

Modernize your data protection. Ensure that you reap the performance and agility benefits of your IT environment's digital transformation.

**DATASHEET**

## Hitachi Data Instance Director

### Modernize, Simplify and Unify Local and Remote Copy Data Management

Over time, the information technology landscape has become exceedingly complex. Each new breakthrough ushers in not only new opportunities to accelerate your business, but also new layers of systems, applications, processes, network protocols and skills. Sometimes these new solutions replace aging infrastructure, and often they simply add more complexity.

With complexity comes cost and risk. How do you protect and recover the data that is created, stored, manipulated and exploited by the new systems?

Hitachi Data Instance Director (HDID) unifies and simplifies copy data management. Through its unified, whiteboard-like, workflow-based policy engine (see Figure 1), HDID allows data to be used for backup, business continuity, disaster recovery, test and development, and other purposes. HDID also automates and orchestrates Hitachi storage-based copy technologies, including active-active clustering, remote replication, and local snapshots and clones.

#### Business-Defined Data Protection

Data Instance Director has been designed to meet the full range of enterprise copy data management needs:

- **Operational recovery.** Locally recover files, emails, databases or systems.

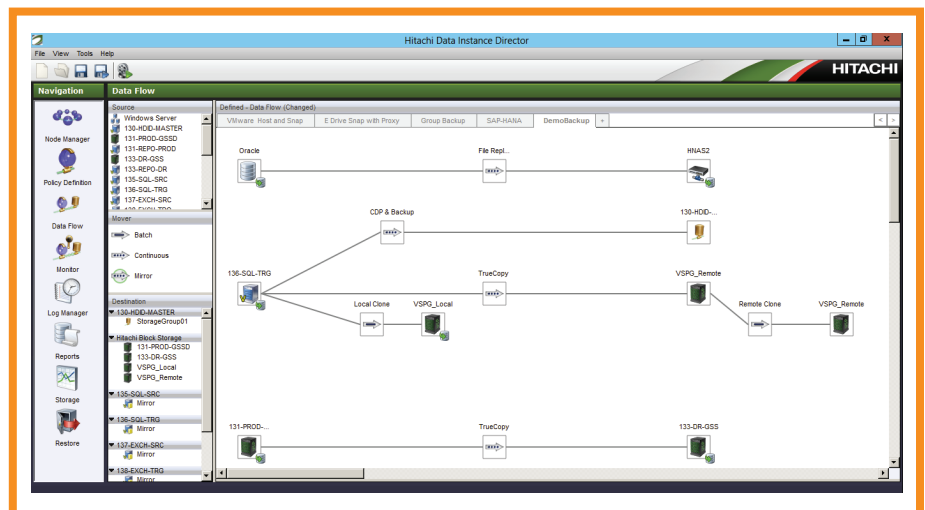


Figure 1. Hitachi Data Instance Director provides unified, application-aware management of your copy data.

- **Business continuity.** Ensure seamless, continuous operations across sites.
- **Disaster recovery.** Restore operations at, or from, a secondary location.
- **Unified management.** Automate and orchestrate the technologies needed to meet the varied service level objectives across applications, systems and locations.

#### Operational Recovery

HDID offers two approaches to meeting operational recovery requirements, depending on whether or not the data being protected is stored on Hitachi storage.

#### Storage-Based Operational Recovery

HDID configures, automates and orchestrates local application-consistent snapshot

and clone copies using the in-system replication capabilities of Hitachi Virtual Storage Platform (VSP) family. VSP family storage systems include the VSP F series, VSP G series, the VSP NAS module and Hitachi NAS Platform (HNAS).

This integration provides the ability to create fast, frequent copies of production data, with minimal impact on the performance of the production system. Very aggressive recovery point objectives (RPO) can easily be achieved for Microsoft® Exchange and Microsoft SQL Server®, Oracle database and SAP HANA environments. Other applications can also be integrated using the simple scripting interface.

