



**Upcoming:** Exadata计算节点的系统还原

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# Oracle Advisor Webcast

# Exadata计算节点的系统还原

# Peng Wang

## Senior Technical Support Engineer



# 议程

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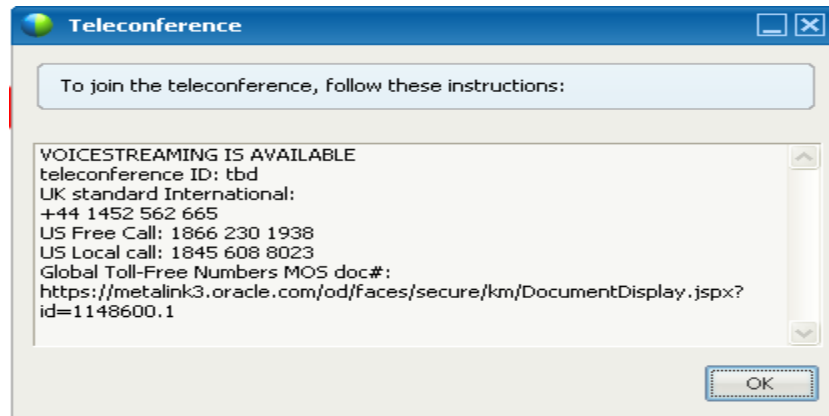
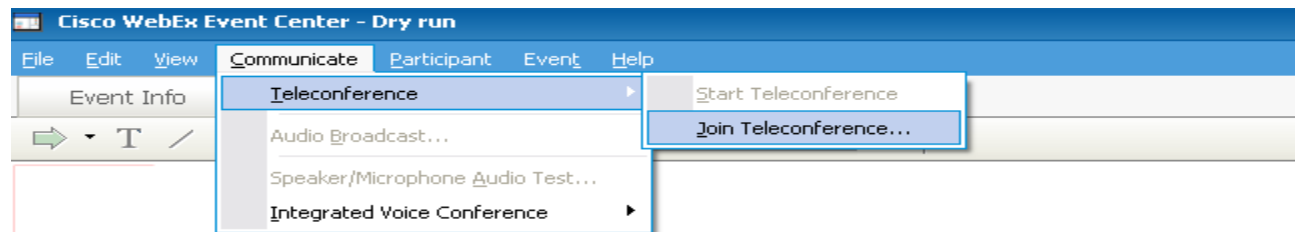
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Participants

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Jens Voigt (me)

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# Oracle Advisor Webcast

## Exadata计算节点的系统还原

Peng Wang

Senior Technical Support Engineer



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# Objectives

- Know when to do BMR
- Perform a Bare Metal Restore
- How to avoid need of a BMR



# Agenda

## Bare Metal Restore of a Compute Node.

- Determine when a Bare Metal Procedure (BMR) is necessary
- Prerequisites for Bare Metal Procedure
- Overview of Bare Metal Procedure
- Recorded Demo of Bare Metal Procedure
- Backup Options that help to prevent the need for a BMR



# Agenda

## What is not covered?

- Hardware diagnosis of failed node.
- Restoring custom scripts, cron jobs, 3<sup>rd</sup> party monitoring software, etc
- The restoring of any site specific OS customizations or provisioning
- Rare cases where there are no surviving database nodes - Reimaging and OneCommand is needed

