Veritas eDiscovery Platform™

Utility Node Guide

10.2

VERITAS™

Veritas eDiscovery Platform™: Utility Node Guide

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Contents

Preface

About this guide

A utility node is defined to be any machine that has software required to run any combination of PrizmDoc, Muhimbi, Retriever, or Stellent software. Workload distribution to utility machines can improve performance and scalability.

This document describes how to install and configure Utility Nodes.

Product documentation

The table below lists the end-user documentation that is available for the Veritas eDiscovery Platform product.

Veritas eDiscovery Platform documentation set

Document	Comments
Installation and Configuration	
Installation Guide	Describes prerequisites, and how to perform a full install of the Veritas eDiscovery platform.
Upgrade Overview Guide	Provides critical upgrade information, by version, useful prior to upgrading an appliance to the current product release
Upgrade Guide	Describes prerequisites and upgrade information for the current customers with a previous version of the Veritas eDiscovery platform.
Utility Node Guide	For customers using utility nodes, describes how to install and configure appliances as utility nodes for

Document	Comments
	use with an existing eDiscovery Platform software setup.
Distributed Architecture Deployment Guide	Provides installation and configuration information for the Review and Processing Scalability feature in a distributed architecture deployment
Getting Started	
Navigation Reference Card	Provides a mapping of review changes from 10.x compared to 9.x, 8.x compared to 7.x and the user interface changes from 7.x compared to 6.x
Administrator's QuickStart Guide	Describes basic appliance and case configuration
Reviewer QuickStart Guide	A reviewer's reference to getting started using the *Analysis & Review* module
Tagging Reference Card	Describes how tag sets and filter type impact filter counts
User and Administration	
Legal Hold Guide	Describes how to set up and configure an appliance for Legal Holds, and use the Legal Hold module as an administrator.
Identification and Collection Guide	Describes how to prepare and collect data for processing, using the Identification and Collection module
Case Administration Guide	Describes case setup, processing, and management, plus pre-processing navigation, tips, and recommendations. Includes processing exceptions reference and associated reports, plus file handling information for multiple languages, and supported file types and file type mapping.
System Administration Guide	Includes system backup, restore, and support features, configuration, and anti-virus scanning guidelines for use with Veritas eDiscovery Platform
Load File Import Guide	Describes how to import load file sources into Veritas eDiscovery Platform
User Guide	Describes how to perform searches, analysis, and review, including detailed information and syntax examples for performing advanced searches

Document	Comments
Export and Production Guide	Describes how to use and produce exports, productions, and logs (privilege and redaction logs).
Imaging Tool Upgrade Guide	Release 10.0 replaced the IGC Native Viewer with PrizmDoc Viewer. This guide provides details about the Imaging Tool Upgrade feature and how to perform Imaging Tool Upgrade for cases that were backed-up pre-10.0 and are restored in the current version of eDiscovery Platform, workflows affected when the cases are upgraded or not upgraded, and frequently asked questions (FAQs).
Audio Search Guide	Describes how to use the Audio Search feature to process, analyze, search and export search media content
Reference and Support	
Audio Processing	A quick reference card for processing multimedia sources
Audio Search	A quick reference card for performing multimedia search tasks
Legal Hold	A quick reference card of how to create and manage holds and notifications
Collection	A quick reference card of how to collect data in Veritas eDiscovery Platform
OnSite Collection	A quick reference for performing OnSite collection tasks
Review and Redaction	Reviewer's reference card of all redaction functions
Keyboard Shortcuts	A quick reference card listing all supported shortcuts
Production	Administrator's reference card for production exports
Online Help	
Includes all the above documentation (excluding Installation and Configuration) to enable search across all topics. To access this information from within the eDiscovery Platform user interface, click **Help**.	
Release	
Release Notes	Provides latest updated information specific to the current product release

For the latest product information: https://www.veritas.com/product/a-to-z.html

Technical Support

Technical Support maintains support centers globally. All support services will be delivered in accordance with your support agreement and the then-current enterprise technical support policies.

For information about our support offerings and how to contact Technical Support, visit our website:

https://www.veritas.com/support

You can manage your Veritas account information at the following URL:

https://my.veritas.com

If you have questions regarding an existing support agreement, please email the support agreement administration team for your region as follows:

Worldwide (except Japan): CustomerCare@veritas.com

Japan: CustomerCare_Japan@veritas.com

Documentation

Make sure that you have the current version of the documentation. The latest documentation is available from:

- Documentation link at the bottom of any page in the eDiscovery Platform landing page.
- Veritas Products Web site: https://www.veritas.com/product/a-to-z

Documentation Feedback

Your feedback is important to us. Suggest improvements or report errors or omissions to the documentation. Include the document title, document version, chapter title, and section title of the text on which you are reporting. Send feedback to:

eDiscovery.InfoDev@veritas.com

You can also see documentation information or ask a question on the Veritas community site: https://vox.veritas.com/

Chapter 2

Introduction and Prerequisites

Veritas eDiscovery Platform Versions Covered

This guide addresses utility node installation for version 10.2.

For information on how to install utility nodes on earlier versions (including a list of specific versions covered), refer to the *Veritas Utility Node Guide 7x/8x.*

Upgrading From Earlier Versions

- Veritas eDiscovery supports direct upgrade paths from10.0 and 10.1 versions of utility nodes to version 10.2.

