

## Hitachi High Availability Manager Software for Hitachi Enterprise Storage

With its near-instantaneous failover and recovery capabilities built on the foundation of pioneering Hitachi Universal Storage Platform® V technology, Hitachi High Availability Manager software uniquely manages virtualized devices. This industry leading, continuous availability solution administers internal storage and externally attached heterogeneous storage with common and integrated management.

### Ensure 100% Accessibility of Business Critical Data Assets

In the current climate of capital constraint, the need for an efficient storage infrastructure has become paramount. By consolidating, increasing utilization and improving mobility of data through Hitachi virtualization technologies, you can maximize investment return and protect storage assets.

#### Hitachi High Availability Manager Software for the Hitachi Universal Storage Platform V and VM

##### Instantaneous Failover and Recovery Capabilities

Built on the unique ability of the Hitachi Universal Storage Platform V and Universal Storage Platform VM to manage virtualized devices, the Hitachi High Availability Manager administers internal storage and externally attached heterogeneous storage with common and integrated management.

- It allows host I/O recovery without application restart in the event of Universal Storage Platform V or VM access failure or nonavailability due to external factors, such as power, cooling or human error.
- Its cutting-edge architecture permits local and remote clustering for seamless, transparent movement of storage pools from one Universal Storage Platform to another system, with zero disruption to business operations.
- Coupled with advanced failover capabilities, it gives you the highest industry standard of availability to protect data assets during planned and unplanned outages. It removes the risk of data inaccessibility from the host to primary storage.
- In conjunction with market-proven storage system-based replication technologies, Hitachi Universal Replicator and Hitachi TrueCopy® Synchronous software, the Hitachi High Availability Manager can be used to failover storage pools nondisruptively among storage systems. This allows instant data access recovery from unexpected downtime at the primary site or at a remote site.

#### Business Benefits

##### Ensure Open Systems Business Continuity and Disaster Recovery

- Enhance open systems application resilience by enabling transparent host I/O recovery without application restart.
- Eliminate business impact associated with downtime of open systems applications associated with external factors such as: environment (power, cooling), human error and other incidents.
- Lower heterogeneous storage total cost of ownership with Universal Storage Platform V or VM common and integrated management.

#### Technical Considerations

Clustering is supported between the same models of enterprise storage system.

Each enterprise storage system in a High Availability Manager cluster must also be licensed for the following software products:

- Hitachi Basic Operating System software (BOS)
- Hitachi Universal Volume Manager software

- Hitachi TrueCopy® Synchronous remote replication software

Each server hosting an application that will failover between the storage systems must be licensed for a multipath product that has been qualified for use with the High Availability Manager.

At the same time, Hitachi Universal Replicator software can facilitate asynchronous replication.

## Complementing Software

The following software modules may be licensed to complement the capabilities of Hitachi High Availability Manager software:

- Hitachi Dynamic Link Manager Advanced software (qualified)
- Hitachi Universal Replicator software
- Hitachi ShadowImage Heterogeneous Replication software

## Services

It takes a collaborative, hands-on approach to assist with the project planning, installation and configuration of clustering software across an enterprise storage environment. From remote copy planning to advanced implementation services, Hitachi Data Systems Global Solution Services can support the successful and timely deployment of the most resilient data protection infrastructures. Services to support High Availability Manager, TrueCopy® Synchronous software, Dynamic Link Manager Advanced software and other business continuity and disaster recovery solutions from Hitachi Data Systems are available for both open systems and mainframe environments.

## FEATURE HIGHLIGHTS

Hitachi ShadowImage® Heterogeneous Replication and Hitachi TrueCopy Synchronous remote replication software yield the highest degree of data integrity, because real time copies are the same as the originals, with minimal performance impact on the primary system. For multi-data center disaster recovery strategies, Hitachi Data Systems recommends deploying asynchronous replication capability with Hitachi Universal Replicator software.

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