



Hitachi Data Instance Director

Quick Start Guide

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Preface

This document describes how to install and license Hitachi Data Instance Director.

This preface includes the following information:

- ☐ [Intended Audience](#)
- ☐ [Software Version](#)
- ☐ [Related Documents](#)
- ☐ [Document Revision Level](#)
- ☐ [Document Conventions](#)
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Intended audience

This document is intended for system administrators and other users who are responsible for installing, configuring, and operating Hitachi Data Instance Director.

Software version

This document revision applies to Data Instance Director version 5.2.0 or later.

Related documents

- *Hitachi Data Instance Director Software Release Notes*, RN-93HDID000
- *Hitachi Data Instance Director User's Guide*, MK-93HDID001

Document conventions

This document uses the following typographic conventions:

Convention	Description
Bold	Indicates text on a window, other than the window title, including menus, menu options, buttons, fields, and labels. Example: Click OK .
<i>Italic</i>	Indicates a variable, which is a placeholder for actual text provided by the user or system. Example: copy <i>source-file</i> <i>target-file</i> Note: Angled brackets (< >) are also used to indicate variables.
screen/code	Indicates text that is displayed on screen or entered by the user. Example: # <code>pairdisplay -g oradb</code>
< > angled brackets	Indicates a variable, which is a placeholder for actual text provided by the user or system. Example: # <code>pairdisplay -g <group></code> Note: Italic font is also used to indicate variables.
[] square brackets	Indicates optional values. Example: [a b] indicates that you can choose a, b, or nothing.
{ } braces	Indicates required or expected values. Example: { a b } indicates that you must choose either a or b.
vertical bar	Indicates that you have a choice between two or more options or arguments. Examples: [a b] indicates that you can choose a, b, or nothing. { a b } indicates that you must choose either a or b.

This document uses the following icon to draw attention to information:

Icon	Label	Description
	Note	Calls attention to important and/or additional information.

Accessing product documentation

The Data Instance Director user documentation is available on the Hitachi Data Systems Portal: <https://portal.hds.com>. Check this site for the most current documentation, including important updates that may have been made after the release of the product.

Getting help

The Hitachi Data Systems Support Center staff is available 24 hours a day, seven days a week. If you need technical support, log on to the Hitachi Data Systems Portal for contact information: <https://portal.hds.com>.

Before calling the Hitachi Data Systems Support Center, please provide as much information about the problem as possible, including:

- The circumstances surrounding the error or failure.
- The exact content of any error messages displayed on the host systems.

Comments

Please send us your comments on this document: doc.comments@hds.com. Include the document title and number, including the revision level (for example, -07), and refer to specific sections and paragraphs whenever possible. All comments become the property of Hitachi Data Systems Corporation.

Thank you!

Introduction

Hitachi Data Instance Director is a software application for the data center and IT infrastructure of small, medium, and large organizations. It supports the protection and management of all data, from Laptop to File Server, Application Server, and Direct Attached Storage or Enterprise Storage Array.

This chapter introduces the quick start configuration and system requirements.

- [Overview](#)
- [Reviewing the Installation Prerequisites](#)

Overview

To understand the installation options for Hitachi Data Instance Director, it is important to review the software's basic architecture. At the heart of the data management process is the **Master node**. The Master node provides instruction to all other nodes.

The following are the different node types:

- **Master node**: The machine that controls the actions of all other nodes on the system. Only one Master node is deployed in a network. A Master node can also be either a source or destination node, or both.
- **Source node**: This node (server, workstation or virtual machine) stores data to be managed. The source node has an Active Data Change Agent, which is responsible for monitoring the host file system, and performing the relevant actions defined by the policies. Nodes need to be configured as a source node if they need to transfer locally stored data, or implement data tracking, blocking and auditing functions.
- **Destination node**: This machine is capable of receiving data. This machine might be the Data Instance Director Repository, a general-purpose system designated as the recipient of data in a replication configuration.

Policy orientated data management

Data Instance Director is designed to allow your site to implement a Business Process by using policies. Policies are mapped to machines or groups, and to the data management agents that implement those policies. A large, complex environment can be configured in a matter of minutes rather than days through the use of only two panels:

- The **Policy Definition** panel allows you to design the business objective.
- The **Data Flow** panel is used to define where those policies are applied, and the path of the data flow, reflecting the information life cycle.

Data Instance Director compiles the policies into more granular instructions, and sends those instructions to each of the elements involved in data management activity.

Once you have identified the machines and their role and responsibility, you can start the installation.

Figure 1-1 provides an overview of the installation tasks.

