

# enSure<sup>TM</sup>

## Synchronization Server

Ensure Synchronization Server provides a connector-based point-to-point replication solution for synchronizing multiple data stores on the network including LDAP servers, databases and custom data stores. The synchronization of data is achieved by using only the delta information after the initial migration of data from source to destination data store. In case where delta information is not available, the synchronization is achieved by repeated migration of data from source to destination data store. The data transformation modules allow rule-based processing of data during the synchronization process.

### Data Connectors

Ensure supports connectivity to multiple data stores that contribute to the data synchronization operations. These connectors can be plugged in and out on the fly. The extensible architecture enables synchronization between multiple existing data stores and custom non-standard data stores.

### Data Store Compliance

Data stores that provide any of the LDAP V3 or ODBC or native database client library compliant data manipulation interface can be used in Ensure leveraging the connector based architecture. Standards-based data connectors guarantee that any future data store synchronization requirements would be met.

### Incremental Delta Synchronization

The support for changelog-based delta information enables rapid and effective synchronization. The underlying data stores have to satisfy requirements for collection of delta information. The use of delta information reduces the risk of having inconsistent data across synchronized data stores over longer durations.

### Repeated Migration

For the data stores that do not support delta information Ensure achieves synchronization through repeated migration of data. It is also used for synchronizing SQL-based data views. This enables synchronization of non-standard custom data stores with other standards based data stores.

### Data Transformations

Using runtime modules customized transformations can be applied to the data being synchronized. This enables handling the inconsistencies with respect to different data storage formats during data synchronization.

### Scheduled Data Flow Configuration

Multiple data stores can be automatically synchronized at scheduled intervals using Data Flow Configurations.

### Policy-based Synchronization

Policies are used to control the effect of delete and modify operations on the data stores being synchronized. The use of policy-based synchronization provides a way to control and scope the effect of otherwise destructive operations such as deletion of entries in the participating data stores.

### Scalability and Performance

Thread pool-based architecture enables parallel multiple replications. Use of the worker threads enable load balancing of the synchronization schedules. This results into reduction in the time required for synchronizing the data stores and bringing them into consistent state.

### Status Monitoring

Extensive activity logging and status tracking interfaces help control the synchronization schedules and track failures. Complete entry-level statistics of the synchronization process enables validation of the Data Flow Configurations.

### Management and Usability

Administration Console and Remote logging facilitates the configuration management of the synchronization server. Simple command scripts can be employed to perform common administration and management tasks over the published text-based communication protocol.

## Ensure 3.x Features

### Platform Support

- ③ Solaris 8
- ③ Windows NT/2K

### Server

- ③ Free threaded
- ③ XML based change log data access
- ③ Concurrent synchronization scheduling
- ③ GUI-based Administration Console

### Configuration Repository

- ③ Single universal repository
- ③ Persistent configuration settings
- ③ Runtime load and usage of settings

### Data Connectivity

- ③ Configurable data connectors for database servers including MS SQL, Oracle, MS Access, Sybase and ODBC-aware data sources
- ③ Connectors for LDAP compliant directory servers
- ③ Connectors for Lotus Notes and Microsoft Exchange 5.5
- ③ Connector for custom data stores
- ③ Extensible architecture for plugging custom data connectors

### Data Synchronization

- ③ Incremental delta based synchronization
- ③ Repeated migration for non-standard data stores
- ③ Scheduled execution of Data Flow Configurations
- ③ Status tracking and extensive synchronization process reporting

### Deployment

- ③ Designed for scalability
- ③ Data transformations for handling inconsistent data formats
- ③ Policy based control for handling destructive operations

### High Performance

- ③ Thread pool architecture for rapid synchronization
- ③ Fast delta based synchronization

### Customizability

- ③ Published API for data connectors
- ③ Configurable query optimization for tuned data access

## System Requirements

- ③ A server machine running Solaris 8 or Windows NT/2K for Ensure Synchronization Server
- ③ 128 MB of RAM (256 MB is recommended. RAM requirements are governed by the number of Data Flow Configuration)
- ③ 50 MB of disk space (plus configuration and custom data storage)
- ③ Windows NT/Professional for the Ensure Administration Console

## Demo Scripts

Ensure package comes with automated demo scripts, which highlight the basic functionality of Ensure Synchronization Server.

## Product Evaluation

The Ensure Evaluation Program provides you with access to a fully functional free evaluation version of Ensure Synchronization Server. Please visit [www.PersistentData.com](http://www.PersistentData.com) web site to register.

## Product Support

The Ensure Synchronization Server is fully supported during the evaluation period. In order to seek prompt response and explore the capabilities of Ensure, please send an email to [support@PersistentData.com](mailto:support@PersistentData.com).

## Persistent Data Infrastructure Suite

The data infrastructure suite consists of solutions that provide a platform for satisfying evolving requirements. To learn about the offerings please send an email to [products@PersistentData.com](mailto:products@PersistentData.com).



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