

# Enterprise Holdings

## Oracle Data Guard - Strategic Overview

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**Systems Architect**

ENTERPRISE HOLDINGS.

**Alamo**

**enterprise**

**National**

**WeCar**

# Who Is Enterprise Holdings?

- World's largest car rental company in revenue, employees and fleet
- Operator of Alamo Rent A Car, National Car Rental and Enterprise Rent-A-Car brands
- More than twice as many US locations as our nearest competitor



ENTERPRISE HOLDINGS.

## Two Key Architectures

### 1. Fast-Start Failover – Mission Critical Systems

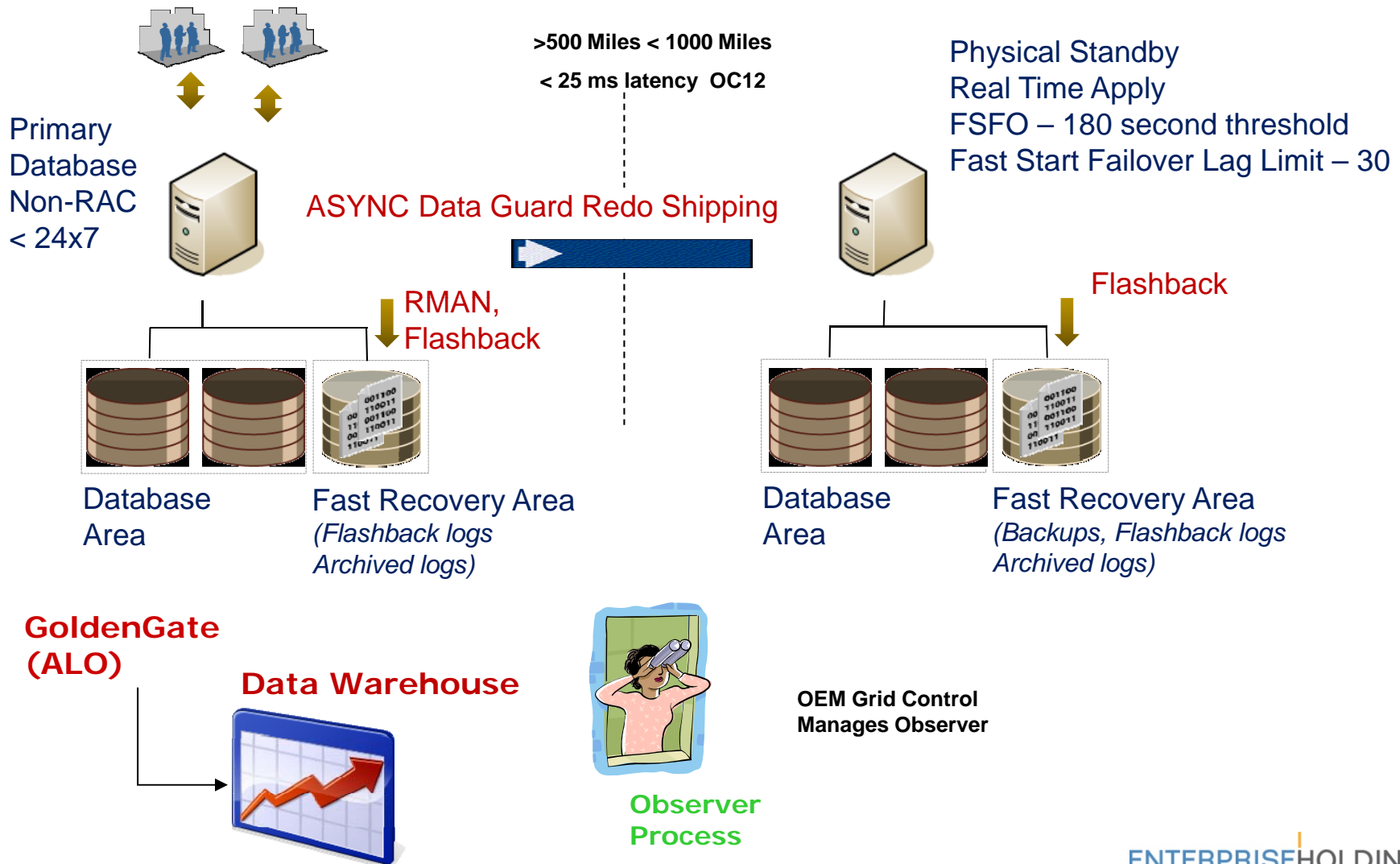
- 11gR1, Physical Standby, ASYNC
- Flashback / Fast Recovery Area
- GoldenGate – Feeds To Warehouse
- Transient Logical Standby for Upgrades & PSU's
- Single Instance per site

### 2. Active Data Guard – Business Critical Systems

- 11gR1, Primary can be down at times, < 24x7 requirement
- Read-Only Access 24x7x365
- Physical Standby, ASYNC, Broker configured
- Primary can handle all Read-Only load if necessary

