

# Release Notes

**Prospect® 8.0.4 P8 (8.0.4.8)**



## **DOCUMENT CONTROL**

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Build: 8.0.4.8 b3

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# 1 Description

Prospect® 8.0.4 P8 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 P7, in order to bring a system up to the 8.0.4 P8 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, 8.0.4 P6 as 8.0.4.6, and 8.0.4 P7 as 8.0.4.7.

This patch introduces the solutions for several field APARs and an enhancement to improve the sessions handling during BusyHour, Partition Maintenance and Summation job execution.

## 2 Resolved Issues

This release includes the following resolved issues:

<i>DDTS or ClearQuest / SRS or APAR</i>	<i>Released in</i>	<i>Description</i>
SEAd66354	8.0.4 P2	SOFT ALARM: Code cleanup needed to schedcheck.sql. We have areas where logging prep is performed ant then discarded.
SEAd66777	8.0.4 P2	Ensure minimum enqueue times is 1 second to prevent flood status msg
SEAd67198 / SRS 39525	8.0.4 P2	Summation performance enhancements - round 2
SEAd67258	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
SEAd67756	8.0.4 P2	BH_DRIVER_TMP and its INDEX needs to be moved to TRAFFIC_LARGE tablespace
SEAd67708	8.0.4 P2	Order of Copy in BH JOB is making it to run longer times
SEAd67118	8.0.4 P2	AutoClean package for clean_iot and clean_schedule share parameter AutoCleanMaxLoops. Need to make them independent for each feature.
SEAd67897 / SRS41749	8.0.4 P2	SOFT ALARM: clean_iot does not check for Job Type 2 (SA) before run causing ORA-01410
SEAd68331	8.0.4 P3	BH Slices: ability to splice a table into sections for BH copy purposes
SEAd68461	8.0.4 P3	Import/Export sometimes fails to import udc
SEAd66544	8.0.4 P3	SBH and reports fail due to fx datasever restart
SEAd68574	8.0.4 P3	Some percentage values incorrectly truncated in reports
SEAd68590 / IZ09131	8.0.4 P3	Summation job does not work on ericsson ggu
SEAd68058	8.0.4 P4	PartMaint enhancements
SEAd68839 / IZ14072	8.0.4 P4	BH Slicing doesn't work properly, due to overlapping instance in slices
SEAd68933 / IZ15501	8.0.4 P4	BH optimistic insert
SEAd68939 / IZ15512	8.0.4 P4	Incremental Summation enhancement
SEAd69008 / IZ14162	8.0.4 P4	Busy Hour Update Copy does not show in ps-mgr watch command
SEAd69134 / IZ15662	8.0.4 P4	UDC computations incorrect in 8.0.4.x
SEAd68988 / IZ13905	8.0.4 P5	Need rg_common.sql to set hash_area_size
SEAd69274 / IZ13925	8.0.4 P5	BHUpdate log shows #INVALID# message during copy to BH table
SEAd69079 / IZ14994	8.0.4 P5	ORA-01410 errors occur when reports and soft alarms run
SEAd69384	8.0.4 P5	Improve the 'ps-mgr purge' command
SEAd69523 / 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 OEVEN 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

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valnt00040597 / IZ19261	8.0.4 P8	CORE 8.0.4.4 : THREAD POOL SIZE CAUSING FX TO RESTART OFTEN
valnt00047489 / IZ29225	8.0.4 P8	LOST OR FAILED CLIENT CONNECTIONS DUE TO FX DATASERVER RESTARTS
valnt00051301	8.0.4 P8	Add parent_isalive check to multi-session part_maint, busyhour and summations
valnt00053095	8.0.4 P8	Jloader fails with ORA errors
valnt00053128 / IZ31688	8.0.4 P8	A BUG IN CFGTOOL CAUSED OMISSION OF ALL FIELD_AGGREGATION TYPESEXCEPT 'A' OR 'S' RESULTING IN MISSING NEW COLUMNS FOR SUMMATION

## 3 Installation and Upgrade Instructions

This section describes how to install the Prospect patch, 8.0.4 P8. 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

<i>Privilege</i>	<i>Required</i>
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 $FLEXPM_HOME`  
 If there are multiple Prospect installations on the server, source the .profile for the Prospect installation for which this patch should be applied.
2. Copy 8.0.4-PROSPECT-IF0008.tar.gz into \$FLEXPM\_HOME.
3. Uncompress the file.  
`$ gunzip 8.0.4-PROSPECT-IF0008.tar.gz`

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4. Untar the package. It will create a subdirectory (patches/Core8.0.4\_P8) in \$FLEXPM\_HOME and untar the files in to this directory.  

```
$ tar -xvpf 8.0.4-PROSPECT-IF0008.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\_P8 directory.  