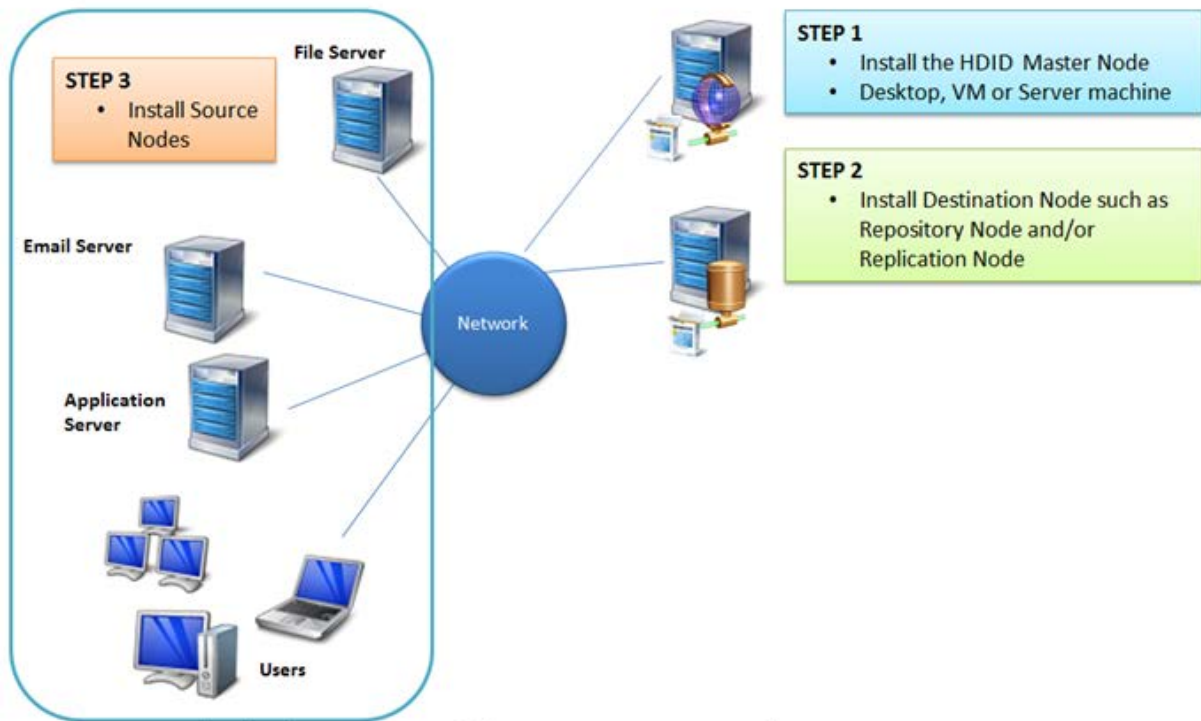


Figure 1-1 Installation overview

Next steps: configuration, setup

After installing and licensing Data Instance Director, you can start initial configuration and setup tasks for your site's data protection. Refer to the *Hitachi Data Instance Director User's Guide* for full instructions, and to complete the post-installation configuration and setup tasks:

1. Defining policies.
2. Defining a data flow.
3. Distributing policies.

Reviewing the installation prerequisites

Before you install Data Instance Director, confirm that your site's hardware and software meet the requirements that are outlined on the Data Instance Director product website at <https://www.hds.com/products/storage-software/hitachi-data-instance-director.html>.

Hitachi Content Platform indexing requirement

If you plan to use the Hitachi Content Platform (HCP) with Data Instance Director, then the following **Search Facility Settings** must be selected within the **Settings** tab of the HCP, for the **Metadata Query Engine (MQE)**:

- Enable indexing
- Enable indexing of custom metadata

Click **Update MQE Settings** to reflect the changes.

Firewall configuration

If a third party firewall is installed within your network, then when processes are started as part of the Data Instance Director software installation, firewall warnings may be generated.

Configure the firewall to allow access for all Internet-connected nodes (or nodes that are separated by firewalls) on one open port: 30304 (TCP and UDP).

Additional ports that may need to be opened are:

- The HCP node (30306, by default)
- The Data Instance Director Microsoft Exchange notification client (30500)

Hitachi Block and File requirements

If you plan to perform snapshotting and replication of Hitachi Block and File volumes then the following prerequisites are required:

- General:
 - o A machine must be assigned as a proxy node that controls the storage device. This proxy node must be a Windows machine with:
 - The HDID repository capability installed
 - CCI (RAID Manager) installed
 - Access to a command device set up as follows:
 - Security disabled
 - User authentication enabled
 - Device group definition disabled

- o A dedicated user for HDID must be created in the Administration user group for the storage device
 - o All paths or application data to be snapshotted or replicated must exist on the same block hardware device
- Hitachi Block:
 - o The following licensed features are required:
 - Dynamic Provisioning
 - Storage Navigator
 - ThinImage
 - ShadowImage
 - TrueCopy
 - Universal Replicator
 - Remote Replication Extended (for 3DC scenarios)
 - o Primary volumes must be set up
 - o For application consistent snapshots, the application must be installed and configured to use HDS block P-Vols
 - o The username specified in the VSP node's credentials must be a member of the Administration User Group on the VSP
 - o The password for authorizing a VSP node must contain only useable CCI command characters: A-Za-z0-9'-./: @_
 - o Must have adequate shared memory – see Provisioning and Technical Guides
 - o Pools must be created using Hitachi Storage Navigator prior to selecting the Target Storage in Data Instance Director:
 - For Thin Image (TI) the TI Pools must be set up
 - For ShadowImage (SI) the Dynamic Provisioning Pools must be set up
 - For TrueCopy (TC) and Universal Replicator (UR) the Dynamic Provisioning Pools must be set up
 - o Journals must be set up for UR – Refer to the UR Guide
- Hitachi File:
 - o The following licensed features are required:
 - FileClone
 - NFS
 - Replication
- Windows Nodes:
 - o None
- Linux Nodes:
 - o Needs 'rescan-scsi-bus.sh' CLI tool (see http://sg.danny.cz/sg/sg3_utils.html)
 - o Needs 'Multipath' CLI command
 - o Anything done directly on Hitachi Block (i.e. outside of HDID) is not supported by HDID

Installation and license activation

This chapter describes the data management capabilities of Data Instance Director.

- [Installing Data Instance Director](#)
- [Installation on Windows, Linux and Solaris platforms](#)
- [Installation on AIX platforms](#)
- [Installation on a Windows cluster environment](#)
- [Upgrading Data Instance Director](#)
- [Licensing Data Instance Director](#)
- [Uninstalling Data Instance Director](#)

Installing Data Instance Director

Data Instance Director is distributed as an installation package for Windows, Linux, AIX and Solaris.

The installation process allows you to set the installation destination and select which components are to be installed. The same installation program is used for the Master node and Client node installations. The following sections provide installation instructions for both nodes. Instructions for installing Data Instance Director in a Microsoft Windows cluster configuration are also provided.



Note: It is recommended that you temporarily disable your antivirus software during the installation process.



Notes:

- Data Instance Director 32-bit version is supported for installation on a 32-bit operating system. If you attempt to install a 32-bit Data Instance Director on a 64-bit operating system, then you will be prompted to use the 64-bit installer instead.
- Data Instance Director 64-bit version is supported for installation on a 64-bit operating system. If you attempt to install a 64-bit Data Instance Director on a 32-bit operating system, then you will be prompted to use the 32-bit installer instead.
- For the master and repository installation, Data Instance Director is supported on 64-bit operating systems, only. Source node installation can be done on either a 32-bit or 64-bit operating system.
- Only one active Master node can be installed in an environment (a second standby Master can be installed on a Windows failover cluster – see [Installation: cluster environment](#)). Install the Master node before installing other types of nodes.
- Windows 7 and Windows Vista are considered to be workstation operating systems, and by default, have additional security measures known as User Account Control (UAC). Installation of the Data Instance Director master components on a Windows 7 or Vista machine requires that the UAC system be disabled. Ideally the Master node should be installed on server-based operating systems, such as Windows 2008 or Windows 2012.

