



ViewDS Access Proxy Installation Guide

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Document Lifecycle

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About this guide

This guide describes how to install Access Proxy and how to set up a Certificate Lookup Service. This section describes:

- Who should read this guide
- Related documents
- How this guide is organized

Who should read this guide

Read this guide if you need to install Access Proxy and set up a certificate lookup service. Before using this guide, you should first read the *system overview* in the *ViewDS Directory: Installation and Operation Guide*.

Related documents

The other documents in the ViewDS document set are:

- ViewDS Directory: Installation and Operation Guide
- ViewDS Access Sentinel: Installation and Reference Guide
- ViewDS Technical Reference Guide: Directory System Agent
- ViewDS Technical Reference Guide: User Interfaces
- ViewDS Management Agent In-application Help

The *ViewDS Technical Reference Guide: Directory System Agent* includes information about operational attributes that relate to Access Proxy.

How this guide is organized

This guide contains the following:

About this guide

Provides an overview of this guide.

[About Access Proxy](#)

Provides an overview of the ViewDS Access Proxy.

[Installing and configuring](#)

Provides the instructions for installing and configuring Access Proxy.

About Access Proxy

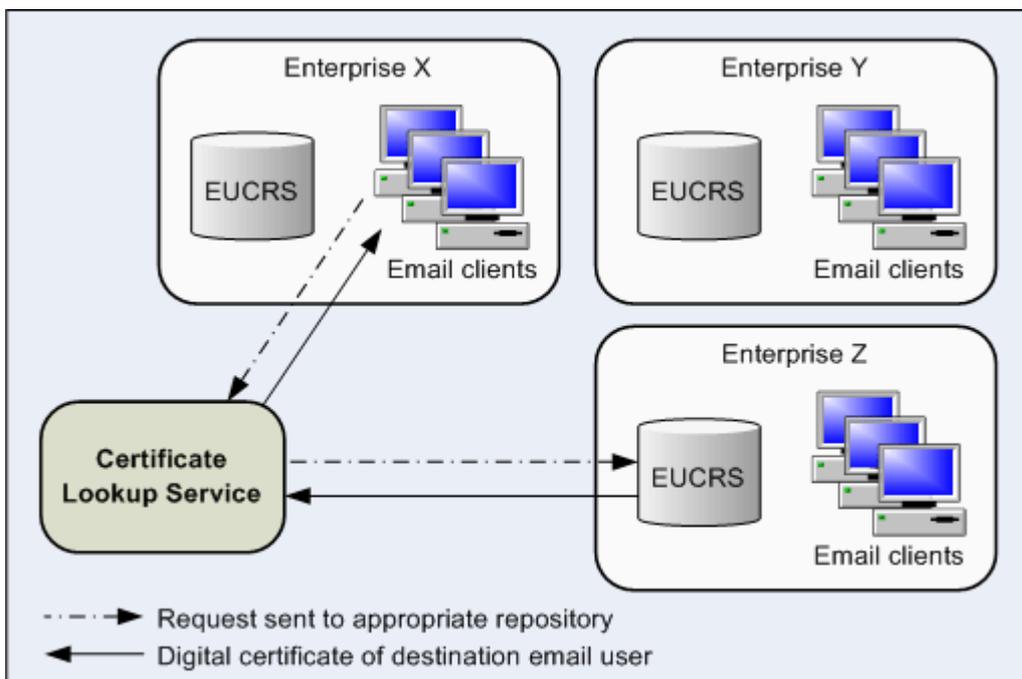
This section provides an overview of Access Proxy.

It includes the following:

- What is a Certificate Lookup Service
- Access Proxy architecture
- End-User Certificate Repository Service

What is a Certificate Lookup Service

A Certificate Lookup Service directs requests for digital certificates to the appropriate End-User Certificate Repository Service (EUCRS). These repositories of digital certificates might be within the same organization as the requesting email client or within an external organization.

