Release Notes

Prospect® 8.0.4 P7 (8.0.4.7)

IBM

DOCUMENT CONTROL

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1 Description

Prospect® 8.0.4 P7 is a patch release for Prospect. It is a cumulative release and can be applied to 8.0.4.1 release or to one of the Prospect patches, from 8.0.4 P2 through 8.0.4 P6, in order to bring a system up to the 8.0.4 P7 release point.

Check you have a prerequisite version installed on your system, by running the `show_installed` command. Notice that 8.0.4.1 release is displayed as 8.0.4.1, 8.0.4 P2 as 8.0.4.2, 8.0.4 P3 as 8.0.4.3, 8.0.4 P4 as 8.0.4.4, 8.0.4 P5 as 8.0.4.5, and 8.0.4 P6 as 8.0.4.6.

This patch introduces the solutions for several field APARs.

2 Resolved Issues

This release includes the following resolved issues:

DDTS or ClearQuest / SRS or APAR	Released in	Description
SEAde66354	8.0.4 P2	SOFT ALARM: Code cleanup needed to schedcheck.sql. We have areas where logging prep is performed ant then discarded.
SEAde66777	8.0.4 P2	Ensure minimum enqueue times is 1 second to prevent flood status msg
SEAde67198 / SRS 39525	8.0.4 P2	Summation performance enhancements - round 2
SEAde67258	8.0.4 P2	Active Heartbeat Queue failures causing decrementing license IN_USE spawning more jobs to start when the current jobs are still running
SEAde67756	8.0.4 P2	BH_DRIVER_TMP and its INDEX needs to be moved to TRAFFIC_LARGE tablespace
SEAde67708	8.0.4 P2	Order of Copy in BH JOB is making it to run longer times
SEAde67118	8.0.4 P2	AutoClean package for clean_iot and clean_schedule share parameter AutoCleanMaxLoops. Need to make them independent for each feature.
SEAde67897 / SRS41749	8.0.4 P2	SOFT ALARM: clean_iot does not check for Job Type 2 (SA) before run causing ORA-01410
SEAde68331	8.0.4 P3	BH Slices: ability to splice a table into sections for BH copy purposes
SEAde68461	8.0.4 P3	Import/Export sometimes fails to import udcs
SEAde66544	8.0.4 P3	SBH and reports fail due to fx dataserver restart
SEAde68574	8.0.4 P3	Some percentage values incorrectly truncated in reports
SEAde68590 / IZ09131	8.0.4 P3	Summation job does not work on ericsson ggu
SEAde68058	8.0.4 P4	PartMaint enhancements
SEAde68839 / IZ14072	8.0.4 P4	BH Slicing doesn't work properly, due to overlapping instance in slices
SEAde68933 / IZ15501	8.0.4 P4	BH optimistic insert
SEAde68939 / IZ15512	8.0.4 P4	Incremental Summation enhancement
SEAde69008 / IZ14162	8.0.4 P4	Busy Hour Update Copy does not show in ps-mgr watch command
SEAde69134 / IZ15662	8.0.4 P4	UDC computations incorrect in 8.0.4.x
SEAde68988 / IZ13905	8.0.4 P5	Need rg_common.sql to set hash_area_size
SEAde69274 / IZ13925	8.0.4 P5	BHUpdate log shows #INVALID# message during copy to BH table
SEAde69079 / IZ14994	8.0.4 P5	ORA-01410 errors occur when reports and soft alarms run
SEAde69384	8.0.4 P5	Improve the 'ps-mgr purge' command
SEAde69523 / IZ18779	8.0.4 P5	pm_weekly summations take longer times as time progresses
valnt00019149	8.0.4 P6	Introduce the 3GPP special characters support into the loader component

valnt00016464/IZ16072	8.0.4 P7	AUTOCLEANMAXROWSPERLOOP SETTING ARE BEING OVERWRITTEN
valnt00040618/IZ17405	8.0.4 P7	PROSPECT CORE 8.0.4.3 - SUMMARIES ARE EXITING WITH RETURN CODE 0EVEN WHEN FAILING WITH ORA ERRORS
valnt00043396/IZ25999	8.0.4 P7	UDC CREATED THRU PWEB VALIDATES FINE, REPORT USING IT FAILS
valnt00044051/IZ26496	8.0.4 P7	RE-RUNNING A BH JOB TAKES LONG TIME TO COMPLETE
valnt00046975/IZ28841	8.0.4 P7	RG_COMMON PACKAGE GETTING INVALIDATED BY PM_WEEKLY

3 Installation and Upgrade Instructions

This section describes how to install the Prospect patch, 8.0.4 P7. This patch can be uninstalled (see section 3.7).

