

DirX Directory

secure identity and access management from a single point of control

Providing a firm foundation for the interconnected enterprise

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.

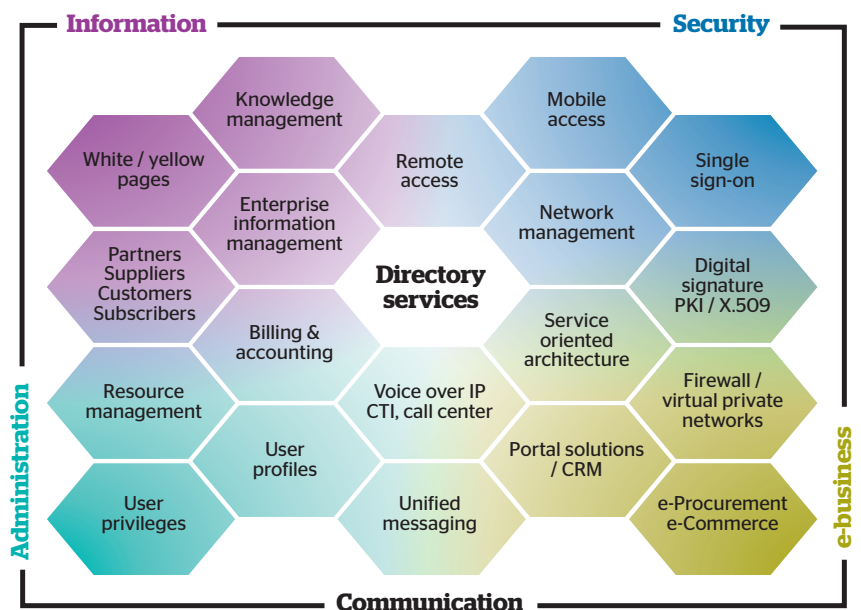
Within an intranet environment for example, a directory service can provide a global repository for shared information about employees, organizations and resources such as applications and network devices. In an extranet, a directory service might maintain profile information about customers, trading 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.

Our solution

DirX Directory 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.

Enterprise and carrier ready, DirX Directory acts as the identity store for employees, customers, trading partners, subscribers, and other e-business entities. 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 the future

Technical strengths and benefits

DirX Directory delivers:

Standards and compatibility

- ▶ Implements LDAPv3 and X.500 directory standards
- ▶ Permits third-party LDAP-enabled applications to manage the directory schema over LDAP
- ▶ Runs on the most popular operating systems and supports applications via LDAP and HTTP.

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
- ▶ 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 and subscribers 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, and reuse after expiration.

Scalability

- ▶ DBAM database kernel is designed to permit linear scalability in a single directory server
- ▶ So DirX Directory accommodates future growth on existing hardware configurations, and can scale rapidly to store huge numbers of users in an extranet or cloud deployment, and can scale from workgroup to enterprise to e-business directory roles.

Administration

- ▶ Offers powerful graphical and command-based scriptable tools for centralized administration of a distributed directory system, including monitoring and logging functions
- ▶ Easy-to-use administration tools and excellent high performance audit capabilities for traffic analysis and accounting.

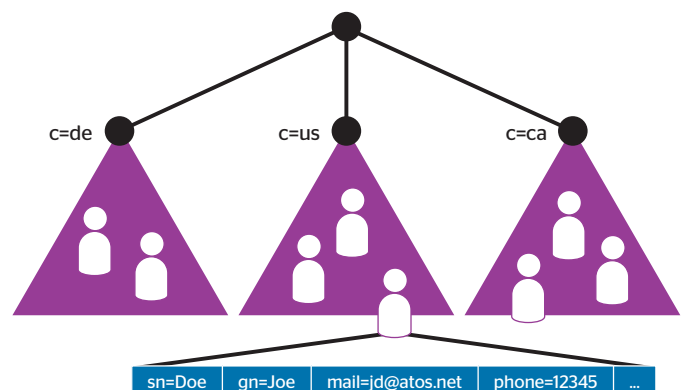
DirX Directory delivers competitive advantage

Description

- ▶ LDAP / X.500 directory server
- ▶ Standard-based replication and distribution
- ▶ High availability through floating master concept
- ▶ Authentication server with comprehensive password policies
- ▶ Rich security features and X.509 support
- ▶ HTTP-LDAP gateway for building directory-enabled web applications
- ▶ LDIF import and export
- ▶ Changelogs and event triggering
- ▶ Scriptable and Java-based graphical administration
- ▶ Auditing, monitoring and SNMP traps
- ▶ Backup and restore
- ▶ High-performance offline loader.

Competitive advantage

- ▶ Excellent robustness, scalability and high availability
- ▶ Outstanding read and write performance
- ▶ 100+ million entries in one single server
- ▶ Support of very large groups and attributes with very many values
- ▶ Comprehensive auditing and monitoring
- ▶ No downtime for administration and backup.



For more information: Please contact security@atos.net or visit www.atos.net/identity

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