



VIEWS ACCESS PROXY INSTALLATION
GUIDE

Published: 2014

Version: 7.4

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ViewDS Access Proxy Installation Guide

September 2014

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ABN 19 092 422 476

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 Installation and Operations Guide.

Related documents

The other documents in the ViewDS document set are:

- [ViewDS Installation and Operation Guide](#)
- [ViewDS Access Sentinel Installation and Reference Guide](#)
- [ViewDS Application Integration Kit for .NET](#)
- [ViewDS Application Integration Kit for Java](#)
- 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:

[Section 1: About this guide](#)

Provides an overview of this guide.

[Section 2: About Access Proxy](#)

Provides an overview of the ViewDS Access Proxy.

[Section 3: 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.

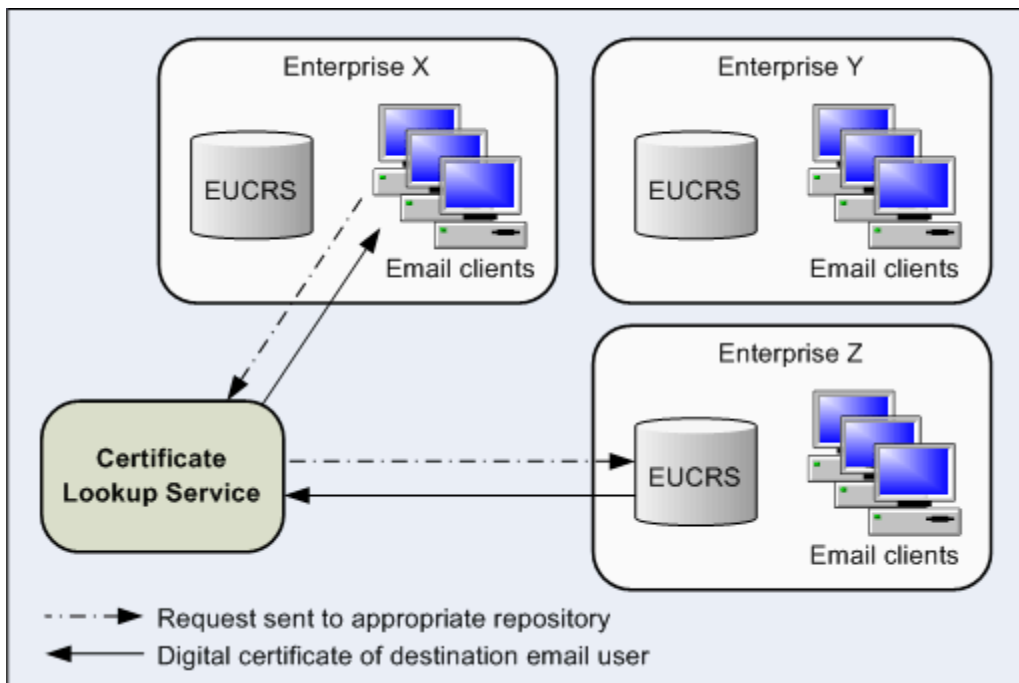


Figure 1: Certificate Lookup Service

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).

