Oracle® Fusion Middleware Oracle Fusion Middleware Bundle Patch Release Notes for IDM Stack Patch Bundle



ORACLE

Oracle Fusion Middleware Oracle Fusion Middleware Bundle Patch Release Notes for IDM Stack Patch Bundle, 12.2.1.4.250115

G25746-01

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Contents

Bui	ndle Patch Release Notes for IDM SPB	
Abo	out the Oracle Identity Management Stack Patch Bundle (SPB)	
Abo	out the SPBAT Utility	
Sys	stem Overview	
Pre	erequisites	
5.1	Staging and verification	5-1
5.2	Minimum OPatch Version Check	5-2
5.3	Backup	5-2
5.4	Setting Heap size for OPatch	5-2
5.5	Removing Inactive Patches	5-2
SP	B Patches and their Applicability	
SP	B usage Instructions	
Pha	ases in the Patching Process	
Ар	plying the SPB Patches using SPBAT	
Pos	st-Install and Configuration Steps - OAM	

- 11 Post-Install and Configuration Steps OIG
- 12 Post-Install and Configuration Steps OUD
- 13 Post-Install and Configuration Steps OID
- 14 Troubleshooting
- 15 Limitations



1 Bundle Patch Release Notes for IDM SPB

This README provides information about the SPBAT utility used for applying Oracle Identity Management SPB.

This document contains the following sections:

- About the Oracle Identity Management Stack Patch Bundle (SPB)
- About the SPBAT Utility
- System Overview
- Prerequisites
- SPB Patches and their Applicability
- SPB usage Instructions
- Phases in the Patching Process
- Applying the SPB Patches using SPBAT
- Post-Install and Configuration Steps OAM
- Post-Install and Configuration Steps OIG
- Post-Install and Configuration Steps OUD
- Post-Install and Configuration Steps OID
- Troubleshooting
- Limitations



About the Oracle Identity Management Stack Patch Bundle (SPB)

Oracle Identity Management Stack Patch Bundle (SPB) which is released every quarter, is essentially a collection of latest upper stack and lower stack mandatory patches applicable for IDM 12.2.1.4 installed environments. IDM 12.2.1.4 customer environments are broadly divided into following categories:

- 1. OAM Oracle Access Manager
- 2. OIG Oracle Identity Governance
- 3. OUD Oracle Universal Directory
- 4. OID Oracle Internet Directory

IDM customers belonging to above categories are required to apply the mandatory Patches prescribed for their respective installed environments. Please go through the remaining sections in this document for more information on applying the above patches on IDM 12.2.1.4 installed environments.



3 About the SPBAT Utility

Stack Patch Bundle Automation Tool (SPBAT) applies IDM patches (delivered via IDM Quarterly Stack Patch Bundle) on IDM 12.2.1.4 installed environments. On-Premise customers can use this tool directly. In case of any issues or additional guidance the Customers can open a Service Request (SR) with Oracle Support.



4 System Overview

The SPBAT utility is developed by using SHELL and Python scripts. This utility is supported only for LINUX X86-64, SOLARIS_SPARC64, SOLARIS64(x86), WINDOWS64 platforms on which IDM 12.2.1.4 suite is deployed.

ORACLE_HOME (Oracle Home) setup for IDM 12.2.1.4 is broadly divided into the following categories:

- 1. OAM Oracle Access Manager
- 2. OIG Oracle Identity Governance
- 3. OUD Oracle Universal Directory
- 4. OID Oracle Internet Directory

In the following sections, the above categories are described as separate install types, each containing a dedicated ORACLE_HOME deployed in dedicated VMs/Hosts.

In case the setup is spread across multiple VMs/Hosts, then perform the patching steps for each ORACLE_HOME on respective VMs. If there are multiple ORACLE_HOME locations on the same VM, then perform the patching steps for each ORACLE_HOME separately. If two or more install types share the same ORACLE_HOME, then perform the patching steps for each install type against the ORACLE_HOME.



Ensure that you meet the following requirements before you attempt to run the SPBAT utility on IDM 12.2.1.4 installed environment.

