

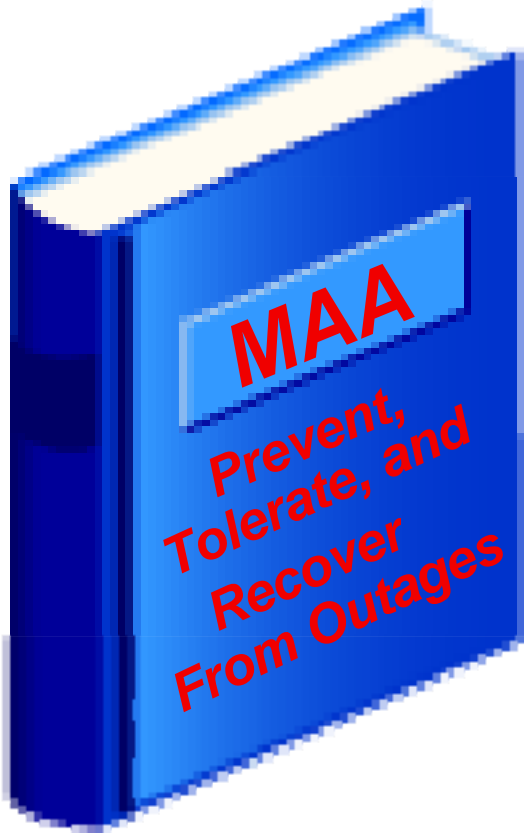


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Maximum Availability Architecture (MAA) – Value Proposition

Maximum Availability Architecture (MAA)

Integrated set of HA best practices



- Technology alone is not enough
- MAA is also a blueprint for achieving HA
 - Brings together all that has been discussed
 - Operational best practices
 - Prevent, tolerate, and recover
- Tested, validated, and documented
 - Database, Storage, Cluster, Network
 - 35 person year effort

otn.oracle.com/deploy/availability

Maximum Availability = Unbreakable Architecture + Best Practices

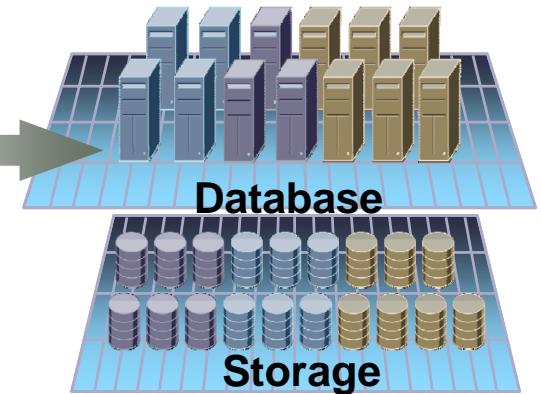
Maximum Availability Architecture (MAA)

Integrated suite of low cost, best-of-breed HA technologies

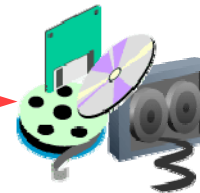
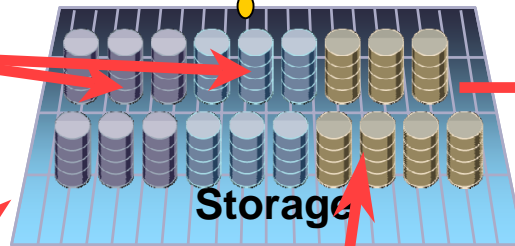
**Real Application Clusters &
Clusterware**
Fault Tolerant Server Scale-Out



Data Guard
Remote Database Replica



**Automatic Storage
Management**
Fault Tolerant Storage
Scale-Out



**Recovery Manager &
Oracle Secure Backup**
Backup /Restore to Tertiary Media

Online Redefinition
Online Data Changes

Flashback
Move Data Back in Time

Oracle MAA Changes

Traditional HA/DR Paradigm

- Many businesses implement localized component level HA solutions
- DR is an afterthought, often implemented using mirroring technologies which do not offer adequate protection
 - Correlated failures, inter-component failures, software failures, upgrades, etc. remain significant vulnerabilities
 - Requires integration of disparate technologies
- MAA: integration of HA and DR
 - Data Guard standby database becomes an essential HA element of any systems architecture
 - Integrated with RAC for server HA
 - Provides highly effective fault isolation
 - Capable of failovers in seconds, with zero data loss
 - Standby database provides a productive computing resource