- The 10.2 installer makes upgrades easier to perform. It uninstalls older versions of the software from your existing utility node and then proceeds to install the 10.2 software from the same installation program.

Utility Node Prerequisites

The utility node machine must meet the following minimum hardware and software requirements:

Note: Release 10.0 replaces the IGC Native Viewer with PrizmDoc Viewer, which introduced several performance improvements in review, redaction, annotation, and other imaging-related operations. However, these enhancements brought in the need for higher hardware requirements. The minimum recommended hardware requirements vary based on whether the appliance will be used for any Imaging related jobs with the Imaging role enabled.

Hardware

Setup without Imaging Operations

Minimum CPUs	Minimum Memory	Required Drives	Minimum Disk Space
4 CPUs	8 GB	C: drive	100 GB disk space on C: drive
D: drive **Note:** Both the C: and D: drives are required for retriever support).			500 GB disk space on D: drive **Note:** To avoid running out of temporary disk space, it is strongly recommended to have at least 500 GB disk space.

Setup Supporting Imaging Operations (With the Imaging role enabled)

Minimum CPUs	Minimum Memory	Required Drives	Minimum Disk Space
8 CPUs	32 GB	C: drive	100 GB disk space on C: drive
D: drive **Note:** Both the C: and D: drives are required for retriever support).			500 GB disk space on D: drive **Note:** To avoid running out of temporary disk space, it is strongly recommended to have at least 500 GB disk space.

Software

- Install and activate a supported Windows Operating System. The utility node runs on the following supported operating systems:
  - Windows Server 2019 (Standard or Data Center Edition)

    Note: While installing Windows Server 2019, you must use the Desktop Experience version and not the core version.

  - Windows Server 2016 (Standard or Data Center Edition)

    Note: While installing Windows Server 2016, you must use the Desktop Experience version and not the core version.

  - Windows Server 2012 R2 (Standard or Data Center Edition)

    Note: eDiscovery Platform installer will install the Ink and Handwriting Services feature for Windows Server 2012 R2 in case it is not installed.

- .Net Version
  - Before you begin the Utility Node installation, you must install Microsoft .NET Framework 4.7.2.
  - It is recommended to install .NET Framework 4.8.0 for security reasons.
- Microsoft Office Professional Plus 2019 32-bit (the 64-bit version is *NOT* supported) on Windows Server 2019.
- Microsoft Office Professional Plus 2013 SP1 32-bit (the 64-bit version is *NOT* supported) on Windows Server 2012 R2 and Windows Server 2016.

    Note: We recommend to install latest patches of Microsoft Office.

  - Microsoft Office with Word, Excel, PowerPoint, and Outlook are installed, activated and the system has been rebooted.
  - Microsoft Office requires an activation key
  - Automatic install of updates should be turned off
  - No trial versions of Office professional should be installed on the box (Consult Microsoft support website if a trial version is automatically installed)

- Windows Firewall can be on or off (previous versions required this off)
- The utility node should *NOT* be a server running the eDiscovery Platform software for cases.
- Confirm that the eDiscovery server is running Veritas eDiscovery Platform version 10.2. Both eDiscovery Platform and Utility Node must have the same version, i.e. 10.2.

User Account / Security Requirements

Shared Directories Permissions & Access

- Confirm user account and security policies to allow for shared directories on the Utility Node.
- The default for these directories is `D:\CWShared`.

Note: By default, the installer sets up the `D:\CWShared` folder to be shared with the **Everyone** group. This is to enable the folder to be shared by the *EsaApplicationService* on the Clearwell server. If your security requirements necessitate restricting the shared permissions, you can grant the *EsaApplicationService* account read/write access to the directory.

- The Utility Node shared directory must be accessible to both the user account running services on the utility node and the user account running the *EsaApplicationService* on the Clearwell server.

This can be accomplished in either of two ways:

- Configure a single Windows domain account to be used by the *EsaApplicationService* on the Clearwell server with read-write access to the Clearwell Shared directory and its subdirectories on the utility node.
- Create a local user account on the utility node with the same name and password as the local user account used by the Clearwell services on the Clearwell server.

Image Helper Service

Veritas eDiscovery Platform leverages the Document Image Helper (also referred to as Document Converter) service to expedite document conversion and handling of typical Microsoft Office documents in native view. The Image Helper service can be deployed in a variety of Veritas eDiscovery Platform topologies. This guide discusses the Document Image

Helper service user account requirements and enabling steps for a basic utility node deployment (one appliances and one or more utility nodes).

It is important that the user account for the Image Helper *service* (*ESAImageHelper)* have the correct privilege levels and access permissions.

The utility node installation workflow also requires a post-installation step to enable the service on the appliance where the utility node(s) are being deployed.

Image Helper (*ESAImageHelper)* Service User Account

Please ensure the following:

1. The user account for the service has the "Log On As" service right and is not an account that manages any other eDiscovery Platform services or PrizmDoc services.

2. At a minimum, the user account must be a domain user account and have UNC access (versus a drive letter) to read and write to the Veritas eDiscovery Platform appliance. For example, `\\<appliance-IPadddress>\d$\<dir>\<dir>\...`

Enabling Document Image Helper

After successfully completing the utility node install, you must activate the Document Image Helper service for the appliance. This task is done using the support feature Imaging Tools and is performed from the **System > Support Features** tab on the primary cluster node**.**

IMPORTANT: Ensure that the Image Helper service (*ESAImageHelper)* service on the utility node(s) is online and running before enabling it with the support feature on the primary cluster node.