3.1 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. There is the possibility that an upgrade can take a while to run. Since no user input is required during the most 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.

3.2 Installation Privileges Required

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

3.3 Install Procedure Syntax

```
install.sh [ -install | -uninstall | -help ]
-install  :  installs the wmn_pkgb.sql
-uninstall : removes the current hotfix file version and replaces
it with the previous version
-help : help

The scripts depend on $DB_CONNECT, make sure you have this setup
correct.
```

3.4 Pre-Installation Instructions

3.4.1 Pre-Install Procedure

```
1. Login as flexpm and verify $FLEXPM_HOME is set.
   $ echo $FLEXPM_HOME
   If there are multiple Prospect installations on the server,
   source the .profile for the Prospect installation for which
   this patch should be applied.

2. Copy 8.0.4-PROSPECT-IF0007.tar.gz into $FLEXPM_HOME.

3. Uncompress the file.
   $ gunzip  8.0.4-PROSPECT-IF0007.tar.gz
```

4. Untar the package. It will create a subdirectory
   (patches/Core8.0.4_P7) in $FLEXPM_HOME and untar the files in
   to this directory.
   $ tar -xvpf 8.0.4-PROSPECT-IF0007.tar

5. Install the Patch by following the instructions in Section 3.5
   below.

3.5   Installation Instructions

*Important! If there are no errors from the Pre-Installation section, then continue with the
following steps:*

1. Login as flexpm and verify $FLEXPM_HOME is set.
   $ echo $FLEXPM_HOME
   If there are multiple Prospect installations on the server,
   source the .profile for the Prospect installation for which
   this patch should be applied.

2. Go to $FLEXPM_HOME/patches/Core8.0.4_P7 directory.
   $ cd $FLEXPM_HOME/patches/Core8.0.4_P7

3. If Prospect Web is accessing this Prospect installation, then
   use the admin tool to disable the corresponding datasource.

4. Install the Patch.
   $ install.sh -install 2>&1| tee install.log

Note: the patch installation program will automatically stop the
middleware, install the patch files, and restart the middleware.

3.6   Post-Installation Instructions

3.6.1 Resource the Profile

If you have not done so already, log off and log on as flexpm.

3.6.2 Re-enable the datasource in Prospect Web

Once the installation has completed, re-enable the datasource in Prospect Web (if you
disabled it before starting the patch installation)

1. If you disabled any datasources in step 3.5.3, then use the
   admin tool to re-enable them.

3.7   Uninstall Procedure

1. Login as flexpm and verify $FLEXPM_HOME is set.
   $ echo $FLEXPM_HOME
   If there are multiple Prospect installations on the server,
   source the .profile for the Prospect installation for which
   this patch should be applied.

2. Go to $FLEXPM_HOME/patches/Core8.0.4_P7 directory.
   `$ cd $FLEXPM_HOME/patches/Core8.0.4_P7`

3. If Prospect Web is accessing this Prospect installation, then use the admin tool to disable the corresponding datasource.

4. Remove the patch.
   `$ install.sh -uninstall 2>&1| tee uninstall.log`

5. If you disabled any datasources in step 3.7.3, then use the admin tool to re-enable them.

Note: the patch un-installation program will automatically stop the middleware, uninstall the patch files, and restart the middleware.

4 Useful Hints

4.1 New Configuration Option

Important! *Notice that in an Oracle instance the maximum number of processes, that can be created for the execution of jobs, is determined by the JOB_QUEUE_PROCESSES parameter.*

When you configure the parameter PartMaintSessions, BHSessions, and SummationSessions, described in the following sections, make sure the JOB_QUEUE_PROCESSES value is high enough to allow your settings.

4.1.1 PartMaintSessions

PartMaintSessions is the maximum number of slave sessions that can be created during the part_maint job. The default is 1 session.

Part_maint is currently designed as a single-session Prospect job. As the volume of work climbs due to an increase in the number of tables (i.e. pegs) and an increase in the volume of data (i.e. larger networks), we need to move to a higher throughput, multiple-session design. This new design allows part_maint to take advantage of the increased number of CPU's available on these large systems. Part_maint is enhanced to use a single master session and a configurable number of slave sessions to perform the operations.