- Staging and verification
- Minimum OPatch Version Check
- Backup
- Setting Heap size for OPatch
- Removing Inactive Patches

5.1 Staging and verification

 Decide where you want to install the SPB bundle. The location should have 50GB of free space. The location should be accessible to all IDM hosts with "read", "write" and "execute" rights enabled on the file system. Extract the zip to this location and verify it contains the following directory structure:

```
IDM_SPB_12.2.1.4_<VERSION>/
```

spbat-bundle.properties (file)

```
README.txt (file)
```

README.html (this file)

binary_patches (dir)

tools (dir)

etc (dir)

upgrade_installers (dir)

2. Navigate to the SPBAT directory and verify it contains the following directory structure:

IDM_SPB_12.2.1.4_<VERSION>/tools/spbat/generic/SPBAT

```
ExecEngine (dir)
README.txt (file)
bin(dir)
config(dir)
env (dir)
spbat.bat (file)
spbat.sh (file)
tools (dir)
version.txt (file)
```



3. DO NOT make any changes to the directory structure under IDM_SPB_12.2.1.4_<VERSION> location.

5.2 Minimum OPatch Version Check

Ensure that ORACLE_HOME has minimum required OPatch version, that is, 13.9.4.2.13 or higher.

To verify, run the following command under the ORACLE HOME/OPatch directory:

-bash-4.2\$./opatch

versionOPatch Version: 13.9.4.2.13

OPatch Succeeded.

5.3 Backup

- 1. Create a complete backup of ORACLE_HOME and DOMAIN_HOME locations before Downtime phase.
- 2. Create a cold backup of the entire IDM setup by using standard backup software/utilities.

5.4 Setting Heap size for OPatch

OPatch sets the default Heap size to 3 GB for LinuxX86-64 and to 1.5GB for other platforms. It is suggested to override this default value for platform patches (except LinuxX86-64) before OPatch session is invoked by setting the parameter as:

export OPATCH JRE MEMORY OPTIONS="-Xmx3072m"

5.5 Removing Inactive Patches

Customers who want to improve storage and SPB patching performance should consider the following steps:

1. Choose the level of rollback capability needed.

To keep the rollback level of SPB environment at N-1 (where N is the current patch level), update the RETAIN_INACTIVE_PATCHES parameter to value 1 (RETAIN_INACTIVE_PATCHES=1) in the <ORACLE_HOME>/OPatch/config/opatch.properties file.

2. Run the following command to delete the inactive patches:

<ORACLE_HOME>/OPatch/opatch util deleteinactivepatches -oh <ORACLE_HOME>

Known Issue :

Currently the deleteinactivepatches option deletes only 1 PSU/BP/RU chain and its overlays. In Oracle Homes where there are more than 1 inactive PSU/BP/RU chain (for



example, DBRU, GIRU applied/installed on ORACLE_HOME), the user needs to run opatch command with deleteinactivepatches option multiple times.

As a verification point, after each run of <code>opatch</code> command with <code>deleteinactivepatches</code> option, run the following command:

```
<ORACLE_HOME>/OPatch/opatch util listorderedinactivepatches -oh <ORACLE HOME>
```

When the output of this command looks like the following:

Total: 1 inactive RU/CPU patch (es) and 1 inactive overlay patch (es).

then there is no need to run again the <code>opatch</code> command with <code>deleteinactivepatches</code> option as the desired rollback level has been achieved.

3. Run the following command to perform cleanup:

<ORACLE HOME>/OPatch/opatch util cleanup -oh <ORACLE HOME>

This would cleanup any stale files.



6 SPB Patches and their Applicability

Following is the list of patches included in the SPB and which will be applied on the respective ORACLE_HOME using SPBAT utility:

Patches	Patch Number	Applicability			
MERGE REQUEST ON TOP OF 12.2.1.4.0 FOR BUGS 34065178 34113169	36649916	OAM	OIG	OUD	OID
OIM 12CPS3 UPGRADE STUCK AT SCHEMAREAD INESSQUERIE S QUERYINDEX NAMES	32999272	OAM	OIG	OUD	OID
MERGE REQUEST ON TOP OF 12.2.1.4.0 FOR BUGS 34280277 26354548 26629487 29762601	34542329	OAM	OIG	OUD	OID
OID BUNDLE PATCH 12.2.1.4.221222	34947852	-	-	-	OID
DATABASE RELEASE UPDATE 19.25.0.0.0 FOR FMW DBCLIENT	37202254	-	-	-	OID
ONE OFF PATCH TO RELINK OID WITH DBCLIENT - JAN'25 BP	37410838	-	-	-	OID
OINAV PATCH 12.2.1.4.241015	37054395	OAM	OIG	-	-

