



# Unisys Data Exchange 7.0

## Product Information Sheet

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### Product overview

Organizations are overwhelmed by data access demands. Customers, suppliers and employees are demanding 24/7/365 access from mobile devices. Business units need support for digital channel initiatives. Data from multiple systems must be consolidated to satisfy regulatory requirements.

Unisys Data Exchange for ClearPath® MCP and OS 2200 environments is a data integration software designed to help organizations address these issues.

Unisys Data Exchange propagates selected data from one data store to another data store. While propagating the data, Unisys Data Exchange applies transformations to the data as needed by the business processes and the applications that support them.

The data propagation and transformation capabilities of Unisys Data Exchange are designed to facilitate timely access to data for decision support and additional business processing while minimizing the impact on the online transaction processing environment.

Unisys Data Exchange can help you reduce software development costs by avoiding the development and support of your data integration and transformation tools. Unisys Data Exchange is designed to work with existing applications and databases to help you avoid costly changes.

Unisys Data Exchange is also designed to work with various data stores and operating systems.

### General features

#### Transformation definition

Unisys Data Exchange has a transformation definition facility that allows you to select data items in the source data store and determine how and where each gets placed in one or more target data stores. You can customize transformations to satisfy your business requirements by defining data manipulation functions. A source or target data store can be used in multiple transformations to meet your business requirements.

#### Bulk data transformations

You can use the bulk data transformation facility to propagate and transform historical data from a source data store to one or more target data stores.

#### Changed data transformations

A changed data transformation is a near-real-time process to propagate and transform selected changed data from a source data store to one or more target data stores.

Once you start a changed data transformation, Unisys Data Exchange provides a continuous feed of changed data from the source data store to the target data store. Other applications can use data in the target data store.

Using the Unisys Data Exchange Runtime Administration facility, you can manage operations, such as starting and stopping a changed data transformation.

## Efficient

Unisys Data Exchange is designed to be efficient. It enables you to select the data items to propagate for only the changed data. In addition, you can define filters so that only the data that satisfies specific criteria are propagated. These features help you avoid the additional overhead of propagating data not needed in the target data store. Unisys Data Exchange also offloads transformation processing to a server separate from the servers hosting the source and target data stores.

This is designed to minimize the impact of Unisys Data Exchange on database performance.

## Ease of use

Unisys Data Exchange provides tools with graphical interfaces for transformation definition and administration. Programming skills are not required to use these tools.

## Data store pairings

Unisys Data Exchange 7.0 supports the following source and target data store pairings.

Source	Target
Enterprise Database Server for ClearPath MCP	Microsoft SQL Server
Enterprise Database Server for ClearPath MCP	Oracle Database
Enterprise Database Server for ClearPath MCP	Apache Kafka
Microsoft SQL Server	Enterprise Database Server for ClearPath MCP
Relational Database Server for ClearPath OS 2200	Microsoft SQL Server
Relational Database Server for ClearPath OS 2200	Oracle Database
Relational Database Server for ClearPath OS 2200	Apache Kafka
Network Database Server for OS 2200	Apache Kafka

## Software components

### Development Workbench

The Unisys Data Exchange Development Workbench (DDW) is a Microsoft Windows-based application designed for defining transformations between a source data store and target data store(s). You also use DDW to deploy transformations to the Unisys Data Exchange Runtime Administration facility.

### Unisys Data Exchange Management Studio

The Data Exchange Management Studio (DEMS) enables you to define and manage user access to various Unisys Data Exchange components. It also allows you to turn on secure connections between the Unisys Data Exchange internal Windows components.

### Runtime Service

The Runtime Service is the heart of Unisys Data Exchange. It applies transformations to the data retrieved from a source data store and sends it to one or more target data stores.

### Runtime Administration

The Data Exchange Runtime Administration facility lets you use a standard web browser to control and monitor all runtime activities involving the Runtime Service and host components.

### Unisys Data Exchange MCP Service

The Unisys Data Exchange MCP Service runs on a ClearPath MCP server.

When an Enterprise Database Server is a source data store, the Unisys Data Exchange MCP Service monitors the audit trail associated with an Enterprise Database Server data store and is responsible for passing changed data to the Runtime Service.

