

# Precise 9.8.0.1 release information

## Introduction

### Introducing Precise 9.8.0.1

Precise 9.8.0.1 is an update on Precise 9.8.0 providing multiple enhancements and fixes. This update can be applied from the Precise Admin Point GUI. This document describes the new features introduced, the technologies supported, and the issues resolved by this update.

### Prerequisites

Before applying the update, we need to ensure that the Precise framework and all monitored servers are on Precise 9.8.0.

### Installing Precise 9.8.0.1

Precise 9.8.0.1 can be applied using the **Admin Point > Management > Updates** feature. While applying the update, select all packages from left to right so that all packages are applied. Selecting partial packages may lead to issues later. The version of Precise on which the update is applied must be 9.8.0.

## New Features and Enhancements for Precise 9.8.0.1

### Support for Oracle 12cR2 (12.2.0.1) on Windows

Support has been added for monitoring Oracle 12.2.0.1 instances on Windows. For more information about monitoring Oracle 12c instances on Windows, see Oracle 12c on Windows.

### Support for Oracle 12cR2 (12.2.0.1) on AIX

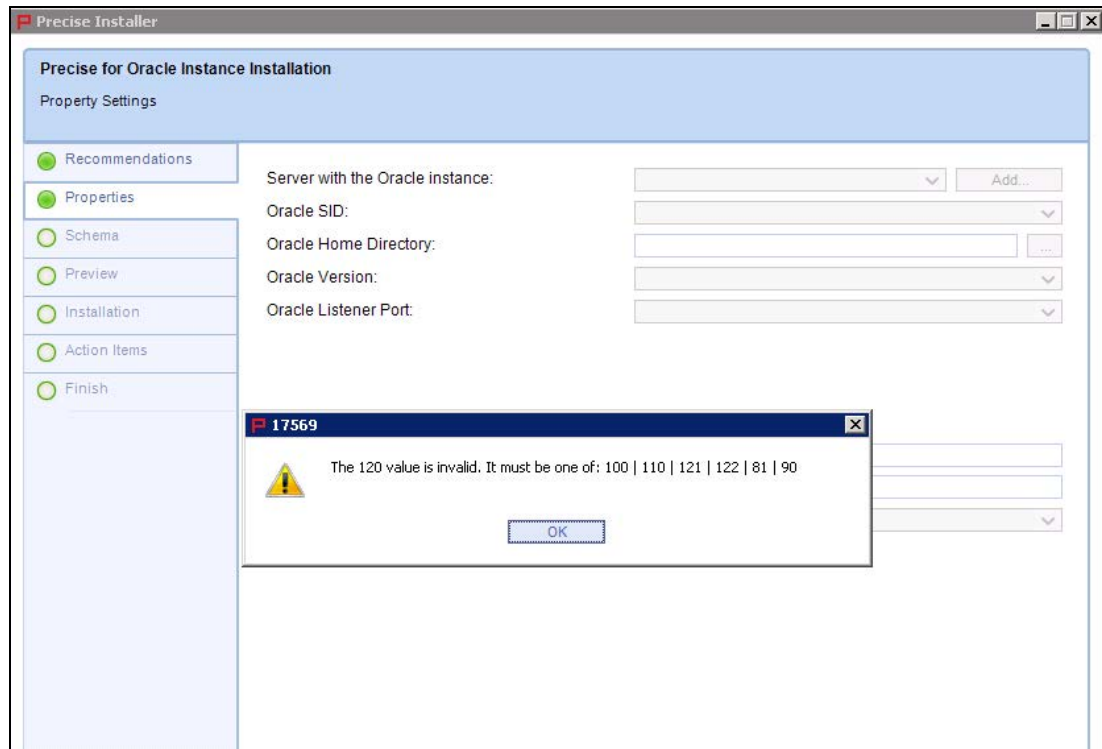
Support has been added for monitoring Oracle 12.2.0.1 instances on AIX.

### Support for monitoring EBS 12.2 on Linux

Support has been added for monitoring EBS 12.2 on Linux. For more information about monitoring EBS 12.2 instances on Linux, see EBS 12.2 Monitoring.

# Known Issues

- For existing oracle 12c instances installed before the update, editing an instance using the Admin Point > Installation tab shows a popup error of type:



**Solution:** Go to Admin Point, and then open the Registry Editor.

- Perform the following steps for all of your monitored servers where an Oracle 12c agent was already installed before the update was applied:
  - Navigate to the following location:  
`registry/connection-pools/jdbc/pools/<Instance_Name>-<Monitored_Server>`
  - Find `<version>120</version>` and replace the version 120 with one of the following:
    - 121 (If the monitored Oracle version is 12cR1.)
    - 122 (If the monitored Oracle version is 12cR2.)
  - Save and update all focals.
  - Navigate to the following location:  
`registry/instances/oracle/<Monitored_Server>/<Instance_Name>/`
  - Find `<version>120</version>` and replace the version 120 with one of the following:
    - 121 (If the monitored Oracle version is 12cR1.)
    - 122 (If the monitored Oracle version is 12cR2.)
  - Save and update all focals.