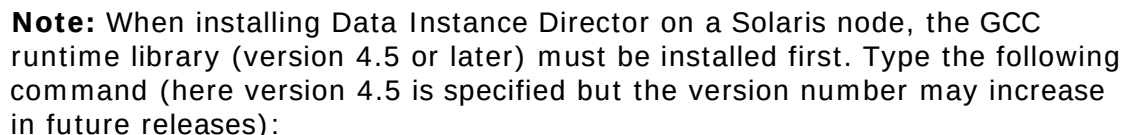
If you must install Data Instance Director master components on a machine running Windows 7 or Vista, you can disable UAC in the **Control Panel**:

Go to **User Accounts** and select **Turn User Account Control on or off**.

Installation on Windows, Linux and Solaris platforms



Note: If this is a new installation on a 32-bit Windows or any Linux operating system, then the installation will be for a client node, only.



1. Windows: Double-click HDID-Rm.n-m.n.n.nnnnnn-Win-ppp.exe in the directory where you downloaded it.

Solaris: Ensure you have execute permissions and type the command:
`chmod 755 ./HDID-m.n-m.n.n.nnnnn-Solaris-ppp.run`

where m is the major and n is the minor version number and ppp is the processor: 'x32', 'x64', or 'SPARC'.

The installation process is either presented via a set of dialogues, but if no windowing system is available on Linux the installations will display the same information via the text mode shell.

When Setup is started, it checks for previous installations of Data Instance Director. If a previous installation is found, Setup launches the upgrade process. For more information, see [Upgrading Data Instance Director](#).

2. Click **Next>** in the **Setup** welcome dialog (Figure 2-1).

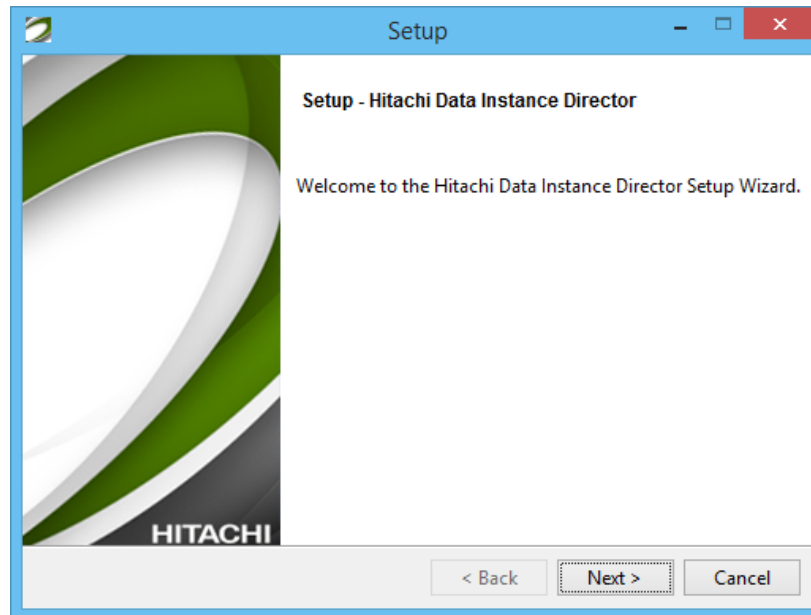


Figure 2-1 Data Instance Director installer

3. When prompted, accept the License Agreement, and click **Next>** (Figure 2-2).

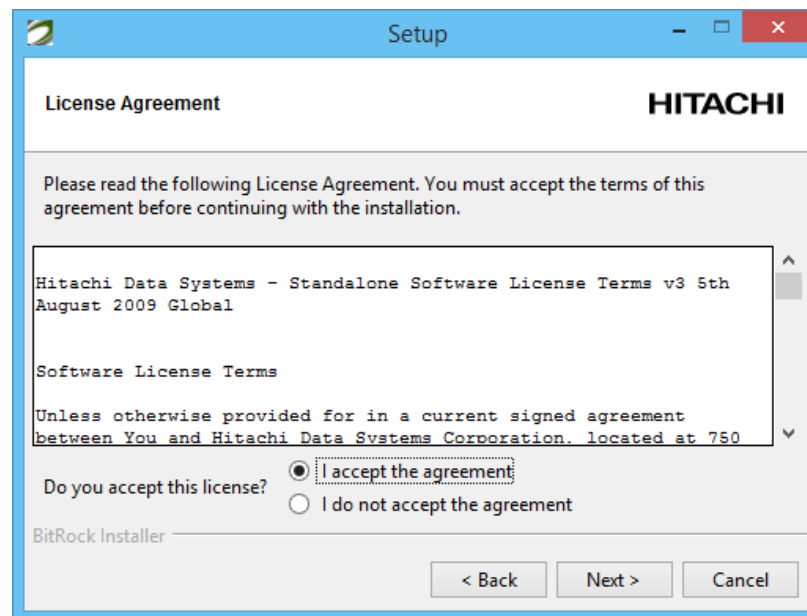


Figure 2-2 Accepting the License Agreement

4. The default installation directory for Data Instance Director is entered automatically:
- For Windows installations - C:\Program Files\Hitachi\HDID
 - For Linux installations - /opt/Hitach/HDID

To install Data Instance Director in a different location, enter the path in the

Installation Directory edit box or use the folder browser  button.

Click **Next>** (Figure 2-3).