Note: The Resource Manager does not manage the Document Image Helper service.

PrizmDoc Service

Introduced in release 10.0, PrizmDoc Viewer allows you to add powerful document viewing and document conversion functionality to your web applications. PrizmDoc Viewer includes an advanced HTML Viewer control which allows users to view, search, annotate, redact, print, and download documents in many different file formats, right in their HTML5 browser.

It is important that the user account for the PrizmDoc *service* have the correct privilege levels and access permissions.

The utility node installation workflow also requires a post-installation step to enable the service on the appliance where the utility node(s) are being deployed.

PrizmDoc Service User Account

Please ensure the following:

1. The user account for the service has the "Log On As" service right and is not an account that manages any other eDiscovery Platform.
2. At a minimum, the user account must be a domain user account or a local user with administrative privileges.
3. eDiscovery Platform installer adds the user to the local admin group.

Enabling PrizmDoc Service

After successfully completing the utility node install, you must activate the PrizmDoc service for the appliance. This task is done using the support feature Imaging Tools and is performed from the **System > Support Features** tab on the primary cluster node**.**

IMPORTANT: Ensure that the PrizmDoc service on the utility node(s) is online and running before enabling it with the support feature on the primary cluster node.

Note: The Resource Manager does not manage the PrizmDoc service.

Utility Node Deployment Performance Improvement

The following guidelines should be used in determining how many Utility Nodes to deploy.

In addition to PrizmDoc conversions, utility nodes can be used to perform Stellent conversions during HTML caching and text or metadata extraction during export.

Utility Node Considerations:

■ Caching and Bulk Redaction jobs see significant reduction in execution time with the addition of Utility Nodes.

■ Production exports are distributed for better performance when generating PDF/TIFF files.

■ For one appliance, 4-6 utility nodes are recommended. If Utility Nodes are shared by multiple appliances, then more Utility Nodes are recommended to distribute the workload.

Retriever Considerations:

- Retriever Utility Nodes improves the performance of PST and NSF retrievals. This is true for search, cache, productions, or exports; especially when the data spans multiple PSTs or NSFs.

- When Retriever Utility Nodes are used, each PST and NSF file is assigned to a particular Retriever node. This means that all retrievals for a particular PST or NSF file would happen on the same utility node.

- Performance improvement may vary, depending on how many utility nodes are configured and how many utility nodes are actually used for any single job that requires retrievals. For example, if all messages from a particular PST or NSF file are being exported, performance improvement will be negligible.

Utility Node Configuration Options

Configuration Modes

Starting with eDiscovery Platform 7.0, if you have additional appliances that you want to use as utility nodes (in addition to and apart from the eDiscovery Platform primary appliance), you can configure them to operate in a cluster, or "Scale Out" mode.

Utility Nodes
Cluster/Scale Out Mode
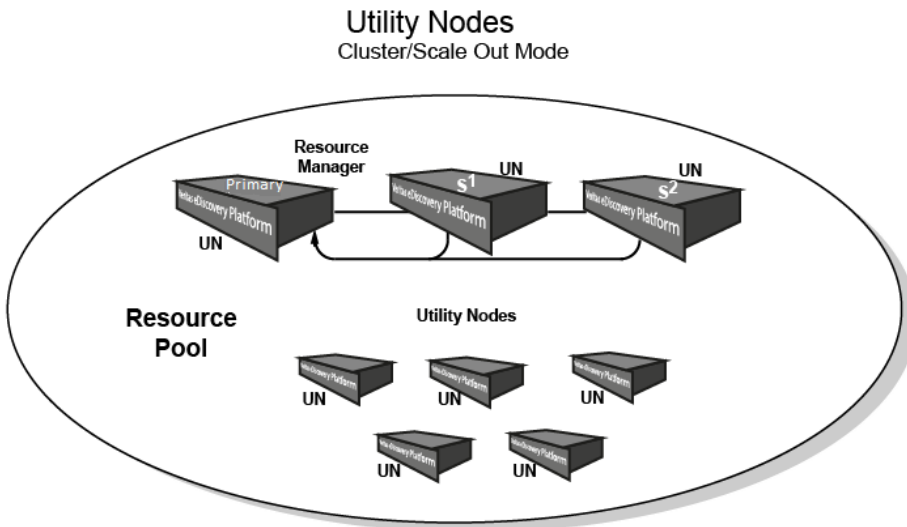
Alternatively, you can choose the traditional configuration which uses stand-alone servers with a shared resource pool of utility nodes. Both options use a resource pool, and have a primary appliance designated as the Resource Manager.

Utility Nodes
Stand-Alone Servers with Shared Resource Pool
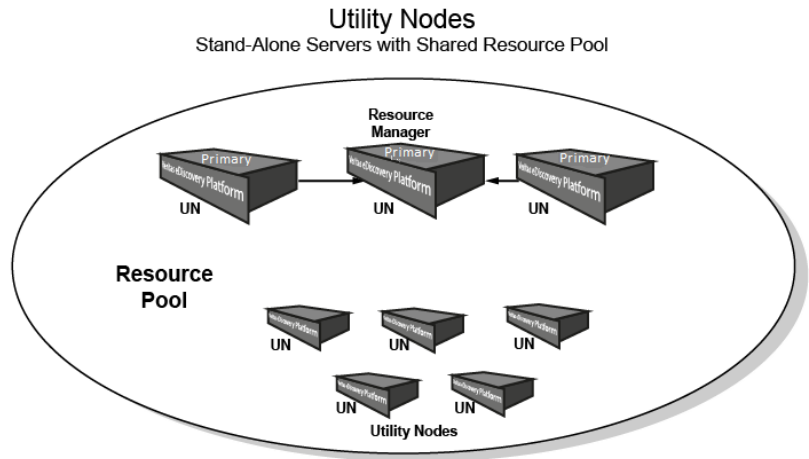
Resource Manager (RM) Rules and Functionality

The requirements must be met when configuring your appliances for your particular deployment option:

Note: The Resource Manager manages the Retriever service. It does not manage PrizmDoc, Stellent or the Image Helper services.