Patches	Patch Number	Applicability			
MERGE REQUEST ON TOP OF 12.2.1.4.0 FOR BUGS 20623024 29790738	31676526	OAM	OIG	-	-
OAS 12.2.1.4.5 - RCU CREATION WITH RAC DB SHOWS INCORRECT PORT WARNING	30540494	OAM	OIG	-	-
Coherence 12.2.1.4 Cumulative Patch 24 (12.2.1.4.24)	37351860	OAM	OIG	OUD	OID
FMW PLATFORM BUNDLE PATCH 12.2.1.4.240812	36789759	OAM	OIG	OUD	OID
RDA release 25.1-2025121 for FMW 12.2.1.4.0	37202255	OAM	OIG	OUD	OID
WEBLOGIC SAMPLES SPU 12.2.1.4.240416	36426672	OAM	OIG	OUD	OID
OSS 19C BUNDLE PATCH 12.2.1.4.241119	37297691	OAM	OIG	OUD	OID
JDBC19.25 BUNDLE PATCH 12.2.1.4.241107	37258699	OAM	OIG	OUD	OID
WLS PATCH SET UPDATE 12.2.1.4.250107	37453807	OAM	OIG	OUD	OID
ADR FOR WEBLOGIC SERVER 12.2.1.4.0 - SIZE OPTIMIZED FOR JAN 2024	35965629	OAM	OIG	OUD	OID
FMW Thirdparty Bundle Patch 12.2.1.4.241210	37374672	OAM	OIG	OUD	OID

Patches	Patch Number	Applicability			
OCT 2024 CLONING SPU FOR FMW 12.2.1.4.0	37056593	OAM	OIG	OUD	OID
OPSS BUNDLE PATCH 12.2.1.4.240220	36316422	OAM	OIG	OUD	OID
OWSM BUNDLE PATCH 12.2.1.4.240908	37035947	OAM	OIG	OUD	OID
OAM BUNDLE PATCH 12.2.1.4.241227	37430708	OAM	OIG	-	-
OIM BUNDLE PATCH 12.2.1.4.241211	37382959	OAM	OIG	-	-
OUD BUNDLE PATCH 12.2.1.4.241003	37129794	-	-	OUD	-
ADF BUNDLE PATCH 12.2.1.4.241212	37388935	OAM	OIG	OUD	OID
SOA Bundle Patch 12.2.1.4.241212	37389582	-	OIG	-	-
WebCenter Core Bundle Patch 12.2.1.4.241114	37284722	OAM	OIG	OUD	OID

Customers upgrading from Oct'22 IDM SPB or earlier, please note:

From January 2025 Bundle Patch cycle, the underlying DB Client in OID 12.2.1.4 ORACLE HOME should be updated to 19.25 version.

This update is delivered via the following patches:

- DB Client 19c Installer 34761383
- DB Client 19.25 37202254
- OSS 19c BP 37297691
- OID BP 34947852

IDM SPB 12.2.1.4_<VERSION> includes all the above-mentioned deliverables (along with other OID dependent patches) and helps in installing the updates.

The SPBAT utility (in the PreStop phase) will detect DB Client version in OID Home and if the DB Client version is found to be 12c (12.1.0.2 series), the SPBAT PreStop phase will fail. In the SPBAT execution log, we will see the recommendation to update DB Client to 19c (12.2.1.19.0) version

Sample snippet of SPBAT PreStop execution log:

```
[FAILED] Environment has not met the minimum DBClient version(Database_Client 12.2.1.19.0) requirement.Please perform the following steps
```

1) Shutdown all IDM services running on oid12214ga19cdbserv4dbpsu

2)Take a backup of MW_HOME : /scratch/oseidmqa/MW/Oracle and the CENTRAL_INVENTORY: /scratch/oseidmqa/oraInventory

3) Run following script to upgrade dbclient

/scratch/oseidmqa/IDM_SPB_12.2.1.4_<VERSION>/tools/spbat/generic/SPBAT/logs/ oid12214ga19cdbserv4dbpsu_oid_12.2.1.4_<VERSION>/preCheck/dbclient/ dbclient_upgrade.sh

OSS Bundle Patch and OID Bundle Patch will be updated via the SPBAT Downtime phase update.



7 SPB usage Instructions

To run the SPBAT utility, navigate to the IDM_SPB_12.2.1.4_<VERSION>/tools/spbat/generic/ SPBAT/ directory.