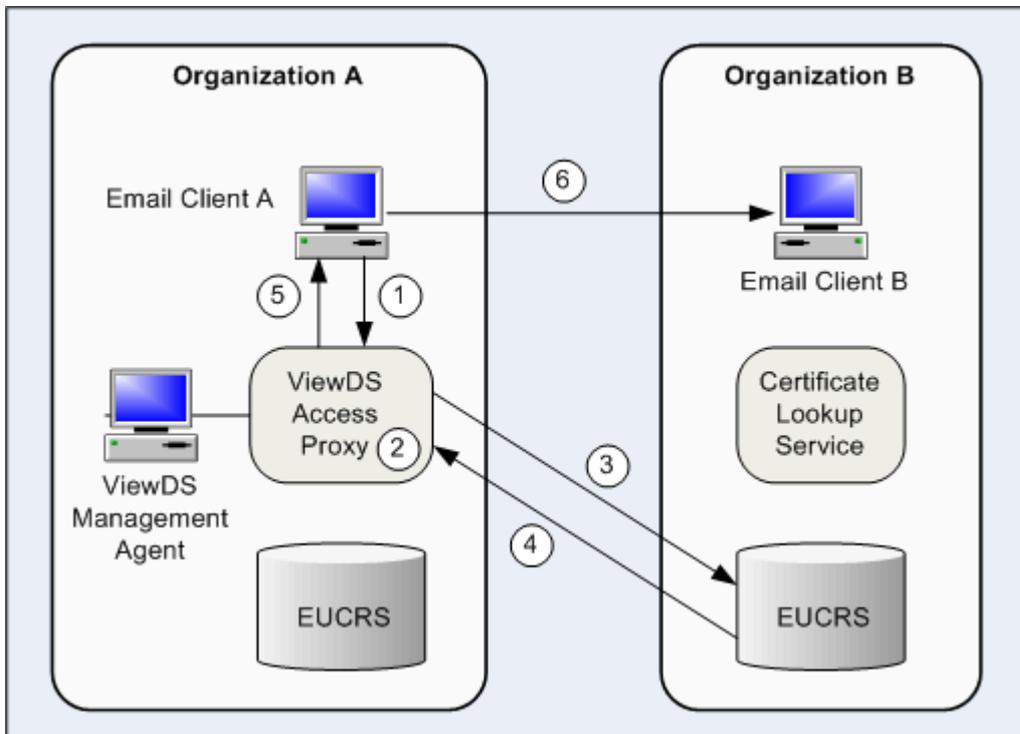


Access Proxy architecture

ViewDS Access Proxy provides a Certificate Lookup Service that complies with the Transglobal Secure Collaboration Program specifications (see <http://www.tscp.org>).

It is managed through the ViewDS Management Agent, which allows you to declare one or more End-User Certificate Repository Services (EUCRS).

The following illustration shows the steps when a user in *Organization A* sends a secure email to a user in *Organization B*.



Before sending the email, *Client A* must obtain *Client B*'s digital certificate, as described below (and shown above):

1. The user of Client A is authenticated by Access Proxy, and the client sends a request for User B's digital certificate.
2. Access Proxy looks up which End-User Certificate Repository Services (EUCRS) stores the User B's digital certificate. (The EUCRS is identified according to the domain in User B's email address.)
3. Access Proxy authenticates with the appropriate EUCRS using either simple or anonymous authentication. (If required, Access Proxy forwards the authentication identity of Client A as an authorisation identity to the EUCRS.)
4. The EUCRS returns User B's digital certificate to Access Proxy. (The email address itself is used as the lookup key in the EUCRS.)
5. Access Proxy sends the digital certificate to Client A.
6. Client A encrypts the email and sends it to Client B.

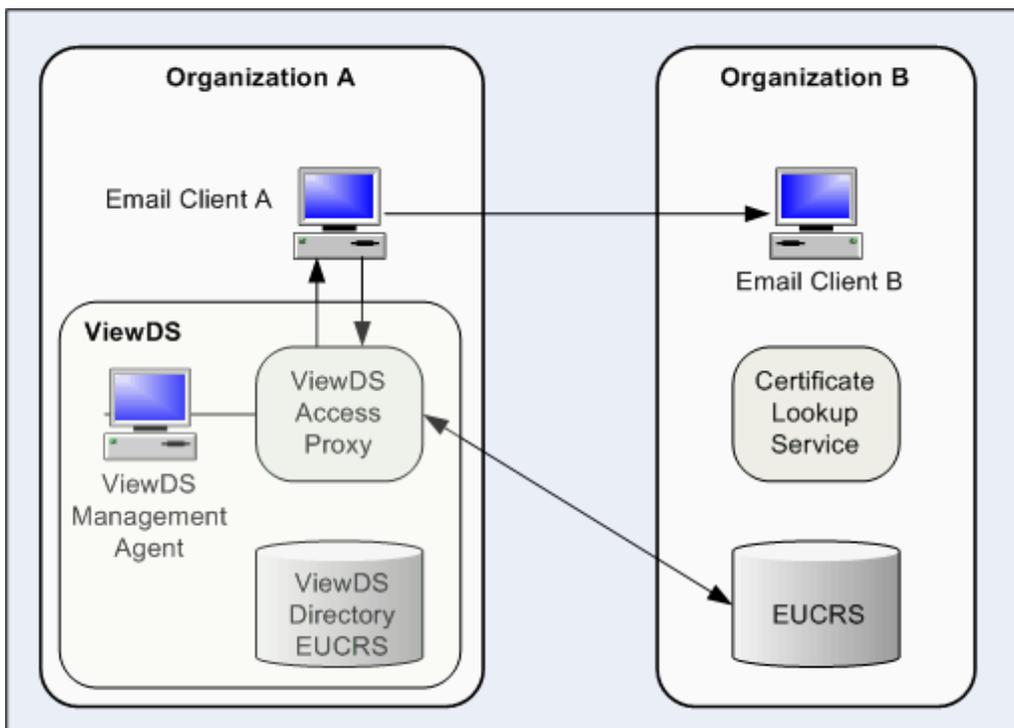
Client B could be configured to send requests to Access Proxy or to its local Certificate Lookup Service.