For Scale Out Mode:

- When adding utility nodes, the Primary and cluster appliances will act as utility nodes.
- All utility nodes must be running Veritas eDiscovery Platform 10.2.
- The RM runs only on the cluster Primary appliance. (This cannot be changed.)
- The RM runs off the cluster Primary by default (in Scale Out mode only).

For Stand-Alone Servers:

- All utility nodes must be running Veritas eDiscovery Platform 10.2.
- The RM runs on every appliance (by default)
- Use the Utility Node Resource Management support feature (Veritas eDiscovery Platform user interface) to point to another RM.

To designate an appliance as the Resource Manager (after configuring utility nodes for your desired setup), see Resource Manager Registration.
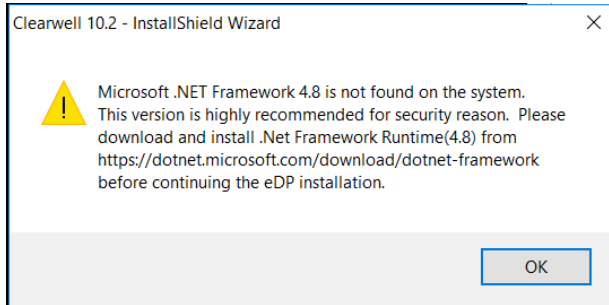
Installation

Installing the Utility Node

1. Confirm that the utility node meets the hardware and software requirements specified in Utility Node Prerequisites on page 12.

2. Ensure that the correct version of Microsoft Office is installed (depending on Windows OS version) and activated. Ensure that all latest patches are also installed.

3. Log in as a local user with admin privileges. The user should be part of local admin group.

4. Download the Utility Node installation package from: https://www.veritas.com/support/en_US/article.000100418.

5. Run **InstallClearwell.bat** to launch the installer.

6. A warning is issued if the minimum required version of .NET 4.7.2 is not installed on the system. Click **OK**.
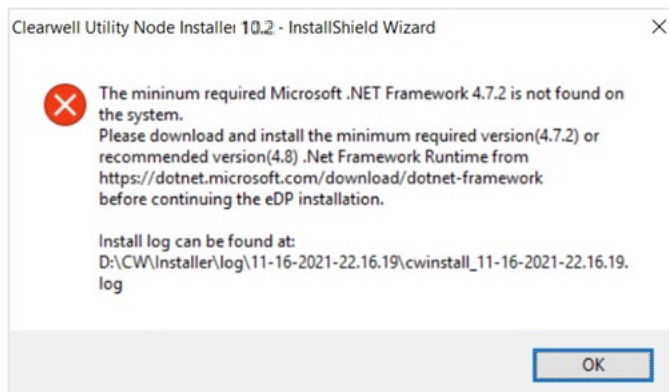
7. A warning is issued if .NET 4.8.0 is not installed on the system. We recommend to install this version for security reasons. Click **OK**.


8. Click **No** to continue the eDiscovery Platform installation if .NET 4.7.2 is installed on your system.
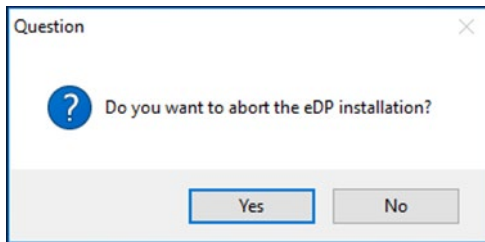

9. After installing Microsoft .NET and rebooting the system (may need more than one reboot), proceed with re-launching the installer ***InstallClearwell.bat***.