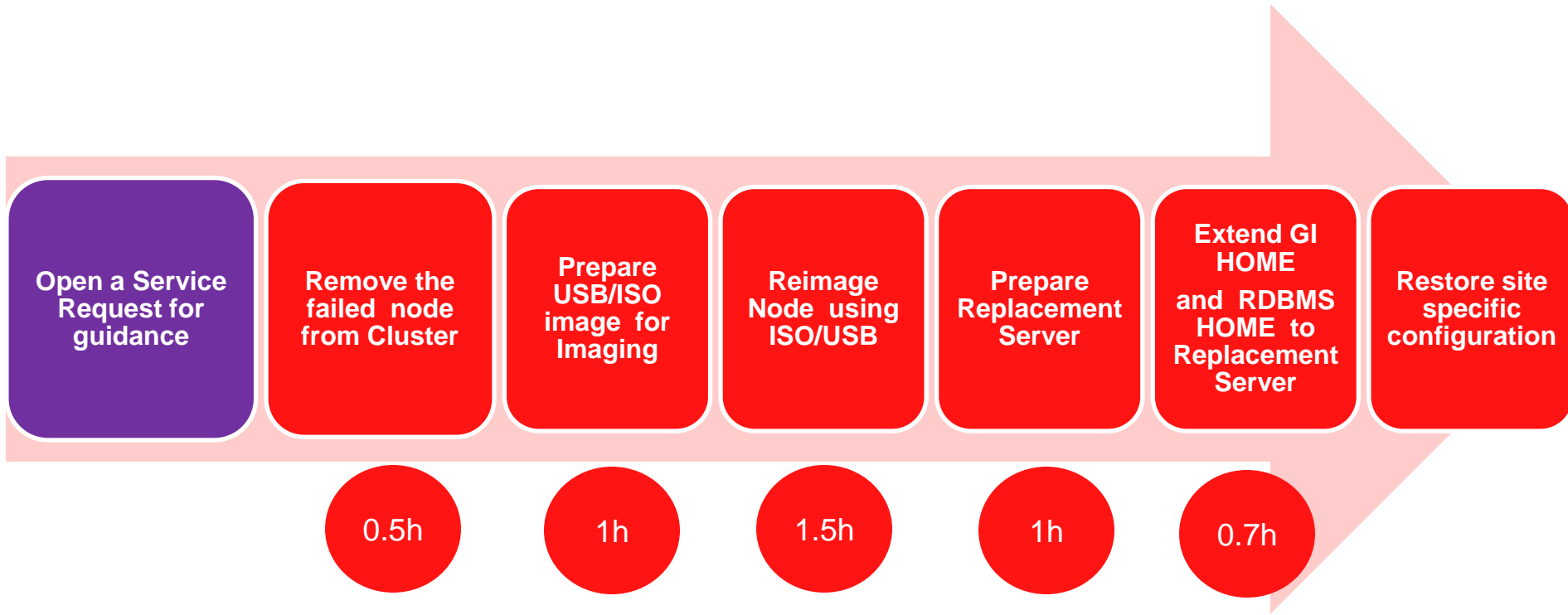
# Determine When a Bare Metal Restore is needed

A Bare Metal Restore procedure is needed when:

- Node can not be brought online due to root file system corruption
- Typically as a result of hardware failures or filesystem corruption
- Can also be due to user error (LVM resizing, `rm -rf /`, `mkfs`, etc)
- When a node is physically replaced or reprovisioned to a different rack

# Overview Bare Metal Restore Procedure

The high level steps are:



# Open A Service request for guidance

- Have Service request open to obtain assistance
- A member of Engineered Systems Support Team will provide guidance
- Engage your DBA and Sys Admin
- The customer is responsible for driving the BMR

# Information about our demo environment

To keep in mind while following the demos and sample commands:

## Quarter rack – 2 database nodes

1<sup>st</sup> node: **dmorldb05** – surviving node, also referenced as **root@surviving**

2<sup>nd</sup> node: **dmorldb06** - failed node, also referenced as **root@reimaged**

Grid Infrastructure (GI) Home: /u01/app/11.2.0.3/grid

RDBMS Home: /u01/app/oracle/product/11.2.0.3/db\_home1

oracle user is the software owner of both GI and RDBMS homes

If the command prompt is prefixed with “#”, the command is run as root

If the command prompt is prefixed with “\$”, command is run as oracle

# Overview Bare Metal Restore Procedure

The high level steps are:

Open a Service  
Request for  
guidance

Remove the  
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Prepare  
USB/ISO  
image for  
Imaging

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Prepare  
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Server

Extend GI  
HOME  
and RDBMS  
HOME to  
Replacement  
Server

Restore site  
specific  
configuration

0.5h

1h

1.5h

1h

0.7h

# Remove the failed node from Cluster.

Perform on only one of the surviving nodes

- Remove failed Node from Clusterware Configuration
- Update Oracle Inventory to remove failed node from node list
- Verify that the node is completely removed
- Remove SSH host identification key of failed node from all surviving nodes for both oracle and root users. dcli can also be used

```
ssh-keygen -R <hostname of failed node>
```

# Remove the failed Node

Perform on a single surviving node – GRID HOME

- Disable Listener

```
[oracle@surviving]$ srvctl disable listener -n dmorldb06
```

- Make sure the Failed Node is unpinned

```
[oracle@surviving]$ olsnodes -s -t
```

- Determine name of VIP Resources for the failed node and stop it

```
[root@surviving ~]# srvctl status nodeapps
```

*VIP dmorl05-vip is enabled*

*VIP dmorl05-vip is running on node: dmorldb05*

*VIP dmorl06-vip is enabled*

*VIP **dmorl06-vip** is running on node: dmorldb05*

```
[root@surviving ~]# srvctl stop vip -i dmorldb06-vip
```



