Viscovery® One(2)One Engine 7 – Data Sheet

Viscovery | One(2)One Engine

Online and real-time integration of Viscovery models in operational systems

Main Functions and Features

General characteristics

- The use of the Viscovery One(2)One Engine allows a client application to recall predictive information from Viscovery models record-by-record.
- All information in Viscovery models, such as class memberships, score values, and cluster and node information, are available to the application in real-time.
- Typical applications reach performances of 100,000 decisions per second (scaling with the hardware).
- The One(2)One Engine is integrated entirely in the client application and provides no user interface.
- The engine is realized as a function library for straightforward deployment of applications.
- Lean APIs allow quick and easy integration of functions in the application.

Supported platforms and APIs

- C/C++ on Windows 7 or later
- COM on Windows 7 or later (32 bit, 64 bit)
- C/C++ on Linux (Intel 32 bit, 64 bit; requires libstdc++ runtime version 4.8)

Primary API functions (C/C++)

- O2O_OpenModelFromFile, O2O_OpenModelFromMemory, O2O_CloseModel
- O2O_GetModelProperties, O2O_GetPredictionValueName
- O2O_GetAttributeNames, O2O_GetAttributeCount, O2O_GetAttributeProperties, O2O_GetModelValuesProperties, O2O_GetModelDimension
- O2O_RecallClusterName, O2O_RecallPredictionValue, O2O_RecallCoordinates, O2O_GetSegmentationID
- O2O_GetModelProfile, O2O_GetClusterProfile, O2O_GetNodeProfile

Predictive model formats

- *.som files are Viscovery SOMine files, containing the SOM model and predictive model definitions.
- *.vxm files are linear regression models as PMML code with Viscovery extensions.
- Viscovery model files contain the entire settings for variable preprocessing (but not definitions of new variables).
- Older Viscovery model file formats (versions 4, 5, and 6 of Viscovery Profiler and Viscovery Predictor) can be imported by Viscovery One(2)One Engine 7.

License options

- Term options include annual term-licenses, which cover minor updates for one year, or perpetual licenses.
- User-base options include single-instance licenses or network licenses for a defined maximum of concurrent instances.
- Single-instance licenses are bound to the user account on a single computer and may be transferred to a different computer system once per year.
- Network licenses allow installation of the software on an arbitrary number of computers and up to the defined maximum of instances to be run concurrently.
- Network installations enable load balancing and fail-safe operation of the entire system.
- Each opened model constitutes a running instance of the software until the model is closed.

Viscovery® One(2)One Engine 7 – Data Sheet

Software installation and configuration

- All information regarding license type and validity is coded in unique license keys.
- Software installation and license activation require administrator privileges and Internet connectivity.
- Network licenses require the additional installation of the Viscovery License Server.
- Communication timeouts between the Viscovery License Server and the Viscovery One(2)One Engine can be customized.