10. If the minimum required version of .NET is found, then the Clearwell screen appears displaying the version being installed. Click **Next**.
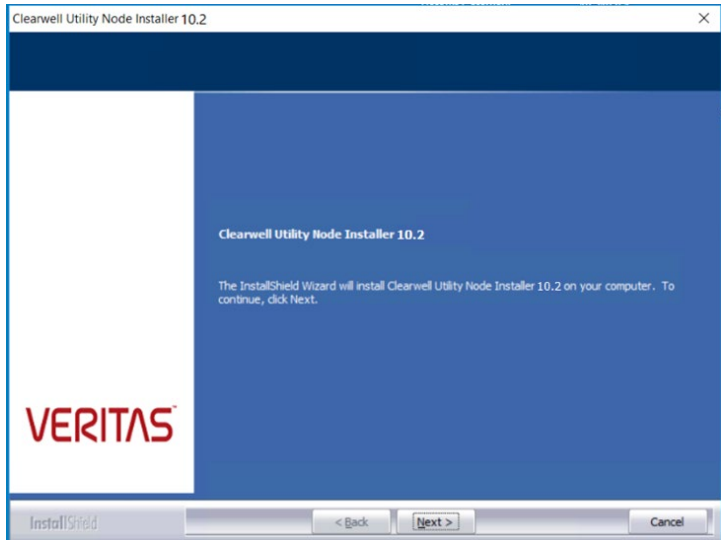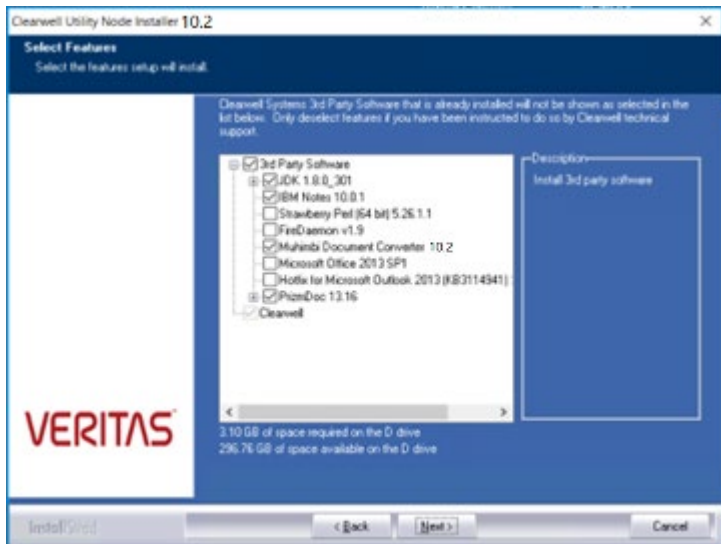
11. Choose Destination Location for the installation files. Click **Next**.
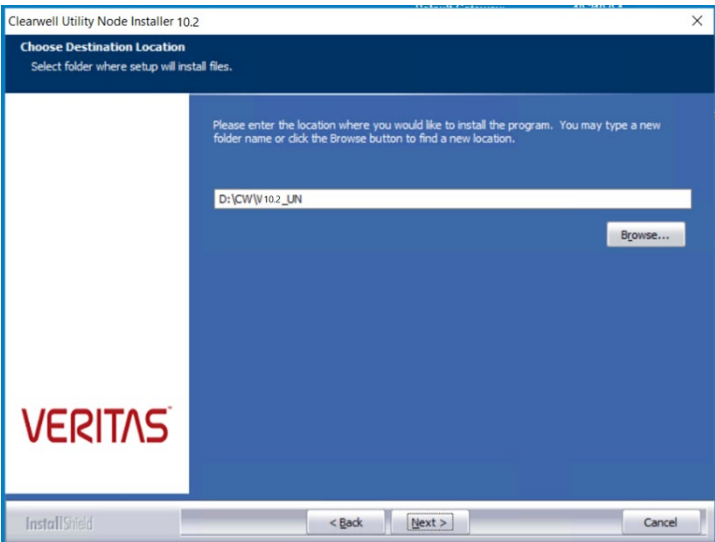
12. The Select Type screen displays. Choose **Custom**.
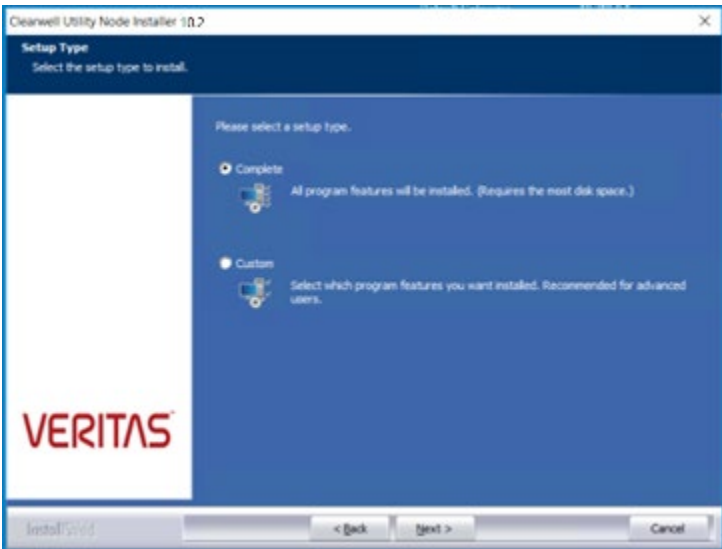
13. The Select Features screen displays what will be installed. All items that are not already installed will be selected by default.

Clearwell Services are included by default and will always be installed with every utility node, even though the node is only used for imaging.

14. The eDiscovery Platform installer creates the EsaPrizmDocAdmin local user with admin privileges for PrizmDoc services. Wherever the utility node is being installed, the PrizmDoc would be installed on the same drive where clearwell services are installed.
Only PrizmDoc Sever would be installed but not the PrizmDoc Client on utility nodes.