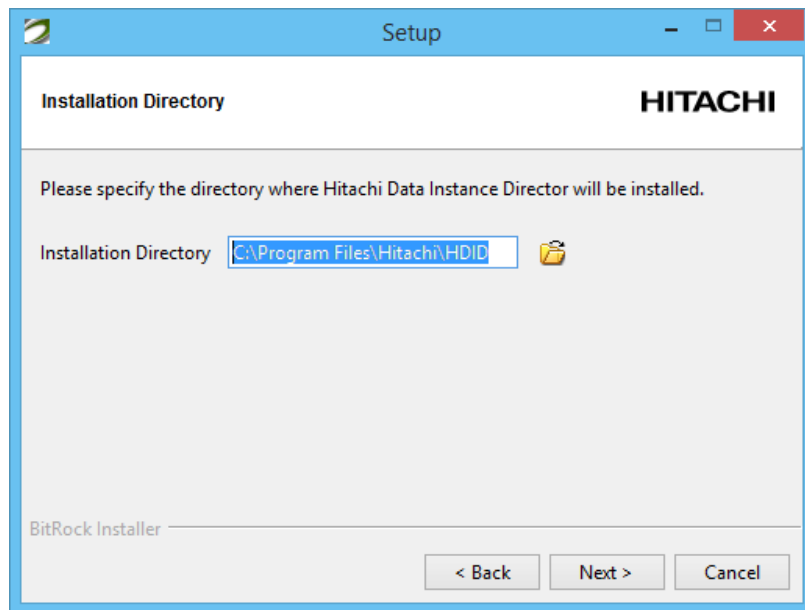


Figure 2-3 Installation Directory



Note: If this is a new installation on a 32-bit Windows or any Linux operating system, then the installation will be for a client node only, and steps 6, 7, and 8 are not applicable.

5. Select the Data Instance Director components to install, and click **Next>** (Figure 2-4). By default, **Client** is selected.

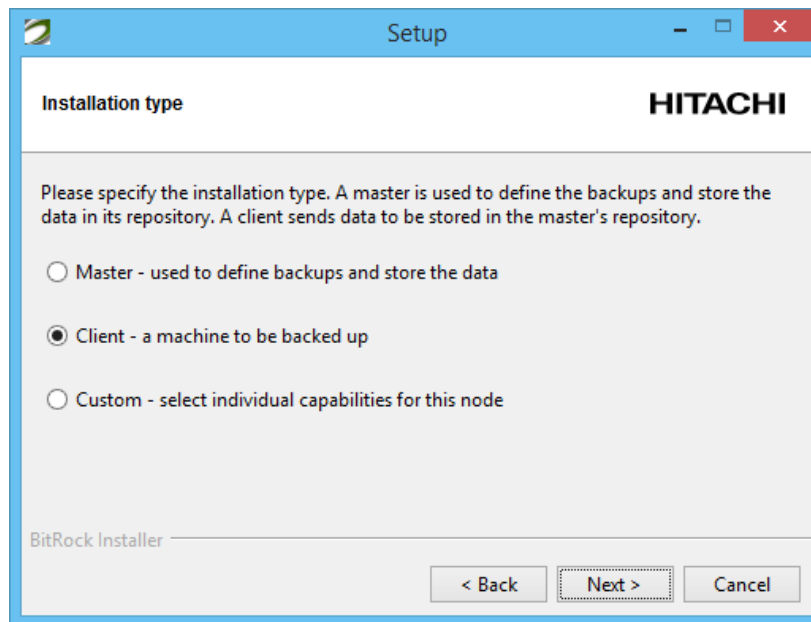


Figure 2-4 Installation type

- **Master:** (Only available on Windows) Installs the components required to make the current system the Master Node. Only one active Master Node can be installed in a network (a second standby Master can be installed on a Windows failover cluster – see [Installation: cluster environment](#)). The main Data Instance Director user interface is installed and only accessible on the Master Node. The Data Instance Director environment is set up and managed through the Master Node. A Master can also act as a Client and a Repository, enabling the node to have data captured from it and be able to store data from Source Nodes in a Repository.
- **Client:** This option enables the node to be a Source Node, and allows data to be captured on that node. This is required if the machine will send data to another Data Instance Director enabled system. A Client will also be able to have block or track operations performed on it.
- **Custom:** This option allows specific components to be installed, allowing the Data Instance Director installation to be tailored to a specific need.

If the **Master** option was selected, skip step 7.

If the **Client** option was selected, skip steps 7 and 8.

6. (**Custom** installations only) Select the Data Instance Director components to install, and click **Next>** (Figure 2-5). By default, **Data Source** is selected.

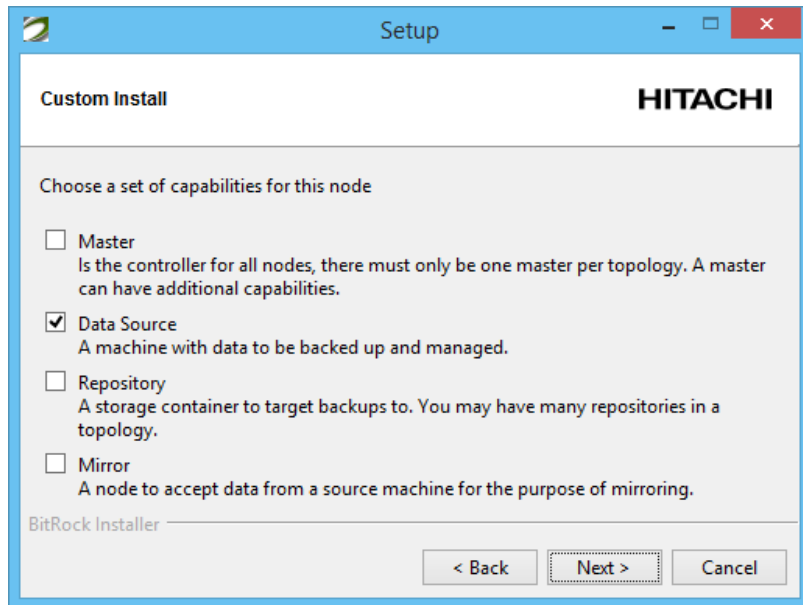


Figure 2-5 Custom Install

A Custom node can be any combination of the following components:

- **Master:** (Only available on Windows) Installs the components required to make the current system the Master Node. Only one active Master Node can be installed in a network (a second standby Master can be installed on a Windows failover cluster – see [Installation: cluster environment](#)). The main Data Instance Director user interface is installed and only accessible on the Master Node. The Data Instance Director environment is set up and managed through the Master Node.
- **Data Source:** This option enables the node to be a Source Node, and allows data to be captured on that node. This is required if the machine will send data to another Data Instance Director enabled system. The Data Source component is also required to perform block or track operations. Application aware hardware snapshotting and replication also requires this component.
- **Repository:** (Only available on Windows) This option enables the node to store data received from source nodes in a repository. Any machine used as a hardware proxy node for storage-based protection must also have this component installed because it also provides the ISM capability.



