

# The Virtual Identity Server (VIS)<sup>™</sup> As A Proxy Firewall Server

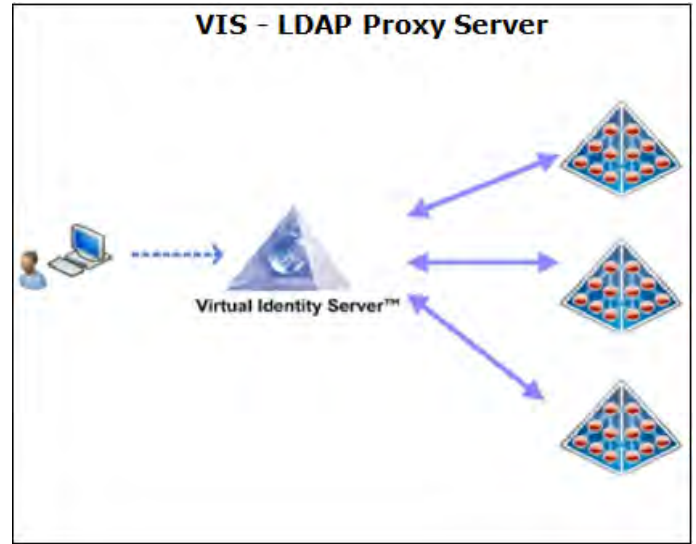
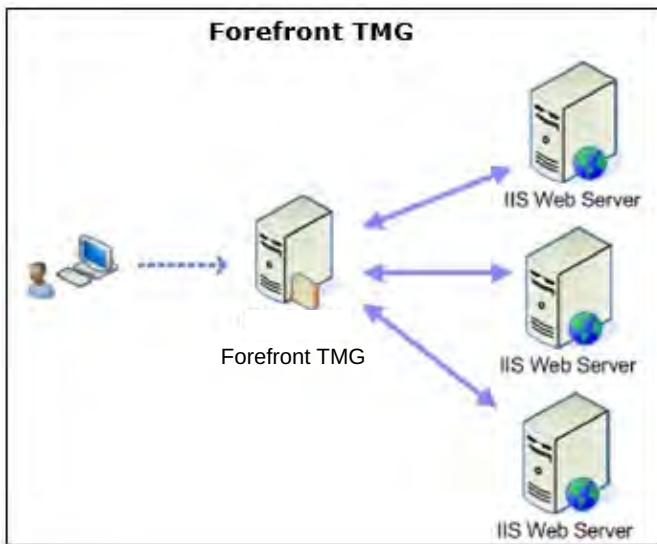


**OPTIMAL** **IdM**

Identity & Access Management

# MANY ORGANIZATIONS UTILIZE AN HTTP WEB PROXY SERVER, SUCH AS MICROSOFT'S FOREFRONT THREAT MANAGEMENT GATEWAY (TMG) SERVER WITHIN THEIR WEB SERVER ENVIRONMENT. FOREFRONT TMG PROVIDES NOT ONLY A MORE SECURE ENVIRONMENT, BUT ALSO ADDITIONAL PERFORMANCE CAPABILITIES.

Likewise, using the **Virtual Identity Server (VIS)** from Optimal IdM deployed as an LDAP proxy firewall server offers this type of protection and security for LDAP directories such as Active Directory. Applications connect to the VIS proxy server exactly as they do any normal LDAP directory. In fact, VIS looks and behaves just like a standard Active Directory or ADAM server to the LDAP enabled client application.