15. The current date and time is shown. Click to change the date/time, and/or change the time zone. Click **OK**.
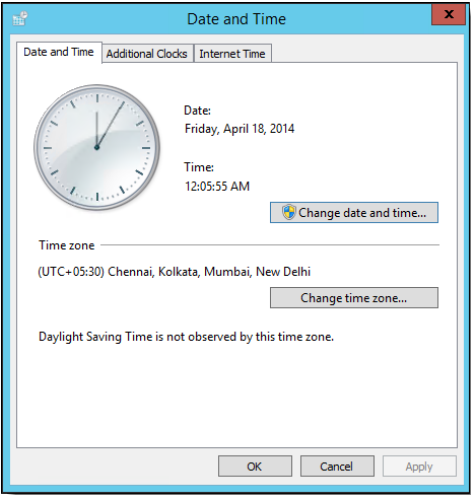
If Clearwell services are to be installed, the Clearwell Service Information screen allows you to enter the logon credentials for all of the service user accounts.
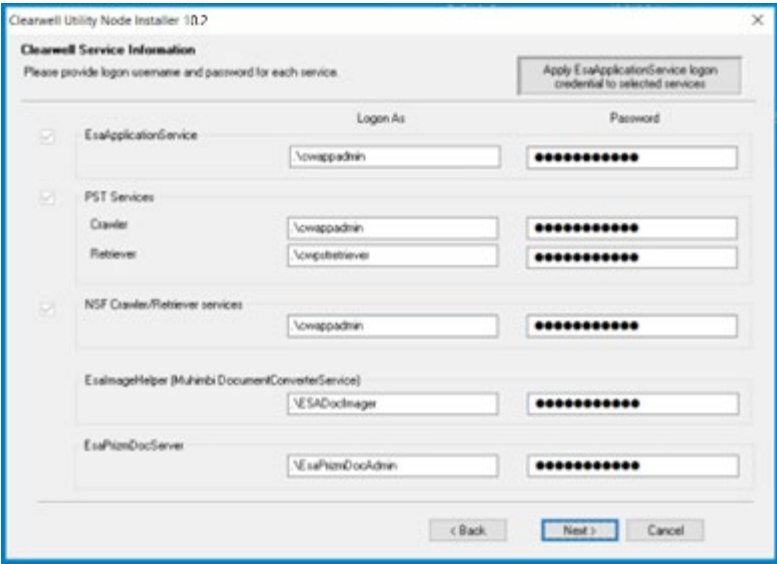
Note: Be sure that the Muhimbi Document Converter Service
(*ESAImageHelper*) user account is properly set up. See Image Helper
Service for details.

Click **Next**.

16. If the Firewall is enabled, it will be disabled by the installer. Click **OK.**
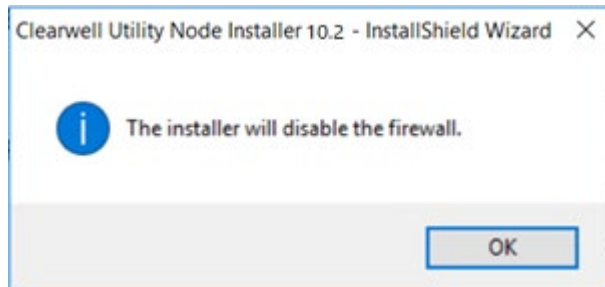
17. Click **Next** to begin the installation.
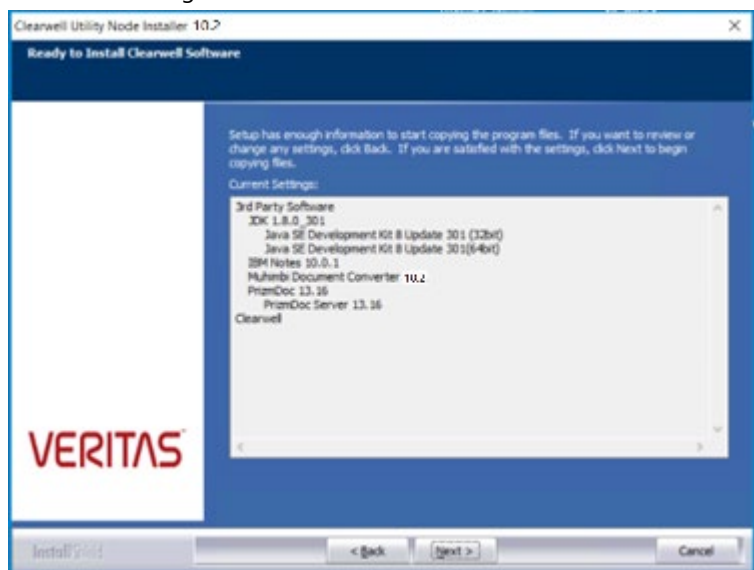
If older versions of the utility nodes (for example, v 10.0) are installed,
the installer uninstalls the old version and then proceeds with the 10.2
utility node install.

The installation program will create a *CWShared* folder in the same drive
where eDiscovery Platform is installed.

This directory must be shared, and must be accessible for read/write
access by the local Service account, as well as the account that is

running the e*saApplicationService* on the Veritas eDiscovery Platform appliance.
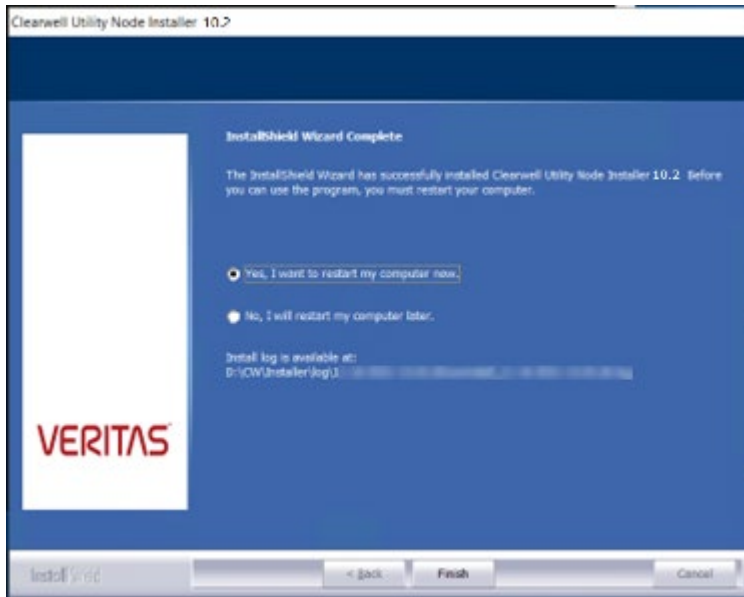
18. Once installation is complete, you must restart your computer. Select to do this now or later and click **Finish**.