Note: If the ISM capability is being installed on a node to be used as a block storage proxy in a multi tenancy environment, then it is important that the Data Source component is deselected.

- **Mirror:** This option allows the node to be designated as a Replication Node, making it suitable for replication operations (mirroring).

7. If a Repository is being installed, the installer prompts you for a **Repository Directory** (Figure 2-6). This directory allows the Repository and the data stored within it to be separated from the other Data Instance Director components and files which are installed.

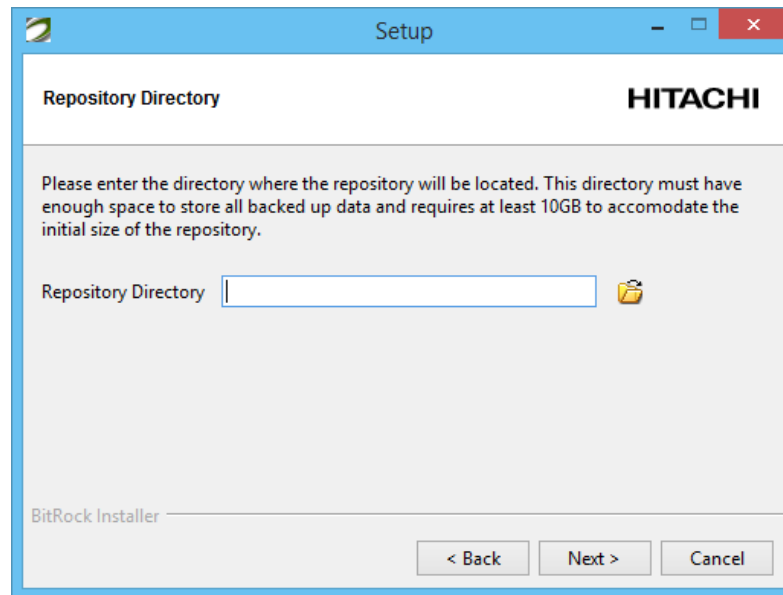


Figure 2-6 Repository install destination



Note: Because the Repository grows in large blocks, even for a small amount of stored data, ensure that the Repository Destination has a minimum of 200 GB of free space. For an ISM only (i.e. where no repository backups are required) 10GB of free space is required.

Specify a node name to be used within Data Instance Director (Figure 2-7). By default, the name is set to the machine's host name. This name is only for running Data Instance Director, and will not change the name set in the operating system. If it is known that the node will be operating over a non-secure network, such as the Internet, then enabling the **Internet connected node** option is recommended. This will encrypt transmitted data as an extra security precaution.

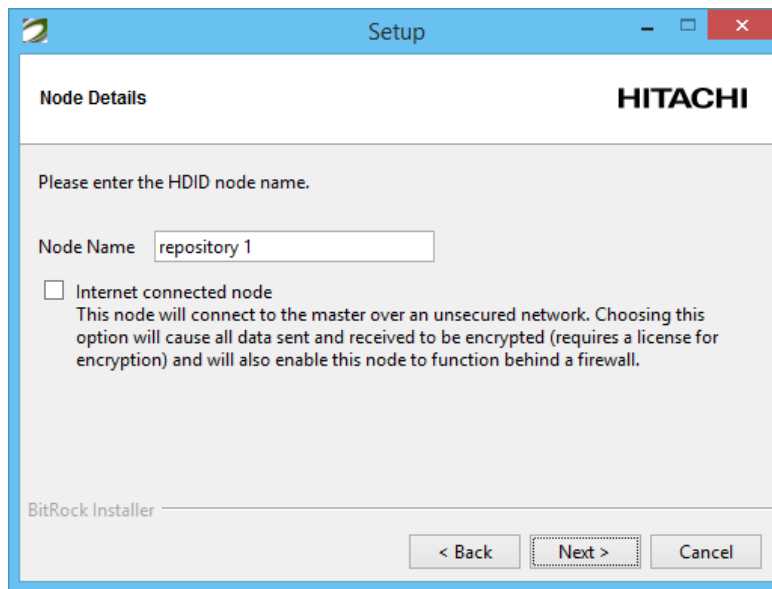


Figure 2-7 Node Name

8. If the Master component was not selected, the node is configured as a Client Node. Enter the **Master Hostname or IP** address or a DNS resolvable name of the Master node (Figure 2-8).

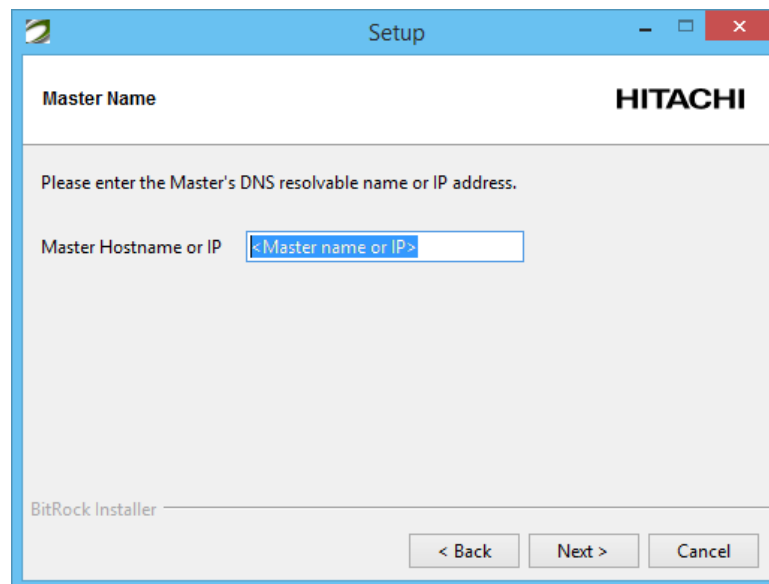


Figure 2-8 Enter Master IP address or DNS resolvable name

9. Indicate whether you want to place a Data Instance Director GUI shortcut on the desktop, then click **Next>** (Figure 2-9).

