Change for PS quarterly down time Dec 5th, 2020 00:00:00 PM UTC

**What is the Change:**

**Exadata Infrastructure quarterly down time: Oracle manage certain aspect of hardware layer and need quarterly down time to handle follow infrastructure**

**Oracle manages the infrastructure updates.**

Oracle manages the infrastructure. The main infrastructure components include:

* Exadata Storage Server hardware (Cell), firmware and software.
* Exadata Database Server hardware, firmware and the OVS (Oracle Virtualization Server) management domain (DOM0).
* InfiniBand (IB) switch hardware and firmware.
* Power distribution units (PDU).

**Change Justification:**

***Why is this change needed?***

**Infrastructure Updates**

Oracle will update the infrastructure components. In all but rare exceptional circumstances, you will receive advance communication about these updates through the Cloud Notification Portal to help you plan for them. If there are corresponding recommended updates for your compute node virtual machine environment, then Oracle will provide notification about these. There is no option to opt out of any updates.

**Did someone test the fix and confirm it worked? Please send all Testing documentation and Post Validation checklist to include cutover plan.**

The test was run on PS test host first and validated to be working and not causing trouble, since OS admin and DBA have no access to the version of the Cell, DOM0, IB and PDU, we assume Oracle did the right work at these layer by running working load without issue.

**Will this require an outage or communication of downtime?**

Yes, the whole down time last 6.5 hour according to document, with rolling down time in the first 2 hours, the down time windows sometimes will get shifted back from Friday 10:00pm to Saturday and at the implementation date could be shifted as last as Saturday 4:00am. So need to be flexible enough to accommodate the time change.

**Date/Time of Change:**

**Next Maintenance:** Sat Dec 5th, 2020 00:00:00 AM UTC

That is Fri, Dec 4th, 2020 18:00:00 PM CST

**Implementation Plan :**

Open a ticket to communicate with Oracle and standby to wait for action.

Validate database and application when down time finished.

**Back out Plan :**

The change is all done by Oracle at storage layer, they will also handle back out, it happened before, we do not have detail but they are able to do it professionally.