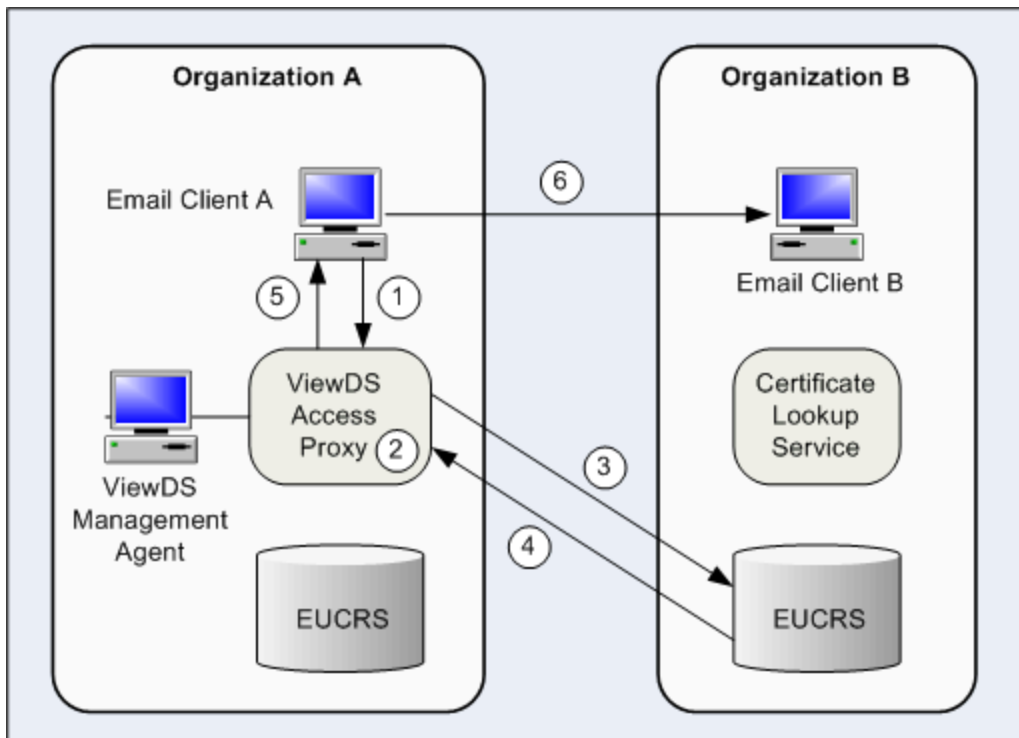


Figure 2: Access Proxy

Figure 2: Access Proxy 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 User B's digital certificate, as described below (and shown in Figure 2: Access Proxy):

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.

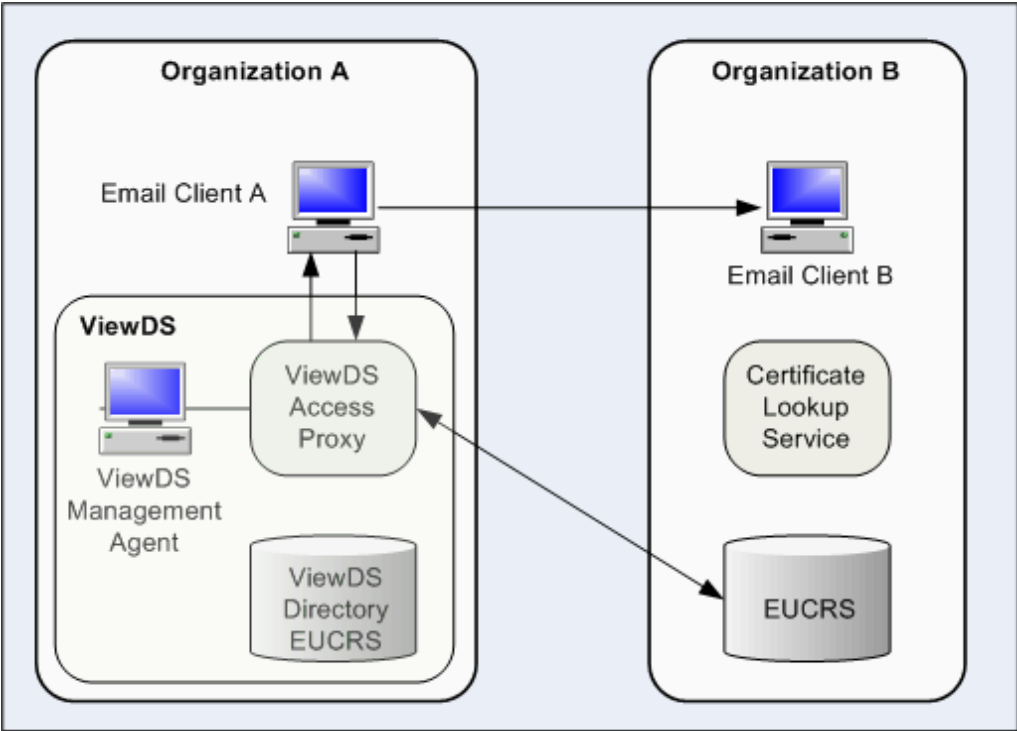


Figure 3: Access Proxy and ViewDS directory EUCRS

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 Installation and Operations 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. [Configure for LDAP communication](#) as described in the next topic.

Configuring LDAP communication

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

1. Read [Exploring through the Management Agent](#) in the [ViewDS Installation and Operations 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. [Empty the default database](#) as described in the next topic.

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. [Configure for anonymous authentication](#) as described in the next topic.

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. [Declare an EUCRS in Access Proxy](#) as described in the next topic.

Declaring an EUCRS

To declare an EUCRS through the ViewDS Management Agent:

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, skip 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.