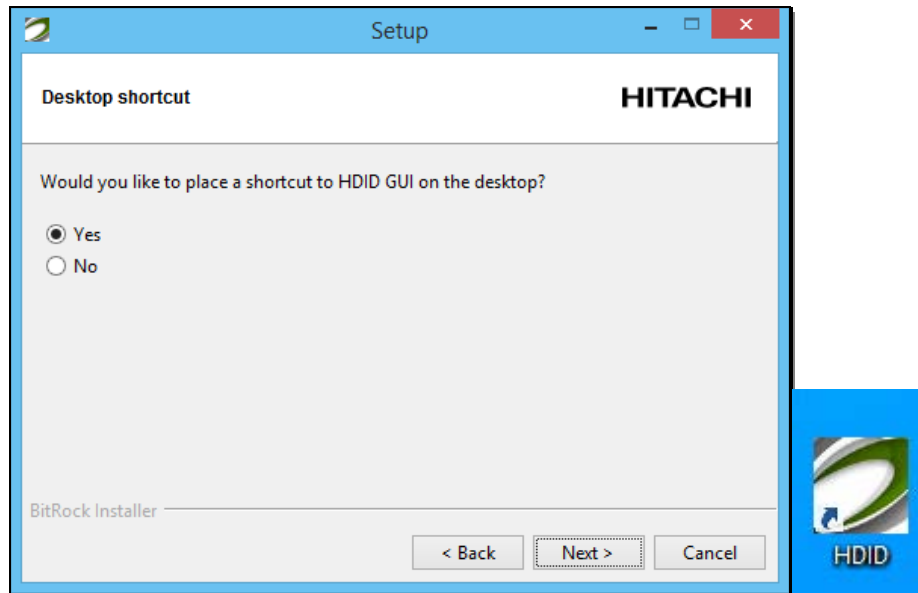


Figure 2-9 Create shortcut

- 10.** Click **Next>** when Setup indicates that it is ready to begin the installation. Data Instance Director files are copied to the designated directories and the necessary components installed.
- 11.** Click **Finish** when the message is displayed stating that the installation is complete.

You do not need to restart your machine after the installation is complete.

At the end of the file copying process, the installer starts all installed and required Data Instance Director components on the system.



Note: If a third party firewall is installed on the network, then starting these processes generates firewall warnings. Configure the firewall to allow access for all

Data Instance Director components on one open port: 30304 (TCP and UDP). Additional ports that might need to be opened are:

- The HCP node (30306, by default)
- The Data Instance Director Microsoft Exchange notification client (30500)

Installation on AIX platforms

It is only possible to install the Data Instance Director client on an AIX node. It is recommended that the installer is run from the command line as follows:

- 1.** Ensure you have execute permissions and type the command:

```
chmod 755 ./HDID-m.n-m.n.n.nnnnn-AIX-ppp.run
```

where m is the major and n is the minor version number and ppp is the processor: 'PPC-64'.

2. Type `./HDID-m.n-m.n.n.nnnnn-AIX-ppp.run` then read and accept the license agreement as directed.
3. Accept or change the installation directory.
4. Accept or change the node name; the default is the AIX hostname.
5. Configure the node as an internet connected node if connecting to the master over an unsecured network. This requires an encryption license.
6. Enter the master node's DNS resolvable name or IP address.
7. Start the installation process when prompted to do so.
8. The installer will display a progress bar while Data Instance Director is installed.
9. Type `<HDID Install Path>/bin/hub status` to confirm that the Data Instance Director Hub service is running.
10. Go to the master node GUI and authorize the AIX node.

Installation on a Windows cluster environment

Data Instance Director can be installed on the servers which are in a Windows cluster. Before starting the installation, review the following:

- Ensure that all servers meet the software prerequisites that are outlined in the first section of this chapter, [Prerequisites](#).
- Confirm that a cluster environment is set up and working correctly.
- Ensure that you have all required license keys for Data Instance Director: A separate license key for each master node is required.

The installation for a cluster environment involves the following main tasks:

1. Installing Data Instance Director on the controlling node.
2. Installing Data Instance Director on all other nodes.
3. Adding the Hub service to the cluster.
4. Licensing the software.

Installing Data Instance Director on the controlling node

Start with the node that is in control (the node which has access to the shared disk). If needed, you can identify this node by launching the cluster manager.

To install Data Instance Director on the controlling node:

1. Double-click on `HDID-m.n-m.n.n.nnnnn-WIN-ppp.exe` in the directory where you downloaded it on the server. Then, click **Next>** in the **Setup** welcome dialog.

2. Read and accept the license agreement, then click **Next>**.
3. Change the installation directory to the shared drive. For example, if your shared drive is Q:\ then the installation path might be:
Q:\Hitachi\HDID.



Note: Make a note of the specified path, as you will need to reference this later in the installation process.

4. Click **Next>**.
5. Select the **Custom** installation type, then click **Next>**.
6. Select **Master**, **Repository**, or both as these are the only supported clustered roles. Then, click **Next>**.
7. If the Repository role has been selected, select the location of the repository, then click **Next>**.



Note: The repository must be located on the shared drive; for example:
Q:\Hitachi\HDID

Also, make a note of the specified path, as you will need to reference this later in the installation process.

8. Change the default Node name as all cluster nodes will have the same name. Use a generic name such as Cluster, Master, or Repository. Click **Next>**.
9. Select an option for a desktop shortcut, then click **Next>**.
10. Click **Next>** to start the installation.
11. Click **Finish**, then shut down the machine to invoke failover.

Installing Data Instance Director on remaining nodes

To install Data Instance Director:

1. Double-click on HDID-m.n-m.n.n.nnnnn-WIN-ppp.exe in the directory where you downloaded it on the server. Then, click **Next>** in the **Setup** welcome dialog.
2. Read and accept the license agreement, then click **Next>**.
3. Specify the same installation directory that you indicated in step 3 of the first task, 'Installing Data Instance Director on the Controlling Node'.
4. Select the **Custom** installation type, then click **Next>**.
5. Specify the same clustered role that you indicated at step 6 of the first task, 'Installing Data Instance Director on the Controlling Node'.
6. If the Repository role was selected at step 7 of the first task, 'Installing Data Instance Director on the Controlling Node', then select the same location for the repository. Click **Next**.

7. Specify the same node name that you indicated at step 8 of the first task, 'Installing Data Instance Director on the Controlling Node'.
8. Select the option for a desktop shortcut, then click **Next**.
9. Click **Next** to start the installation.
10. Click **Finish**, then shut down the machine to invoke failover.
11. Repeat steps 1-10 for each additional node. After Data Instance Director has been installed on all nodes, restart each node.