19. After rebooting the system. You can start all the platform services.

20. Go to the services to verify that PrizmDoc, Retriever, and *EsaApplicationService* were installed successfully. These are the services to check:

   - *EsaApplicationService*
   - *EsaPstRetrieverService*
   - *EsaNsfRetrieverService*
   - *EsaPrizmDocServer*
   - *EsaImageHelper*

21. The Utility Node installer automatically configures Microsoft Outlook so that it is set NOT to reply to read receipts.

   To verify that this Microsoft Outlook option is correctly configured, click on the **File** menu > select **Options** link and navigate to **Mail** tab on the left-hand side. Scroll down to the **Tracking** section and select the option to **Never send a read receipt**. Click **OK** to confirm and save the changes. Exit Outlook.

Utility Node Configuration

The Utility Node can be configured to run any of the following services that participate in the Veritas eDiscovery Platform workflows:

- Retriever (PST and NSF Data)
- PrizmDoc (Imaging)
- Stellent (Text Extraction)
- Image Helper – ESA Image Helper (Muhimbi Document Conversion)

Introduced in version 8.1, the Utility Node architecture, including the management of the Retriever, PrizmDoc, Stellent and Image Helper services has been improved and optimized. These improvements require a few changes in the Utility Node configuration workflow. While Utility Nodes and services are still configured with property settings from the Support Features tab, you will use different support feature properties depending on the function of the Utility Node.

The Utility Node properties are:

- *Utility Node Resource Management--* configures the Retriever (managed by the Resource Manager) and the Resource Manager.

  IMPORTANT: Ensure that the *EsaApplicationService* on the utility nodes is online and running before adding the utility node to the Resource Manager.

- *Imaging Tools Management* -- configures PrizmDoc, Stellent and Image Helper services.

Configuring Retriever Utility Nodes

To configure retriever utility nodes

1. Log on to the primary node, and from the top navigation bar, click **System > Support Features**.

2. Choose the **Utility Node Resource Management** support feature.

3. For the selected Utility Node Resource Management feature, select another appliance (if different than the current appliance) where you want to configure the installed utility nodes.
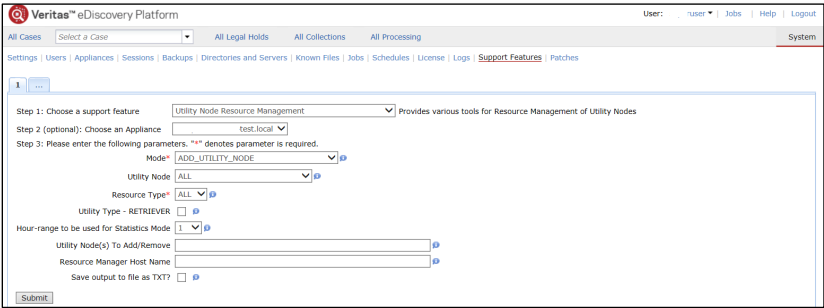
4. Enter the following parameters ("*****" denotes that the parameter is required):

- **Mode (required)** – Select an action to perform from the drop-down menu:
  - **ADD_UTILITY_NODE** – Use the **Utility Type** and **Utility Node To Add/Remove** fields to add a utility node to the resource pool
  - **REMOVE_UTILITY_NODE** – Use the **Utility Type** and **Utility Node To Add/Remove** fields to remove a utility node from the resource pool
  - **RESOURCE_LIST** – Use the **Utility Node** and **Resource Type** fields to display a list of configured resources
  - **CONFIGURE _RESOURCE_MANAGER** – Use the **Resource Manager Name to register with** field to define a new resource manager for this appliance
  - **VIEW_RETRIEVER_SOURCE_MAPPINGS**– Displays PST and NSF files assigned to various retriever nodes.
- **Utility Node –** Select a Utility Node on which to perform the selected action.

> **Note:** Actions that will use this field are **RESOURCE_LIST** and **STATISTICS**.

- ■ **Resource Type (required) –** Select a specific Resource Type on which to perform the selected action.

> **Note:** Actions that will use this field are **RESOURCE_LIST** and **STATISTICS**.

- ■ To configure nodes for Retrievals, select the **Utility Type - Retriever** check box.

> **Note:** Actions that will use this field are **ADD_UTLITY_NODE, REMOVE_UTLITY_NODE** and **STATISTICS**.

- ■ **Hour-range to be used for Statistics Mode** – Select a value ranging from 1-24 to designate how many hours back from current time to calculate statistics.
- ■ For the **Utility Node(s) to Add/Remove**, enter utility nodes separated by a comma (,), semicolon (;), or whitespace ( ). Supported formats include: Hostname, FQDN, or IP.

