

# Higher Performance Infra and Backup for Oracle Systems

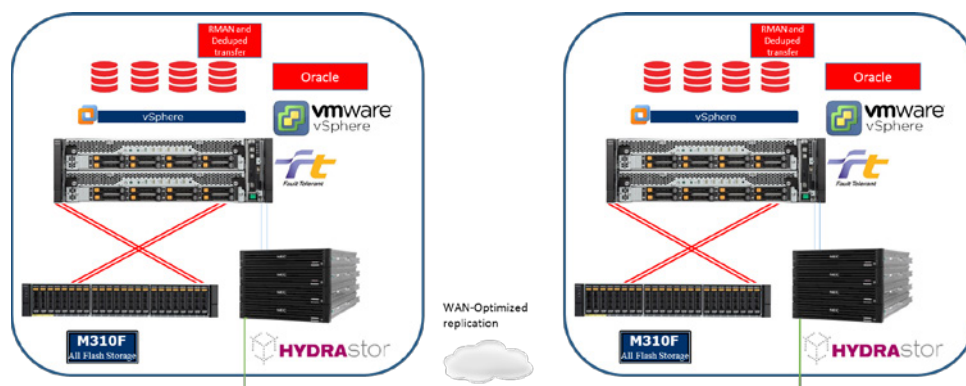


## At a Glance

- NEC High Availability, Performance and Backup solution for Oracle environments
- Always-on server virtualization platform for Oracle Systems database
- Oracle backup target with 18TB to 11.88 PB non-disruptive scalability

## Overview

Oracle Database System is the lifeblood of many enterprise applications. It runs continuously 24 hours, 7 days a week, 365 days every year. High Availability, Performance, Disaster Recovery and Backup of Oracle Database System are key elements for success of (Enterprise resource planning) OLTP (Online Transactional Processing), and Big Data analytics, deployed across Banking and Financial, Government, E-Commerce, Manufacturing, Retail, Healthcare, Telecom and other verticals that require efficient continuity. Since enterprise applications rely heavily on Oracle, primary concerns of database administration revolve around the challenge of maintaining high performance while minimizing downtime, and safely restoring backups within the shortest timeframe.



## Solution

### NEC Smart Enterprise Solutions for Mission Critical Applications

NEC provides All-in-One IT Platform solution, including servers, storage and backup, to overcome the challenges of downtime, insufficient performance and backup windows for Oracle environments.

NEC's Fault Tolerant Servers provides 99.999% availability to critical applications, which means 5.26 min/year downtime instead of 8.76 hrs. from other servers in the market, while eliminating the complexity and licensing costs of ORACLE RAC. Standard versions of Oracle can be used with or without virtualized platforms and do not require separate clustering software or complex configuration. Fault Tolerant Servers offer

hardware and software redundancy to assure no downtime and no data loss in case of planned and unplanned outages, and near instant recovery in case of system failure.

Storage in Database Applications goes beyond capacity and bandwidth. The better the database system works with the storage system, the better your database applications will perform. NEC provides a wide range of Oracle certified storage solutions proven to have outstanding performance with Oracle. NEC M-Series storage array, for example, delivers both hybrid and all-flash capacity with features to meet the diverse business requirements of Oracle workloads while delivering 300K SPC-1 IOPS. The M-Series is certified for Oracle database and provides advanced integration with Oracle to simplify backup processes using the data replication function.

In order to rapidly backup and exceed database SLA (Service Level Agreement) requirements, NEC developed the HYDRAsstor. It provides near infinite scalability and supports high speed backup of Oracle with source side agent for Oracle RMAN server enabling source side deduplication and significantly reducing the backup window like no other appliance in the market.

## Features and benefits:

### FT Server:

- 99.999% uptime with no special clustering, configuration
- Out-of-the-box continuous availability and easy operation
- Always-on server virtualization platform for Oracle Systems database
- Huge cost savings in comparison to Oracle RAC while using standard version of Oracle
- Supports Windows, Linux, VMware and Hyper-V

### M310 Storage:

- High speed, hybrid and all flash storage for consolidated and virtualized Oracle workloads
- Non-disruptive backup and business continuity for Oracle
- Assured performance for Oracle Database SLA's
- Optimized SSD performance and large cache memory provides high I/O
- Advanced Dynamic Pool technology ramps up capacity and performance simply adding drives

### HYDRAsstor:

- Oracle backup target with 18TB to 11.88 PB non-disruptive scalability
- Fastest backup performance 54 TB/hr to 5.2 PB/hr using source side deduplication for Oracle RMAN
- Erasure-coded data resiliency with no single point of failure
- Supports CIFS, NFS, Express IO (NEC's Fast access protocol), Amazon S3 and OpenStack Swift
- WAN optimized replication provides cost effective DR with encrypted and de-duplicated streams
- Multiple generations of nodes share a single name space

NEC is a leading technology integrator that offers Smart Enterprise solutions and worry-free IT infrastructure that delivers better performance, reliability and support for the complete, worry-free environment and ultimate customer experience. Thus resolving organizations having to spend time battling IT problems instead of driving their digital transformation.

Learn more about NEC solutions at [www.necam.com](http://www.necam.com).



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