Adding the Hub service

Complete the following steps on one node of the cluster, only.

To add the Hub service:

1. Launch **Failover Clustering** on the server: Click **Start > Administrative Tools > Failover Cluster Manager**
2. If the console tree is collapsed, expand the tree for the cluster that you want to configure.
3. Right click **Services and Applications**, then click **Configure a Service or Application**.
4. At the **Before You Begin** wizard, click **Next**.
5. Select **Generic Service**, then click **Next**.
6. Select the Cofio Hub Service from the list.
7. Name the service (for example, CofioHubService), assign an IP address, then click **Next**.
8. At the **Select Storage** dialog, click **Next**.
9. At the **Replicate Registry Settings** dialog, Click **Next**.
10. At the confirmation prompt, check that all settings are correct.
 - If a setting is incorrect, click **Previous**.
 - If all settings are correct, click **Next**.
11. At the **Summary** dialog, click **Finish**.

Licensing the software

See the section, [Cluster Environment License Activation](#).

Upgrading Data Instance Director

The Data Instance Director installation package automatically detects any currently installed versions of Data Instance Director. If a previous version is found, an upgrade can be run with the same installation package.

An upgrade can be performed if a newer version of Data Instance Director is available or if the existing installation has become corrupt.

During an upgrade no options are available to change the installation directory, repository directory (if installed), machine name, installation type, capabilities or master name or IP address. The contents of any classifications will not be changed, so if the HDID install location appears in a classification it will not be changed.

When an upgrade starts, the Data Instance Director services are shutdown. These services are restarted when the upgrade process is exited or completed.



Note: We recommend upgrading Data Instance Director only after backups have been completed, and not while backups are currently in progress.

Upgrade order

It is recommended that nodes be upgraded in the following order:

- Master nodes
- Repository destination nodes
- Replication destination nodes
- Source nodes

After upgrading, the rules should be redistributed and all destination nodes should be manually resynchronized with their sources.

Upgrade alert message

An upgrade starts with the following alert message (Figure 2-10)

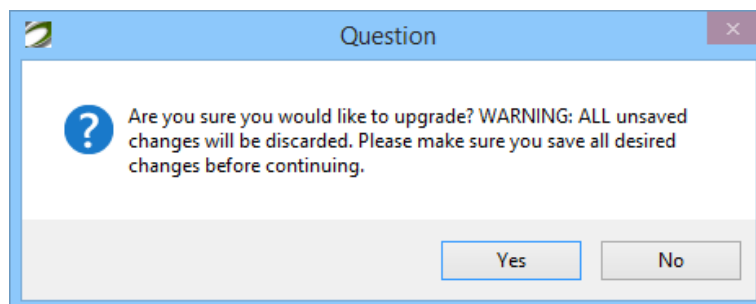


Figure 2-10 Upgrade alert



Note: If this is an upgrade installation on a 32-bit operating system, all previously defined roles are retained.

However, if you upgrade a 32-bit version Data Instance Director that is installed on a 64-bit operating system (in the installation default location), then in addition to retaining the previous roles, the installer converts Data Instance Director to a 64-bit version. The Hitachi file system structure (and the location of the filter log file) will be moved to the Program Files location, for example:

C:\Program Files\Hitachi

In this case, the following upgrade alert message is displayed (Figure 2-11):

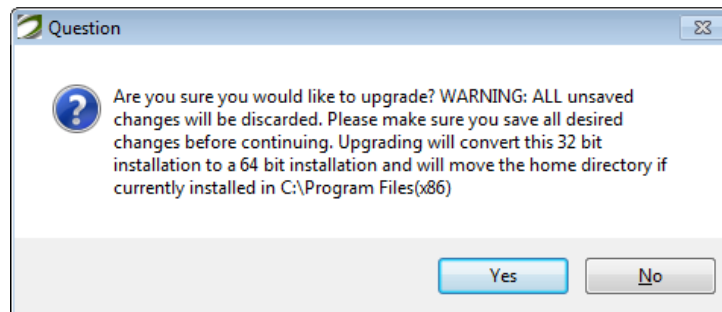


Figure 2-11 Upgrade warning message

The file system structure is not moved if Data Instance Director was installed in a non-default location.

Click **Yes** to proceed with the upgrade, or **No** to quit and exit Setup.

Upgrading clients from Master

While the Master can be upgraded by running the update executable, Data Instance Director clients, Source, Repository, and Replication Nodes, (virtual and physical) can be automatically updated from direct control from the Master.

To do this, place the updated Data Instance Director executable into the following directory on the Master:

<INSTALL>\Hitachi\HDID\runtime\updater

Then, select the **Upgrade Clients** option (Figure 2-12).

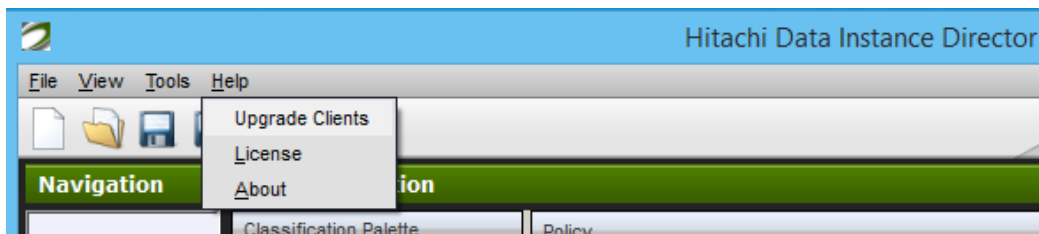


Figure 2-12 Upgrade Clients menu option

Afterward, the **Upgrade Clients** dialog launches and lists all Data Instance Director clients (Figure 2-13).