End-User Certificate Repository Service

Access Proxy supports access to both an LDAP and X.500 EUCRS and accepts both LDAP and DAP certificate lookup requests. An EUCRS can be an LDAP or X.500 directory.

ViewDS can provide a combined CLS and EUCRS since the ViewDS directory can be implemented as the EUCRS.

Access Proxy has different licensing requirements to the core ViewDS product which provides the directory.



The Access Proxy CLS and EUCRS can be replicated for increased throughput or high availability. For information about replicating ViewDS, see the ViewDS Technical Reference Guide: Directory System Agent.

Installing and configuring

This section contains instructions for installing and configuring ViewDS Access Proxy.

It includes the following tasks:

- Installing Access Proxy
- Configuring LDAP communication
- Emptying the default database
- Configuring for anonymous authentication
- Declaring an EUCRS

Installing Access Proxy

To install ViewDS Access Proxy:

1. If ViewDS is not currently installed, perform the tasks in *Installing ViewDS* in the *ViewDS Directory: Installation and Operation Guide*.

You will need an Access Proxy licence.

If ViewDS is already installed, add the Access Proxy licence to the DSA's configuration – see the ViewDS Management Agent help topic, *View or modify a DSA's configuration*.

2. Ensure that each EUCRS to be accessed by Access Proxy is populated with each user's email address and digital certificate.
3. Complete the next task, [Configure for LDAP communication](#).

Configuring LDAP communication

To configure for LDAP communication between email clients and Access Proxy:

1. Read *Exploring through the Management Agent* in the *ViewDS Directory: Installation and Operation Guide*.
2. Start the ViewDS Management Agent.

3. If your ViewDS installation is licensed for more than just Access Proxy, click **Server View** at the bottom or the left pane. (When ViewDS is licensed for just Access Proxy, this button is unavailable and Server View is displayed.)
4. In the left pane, click the server and ensure that it is connected to the RAS and DSA, and that both are running.
5. In the right pane, click the **Configuration** tab.
6. Within the **Configuration** tab, click the **Addresses** tab.
7. For the DSA LDAP address parameter, double-click the current setting in the **Value** column.
8. Set the value to the address on which ViewDS Access Proxy should listen for LDAP requests.
9. At the bottom of the right pane, click **Set**. A confirmation window is displayed.
10. Click **Yes**. The ViewDS DSA restarts.
11. Configure email clients to send LDAP requests for digital certificates to ViewDS.
12. Complete the next task, [Empty the default database](#).

Emptying the default database

An installation of ViewDS includes a default demonstration database that includes authentication credentials, email addresses and certificates for a fictitious organization.

To empty the default database:

1. In the right pane of the ViewDS Management Agent, click the **Status** tab.
2. At the bottom of the right pane, click the **Text View** button.
3. In the **Database Maintenance** area, click the **Dump** button.
4. In the **Database Recovery** area, click the **Empty** button.
5. Complete the next task, [Configure for anonymous authentication](#).

Configuring for anonymous authentication

To configure Access Proxy to allow an email client to authenticate anonymously:

1. In the right pane of the ViewDS Management Agent, click the **Trust** tab.
2. Under the Trust tab, click the **Anonymous Privilege** tab.
3. In the Protocols area of the Anonymous Privilege tab, select the **Directory Access Protocol** check-box.
4. In the Credential Types area, select the first three check-boxes:
 - No Credentials in the Directory Binding Argument
 - Simple Credential, name=ROOT and password absent
 - Simple Credential, name=ROOT and empty password
5. In the Access Rights box, click **Read**.

6. Click the **Save** button.
7. Complete the next task, [Declare an EUCRS in Access Proxy](#).

Declaring an EUCRS

To declare an EUCRS:

1. In the right pane, click the **Certificate Proxy** tab.
2. Click the **New** button. The Certificate Proxy window is displayed.
3. In the Label box, enter a name to identify the EUCRS within the ViewDS Management Agent.
4. In the Base DN box, enter the DN (LDAP string representation) of the base entry for certificate searches within the EUCRS.
5. In the Address box, enter the URI representing the LDAP address on which the EUCRS listens for connections.

For example, `ldap://localhost:3500`

6. If Access Proxy should authenticate anonymously with the EUCRS, go to step 7 below. Otherwise, for simple authentication:
 - a. In the Bind DN box, enter the DN (LDAP string representation) for the identity that Access Proxy should use to authenticate with the EUCRS.
 - b. In the Password box, enter the password for the identity used for authentication.
7. To add a domain whose certificates are stored by the EUCRS:
 - a. Click the **Add** button. The Add Domain window is displayed.
 - b. Enter the domain name (for example, `anorganization.com.au`).
 - c. Click **OK**. The domain is added to the Domains box.
 - d. Repeat these steps as required.
8. If the identity used to authenticate to Access Proxy should be provided as an authorization identity to the EUCRS, select the **Authorization** check-box.
9. Click **OK**. The EUCRS is added to the Certificate Proxy tab.