The SPBAT utility usage and execution steps are as follows:

To get usage details on the command line, enter:

```
[Unix]
./spbat.sh
```

[Windows] spbat.bat

To obtain SPBAT utility version, enter:

./spbat.sh -version

To apply the patches using SPBAT utility, enter:

```
[Unix]
./spbat.sh -type <install_type> -phase <phase> -mw_home <mw_home> -
spb_download_dir <spb_download_dir> -log_dir <log_dir>
```

```
[Windows]
spbat.bat -type <install_type> -phase <phase> -mw_home <mw_home> -
spb download dir <spb download dir> -log dir <log dir>
```

Here:	
-install_type:	The install type or IDM component, such as oam/oig/oud/oid.
-phase:	The various phases of applying the patch, such as PreStop/Downtime/PostStart.
-mw_home:	The path to Oracle Home directory.
-spb_download_dir:	The path to IDM_SPB_12.2.1.4_ <version> stage location directory.</version>
-log_dir (optional):	The path to log_dir directory, this is where you want logs to go on your file system. The default directory is created under IDM_SPB_ <version>/tools/spbat/generic/ SPBAT/logs location, or you can set your</version>



	own location which exists and has "write" access.
	To be set to "true" or "false" value. This is to display additional information on the default output stream (STDOUT).
-force (optional and applicable for PreStop phase):	To be set to "true" or "false" value. When set to "true", it forces performing all the validations.

• To know the status of SPBAT anytime once the patching has started, enter:

```
[Unix]
./spbat.sh -status report -type <install_type> -mw_home <mw_home> -log_dir
<log dir>
```

```
[Windows]
spbat.bat -status report -type <install_type> -mw_home <mw_home> -log_dir
<log_dir>
```

Here:		
-report:	is a constant implying status report.	
-install_type:	refers to install type, such as oam/oig/oud/ oid.	
-mw_home:	is the path to Oracle Home directory.	
-log_dir (optional):	The path to log_dir directory, this is where you want logs to go on your file system. The default directory is created under IDM_SPB_ <version>/tools/spbat/generic/ SPBAT/logs location, or you can set your own location which exists and has "write" access.</version>	

Important Note for Windows users: Please open the Command Prompt as Administrator and execute the spbat.bat script for patching.

8 Phases in the Patching Process

Once the steps described in section **Prerequisites** are completed, the sequences of phases in applying the SPB patches using SPBAT utility on the IDM 12.2.1.4 installed environment are:

a. PreStop	Run the SPBAT utility for the PreStop phase to evaluate the environment prior to patching. Verify the html report summary and refer to the logs and reports, if needed. This phase can be run while the services, instances and/or servers are up and running.
b. Stop Services	Stop all IDM related services (including WebLogic Servers) running on IDM hosts.
c. Backup	Create a cold backup of the entire ORACLE_HOME and DOMAIN_HOME directories.
d. Downtime Patching	Run the SPBAT utility for the Downtime phase.
e. Start Services	Start all IDM related services (including WebLogic Servers) running on IDM hosts, and make sure these are up and running.
f. PostStart	Run the SPBAT utility for the PostStart phase.
g. Complete Validation	Once the SPB patching activity is complete, verify the environment and URLs.

For detailed information about the steps in the execution phases, please refer to section "8 Applying the SPB Patches using SPBAT".



Applying the SPB Patches using SPBAT

After completing the steps described in section **Prerequisites**, follow the next steps to apply the SPB patches in the IDM 12.2.1.4 environment:

PreStop:

To be done on all IDM hosts, as described in section System Overview:

1. Run the SPBAT utility with appropriate options for the PreStop phase based on the install type:

[Unix - Please open the bash shell and execute]

cd IDM_SPB_12.2.1.4.<VERSION>/tools/spbat/generic/SPBAT ./spbat.sh -type <oam/oig/oud/oid> -phase prestop -mw_home <path to mw_home> -spb_download_dir <path to IDM_SPB_12.2.1.4.<VERSION> stage location> -log_dir <log_dir>

[Windows - Please open the Command Prompt as Administrator and execute]

```
cd IDM_SPB_12.2.1.4.<VERSION>\tools\spbat\generic\SPBAT
spbat.bat -type <oam/oig/oud/oid> -phase prestop -mw_home <path to
mw_home> -spb_download_dir <path to IDM_SPB_12.2.1.4.<VERSION> stage
location> -log dir <log dir>
```