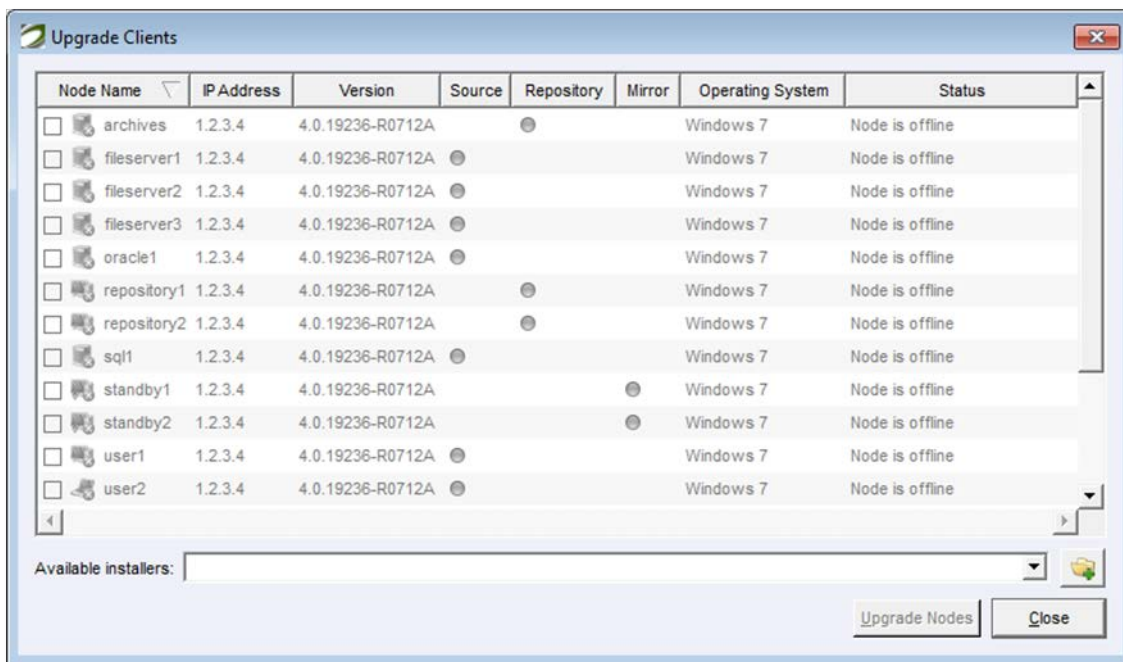


Figure 2-13 Data Instance Director Clients list

Select the check boxes on the nodes to upgrade and choose the installer version to use from the **Available installers** combo box at the bottom of the dialog. This will display all the executables that have been placed into the updater directory. The Master will push the install package and execute the upgrade automatically all together.



Note: The **Upgrade Clients** dialog only lists nodes that are running on a Windows OS.

Licensing Data Instance Director

To distribute rules, the master machine must have a valid Data Instance Director activation key.

As of Data Instance Director version 4.2.0, the software installation includes a built-in evaluation key for sites that want to use the product on a trial-to-permanent basis. After the software is installed, it can be used for 45 days, with up to 10 TB of maximum data usage, before a permanent license key is required. (Existing, purchased customers who upgrade to version 4.2.0 are unaffected by the feature: Their permanent license continues to convey during the upgrade.)

After a trial license has expired, the permanent license must be entered manually.

Manual license activation

If you have a valid activation key, then it can be entered directly within the Data Instance Director GUI.

1. Start Data Instance Director.
 - Double-click on the desktop shortcut.
 - or -
 - Access **Programs** → **Data Instance Director** → **Data Instance Director** from the **Start** menu.
2. Open the **Data Instance Director License** dialog (Figure 2-14). If Data Instance Director is unlicensed, then this will be opened automatically upon starting the user interface. Otherwise, it can be accessed through **Help** → **License**.

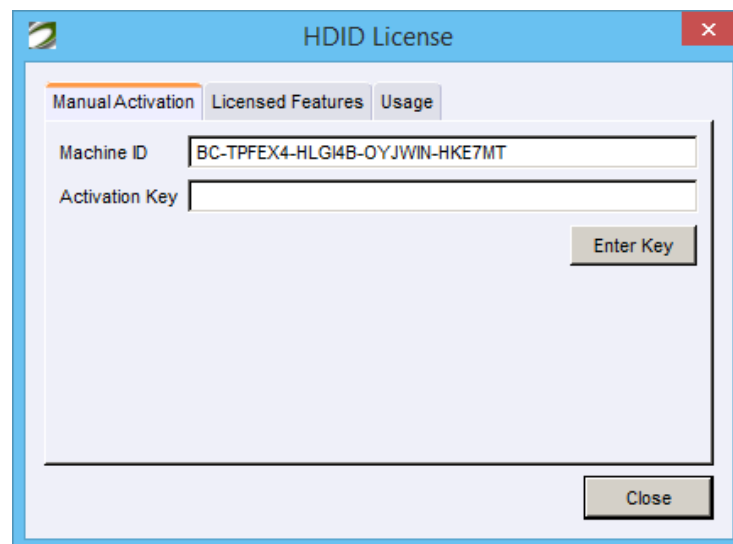


Figure 2-14 License dialog

3. Select the **Manual Activation** tab.
4. Enter the **Activation Key** then click **Enter Key**.

Cluster environment license activation

Because each machine in the cluster has a different machine ID, a separate license for each node is required.

1. Launch **Data Instance Director**.
The **Data Instance Director License** dialog displays and indicates the machine-specific ID.
2. Enter the license key for the machine, then click **Enter Key**.
This node is now licensed.
3. Close all **Data Instance Director** windows.
4. Browse to the installation directory that you specified in the first task, 'Installing Data Instance Director on the Controlling Node', then navigate to `<Data Instance Director install>\db\config\`
5. Right click on `License.xml` then open the file with WordPad.
6. Copy line 2 and insert as a new line after line 2.
7. Change the activation key to match your second node.
8. Repeat steps 6 and 7 for each additional node.
9. Save and close the file.

Uninstalling Data Instance Director

Windows: Data Instance Director can be uninstalled by navigating to its installation directory or the **Start** menu, and running **Uninstall Hitachi Data Instance Director**. If a repository was installed on the machine then the uninstaller will prompt the user to remove it manually.

Linux and AIX: Type the command `/opt/Hitachi/HDID/uninstall` and follow the instructions on screen.



Note: Uninstalling the Data Instance Director master does not deactivate active rules on client nodes. To do this, you must either clear the dataflow and redistribute before uninstalling, or uninstall each client individually.

Stubbed files and emails are not automatically un-stubbed; this must be done manually, prior to uninstalling Data Instance Director, by running the `sourcestubcli -r` command on each machine, restoring email then deleting the stubs.

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