The recommended value is 8 and can be incremented gradually up to a maximum value of 16, depending on the number of CPUs.

To set the number of sessions, do the following:

```
$ sqlplus $DB_CONNECT

SQL> exec wm_sysval.forcesysval('PartMaintSessions', '8');

SQL> commit;
```

To check the value:

```
SQL> select * from wm_system_values_v where name =
'PartMaintSessions';

NAME                           VALUE

PartMaintSessions         8
```

4.1.2 BHSessions

BHSessions is the maximum number of slave sessions that can be created during the BH job. The default is 1 session.

The typical values chosen range between 4 and 16 depending on the number of available CPUs. Each session requires its own CPU. Available CPUs vary depending on the configuration and load on the target box.

4.1.2.1 How to set BHSessions parameter

To set the number of sessions , do the following:

```
$ sqlplus $DB_CONNECT

SQL> exec wm_sysval.forcesysval('BHSessions', '4');

SQL> commit;
```

To check the value:

```
SQL> select * from wm_system_values_v where name = 'BHSessions';

NAME                              VALUE

BHSessions              4
```

4.1.3 BHSlices

BHSlices is the maximum number of sliced tasks that can be created during the BH job. The default is equal to the BHSessions parameter value.

4.1.3.1 How to set BHSlices parameter

To enable the BH Slicing and set the number of slices, do the following:

```
$ sqlplus $DB_CONNECT

SQL> exec wm_sysval.forcesysval('BHSliceThreshold', '10000');

SQL> commit;


SQL> exec wm_sysval.forcesysval('BHSessions', '8');

SQL> commit;


SQL> exec wm_sysval.forcesysval('BHSlices', '8');

SQL> commit;
```

To check the values:

```
SQL> select * from wm_system_values_v where name =
'BHSliceThreshold';

NAME                              VALUE

BHSliceThreshold        10000


SQL> select * from wm_system_values_v where name = 'BHSessions';

NAME                              VALUE

BHSessions              8
```

```
SQL> select * from wm_system_values_v where name = 'BHSlices';

NAME                              VALUE

BHSlices                8
```

For appropriate parameter values, please, contact IBM Customer support.

4.1.4   SummationSessions

SummationSessions is the maximum number of slave sessions that can be created
during the SUMMATION job. The default is 1 session.

The typical values chosen range between 4 and 16 depending on the number of available
CPUs. Each session requires its own CPU. Available CPUs vary depending on the
configuration and load on the target box.

4.1.4.1 How to set SummationSessions parameter

To set the number of sessions, do the following:

```
$ sqlplus $DB_CONNECT

SQL> exec wm_sysval.forcesysval('SummationSessions', '4');

PL/SQL procedure successfully completed.

SQL> commit;

Commit complete.
```

To check the value:

```
SQL>  select * from wm_system_values_v where name like 'Summ%';

NAME                              VALUE

---------------------------- ------------------------------

SummationSessions               4
```

4.1.5   SummationParallelHint

The Summation query has been modified to support a PARALLEL option as part of the
INSERT/SELECT Summation query. This value is controlled by the new System
Parameter, SummationParallelHint, which can be tuned and set by the IBM support
personnel.

4.2   Soft Alarm Trigger

This patch fixes a known Soft Alarm issue introduced in code 8.0.4.1 which suppresses
the trigger of soft alarms. Please apply this patch immediately to all 8.0.4.1 based
applications which use the soft alarm feature.

5 Customer Support

Contact IBM Customer Support if a problem is encountered during the installation of this patch.