- 2. Perform the following after running the script:
 - a. Review the html reports before proceeding with the next phase. The analysis reports are generated under <log_dir>/<hostname_type>patch_log_dir/spbat-logs/ reports location.
 - **b.** Upgrade OPatch after creating a full backup of ORACLE_HOME if the minimum OPatch version requirement is not met.
 - c. If there are any issues that need to be addressed, you can run the **PreStop** phase again but will need to create and use a new logs directory prior to doing so.
 - d. If no issues are found, for Downtime and PostStart phases please use the same log directory as in the Prestop phase.
- 3. For IDM cluster, repeat steps 1 and 2 on each VM. Make sure that the patching user and ORACLE HOME install user/owner are same to avoid permission issues.
- 4. If two or more install types share the same ORACLE_HOME, then repeat steps 1 and 2 against ORACLE HOME for each install type.

Stop Services:

- Stop all IDM related services (including WebLogic servers) running on IDM hosts.
- Make sure that no services are accessing the ORACLE HOME binaries.

Backup:



- **1.** Create a complete backup of ORACLE HOME and DOMAIN HOME locations.
- Create a cold backup of the entire IDM setup by using standard backup software/utilities.
- 3. Create a backup of the database.

Downtime Patching:

To be done on all IDM hosts, as described in section System Overview:

 Run the SPBAT utility with appropriate options for the Downtime phase based on the install type:

[Unix - Please open the bash shell and execute]

```
cd IDM_SPB_12.2.1.4.<VERSION>/tools/spbat/generic/SPBAT
./spbat.sh -type <oam/oig/oud/oid> -phase downtime -mw_home <path to
mw_home> -spb_download_dir <path to IDM_SPB_12.2.1.4.<VERSION> > -log_dir
<log_dir>
```

[Windows - Please open the Command Prompt as Administrator and execute]

```
cd IDM_SPB_12.2.1.4.<VERSION>\tools\spbat\generic\SPBAT
spbat.bat -type <oam/oig/oud/oid> -phase downtime -mw_home <path to
mw_home> -spb_download_dir <path to IDM_SPB_12.2.1.4.<VERSION> > -log_dir
<log_dir>
```

- 2. Perform the following after running the script:
 - In case of any failure, review the patching logs before proceeding to next steps.
- 3. Perform appropriate Post-Install and Configuration steps before the servers are started up:
 - OAM Please refer to item A. Before Server Startup of section Post-Install and Configuration Steps - OAM in this document.
 - DIG Please refer to item A. Before Server Startup of section Post-Install and Configuration Steps - OIG in this document.
 - c. OUD Please refer to item **A. Before Server Startup** of section Post-Install and Configuration Steps OUD in this document.
 - OID Please refer to item A. Before Server Startup of section Post-Install and Configuration Steps - OID in this document.
- For IDM cluster, repeat steps 1 and 2 on each VM. Make sure that the patching user and ORACLE HOME install user/owner are the same to avoid permission issues.
- If two or more install types share the same ORACLE_HOME, then repeat steps 1,2 and 3
 against ORACLE HOME for each install type.

Start Services:

Start all IDM related services (including WebLogic Servers) running on IDM hosts.

PostStart:

To be done on all IDM hosts, as described in section System Overview:

 Run the SPBAT utility with appropriate options for the PostStart phase based on the install type:



[Unix - Please open the bash shell and execute]

```
cd IDM_SPB_12.2.1.4.<VERSION>/tools/spbat/generic/SPBAT
./spbat.sh -type <oam/oig/oud/oid> -phase poststart -mw_home <path to
mw_home> -spb_download_dir <path to IDM_SPB_12.2.1.4.<VERSION> > -log_dir
<log_dir>
```

[Windows - Please open the Command Prompt as Administrator and execute]

```
cd IDM_SPB_12.2.1.4.<VERSION>\tools\spbat\generic\SPBAT
spbat.bat -type <oam/oig/oud/oid> -phase poststart -mw_home <path to
mw_home> -spb_download_dir <path to IDM_SPB_12.2.1.4.<VERSION> > -log_dir
<log dir>
```

