 for Ericsson 6.0.14.0.1
- Prospect 8.0 for Ericsson 6.0.14.0.10
- Prospect 8.0 for Ericsson 6.0.14.0.20
- Prospect 8.0 for Ericsson 6.0.14.0.30
- Prospect 8.0 for Ericsson 6.0.14.1.0

As the Prospect UNIX user, this can be verified using the following command.

```
$ show_installed
```

Output similar to the following will be produced:

```

COMPONENT                                INSTALL_TY  INSTALL_DATE
-----
CORE Prospect rev 8.0.6.1 b3             PATCH      09-APR-23 14:14:44
CORE Prospect rev 8.0.6.0 b13           UPGRADE    09-APR-23 13:44:58
VENDOR ErcHLR rev 6.0.14.0.0 b3         INSTALL    09-APR-23 11:48:21
VENDOR ErcOSSRC rev 6.0.14.0.0 b3       INSTALL    09-APR-23 11:55:36
VENDOR ErcGSM rev 6.0.14.0.0 b3         INSTALL    09-APR-23 10:24:42
VENDOR ErcRANOS rev 6.0.14.0.0 b3       INSTALL    09-APR-23 11:13:16
VENDOR ErcComExtra rev 6.0.14.0.0 b3    INSTALL    09-APR-23 11:55:47
VENDOR ErcGPRS rev 6.0.14.0.0 b3       INSTALL    09-APR-23 11:26:30

```

Additional components might be listed; these are unimportant. The versions (*rev*) of CORE Prospect and VENDOR module must be greater than or equal to those shown. The build number (“b” followed by a single digit) 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.

6.2 Installation Privileges Required

The following privileges are required for an upgrade.

| <i>Privilege</i> | <i>Required</i> |
|---|-----------------|
| UNIX flexpm user in DBA group | Yes |
| Root privilege required | No |
| Oracle sys user password set to default (change_on_install) | No |

6.3 Pre-Installation Instructions

6.3.1 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 customer support if you require further support.

6.3.2 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 result in errors in both the upgrade and Prospect Web. Consult customer support if you have questions.

6.3.3 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.

6.4 Installation Instructions

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/7.1.14.2-TIV-PROSPECT-ERCGGU-FP0000
```

3. cd to the staging directory

```
$ cd /var/tmp/7.1.14.2-TIV-PROSPECT-ERCGGU-FP0000
```

4. Untar the TAR package using the following command:

```
$ tar -xvf 7.1.14.2-TIV-PROSPECT-ERCGGU-FP0000.tar
```

5. Stop the middleware if it is currently running

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

```
$ ps-mgr halt
```

6. Preview the installation for problems before installing the upgrade:

```
$ ./wminstall -b $FLEXPM_BASE -d $DB_CONNECT \  
-portbase $PORT_GROUP -core_spec core.spec.10g -preview -v
```

7. Check the results of the preview and contact IBM support if you have any queries.

8. Run the installation by typing the following commands:

```
$ ./wminstall -b $FLEXPM_BASE -d $DB_CONNECT \  
-portbase $PORT_GROUP -core_spec core.spec.10g -v
```

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9. After wminstall is completed, please examine the file detail.log under the directory \$FLEXPM_HOME/audit/<YYYY>_<MM>_<DD>_<HH>_<MM>_<SS>_<running number> for any error messages.

6.5 Post-Installation Instructions

6.5.1 Installed Version Verification

After the upgrade finishes, it is helpful to run `show_installed`, to confirm that everything installed correctly:

The output from `show_installed` should be similar to the following:

| COMPONENT | INSTALL_TY | INSTALL_DATE |
|--------------------------------------|------------|--------------------|
| CORE Prospect rev 8.0.6.1 b3 | PATCH | 09-APR-23 14:14:44 |
| CORE Prospect rev 8.0.6.0 b13 | UPGRADE | 09-APR-23 13:44:58 |
| VENDOR ErcHLR rev 6.0.14.0.0 b3 | INSTALL | 09-APR-23 11:48:21 |
| VENDOR ErcOSSRC rev 6.0.14.0.0 b3 | INSTALL | 09-APR-23 11:55:36 |
| VENDOR ErcGSM rev 6.0.14.0.0 b3 | INSTALL | 09-APR-23 10:24:42 |
| VENDOR ErcRANOS rev 7.1.14.2.0 b3 | UPGRADE | 09-APR-24 15:53:06 |
| VENDOR ErcComExtra rev 6.0.14.0.0 b3 | INSTALL | 09-APR-23 11:55:47 |
| VENDOR ErcGPRS rev 7.1.14.2.0 b3 | UPGRADE | 09-APR-24 16:19:51 |

The component names and version numbers (`rev`) should be the same as those shown. The build numbers ("b" followed by one or more digits) might be different. The install dates and times will be different from those shown.

6.5.2 Start the Middleware

If everything is OK, restart the middleware:

```
$ wmpm-init start all
```

6.5.3 schedule_maint

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 6.3.3 above.

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

6.5.4 Enable Datasource in Prospect Web

If this Prospect system is associated with a Prospect Web system and you disabled the datasource in section 6.3.2, then use the Prospect Web Administration Tool to enable the datasource with this Prospect system.

6.6 Uninstallation Procedure

This release cannot be uninstalled. It involves updates to the database and the metadata, and therefore recovery from backup is the only way to reverse the changes made by this release. 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.

7 Useful Hints

7.1 `convertXML.sh` cronjob of SGSN loader (GSNpm)

In order for `convertXML.sh` to run correctly and successfully from `cron`, make sure that the `.profile` is sourced in the cronjob prior to calling the `convertXML.sh`.

7.2 `convertXML.sh` log files of SGSN loader (GSNpm)

The detailed log information from the `convertXML.sh` script is not included in the loader log file, but instead is kept in the `$PROSPECT_HOME/ErcGPRS_loader/GSNpm/R5.0/logs` directory.

For more information about `convertXML.sh`, see the section entitled "Configuring the Data Preprocessor" in the Administration Guide (`AdminGuide.pdf`).

8 Customer Support

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

9 Manifest

The manifest for this release is contained in a file called `manifest.txt` at the top level of the TAR archive.

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