6 Manifest

Prospect 8.0.4 P7 contains:

```
patches
patches/Core8.0.4_P7
patches/Core8.0.4_P7/backup
patches/Core8.0.4_P7/backup/install
patches/Core8.0.4_P7/backup/install/db
patches/Core8.0.4_P7/backup/install/db/Oracle8i
patches/Core8.0.4_P7/backup/install/db/Oracle8i/bh
patches/Core8.0.4_P7/backup/install/db/Oracle8i/cfgtool
patches/Core8.0.4_P7/backup/install/db/Oracle8i/dictionary
patches/Core8.0.4_P7/backup/install/db/Oracle8i/part_maint
patches/Core8.0.4_P7/backup/install/db/Oracle8i/rg
patches/Core8.0.4_P7/backup/install/db/Oracle8i/scheduler
patches/Core8.0.4_P7/backup/install/db/Oracle8i/scheduler/except
patches/Core8.0.4_P7/backup/install/db/Oracle8i/scheduler/sched
patches/Core8.0.4_P7/backup/install/db/Oracle8i/softalarm
patches/Core8.0.4_P7/backup/install/db/Oracle8i/softalarm/sacheck
patches/Core8.0.4_P7/backup/install/db/Oracle8i/summarize
patches/Core8.0.4_P7/backup/install/db/Oracle8i/utility
patches/Core8.0.4_P7/backup/install/db/Oracle8i/wmlib
patches/Core8.0.4_P7/backup/install/peik
patches/Core8.0.4_P7/backup/install/peik/loaders
patches/Core8.0.4_P7/backup/install/peik/loaders/scripts
patches/Core8.0.4_P7/backup/install/pm
patches/Core8.0.4_P7/backup/install/pm/adm
patches/Core8.0.4_P7/backup/install/pm/bin
patches/Core8.0.4_P7/backup/install/pm/lib
patches/Core8.0.4_P7/backup/install/pm/lib/wm
patches/Core8.0.4_P7/backup/install/pm/run
patches/Core8.0.4_P7/backup/install/sw
patches/Core8.0.4_P7/backup/install/sw/oracle
patches/Core8.0.4_P7/install
patches/Core8.0.4_P7/install/compile-schema.sql
```

```
patches/Core8.0.4_P7/install/Core8.0.4_P7.build
patches/Core8.0.4_P7/install/db
patches/Core8.0.4_P7/install/db/Oracle8i
patches/Core8.0.4_P7/install/db/Oracle8i/bh
patches/Core8.0.4_P7/install/db/Oracle8i/bh/BH_Driver_tmp.sql
patches/Core8.0.4_P7/install/db/Oracle8i/bh/BH_Update.sql
patches/Core8.0.4_P7/install/db/Oracle8i/bh/BH_UpdatePack.sql
patches/Core8.0.4_P7/install/db/Oracle8i/bh/busyhour_task.sql
patches/Core8.0.4_P7/install/db/Oracle8i/bh/busyhour_taskDrop.sql
patches/Core8.0.4_P7/install/db/Oracle8i/cfgtool
patches/Core8.0.4_P7/install/db/Oracle8i/cfgtool/ConfigToolParser
11.sql
patches/Core8.0.4_P7/install/db/Oracle8i/cfgtool/create_schema_ob
jects.sql
patches/Core8.0.4_P7/install/db/Oracle8i/dictionary
patches/Core8.0.4_P7/install/db/Oracle8i/dictionary/wmn_pkgb.sql
patches/Core8.0.4_P7/install/db/Oracle8i/part_maint
patches/Core8.0.4_P7/install/db/Oracle8i/part_maint/createTables.
sql
patches/Core8.0.4_P7/install/db/Oracle8i/part_maint/createTrigger
s.sql
patches/Core8.0.4_P7/install/db/Oracle8i/part_maint/Makefile
patches/Core8.0.4_P7/install/db/Oracle8i/part_maint/part_maint.sq
l
patches/Core8.0.4_P7/install/db/Oracle8i/part_maint/part_maintDro
p.sql
patches/Core8.0.4_P7/install/db/Oracle8i/part_maint/part_maintPac
k.sql
patches/Core8.0.4_P7/install/db/Oracle8i/part_maint/part_stat.sql
patches/Core8.0.4_P7/install/db/Oracle8i/part_maint/part_statDrop
.sql
patches/Core8.0.4_P7/install/db/Oracle8i/part_maint/part_task.sql
patches/Core8.0.4_P7/install/db/Oracle8i/part_maint/part_taskDrop
.sql
patches/Core8.0.4_P7/install/db/Oracle8i/rg
```

```
patches/Core8.0.4_P7/install/db/Oracle8i/rg/rg_common.sql
patches/Core8.0.4_P7/install/db/Oracle8i/scheduler
patches/Core8.0.4_P7/install/db/Oracle8i/scheduler/except