- After running the script, review the patching logs generated under /patch_log_dir/spbatlogs for any failures.
- 3. Perform appropriate Post-Install and Configuration steps after the servers are started up:
 - OAM Please refer to item "B. After Server Startup" of section "9 Post-Install and Configuration Steps - OAM" in this document
 - OIG Please refer to item "B. After Server Startup" of section "10 Post-Install and Configuration Steps - OIG" in this document
 - c. OUD Please refer to item "B. After Server Startup" of section "11 Post-Install and Configuration Steps OUD" in this document
 - OID Please refer to item "B. After Server Startup" of section "12 Post-Install and Configuration Steps - OID" in this document
- 4. For IDM cluster, repeat steps 1 and 2 on each VM. Make sure that the patching user and ORACLE HOME install user/owner are the same to avoid permissions issues.
- If two or more install types share the same ORACLE_HOME, then repeat steps 1,2 and 3 against ORACLE HOME for each install type.

Complete Validation:

Once the SPB patching activity is completed, restart and verify the environment and URLs.



10

Post-Install and Configuration Steps - OAM

Following are the post-install and configuration steps which are required to be performed after Downtime phase once the OAM binaries are applied using OPatch:

A. Before Server Startup

After applying patches, clear out the contents of any cache/tmp/stage directories which exist in all \$DOMAIN HOME/servers/<SERVER NAME> locations, prior to restarting.

B. After Server Startup

There are no post-install and configuration actions to be performed currently.



11

Post-Install and Configuration Steps - OIG

Following are the post-install and configuration steps which are required to be performed after Downtime phase once the OIG binaries are applied using OPatch:

A. Before Server Startup

After applying patches, clear out the contents of any cache/tmp/stage/dc directories which exist in all \$DOMAIN HOME/servers/<SERVER NAME> locations, prior to restarting.

B. After Server Startup

- Update \$OIM_ORACLE_HOME/server/bin/patch_oim_wls.profile file. For detailed instructions, please refer to the section Stage 2: Filling in the patch_oim_wls.profile File in IDM_SPB_12.2.1.4.<VERSION>/etc/ OIG_Bundle_Patch_Readme.html.
- 2. Execute \$OIM ORACLE HOME/server/bin/patch oim wls.sh script.



Following are the post-install and configuration steps which are required to be performed after Downtime phase once the OUD binaries are applied using OPatch:

A. Before Server Startup

After applying patches, clear out the contents of any cache/tmp/stage directories which exist in all <code>\$DOMAIN HOME/servers/<SERVER NAME></code> locations, prior to restarting.

B. After Server Startup

There are no post-install and configuration actions to be performed currently.



13 Post-Install and Configuration Steps - OID

There are no post-install and configuration actions to be performed currently.



14 Troubleshooting

- **1.** If the minimum OPatch version requirement is not met, then upgrade the OPatch after creating a full backup of ORACLE HOME.
- 2. If you encounter an error in roll-back of OID one-off patch, please refer to Doc ID 2944818.1 for further details.
- 3. As more and more patches are applied, OPatch backs up subset patches in the ORACLE_HOME/.patch_storage directory to facilitate a rollback. This might result in performance issues. If you observe such performance issues, please refer to Doc ID 2942050.1 for further details.
- 4. If you encounter any errors during any phase of applying the patch, contact Oracle Support.



15 Limitations

- 1. The SPBAT utility automates the binary patch apply for the patches that are obtained through the SPB bundle only. It excludes the configuration actions and server restart operations.
- 2. The SPBAT utility does not handle the start, stop, and post-patching configuration operations of the servers. The user can use either custom startup/shutdown scripts or the ones available with the product. The post-patching configuration operations, if any, must be manually performed, as documented in the SPB README.html.
- 3. The SPBAT utility supports only IDM 12.2.1.4 and 12.2.1.3 versions deployed on LinuxX86-64, SOLARIS SPARC64, SOLARIS64 (x86), WINDOWS64 platforms.
- 4. The SPBAT utility has minimalistic error handling, and it relies on the correctness of the input values provided by the user while using the tool.
- 5. The SPBAT utility does not create any backup of the environment/application/configuration/ data prior to individual patching of the product or component.
- 6. The SPBAT utility does not provide rollback support. For any issues, use the backups (created before Downtime phase) to restore the environment. However, while applying SPB, existing one-offs present in the ORACLE_HOME can be rolled back. Manually review the ORACLE_HOME inventory and re-apply any one-offs that might have been rolled back during the application of IDM SPB.

