



webMethods Optimize Base Engine - Analytic Engine fails to start with BeanCreationException

KB #:	1766515	Operating System Family:	UX
Product:	webMethods Optimize Base Engine (OBE)	Operating System:	AIX
Version:	8.2.1		
Last Updated:	25-DEC-2015		

Description:

Analytic Engine fails to start with the following error after Optimize upgrade from 8.0 to 8.2.

```
(OPTIMIZE) [Analytic Engine v8.2.1.0.Stack.UnknownKey] 2015-09-28 14:57:56.832 EST ERROR: Unable to start the engine.
(OPTIMIZE) [Analytic Engine v8.2.1.0.Stack.UnknownKey] 2015-09-28 14:57:56.832 EST ERROR:
org.springframework.beans.factory.BeanCreationException: Error creating bean with name 'definitionCache' defined in file
[/applic/webMethods8/webMethods822/optimize/analysis/conf/spring/core.spring.xml]: Invocation of init method failed; nested exception is
java.lang.RuntimeException: com.webmethods.sc.caching.CachingException: Key object cannot be null
(OPTIMIZE) [Analytic Engine v8.2.1.0.Stack.UnknownKey] 2015-09-28 14:57:56.832 EST ERROR: at

org.springframework.beans.factory.support.AbstractAutowireCapableBeanFactory.initializeBean(AbstractAutowireCapableBeanFactory.java:1420)
(OPTIMIZE) [Analytic Engine v8.2.1.0.Stack.UnknownKey] 2015-09-28 14:57:56.832 EST ERROR: wraps: java.lang.RuntimeException:

com.webmethods.sc.caching.CachingException: Key object cannot be null
(OPTIMIZE) [Analytic Engine v8.2.1.0.Stack.UnknownKey] 2015-09-28 14:57:56.832 EST ERROR: at

org.springframework.beans.factory.support.AbstractAutowireCapableBeanFactory.initializeBean(AbstractAutowireCapableBeanFactory.java:1420)
(OPTIMIZE) [Analytic Engine v8.2.1.0.Stack.UnknownKey] 2015-09-28 14:57:56.832 EST ERROR: wraps:
com.webmethods.sc.caching.CachingException: Key object cannot be null at
com.webmethods.sc.caching.impl.CommonCacheImpl.put(CommonCacheImpl.java:308)
```

Resolution:

The error is due to database version mismatch. The file system is in version 8.2 but the database is still in version 8.0. To fix this, do the following.

1. Remove the Analytic Engine configuration to re-deploy Define Environment.

a. In <SAG>/optimize/analysis/conf/system/EndpointRegistry.xml, there are entries like this:

```
<?xml version="1.0" encoding="UTF-8"?><endpoint-registry>
<endpoint host="localhost" name="WS Registry" port="12503" protocol="http"/>
<endpoint host="localhost" name="Configuration Agent" port="15000" protocol="http"/>
<endpoint host="localhost" name="MWS" port="8585" protocol="http"/>
<endpoint host="localhost" name="JMS Provider" port="6149" protocol="broker"/>
</endpoint-registry>
```

b. Delete everything except the <endpoint host="localhost" name="Configuration Agent" port="15000" protocol="https"/> as follow and restart Analytic Engine.

```
<?xml version="1.0" encoding="UTF-8"?><endpoint-registry>
<endpoint host="localhost" name="Configuration Agent" port="15000" protocol="http"/>
</endpoint-registry>
```

c. Analytic Engine startup would be stuck at "Waiting for configuration".

2. Manually migrate the Analysis, ProcessTracker and ProcessAudit DB components to 8.2.1 versions. Database Configurator cannot be used in this case as it will block

the migration due to Database versions are currently at the 8.2.1 latest versions (but the database contents are still in 8.0 versions).

To manually run these migration scripts, login to Oracle SQL Developer, copy these scripts from the server and then execute all using commands:-

```
@C:\MyScript\ora_anl_m_45_to_50.sql;
COMMIT;
```

i. ANALYSIS:

```
- Run <SAG>\common\db\scripts\oracle\analysis\migrate\45_to_50\ora_anl_m_45_to_50.sql
- Run <SAG>\common\db\scripts\oracle\analysis\migrate\50_to_55\ora_anl_m_50_to_55.sql
```

ii. PROCESSTRACKER:

```
- Run <SAG>\common\db\scripts\oracle\processtracker\migrate\40_to_45\ora_ptr_m_40_to_45.sql
```

iii. PROCESSAUDIT:

```
- Run <SAG>\common\db\scripts\oracle\processaudit\migrate\40_to_50\ora_pra_m_runtime.sql
- Note: These are all the expected errors and could be ignored - column already existed, ORA-00001 duplicate.
```

3. Start Analytic Engine again, and then go to My webMethods Server to re-deploy the environment, Analytic Engine would start up successfully.