patches/Core8.0.4_P7/install/db/Oracle8i/scheduler/except/except.
sql
patches/Core8.0.4_P7/install/db/Oracle8i/scheduler/sched
patches/Core8.0.4_P7/install/db/Oracle8i/scheduler/sched/schedule
_maint
patches/Core8.0.4_P7/install/db/Oracle8i/softalarm
patches/Core8.0.4_P7/install/db/Oracle8i/softalarm/sacheck
patches/Core8.0.4_P7/install/db/Oracle8i/softalarm/sacheck/schedc
heck.sql
patches/Core8.0.4_P7/install/db/Oracle8i/summarize
patches/Core8.0.4_P7/install/db/Oracle8i/summarize/CreateSumTab.s
ql
patches/Core8.0.4_P7/install/db/Oracle8i/summarize/summarize.sql
patches/Core8.0.4_P7/install/db/Oracle8i/summarize/summarizePack.
sql
patches/Core8.0.4_P7/install/db/Oracle8i/summarize/summ_task.sql
patches/Core8.0.4_P7/install/db/Oracle8i/summarize/summ_taskDrop.
sql
patches/Core8.0.4_P7/install/db/Oracle8i/utility
patches/Core8.0.4_P7/install/db/Oracle8i/utility/autoclean.sql
patches/Core8.0.4_P7/install/db/Oracle8i/utility/autocleanPack.sq
l
patches/Core8.0.4_P7/install/db/Oracle8i/utility/sched_immediate_
pkg.sql
patches/Core8.0.4_P7/install/db/Oracle8i/utility/sched_immediate_
pkgb.sql
patches/Core8.0.4_P7/install/db/Oracle8i/wmlib
patches/Core8.0.4_P7/install/db/Oracle8i/wmlib/wm_sysval_pkg.sql
patches/Core8.0.4_P7/install/db/Oracle8i/wmlib/wm_sysval_pkgb.sql
patches/Core8.0.4_P7/install/dew_drops.sql
patches/Core8.0.4_P7/install/downgrade_summations.sql
patches/Core8.0.4_P7/install/patch.sql
```

```
patches/Core8.0.4_P7/install/peik
patches/Core8.0.4_P7/install/peik/loaders
patches/Core8.0.4_P7/install/peik/loaders/scripts
patches/Core8.0.4_P7/install/peik/loaders/scripts/file_decode.pl
patches/Core8.0.4_P7/install/pm
patches/Core8.0.4_P7/install/pm/adm
patches/Core8.0.4_P7/install/pm/adm/exp_udc_convert.pl
patches/Core8.0.4_P7/install/pm/adm/import_docs.sh
patches/Core8.0.4_P7/install/pm/adm/part_mask.sh
patches/Core8.0.4_P7/install/pm/adm/wmpm-init
patches/Core8.0.4_P7/install/pm/adm/wmpm.sh
patches/Core8.0.4_P7/install/pm/bin
patches/Core8.0.4_P7/install/pm/bin/commander10g
patches/Core8.0.4_P7/install/pm/bin/commander9i
patches/Core8.0.4_P7/install/pm/bin/doproc
patches/Core8.0.4_P7/install/pm/bin/loader10g
patches/Core8.0.4_P7/install/pm/bin/loader9i
patches/Core8.0.4_P7/install/pm/bin/rgp
patches/Core8.0.4_P7/install/pm/lib
patches/Core8.0.4_P7/install/pm/lib/wm
patches/Core8.0.4_P7/install/pm/lib/wm/libdataDictionary.so
patches/Core8.0.4_P7/install/pm/lib/wm/libexpressions.so
patches/Core8.0.4_P7/install/pm/lib/wm/libReportEngine.so
patches/Core8.0.4_P7/install/pm/lib/wm/libWmGateway.so
patches/Core8.0.4_P7/install/pm/run
patches/Core8.0.4_P7/install/pm/run/bhd.sh
patches/Core8.0.4_P7/install/pm/run/bhrgp.sh
patches/Core8.0.4_P7/install/pm/run/download
patches/Core8.0.4_P7/install/pm/run/ps-mgr
patches/Core8.0.4_P7/install/pm/run/rgp.sh
patches/Core8.0.4_P7/install/pm/run/udr.sh
patches/Core8.0.4_P7/install/recompile_view.sh
patches/Core8.0.4_P7/install/schema_patch.sql
patches/Core8.0.4_P7/install/sw
patches/Core8.0.4_P7/install/sw/oracle
```

```
patches/Core8.0.4_P7/install/sw/oracle/compile-schema.sql
patches/Core8.0.4_P7/install/unpatch.sql
patches/Core8.0.4_P7/install/upgrade_summations.sql
patches/Core8.0.4_P7/install.sh
```

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