When an Enterprise Database Server is a target data store, the Unisys Data Exchange MCP Service supports the Runtime Service to update Enterprise Database Server data stores.

## Unisys Data Exchange OS 2200 Service

The Unisys Data Exchange OS 2200 Service is a batch-processing component running on a ClearPath OS 2200 server.

When executing a changed data transformation, the Unisys Data Exchange OS 2200 Service monitors the audit trail associated with a Relational Database Server and Network Database Server. It passes changed data to the Runtime Service. The Unisys Data Exchange OS 2200 Service is also responsible for providing the data, in bulk, for bulk data transformations.

## Unisys Data Exchange SQL Server Service

The Unisys Data Exchange SQL Server Service supports changed and bulk data transformations when a Microsoft SQL Server database is a source data store. The Service monitors the SQL Server database's Change Data Capture tables and passes the changed data information to the Runtime Service.

## Configuration requirements

Refer to the Unisys Data Exchange Hardware and Software Specifications for ClearPath MCP or OS 2200 Users on [support.unisys.com](http://support.unisys.com) for detailed hardware and software requirements, such as specific software editions and release levels.

### Enterprise database server for ClearPath MCP Data Store

- ClearPath Forward® Libra 4300, 4500, 6300, 6400, 6500, 8300, 8400 or 8500; ClearPath Financial Services FS600 and FS800 servers; or ClearPath Software Series product
- ClearPath MCP operating environment
- Enterprise Database Server for ClearPath MCP (included in the MCP operating environment)
- ClearPath Application Integration Services, Enterprise Edition

### Relational database server for ClearPath OS 2200 data store

- ClearPath Forward Dorado 4300, 4400, 4500, 6300, 6400, 6500, 8300, 8400 or 8500 servers, or ClearPath Software Series product
- ClearPath® OS 2200 operating environment
- Relational Database Server for ClearPath OS 2200

- ClearPath Application Integration Services, Enterprise Edition
- Connectivity Services

### Network database server for ClearPath OS 2200 data store

- ClearPath Forward Dorado 4300, 4400, 4500, 6300, 6400, 6500, 8300, 8400 or 8500 servers or ClearPath Software Series product
- ClearPath OS 2200 operating environment
- Network Database Server for ClearPath OS 2200
- ClearPath Application Integration Services, Enterprise Edition

- Connectivity Services

### Microsoft SQL Server data store

- Computer with a network connection that is capable of running compatible versions of Microsoft Windows Server and Microsoft SQL Server
- Microsoft Windows Server
- Microsoft SQL Server

### Oracle Database data store

- Computer with a network connection that is capable of running compatible versions of Microsoft Windows Server or Linux and Oracle Database
- Microsoft Windows Server or Linux
- Oracle Database

### Apache Kafka messaging platform

- Computer with a network connection that is capable of running compatible versions of Linux and Apache Kafka
- Linux

### Development Workbench, DEMS, Runtime Service, Runtime Administration and DE Agent for SQL server

- Computer with a network connection that is capable of running compatible versions of Microsoft Windows and Microsoft SQL Server
- Microsoft Windows
- Microsoft SQL Server



## Product information

- Unisys Data Exchange Installation and Configuration Guide For ClearPath MCP Users (8232 0607-000)
- Unisys Data Exchange Installation and Configuration Guide For ClearPath OS 2200 Users (8232 0615-000)
- Unisys Data Exchange Hardware and Software Specification For ClearPath MCP Users (8232 0656-000)
- Unisys Data Exchange Hardware and Software Specification For ClearPath OS 2200 Users (8232 0664-000)
- Unisys Data Exchange Development Workbench Help (8232 0631-000)
- Unisys Data Exchange Runtime Components Administration and Operations Help (8232 0649-000)
- Unisys Data Exchange Online Information Center (8232 1399-000)
- Unisys Data Exchange Management Studio Help (8232 0623-000)
- Unisys Data Exchange Performance Report (8232 1357-000)
- Unisys Data Exchange Performance Counters (8232 1373-000)
- Unisys Data Exchange Performance Guidelines (8232 1381-000)

For more information on Unisys Data Exchange, visit [www.unisys.com/clearpath](http://www.unisys.com/clearpath).



[unisys.com](http://unisys.com)

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