# Remove the failed Node

Perform on only one of the surviving nodes – RDBMS Home

- Update the Node List in Inventory (RDBMS\_HOME)

```
oracle@surviving]$ ./runInstaller -updateNodeList \  
ORACLE_HOME=/u01/app/oracle/product/11.2.0.3/db_home1 "CLUSTER_NODES=dmorldb05"
```

➤ *(CLUSTER\_NODES contains the comma separated list of surviving nodes)*

# Remove the failed Node

Perform on a single surviving node GRID HOME

- Delete the Node From Cluster Registry

```
[root@surviving]# crsctl delete node -n dmorldb06  
CRS-4661: Node dmorldb06 successfully deleted.
```

- Update the Node List for Grid Home in central and local inventories:

```
[oracle@surviving]$ ./runInstaller -updateNodeList ORACLE_HOME=/u01/app/11.2.0.3/grid  
"CLUSTER_NODES=dmorldb05" CRS=TURE
```

*(CLUSTER\_NODES contains the comma separated list of surviving nodes)*

# Remove the failed Node -Verify

Perform on a single surviving node

- Verify the node deletion is successful

```
[oracle@surviving]$ cluvfy stage -post nodedel -n dmorldb06 -verbose
Performing post-checks for node removal
Checking CRS integrity...
The Oracle clusterware is healthy on node "dmorldb05"
CRS integrity check passed
Result:
Node removal check passed
Post-check for node removal was successful.
```

# Demo – Removing node



# Overview Bare Metal Restore Procedure

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Node using  
ISO/USB

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and RDBMS  
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Restore site  
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# Prepare USB/ISO for Reimaging

- USB or ISO ?
- Download the Software
- Prepare USB/ISO

# Prepare USB/ISO for Reimaging

## USB or ISO Considerations

- ISO Image for attaching to ILOM console as virtual CD-ROM drive.
- For ISO method, the workstation used for reimaging must have good uplink bandwidth to the database node, as ISO is ~1.5 GB in size
- ILOM CD-ROM virtualization requires 32-bit JRE/JDK
- USB flash/thumb drive must be physically attached to the DB node
- **Access to video console (via ILOM Remote Console, KVM - if applicable - or from data center via notebook connected to the Cisco management switch or via DB node's VGA port) is required. Access to ILOM's serial /SP/console is **not** a substitute. – See slide notes for further info.**

# Prepare USB/ISO for Reimaging

## Download the Software

- Identify current Exadata software version from a Surviving node.
- Run `# imageinfo` to identify the current version
- For current versions older than 11.2.3.1.0, it may be required to reimage to the initial factory image. Run `# imagehistory` to determine the initial factory image version.
- Download the software from [edelivery.oracle.com](http://edelivery.oracle.com)
  - For “*Select a Product Pack*”, select *Oracle Database*
  - For “*Platform*”, select *Linux x86-64*
  - Select the appropriate 11.2.X version of the *Oracle Exadata Storage Software Media Pack*
  - Download the appropriate version of *Oracle Database Machine Database Host*



# Prepare USB/ISO for Reimaging

## Stage the software and create the ISO or USB image

- The downloaded zip archive must be staged on an EL or RHEL Linux machine that has grub 0.97 and tar with bzip2 support. Running *grub --version* will show the grub version
- All actions must be run as root
- Unpack the software:
  - unzip the V<xxxx>.zip file and the computeImageMaker<version>.tar.zip file
  - untar the computeImageMaker<version>.tar file by running:  
tar -pxvf computeImageMaker<version>.tar  
cd to dl360 directory
- Review the **README\_FOR\_FACTORY.txt** file for additional reimaging methods beyond those covered here: PXE, NFS

# Prepare USB/ISO for Reimaging

## Steps to create the ISO image

- Run as root:

```
# ./makeImageMedia.sh -dualboot no <chosen_filename>.iso
```

- Once the ISO file is generated, copy it to the workstation which will be used for the reimaging and where you will run the ILOM Remote Console from

# Prepare USB/ISO for Reimaging

## Steps to create the USB image

- Insert the USB thumb drive, then determine the assigned block device name by running `ls SCSI` or by reviewing the entries added to `/var/log/messages` after insertion
- Run as root:

```
# ./makeImageMedia.sh -dualboot no
```
- Once the thumb drive is ready, remove it and connect it to DB Node

# Overview Bare Metal Restore Procedure

The high level steps are as below

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Restore site  
specific  
configuration