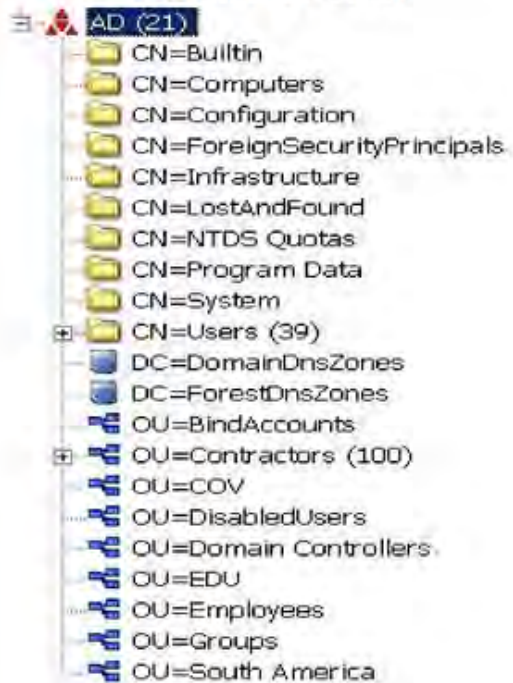


## THE VIRTUAL IDENTITY SERVER PROVIDES APPLICATION SPECIFIC VIEWS

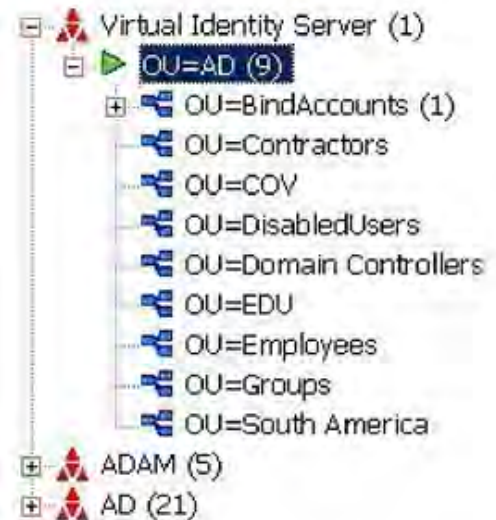
In many cases, applications that are written to Active Directory are written poorly and inefficiently. For example, many applications connect at the root of the Active Directory forest when they may only need to search one or two containers in the tree. Additionally, many applications only need to view users and groups, but in reality are granted access to view more than just users and groups.

VIS easily maps and publish application specific views, granting only the data the application requires.

### Normal AD View



### VIS - Filtered View



### Technical Specifications

Windows Server 2003 or Windows Server 2008  
 .NET 4.0 Framework or greater  
 Runs as standard Windows service  
 Built-in Audit Logging (Requires SQL Server)

#### Adapters:

Active Directory (AD)  
 Active Directory Application Mode (ADAM)  
 Active Directory Lightweight Directory Services (AD LDS)  
 Novell [eDirectory](#)  
 Sun One Directory Server ([iPlanet](#))  
 Oracle Internet Directory (OID)  
 Tivoli Directory Server  
[OpenLDAP](#)  
 Generic LDAP V3 Server  
 Microsoft SQL Server Database  
 Oracle Database  
 Google Cloud  
 Custom sources such as: RACF, AS/400 via Extensibility



# ACTIVE DIRECTORY ONLY VS. ACTIVE DIRECTORY WITH VIS

## ACTIVE DIRECTORY ONLY

- **Active Directory is vulnerable and unsecure** to attacks such as denial of service.
- **Applications have more access than they need** with the principle of least privilege being very hard to enforce.
- **Data in Active Directory is difficult to secure** because administrators have little control over the applications accessing the data.
- **Poorly written application can crash AD** causing outages for end users.
- **Active Directory performance is susceptible** to inefficient queries that applications send.

## ACTIVE DIRECTORY WITH VIS

- **Active Directory is more secure** by being placed behind an LDAP firewall proxy server. Applications no longer access AD directly.
- **VIS provides data leakage prevention (DLP)** by only publishing the data that the applications require.
- **Active Directory is now protected and safe** because inefficient or rogue queries are either blocked or transformed in real-time into more efficient queries.
- **VIS provides a complete auditing solution** for all applications accessing AD. All activity (modifications, searches) are captured.
- **Administrators can profile applications** seeing exactly what the applications are searching and modifying in the directory.
- **All applications have built-in failover** as backend systems fail, VIS provides the failover mechanisms automatically at the server layer.
- **All applications have built-in connection pooling** to AD, which increases performance and reliability significantly.
- **Application deployment time is reduced by over 50%** by quickly providing real-time application-specific views from multiple data stores.
- **VIS removes application deployment barriers** by handling AD schema changes virtually and rapidly providing multi-forest views without any forest trusts.
- **VIS reduces the Kerberos token size limit** problem by providing application specific groups at the VIS layer.
- **Active Directory and application performance is increased** by filtering data.



# FOR MORE INFORMATION ON OUR PRODUCTS AND SERVICES

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Optimal IdM is a global provider of innovative and affordable identity access management solutions. We partner with our clients to provide comprehensive, fully customizable enterprise level solutions that meet the specific security and scalability needs of their organizations. Optimal IdM offers its solutions both on-premise and in the cloud as a 100% managed service offering. Customers include Fortune 1000 companies, as well as Federal, State and Local Government agencies all over the world.

## PRODUCTS

- Virtual Identity Server
- LDAP Proxy Firewall
- VIS for SharePoint
- Optimal Federation & Identity Services
- Optimal People Picker for SharePoint
- VIS for Office 365
- The Optimal Cloud
- Cloud Reporting
- Optimal Authentication Service