```
$ cd $FLEXPM_HOME/patches/Core8.0.4_P8
```
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.



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2. Go to `$FLEXPM_HOME/patches/Core8.0.4_P8` directory.  
\$ cd `$FLEXPM_HOME/patches/Core8.0.4_P8`
  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.



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## **5 Customer Support**

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

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## 6 Manifest

Prospect 8.0.4 P8 contains:

```
patches
patches/Core8.0.4_P8
patches/Core8.0.4_P8/backup
patches/Core8.0.4_P8/backup/install
patches/Core8.0.4_P8/backup/install/db
patches/Core8.0.4_P8/backup/install/db/Oracle8i
patches/Core8.0.4_P8/backup/install/db/Oracle8i/bh
patches/Core8.0.4_P8/backup/install/db/Oracle8i/cfgtool
patches/Core8.0.4_P8/backup/install/db/Oracle8i/dictionary
patches/Core8.0.4_P8/backup/install/db/Oracle8i/part_maint
patches/Core8.0.4_P8/backup/install/db/Oracle8i/rg
patches/Core8.0.4_P8/backup/install/db/Oracle8i/scheduler
patches/Core8.0.4_P8/backup/install/db/Oracle8i/scheduler/except
patches/Core8.0.4_P8/backup/install/db/Oracle8i/scheduler/sched
patches/Core8.0.4_P8/backup/install/db/Oracle8i/softalarm
patches/Core8.0.4_P8/backup/install/db/Oracle8i/softalarm/sacheck
patches/Core8.0.4_P8/backup/install/db/Oracle8i/summarize
patches/Core8.0.4_P8/backup/install/db/Oracle8i/utility
patches/Core8.0.4_P8/backup/install/db/Oracle8i/wmlib
patches/Core8.0.4_P8/backup/install/db/Oracle8i/xr
patches/Core8.0.4_P8/backup/install/peik
patches/Core8.0.4_P8/backup/install/peik/loaders
patches/Core8.0.4_P8/backup/install/peik/loaders/scripts
patches/Core8.0.4_P8/backup/install/pm
patches/Core8.0.4_P8/backup/install/pm/adm
patches/Core8.0.4_P8/backup/install/pm/bin
patches/Core8.0.4_P8/backup/install/pm/lib
patches/Core8.0.4_P8/backup/install/pm/lib/wm
patches/Core8.0.4_P8/backup/install/pm/run
patches/Core8.0.4_P8/backup/install/sw
patches/Core8.0.4_P8/backup/install/sw/oracle
patches/Core8.0.4_P8/install
```

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```
patches/Core8.0.4_P8/install/compile-schema.sql
patches/Core8.0.4_P8/install/Core8.0.4_P8.build
patches/Core8.0.4_P8/install/db
patches/Core8.0.4_P8/install/db/Oracle8i
patches/Core8.0.4_P8/install/db/Oracle8i/bh
patches/Core8.0.4_P8/install/db/Oracle8i/bh/BH_Driver_tmp.sql
patches/Core8.0.4_P8/install/db/Oracle8i/bh/BH_Update.sql
patches/Core8.0.4_P8/install/db/Oracle8i/bh/BH_UpdatePack.sql
patches/Core8.0.4_P8/install/db/Oracle8i/bh/busyhour_task.sql
patches/Core8.0.4_P8/install/db/Oracle8i/bh/busyhour_taskDrop.sql
patches/Core8.0.4_P8/install/db/Oracle8i/cfgtool
patches/Core8.0.4_P8/install/db/Oracle8i/cfgtool/create_schema_obe
jects.sql
patches/Core8.0.4_P8/install/db/Oracle8i/cfgtool/ConfigToolParser
11.sql
patches/Core8.0.4_P8/install/db/Oracle8i/dictionary
patches/Core8.0.4_P8/install/db/Oracle8i/dictionary/wmn_schema.sq
l
patches/Core8.0.4_P8/install/db/Oracle8i/dictionary/wmn_pkgb.sql
patches/Core8.0.4_P8/install/db/Oracle8i/part_maint
patches/Core8.0.4_P8/install/db/Oracle8i/part_maint/createTables.
sql
patches/Core8.0.4_P8/install/db/Oracle8i/part_maint/createTrigger
s.sql
patches/Core8.0.4_P8/install/db/Oracle8i/part_maint/Makefile
patches/Core8.0.4_P8/install/db/Oracle8i/part_maint/part_maintDro
p.sql
patches/Core8.0.4_P8/install/db/Oracle8i/part_maint/part_maint.sq
l
patches/Core8.0.4_P8/install/db/Oracle8i/part_maint/part_maintPac
k.sql
patches/Core8.0.4_P8/install/db/Oracle8i/part_maint/part_stat.sql
patches/Core8.0.4_P8/install/db/Oracle8i/part_maint/part_statDrop
.sql
patches/Core8.0.4_P8/install/db/Oracle8i/part_maint/part_task.sql
```

