



The Standards Based Integration Company

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## CIM Based Virtual Data Warehouse for Oracle®

### SISCO's Virtual Data Warehouse (VDW) Reduces the Time and Cost to Develop IEC Common Information Model (CIM) Based Data Warehouse

#### Description

SISCO's VDW allows information stored in existing legacy databases to appear as CIM data and to be integrated with other utility information assets using the CIM as a common data model for information integration. The VDW provides the capability to map diverse legacy data into the CIM and provides client access to the data using a standard ODBC interface. The VDW provides a **single version** of the data contained in legacy systems to enable utilities to create an open analysis platform for maximum flexibility.

The VDW leverages important industry standards to provide a unique and powerful solution for operational data analysis:

- ❑ Enables a unified schema for all utility information assets based on the CIM.
- ❑ Drag and drop configuration of legacy database schema to the CIM schema
- ❑ Connectors to major database products such as Oracle and ODBC based client applications
- ❑ Support for CIM XML import
- ❑ Can be integrated with other CIM sources using SISCO UIB products.

The result is a powerful standards-based data analysis tool tailored for utilities that allows data that is locked in proprietary data bases to be shared enterprise wide.



#### Benefits

- ❑ Leverages existing data sources without requiring modification of legacy data bases.
- ❑ Organizes isolated departmental data bases into a common CIM based view to unlock legacy data enabling enterprise wide usage and analysis.
- ❑ Accessing data within the context of a standardized CIM model exposes power system context making applications easier to develop and manage.
- ❑ Support for Common Information Model (CIM) and Generic Interface Definition (GID) standards of IEC eliminates dependency on proprietary schemas and interfaces reducing complexity and cost of integration.

## Why Use CIM Based VDW?

Today's utility faces the need to expose more information to more users. Often these users have new and different requirements. As utilities adapt and develop in response to new business conditions, they need to effectively integrate their existing information assets. Because utility databases traditionally have been created to meet only very specific needs, repurposing these existing information assets is often not an easy task. The result is a set of databases with overlapping data that models the same information differently. Yet, the cost of development usually dictates that a utility must make maximum reuse of these existing systems. SISCO's VDW can significantly reduce the cost to integrate and leverage these disparate data sources in the larger operational environment by exposing that legacy data using a standard common data exchange model based on the CIM.

## Features

- ❑ Integrated CIM data exposed using ODBC
- ❑ Enables SQL queries against multiple integrated databases using a CIM schema
- ❑ Selective data caching of CIM data as well as pre-programmed queries for improved performance
- ❑ Can leverage existing EAI and SOA middleware products such as IBM WebSphere® using SISCO's UIB to provide maximum performance and flexibility for integration with other enterprise applications.
- ❑ Explorer style graphical user interface for the definition and browsing of exposed configuration data.

## About SISCO

SISCO, Inc., founded in 1983, has established itself as a leader in standards based integration and communication for utilities. Today our capabilities are used in a wide variety of industries from electrical and gas power transmission, distribution and generation to automation and manufacturing. We work with both end users and OEMs serving those end users. SISCO's ability to partner with other OEMs and integrators allows us to deliver more capabilities at a lower cost resulting in better solutions for the user. SISCO has demonstrated leadership and capabilities to provide solutions in the following areas:



- ❑ Utility Integration Bus (UIB) a CIM enabled message bus based integration technology based upon advanced publish/subscribe and object oriented technology for enterprise integration of heterogeneous applications
- ❑ Real-time communications and networking based upon open, public, and international standards such as:
  - ▶ Inter-control Center Communications Protocol (ICCP) per IEC60870-6 TASE.2
  - ▶ IEC 61850 Object Oriented – Model Driven Substation Automation

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