These snapshots and clones can be reverted instantly to support a near-zero

recovery time objective (RTO). They can also be mounted and unmounted automatically as part of an HDID policy workflow, either to a physical or a virtual server. In this way, they can facilitate access to a current copy of production data for secondary purposes, such as test and development, or back up to a target device, without impacting production system performance.

HDID is integrated with Hitachi Virtual Infrastructure Integrator to provide storage-based protection of VMware vSphere environments. Snapshots and clones of virtual machines can be invoked, viewed and restored from either user interface, no matter which one created it. This capability gives the central administrator greater visibility and control of VMware data protection processes.

### Host-Based Operational Recovery

HDID includes several storage-agnostic technologies for protection of application and file system data. Continuous data protection (CDP) and live backup support Microsoft Windows® environments, with application-specific support for Exchange and SQL Server. Batch mode backup is supported on Windows, Linux, Oracle Solaris and IBM® AIX® systems.

### Business Continuity

HDID provides automated configuration, operation and monitoring of VSP remote replication technologies. Working with global-active device active-active storage clustering software across systems within a campus area, HDID simplifies high availability with zero RPO and RTO. With global-active device, a failure of one system does not require any user interaction to continue operations on the second system. There is no need for failover or fallback, as current data is always available in both systems.

Working with Hitachi TrueCopy synchronous replication across metro distances, and Hitachi Universal Replicator asynchronous replication across any distance, HDID achieves business continuity with minimal RPO and RTO through simple failover and

fallback. HDID also automates file replication between HNAS systems.

### Disaster Recovery

Storage-based snapshots and clones in the remote replicated environments can be automated by HDID. This approach enables fast disaster recovery from the remote site by simply reverting the snapshot or clone and using them to restore operations.

Alternatively, the application and server backup data stored locally in the HDID repository can be replicated asynchronously on a scheduled basis, to another location. It does not require specific storage for either the primary or disaster recovery copy. HDID also performs host-to-host batch replication for Windows and Linux hosts and real-time replication between Windows hosts. Recovery times using these capabilities will be longer than with the storage-based technologies.

### Data protection has always been software-defined. Hitachi is making it business-defined.

The unique graphical user interface (GUI) incorporates a powerful policy builder that resembles laying out business processes on a whiteboard. It is easy to create and change policies whenever needed. And it is easy to visualize data protection processes and align them with management processes.



Additional features of HDID include:

- Block-level, incremental-forever data capture reduces the storage capacity needed for copy data, as compared to traditional full + incremental methods.
- The need to create and support complex replication management files and scripts is removed.
- Fast, nondisruptive storage snapshots and clones eliminate the need for backup windows and allow for much more frequent protection: Easily improve RPO by 95% or more.

### FEATURE HIGHLIGHTS

Hitachi Data Instance Director reduces:

- Risk of data loss by protecting more often.
- Risk of data loss from human error.
- Time it takes to complete a backup to near zero.
- Performance impact from backup to near zero.
- Downtime during recovery to near zero.
- Backup storage capacity requirements.
- Amount of data sent over the network for backup.

- Near-instant revert or mount of storage-based copies reduces RTO to seconds or minutes, versus the hours or days that a traditional restore takes.
- HDID supports a range of heterogeneous storage for its repositories.
- HDID scales seamlessly to manage multiple petabytes of data.
- Multitenancy support for storage-based protection capabilities limits user access to a defined subset of storage resources.
- Combining these technologies in complex workflows does not incur any additional overhead to the source systems, as HDID captures the data only once.
- Customizable alerts via SNMP, email and/or system log.
- Support for native multipathing software or Hitachi Dynamic Link Manager (HDLML).

### For More Information

- Call: 1 858 581 6500 (USA, Asia) or 44 845 450 6865 (Europe).
- View specifications and system requirements: HDID product page (<https://www.hds.com/en-us/products-solutions/data-protection/data-instance-director.html>).
- Email: DP-Sales@hds.com.
- Learn more about HDS data protection solutions: [HDS.com/go/protect](https://www.hds.com/go/protect).

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