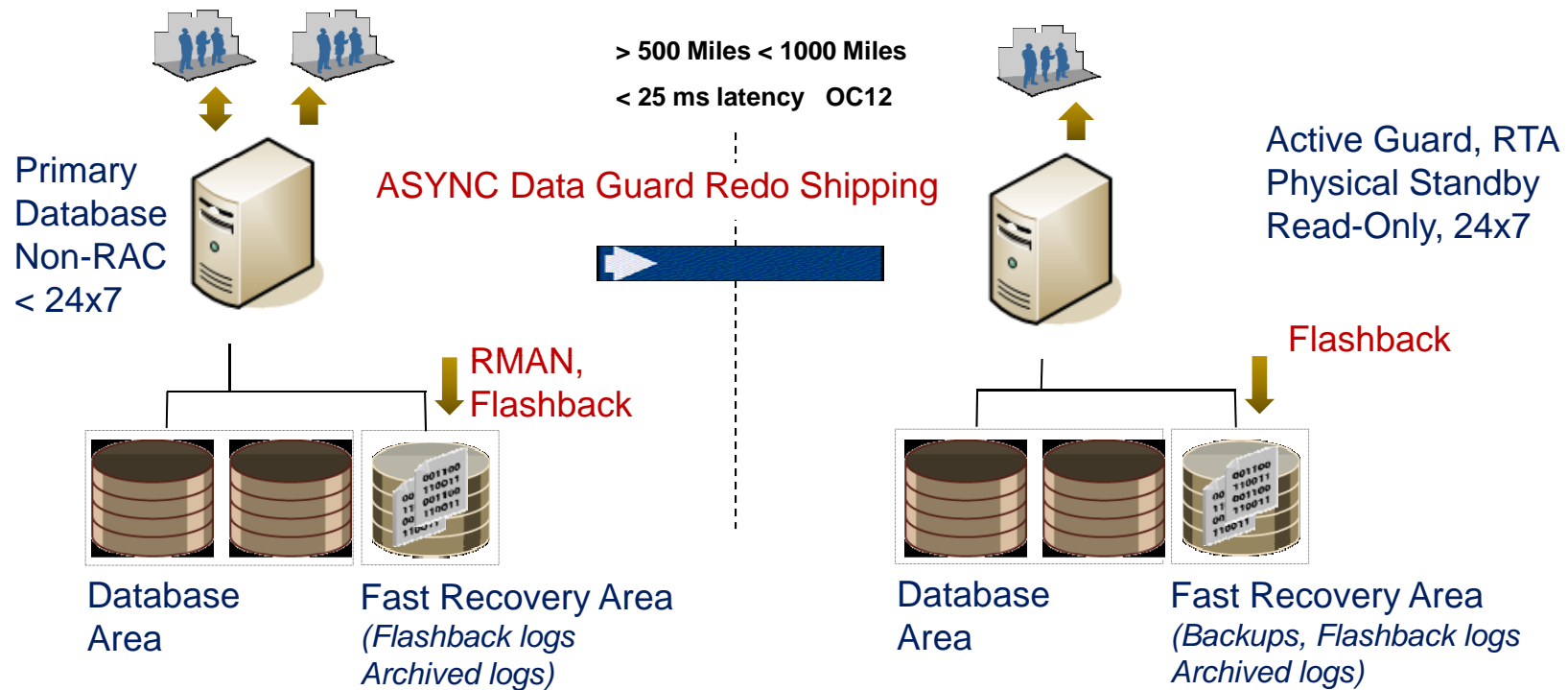
# Data Guard at Enterprise Holdings

## Fast-Start Failover – Mission Critical Systems



# Data Guard at Enterprise Holdings

## Active Data Guard – Business Critical Systems



- used for Customer data, Pricing details
- why it works – use of service\_names and app separation r/w vs r/o
- intelligent network routing, 1<sup>st</sup> choice always local site

# Decision Points

- Business Owners are responsible for classifying their systems as Mission Critical or Business Critical. We have an internal document that helps them answer **many** questions leading to the appropriate classification. ASYNC does risk some data loss, we are willing to accept that risk.
- We chose not to implement Real Application Clusters because of the additional complexity. No issues for us at this time, Data Guard has completely met our expectations.

## Data Guard Cool Tips

- Many technologies can provide High Availability. We have used Data Guard reliably for many years now. You should choose HA technologies that are easy to manage and make the most sense for your specific requirements.

And don't forget - leverage OEM Grid Control.

## Steve Jobs Quote:

**“When you first start off trying to solve a problem, the first solutions you come up with are very complex, and most people stop there. But if you keep going, and live with the problem and peel more layers of the onion off, you can often times arrive at some very elegant and simple solutions.” [Newsweek](#)**