# Oracle 12c on Windows

When installing a new Oracle 12c and later agent on Windows:

- where the listener is already installed,
- the Oracle service is running, and
- you are using a standard Oracle home user who is not part of Admin group;

be sure to allow full access to Oracle home user on the Precise root directory on the monitored machine (the machine where oracle agent is being installed/oracle instance is running), and add the Oracle home user to the performance monitoring group.

# EBS 12.2 Monitoring

## Points to note before monitoring EBS 12.2

- The EBS 12.2 Oracle Applications tier is supported only when the Oracle tier is based on a 11g or a 12c non-containerized instance. EBS with an Oracle 12c containerized instance is not currently supported.
- When setting up the Oracle tier as part of setting up monitoring of a EBS environment, create the collector user directly in the Oracle database and set the user as 'Editions Enabled'. This can be done as follows:
  1. `create user <precise_col_username> identified by enable editions`
  2. `grant create session to <precise_col_username>`During Oracle collector installation, use this new account, and then select the Use Existing User option.
- The recommended order of installation of EBS tiers is:
  1. Install the Precise for Oracle collector agent.
  2. Install Web agent.
  3. Install J2EE agent.
  4. Install the Interpoint and instruct the installer to integrate with Insight.
  5. Perform the Interpoint for OA action items.

## Installing EBS 12.2 monitoring for all tiers

### Oracle Tier

Install the Precise for Oracle collector agent with a user account with Editions Enabled as mentioned in the previous section. If either the Precise PMDB Oracle instance or the EBS Oracle database instance is on Oracle 12c, switch to using the 12c tuner by modifying the registry or use the sqlnet.ora workaround as mentioned in the following IDERA solution:

<https://idera.secure.force.com/precise/50133000000f80n?srPos=0=501>.

### Web Tier

Install Precise for Web collector agent and monitor the Web Apache and Web Weblogic instances.

For Web Apache, the httpd.conf file is in a location such as:

```
/u01/install/VISION/fs1/FMW_Home/webtier/instances/EBS_web_EBSDB_OHS1/config/OHS/  
EBS_web_EBSDB
```

For Web Weblogic, add the following jar to the classpath of oacore and oafm servers:

```
/products/www/instances/<instance id>/lib/psww_filter.jar
```

In Web Weblogic, instance installation action items for adding filter content for oacore and oafm servers using the web.xml are in a location similar to:

```
/u01/install/VISION/fs1/FMW_Home/Oracle_EBS-appl/applications/oacore/html/  
WEB-INF/web.xml
```

```
/u01/install/VISION/fs1/FMW_Home/Oracle_EBS-appl/applications/oafm/webservices/  
WEB-INF/web.xml
```

## J2EE Tier

Install Precise for J2EE collector and monitor the OA Core, FM, and Forms J2EE instances. If EBS is based on a Weblogic Server, then the update of some arguments is done via Weblogic Console as mentioned in the action items screen. Once the Forms J2EE instance is installed, you can include custom instrumentation by adding a custom invocation type `FORMS` to `Custom.xml` under `j2ee/config/<jvm>/` and the methods to instrument as well. Here is an example of adding the `startProcess` method of the class `oracle.forms.servlet.RunformProcess`.

```
<instrumenter-config>  
  <custom-config>  
    <java-classes>  
      <java-class>  
        <invocation-type>  
          FORMS  
        </invocation-type>  
        <class-name>  
          oracle.forms.servlet.RunformProcess  
        </class-name>  
        <methods>  
          <method>  
            <name>  
              startProcess  
            </name>  
          </method>  
        </methods>  
      </java-class>  
    </java-classes>  
  </custom-config>  
</instrumenter-config>
```

You can add more methods as per your requirement. If you need all the methods under the class `oracle.forms.servlet.RunformProcess`, you can edit the `custom.xml` as following:

```
<instrumenter-config>
  <custom-config>
    <java-classes>
      <java-class>
        <invocation-type>
          FORMS
        </invocation-type>
        <class-name>
          oracle.forms.servlet.RunformProcess
        </class-name>
        <methods>
          <method>
            <name>
              *
            </name>
            <apply-to-subtypes>
              True
            </apply-to-subtypes>
          </method>
        </methods>
      </java-class>
    </java-classes>
  </custom-config>
</instrumenter-config>
```

## OA Tier

Add the Oracle Applications tier instance and configure the Forms server jvm to be used by this instance. EBS 12 is based on Forms 10g and is configured to run in servlet mode by default.

Add the following tag to the registry under `instances/j2ee/<instance server>/<jvm>.xml`:

```
<oa_collection_mode>forms_servlet</oa_collection_mode>
```

Restart the Precise for J2EE agent and restart the FORMS JVM.