# Reimage the Server

Attach USB to Node or ISO to ILOM console

- If using ISO method:
  - Launch the ILOM Remote Console and attach the CD-ROM ISO image
  - Set the Next Boot Device as CD-ROM, then power cycle the Node
- If using the USB method:
  - Power cycle the Node, then enter the one-time boot menu (Press **F8** during BIOS POST) and select the USB drive as boot device
- Once imaging media has booted, follow the prompts

# Demo – Reimage the node



# Re-IP the node

## The ipconf at first boot

- After reimage is complete, once node boots after power on, it will prompt for IPs, hostnames, DNS, NTP, etc
- Use the `/opt/oracle.cellos/cell.conf` of a surviving node in same rack
- Make sure to apply the appropriate offset to hostnames and IPs
- If manual changes to interfaces were made post deployment, consult sysadmin and supply the current/accurate information to ipconf, not the obsolete one in the cell.conf
- See slide notes for steps to redirect ipconf to serial console for copy/paste support

# Demo – Re-IP the node





# Overview Bare Metal Restore Procedure

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# Prepare the Replacement Server:

## Copy Configuration files :

- COPY /PREPARE CONFIG files...
  - Copy the **/etc/security/limits.conf** file
  - Merge the contents of **/etc/hosts**
  - Copy the **/etc/oracle/cell/network-config/cellinit.ora** file and update the IP address to reflect the IP address of the bondib0 interface on the replacement database server
  - Copy the **/etc/oracle/cell/network-config/cellip.ora** file. The content of the cellip.ora file should be the same on all database servers.

# Prepare the Replacement Server:

## Prepare OS Groups and Users

- CREATE OS USERS and GROUPS

Add the group (or groups) for the Oracle software owner (typically, the owner is oracle):

- On the surviving node, obtain the current group information:

```
[root@surviving]# id oracle
uid=1000(oracle) gid=1001(oinstall) groups=1001(oinstall),1002(dba)
```

- On the replacement node, use the groupadd command to add the groups:

```
[root@replacement# groupadd -g 1001 oinstall
[root@replacement]# groupadd -g 1002 dba
```

- On the replacement node, use the useradd command to add the users:

```
[root@replacement]# useradd -u 1000 -g 1001 -G 1001,1002 -m -d /home/oracle -s /bin/bash
oracle
```

- On the replacement node, set passwords for oracle user
- Set the same ownership on the cellip.ora and cellinit.ora files as on surviving node

# Prepare the Replacement Server:

SSH equivalence for oracle user is needed before Extending Clusterware

- Set SSH equivalence. On reimaged node:

- i. Switch to the oracle account:

```
[root@replacement]# su - oracle
```

- ii. Copy/create the group file listing the nodes in the Oracle Cluster:  
/opt/oracle.SupportTools/dbs\_group
- iii. Run (do not supply any password when prompted):

```
[root@replacement]$ ssh-keygen -t rsa
```

```
[root@replacement]$ ssh-keygen -t dsa
```

- iii. Propagate the generated public key to remote nodes by running:

```
dcli -l oracle -k -g /opt/oracle.SupportTools/dbs_group
```

- supply password for oracle user for other nodes when prompted

# Prepare the Replacement Server:

SSH equivalence for oracle user is needed before Extending Clusterware

- Set SSH equivalence. On **each** surviving node:

- i. switch to the oracle account:

```
[root@surviving]# su - oracle
```

- ii. Run:

```
[root@surviving]# dcli -k -c dmorldb06 -l oracle
```

- supply password for oracle user set on reimaged node when prompted

# Demo – Prepare reimagined node



# Overview Bare Metal Restore Procedure

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# Add Replacement Server to Clusterware

## Clone Oracle Grid Infra HOME (prechecks)

- Verify the hardware and operating system installations with the Cluster Verification Utility (CVU):

```
[oracle@surviving]$ cluvfy stage -post hwos -n dmorldb05,dmorldb06 -verbose
```

- Verify peer compatibility:

```
[oracle@surviving]$ cluvfy comp peer -refnode dmorldb05 -n dmorldb06 -orainv oinstall -osdba dba \
| grep -B 3 -A 2 mismatched
```

- Perform requisite checks for node addition:

```
[oracle@surviving]$ cluvfy stage -pre nodeadd -n dmorldb06 -fixup -fixupdir /home/oracle/fixupdir
```



# Add Replacement Server to Clusterware

## Clone Oracle Grid Infra HOME

- Run addNode.sh from Surviving node:

```
[oracle@surviving]$ cd /u01/app/11.2.0/grid/oui/bin/  
[oracle@surviving]$ ./addNode.sh -silent "CLUSTER_NEW_NODES={dmorldb06}"  
"CLUSTER_NEW_VIRTUAL_HOSTNAMES={dmorl06-vip}"
```