> **Note**: Earlier, eDiscovery Platform only supported IPv4 address format. Starting with 9.0.1, eDiscovery Platform supports IP addresses in IPv4 and IPv6 formats. If IPv6 format is used, then it must be enclosed in square brackets as shown in this example: [fd74:128f:f0b1:901f:1111:2222:3333:4444].

5. Click **Submit**.

Image Helper, PrizmDoc and Stellent Service Management

To activate PrizmDoc, Image Helper and Stellent services on the appliance, you configure the **Imaging Tools Management** support feature.

Image Helper Utility Node

■ The Image Helper service on the utility node(s) must be online and running before enabling it with the support feature on the appliance.

PrizmDoc Utility Node

The eDiscovery platform integrates the PrizmDoc application for viewing image and text content. The integrated PrizmDoc capabilities are mainly used for the review, export and production workflows. One use of the utility node can be to optimize and parallelize PrizmDoc conversions and workloads.

If you upgrade to v10.2, make sure you add the utility node as a secondary node for PrizmDoc service.

Prizmdoc Components

■ EsaPrizmDocServer

Prerequisites

Check the following before you configure services on the appliance:

Account

■ Ensure that the PrizmDoc services on the utility node(s) are online and running before enabling it with the support feature on the appliance.
■ The user account for the services has the "Log On As" service right

Network Access

■ The services (EsaApplicationService : FireDaemon has access to the UNC export path.

■ The user account must be a domain user account and have UNC access (versus a drive letter) to full access (read, write and modify) to the Veritas eDiscovery Platform appliance and to any configured external export locations.

For example, `\\<appliance-IPadddress>\<d$>\<dir>\<dir>\`...

Note: To determine if the eDiscovery server is configured for external exports, see <u>Verify External Export Setup</u>.

To configure PrizmDoc, Image Helper and Stellent services on the appliance

The steps below describe each of the required options for the services: PrizmDoc, Image Helper and Stellent.

Note: This example shows you how to enable the Image Helper and add a secondary node. This is a basic configuration where there is one appliance and one utility node.

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1. From the **System > Support Features** screen, choose the **Imaging Tools Management** support feature.

2. Select an appliance where you want to enable the service. In this example. **appliance1.test-1.local** is selected.

3. Select an option and service from the drop-down menu.

■ **Options (required)**

■ **ENABLE_SERVICE** – Enable service temporarily. Applies only to appliances

■ **SERVICE_STATS** –View current statistics of service

■ **CUMULATIVE_STATS** –Gets cumulative statistics of service

■ **CAPACITY_LOG** – Shows the capacity (consumption rate) of the service

- **ADD_SECONDARY_SERVICE_NODE** –Adds secondary service nodes to the cluster
- **LIST_ SECONDARY _SERVICE_NODE** –Lists the secondary service nodes associated with the cluster
- **RESTART_ALL_SERVICES** –Restarts service on all nodes
- **REMOVE_ SECONDARY_SERVICE_NODE** –Removes service from all secondary nodes.
- **DISABLE_SERVICE** – Disables service. Applies only to appliances
- **Service (required)**
- **PrizmDoc** – PrizmDoc service
- **ESA_IMAGE_HELPER**– ESA Image Helper service
- **STELLENT**– Stellent service

4. **Enter Secondary Node(s)** – Enter utility node(s) to add or remove from the configuration. In the example, **utility1.test-1.local** is selected.

   Notes:
   - Enter the Fully Qualified Domain Name (FQDN) or IP address (IPv4 or IPv6) of the utility node(s).
   - Multiple utility nodes can be specified using comma, semicolon or whitespace(s)
   - Actions that accept multiple values for this field are: **ADD_SECONDARY_SERVICE_NODE** and **REMOVE_ SECONDARY _SERVICE_NODE**
   - Actions that only work with a single value in this field are: **SERVICE_STATS** and **RESTART_SERVICE**.

5. Select the **Save output file as TXT** check box if you want redirect your output to be in a unique text file format

6. Click **Submit**.

Resource Manager Registration

To designate an appliance as the Resource Manager, you can use the Utility Node Resource Management support feature to register the appliance.

IMPORTANT: Ensure that the *EsaApplicationService* on the utility nodes is online and running before adding the utility node to the Resource Manager.

To register an appliance as the Resource Manager

1. From the **System > Support Features** screen, choose the **Utility Node Resource Management** support feature.
2. Enter the name of the resource manager with which this appliance will be registered.

Note: A service restart is required for this change to take effect. Supported formats include: Hostname, FQDN, or IP (IPv4 or IPv6). Enter *localhost* to set the resource manager back to the current appliance. Actions that will use this field: CONFIGURE_RESOURCE_MANAGER

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3. Select the **Save output file as TXT** check box if you want redirect your output to be in a unique text file format.
4. Click **Submit**.

Verify External Export Setup

Use the following procedure to verify if your eDiscovery server is configured for external exports.

To check external export configuration

1. Go to **System > Support Features**, and select **Property Browser**.
2. For **Pattern to match**, enter the property: esa.export.joboutput.external
3. Click **Submit**.
4. Evaluate the output:

Local: If the property has ever been set and removed, the property browser utility displays esa.export.joboutput.external = . The blank space means that exports are local.

External: If esa.export.joboutput.external = \\sharename\external\exportlocation than exports are stored external to the eDiscovery server.