

DirX Directory High-End Directory Server

High-performance, highly available, highly reliable, and secure LDAP / X.500 Directory Server and LDAP Proxy

The Challenge

Directory services are critical components in today's interconnected business environment. They provide the foundation for identity and access management across ever-widening organizational boundaries, and can drive competitive advantage for the enterprise.

Within an intranet environment for example, a directory service can provide a global repository for shared information about employees, organizations and resources such as applications, network devices and things (IoT). In an extranet, a directory service might maintain profile information about customers, trading partners, and suppliers. Such a service might hold data from thousands up to millions of identities.

In both environments, the directory service plays a critical role. It must manage the identities, and control access to the information and services provided. It must make sure that access is fast, always available, authenticated and authorized; and it must ensure that this service is provided for a potentially very high number of users or devices.



Our Solution

DirX Directory from Atos is a standards-compliant, high-performance, highly available, reliable and secure Lightweight Directory Access Protocol (LDAP) and X.500 directory server. It offers unlimited scalability with outstanding read and write performance combined with the latest security features to support SSL/TLS for LDAP server and strong client authentication, authorized, user access control, encrypted communication, and server-side policies for local security management.

Enterprise, carrier, and IoT ready, DirX Directory acts as the identity store for employees, customers, partners, subscribers, and other e-business entities such as devices and things known as the internet of things (IoT). Serving as a provisioning, access management, and metadirectory repository, it provides a single point of access to information available in an enterprise network or cloud environment, within disparate and heterogeneous directories.

Designed for maximized Performance and Reliability

Key Strengths

Standards and Compatibility

Implements LDAPv3 and X.500 directory standards.

Permits third-party LDAP-enabled applications to manage the directory schema via LDAP.

Runs on the most popular operating systems.

High Performance

Based on the innovative Directory Basic Access Method (DBAM) database kernel.

Optimized for directory access, allowing sub-second response times and high throughput rates for parallel queries.

Optimized for managing very large user groups and data sets including dynamic and multi-level nested groups.

Provides state-of-the-art multi-threaded process architecture.

High Availability and Reliability

Supports floating master replication for high availability configurations and failover (a software solution instead of adding hardware clusters).

Supports full and differential saving in parallel with directory update operations for backup and recovery.

Transaction processing in the database provides guaranteed recovery after crashes without data loss.

Identity Management

Manages user and subscriber profiles, digital certificates for public key infrastructures (PKIs), authorization and authentication information, and access permissions.

Manages other relevant attributes for users, subscribers, and things (IoT) that control access to information, network resources, or distributed services.

Security

Supports SSL/TLS for LDAP server and client authentication, X.500 DAP authentication, authorized user access control, encrypted communication, and server-side policies for local security management.

Permits the creation and enforcement of password policies to control how passwords are used and administered in an enterprise network.

Supports policies for password complexity, aging, reuse after expiration, and account lockout after failed logins.

LDAP Proxy

Rule-based LDAP request routing to target servers.

Rule-based LDAP request and result rewriting to support schema mapping.

Supports load balancing and failover.

Scalability

DBAM database kernel is designed to permit linear scalability in a single directory server.

DirX Directory accommodates future growth on existing hardware configurations, and can scale rapidly to store huge numbers of digital identities of users, devices or things in an intranet, extranet, cloud or IoT deployment, and can scale from workgroup to enterprise to e-business directory roles.

Administration

Offers powerful graphical and command-based scriptable tools of a distributed directory system, including monitoring and logging functions.

Powerful administration tools and excellent high performance audit capabilities for traffic analysis and accounting.

Your Benefits

- Provides cost-effective and reliable way to handle large scale directory solutions
- Excellent robustness, scalability and high availability
- Outstanding read and write performance
- 100+ million entries in one single server
- Support of very large and dynamic groups and attributes with very many values
- Comprehensive auditing and monitoring
- No downtime for administration and backup
- Standard-based access, replication and distribution (based on LDAP / X.500)
- High availability through floating master concept
- Rule-based LDAP request routing and result re-writing thru LDAP Proxy
- LDAP Proxy for load balancing and failover
- Authentication server with comprehensive password policies
- Rich security features and X.509 support
- Scriptable and graphical administration



To keep identity and profile data safe, DirX Directory acts as the secure identity store for employees, customers, partners, subscribers, and other IoT entities

For more information: www.evidian.com/dirx

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