- Run the orainstRoot.sh and root.sh scripts for the reimaged node when prompted by addNode.sh
- Re-enable the listener:

```
[root@replacement]# /u01/app/11.2.0/grid/bin/srvctl enable listener -l LISTENER -n dmorldb06  
[root@replacement]# /u01/app/11.2.0/grid/bin/srvctl start listener -l LISTENER -n dmorldb06
```

# Add Replacement Server to Clusterware

## Clone RDBMS HOME

- Add the replacement database server into the cluster  
addNode.sh from Surviving node

```
[oracle@surviving]$ cd /u01/app/oracle/product/11.2.0/dbhome_1/oui/bin/  
[oracle@surviving]$ ./addNode.sh -silent "CLUSTER_NEW_NODES={dmorldb06}"
```

- Run script as root on reimaged node when prompted

```
[root@replacement]# /u01/app/oracle/product/11.2.0/dbhome_1/root.sh
```

- Refer to the follow note

How to Add Node/Instance or Remove Node/Instance in 10gR2, 11gR1 and 11gR2  
Oracle Clusterware and RAC (Doc ID 1332451.1)

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# Tip

- Backup each node using steps in Exadata Owner's Guide section 7.125 to avoid BMR

# Summary

## What we covered today?

- BMR is a complex procedure
- Preparation will depend on site specifics
- Sysadmin, DBA and Oracle Support involved



# Questions & Answers



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- Generic Advisor Webcast Note (Doc ID [740966.1](#))
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# Learn More

## Available References and Resources to Get Proactive

- About Oracle Support Best Practices  
[www.oracle.com/goto/proactivesupport](http://www.oracle.com/goto/proactivesupport)
- Get Proactive in My Oracle Support  
<https://support.oracle.com> | Doc ID: 432.1
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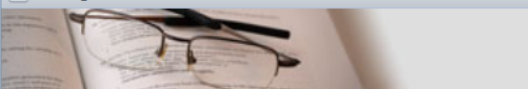
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## News

- REMINDER: Oracle E-Business Suite 11.5.10 is now in Sustaining Support
- Welcome Oracle Financial Services Software Customers and Partners
- New File Upload Methods Effective Immediately
- Internet Explorer 7 (IE7) will not be Certified with My Oracle Support and Cloud Support Portal after April 4, 2014
- My Oracle Support - Release Notes and Known Issues

## Getting Started



- User Resource Center
- Quick Reference Guide
- Webcasts and Recordings
- Discover the Get Proactive Portfolio
- My Oracle Support Community
- Follow Us
- Follow Oracle

## Quick Video Training

- My Oracle Support Guided Tour
- My Oracle Support Overview (08:46)
- Searching and Browsing (04:35)
- Patching and Updates (05:56)
- My Oracle Support Community (05:38)

## Knowledge Base

## Service Requests

Ask in Community...

Create SR

Support Identifier 182751 (ORACLE Deutschland Gm

View All

Problem Summary Advanced

Problem Summary	Level	SR Number	Product/Service Type	Severity	Cont
ISS upload testing +++**		3-1125452901	Oracle Database - Enterprise Edition	3-Standard	Jens V

## Knowledge Articles

# My Oracle Support Community (MOSC)

ORACLE



Welcome, Bright.Xu

MOSC HOME

DASHBOARD

COMMUNICATIONS

NOTIFICATIONS

BROWSE



GO DIRECTLY TO

Connect

All Places > My Oracle Support Community



## My Oracle Support Community

+ Follow

Overview

Content

People

Subspaces and Projects

### Spotlight

#### Welcome to My Oracle Support Community!

You'll find a new look, new features, and the same collaboration to help you get the answers you need. Learn how to get the most from this new platform through short videos and register for a live webcast Get Proactive Essentials: Using the New My Oracle Support Community Platform

[Read More](#)

See the [Spotlight Archive](#)

#### Select a sub-space to participate or start a discussion

Type to filter spaces

Retail (MOSC)	<a href="#">view sub-spaces</a>
Siebel (MOSC)	<a href="#">View sub-spaces</a>
Tax Applications (MOSC)	<a href="#">View sub-spaces</a>
UPK (MOSC)	<a href="#">View sub-spaces</a>
Utilities Industry (MOSC)	<a href="#">View sub-spaces</a>
中文社区 (MOSC)	<a href="#">View sub-spaces</a>

#### Search

Go

#### Getting Started

Are you new to My Oracle Support Community? Or, do you need a refresher on various topics such as FAQ's, Rules Of Conduct and Training?

Come to  
 **Getting Started**  
to learn all about it!

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