# Configuring an Interpoint for Oracle Applications for data collection

The Interpoint for Oracle Applications identifies activities of Oracle Applications by monitoring the events that are called by forms. Configuring an Interpoint for Oracle Applications to collect the relevant data using the following steps.

- Manually updating the customization library
- Manually updating Oracle Applications' system profile (Oracle applications 11.5 or higher)

## Manually updating the customization library

To have the Interpoint for Oracle Applications collect forms data, you must manually add some information to the customization library of the Oracle Applications forms. This information includes user, form, and application names. The customization library consists of the following files:

- CUSTOM.pld
- CUSTOM.pll
- CUSTOM.plx

You can only modify the CUSTOM.pld file. This file does not exist by default but can be extracted from the CUSTOM.pll file. For the changes to take global effect in the customization library after they are implemented in the CUSTOM.pld file, you need to regenerate the CUSTOM.pll and CUSTOM.plx files from the CUSTOM.pld file. Note that the file names may appear lowercase or uppercase (for example CUSTOM.pll). In the following task, all filenames are uppercase. If you copy and then paste this information, verify that the case matches the actual file names on your system.

To update the customization library on UNIX:

1. Find the CUSTOM.pll and CUSTOM.plx files, usually located in your Oracle Applications folder.
2. Back up the CUSTOM.pll and CUSTOM.plx files and, if it exists, also the CUSTOM.pld file.
3. Verify that no Oracle Applications user is currently logged on to the database or any other database using the CUSTOM.pll and CUSTOM.plx files.
4. Change to the folder that contains the CUSTOM.pll file. This folder is pointed to by the application variable \$FORMS60\_PATH.
5. To extract the CUSTOM.pld file, run the following command using the Oracle account of Oracle Applications (such as APPS):

```
f60gen Module=CUSTOM.pll Module_Type=LIBRARY userid=user/password  
script=yes
```

**NOTE:** For Oracle Applications version R12 replace f60gen command with frmcmp\_batch.

6. Run the following command to edit the file: vi CUSTOM.pld
7. Find the EVENT procedure, locate the first BEGIN after the commented sample code, and insert the following code, starting with BEGIN.

Do not insert the script into commented sample code. You can easily mistake sample code for real code. You need to know the Precise collector user name (i.e the Oracle user with which you installed the Oracle collector) as that will be used to prefix a function as follows -

```
BEGIN
```

```
IF (event_name='WHEN-NEW-FORM-INSTANCE') THEN
```

```
DECLARE
```

```
cursor_name INTEGER;
```

```

rows_processed INTEGER;

del CHAR(1) := SUBSTR(get_application_property(CURRENT_FORM),1 ,1);

BEGIN

  IF (del != '/') THEN

    del := '\';

  END IF;

  cursor_name := dbms_sql.open_cursor;

  dbms_sql.parse(cursor_name,

    'begin .VERITAS_APPS_LOG( 'F' , :username , :application , :form ,
    NULL) ; end ;'

    ,1);

  dbms_sql.bind_variable(cursor_name,':username' , FND_PROFILE.VALUE(
  'USERNAME'));

  dbms_sql.bind_variable(cursor_name,':application' , SUBSTR(
  get_application_property(CURRENT_FORM),

  instr(get_application_property(CURRENT_FORM),del , -1)+1,
  LENGTH(SUBSTR(      get_application_property( CURRENT_FORM),

  instr(get_application_property(CURRENT_FORM), del,-1)+1))-4));

  dbms_sql.bind_variable(cursor_name,':form' ,

  Name_In( 'system.current_form')); rows_processed :=
  dbms_sql.execute(cursor_name); dbms_sql.close_cursor(cursor_name);

EXCEPTION

WHEN OTHERS THEN

  BEGIN

    dbms_sql.close_cursor(cursor_name);

  EXCEPTION

  WHEN OTHERS THEN

    NULL;

  END;

END;

END IF;

EXCEPTION

WHEN OTHERS THEN

  NULL;

END;

```



8. To regenerate the CUSTOM.pll file from the CUSTOM.pld file, run the following command using the Oracle account of Oracle Applications (such as APPS):

- a. For Oracle Application version under R12 (exclusive):

```
f60gen Module=CUSTOM.pld Module_Type=LIBRARY userid=user/password  
parse=yes
```

- b. For Oracle Applications version R12:

```
frmcmp_batch Module=CUSTOM Module_Type=LIBRARY userid=user/password  
parse=yes
```

9. To re-generate the CUSTOM.plx file from the CUSTOM.pll file, run the following command using the Oracle account of Oracle Applications (such as APPS):

```
f60gen Module=CUSTOM.pll Module_Type=LIBRARY userid=user/password  
compile_all=yes
```

Note that for Oracle Applications version R12, replace the f60gen command with frmcmp\_batch.

10. To verify the CUSTOM library change, run the following script:

```
/products/oracle//schema/pss_verify_oa_customer_pll.sh
```

After configuring the interpoint, refer to Precise Installation guide for Manually updating Oracle Applications system profile (Oracle applications 11.5 or higher).