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```
patches/Core8.0.4_P8/install/db/Oracle8i/part_maint/part_taskDrop
.sql
patches/Core8.0.4_P8/install/db/Oracle8i/rg
patches/Core8.0.4_P8/install/db/Oracle8i/rg/rg_common.sql
patches/Core8.0.4_P8/install/db/Oracle8i/scheduler
patches/Core8.0.4_P8/install/db/Oracle8i/scheduler/except
patches/Core8.0.4_P8/install/db/Oracle8i/scheduler/except/except.
sql
patches/Core8.0.4_P8/install/db/Oracle8i/scheduler/sched
patches/Core8.0.4_P8/install/db/Oracle8i/scheduler/sched/schedule
_maint
patches/Core8.0.4_P8/install/db/Oracle8i/softalarm
patches/Core8.0.4_P8/install/db/Oracle8i/softalarm/sacheck
patches/Core8.0.4_P8/install/db/Oracle8i/softalarm/sacheck/schedc
heck.sql
patches/Core8.0.4_P8/install/db/Oracle8i/summarize
patches/Core8.0.4_P8/install/db/Oracle8i/summarize/CreateSumTab.s
ql
patches/Core8.0.4_P8/install/db/Oracle8i/summarize/summarize.sql
patches/Core8.0.4_P8/install/db/Oracle8i/summarize/summarizePack.
sql
patches/Core8.0.4_P8/install/db/Oracle8i/summarize/summ_task.sql
patches/Core8.0.4_P8/install/db/Oracle8i/summarize/summ_taskDrop.
sql
patches/Core8.0.4_P8/install/db/Oracle8i/utility
patches/Core8.0.4_P8/install/db/Oracle8i/utility/autoclean.sql
patches/Core8.0.4_P8/install/db/Oracle8i/utility/autocleanPack.sq
l
patches/Core8.0.4_P8/install/db/Oracle8i/utility/sched_immediate_
pkg.sql
patches/Core8.0.4_P8/install/db/Oracle8i/utility/sched_immediate_
pkgb.sql
patches/Core8.0.4_P8/install/db/Oracle8i/wmlib
patches/Core8.0.4_P8/install/db/Oracle8i/wmlib/wm_sysval_pkg.sql
patches/Core8.0.4_P8/install/db/Oracle8i/wmlib/wm_sysval_pkgb.sql
```

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```
patches/Core8.0.4_P8/install/db/Oracle8i/xr
patches/Core8.0.4_P8/install/db/Oracle8i/xr/xr_util.sql
patches/Core8.0.4_P8/install/dew_drops.sql
patches/Core8.0.4_P8/install/downgrade_summations.sql
patches/Core8.0.4_P8/install/patch.sql
patches/Core8.0.4_P8/install/peik
patches/Core8.0.4_P8/install/peik/loaders
patches/Core8.0.4_P8/install/peik/loaders/scripts
patches/Core8.0.4_P8/install/peik/loaders/scripts/file_decode.pl
patches/Core8.0.4_P8/install/pm
patches/Core8.0.4_P8/install/pm/adm
patches/Core8.0.4_P8/install/pm/adm/exp_udc_convert.pl
patches/Core8.0.4_P8/install/pm/adm/import_docs.sh
patches/Core8.0.4_P8/install/pm/adm/part_mask.sh
patches/Core8.0.4_P8/install/pm/adm/wmpm-init
patches/Core8.0.4_P8/install/pm/adm/wmpm.sh
patches/Core8.0.4_P8/install/pm/bin
patches/Core8.0.4_P8/install/pm/bin/commander10g
patches/Core8.0.4_P8/install/pm/bin/commander9i
patches/Core8.0.4_P8/install/pm/bin/doproc
patches/Core8.0.4_P8/install/pm/bin/loader10g
patches/Core8.0.4_P8/install/pm/bin/loader9i
patches/Core8.0.4_P8/install/pm/bin/rgp
patches/Core8.0.4_P8/install/pm/lib
patches/Core8.0.4_P8/install/pm/lib/wm
patches/Core8.0.4_P8/install/pm/lib/wm/libdataDictionary.so
patches/Core8.0.4_P8/install/pm/lib/wm/libexpressions.so
patches/Core8.0.4_P8/install/pm/lib/wm/libReportEngine.so
patches/Core8.0.4_P8/install/pm/lib/wm/libWmGateway.so
patches/Core8.0.4_P8/install/pm/run
patches/Core8.0.4_P8/install/pm/run/bhd.sh
patches/Core8.0.4_P8/install/pm/run/bhrgp.sh
patches/Core8.0.4_P8/install/pm/run/download
patches/Core8.0.4_P8/install/pm/run/ps-mgr
patches/Core8.0.4_P8/install/pm/run/rgp.sh
```

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```
patches/Core8.0.4_P8/install/pm/run/udr.sh
patches/Core8.0.4_P8/install/recompile_view.sh
patches/Core8.0.4_P8/install/schema_patch.sql
patches/Core8.0.4_P8/install/sw
patches/Core8.0.4_P8/install/sw/oracle
patches/Core8.0.4_P8/install/sw/oracle/compile-schema.sql
patches/Core8.0.4_P8/install/unpatch.sql
patches/Core8.0.4_P8/install/upgrade_summations.sql
patches/Core8.0.4_P8/install.sh
```

