MetaFluent Entitlements Direct
Removing the barriers to data compliance across the enterprise

Enterprise-wide fee-liability compliance is a major issue. But there are obstacles to integrating with Open DACS.

Business Issue

Trading firms today have an increasing number of applications that need to access fee-liable data. Often those applications do not connect directly to a system that enforces permissions. This exposes the firm to increased costs—or worse, compliance violations. The first data provider to help with this problem is Thomson Reuters, which has enabled open access to the widely-deployed DACS entitlements system through the Open DACS product. Open DACS enables DACS permissioning of applications that do not connect to RMDS. However, there are several technical challenges that slow down large-scale adoption of Open DACS across the enterprise. And when it comes to data-fee liability, time is money.

MetaFluent makes it easy to integrate Open DACS into any application throughout the enterprise. Its industry-standard API, zero-config library, scalable infrastructure, and extensible design enable access control anywhere, any time.

The MetaFluent Solution

The MetaFluent Entitlements Direct is software that integrates with Open DACS and presents DACS functions to applications in ways that facilitate development and deployment throughout the enterprise.

MetaFluent provides access to Open DACS through pure Java and .Net implementations of the industry-standard JMS API (with a C/C++ implementation on the roadmap). JMS is a well-known standard that is familiar to most developers and can be easily learned from the abundant public documentation and examples. Via the simple JMS subscription paradigm, applications receive initial permission checks plus event-driven notifications of changes to entitlements.

MetaFluent enables entitlements enforcement anywhere, anytime. The MetaFluent client libraries are extremely light-weight and require no configuration. With MetaFluent, there is no need for a DACS daemon to reside with the application. Though it supports a JMS-compliant interface, MetaFluent does not require third-party middleware. The MetaFluent client library connects to a MetaFluent server that has been engineered for extremely fast response to requests from hundreds of client applications. The server leverages multi-core platforms and scales well across machines through built-in clustering that is transparent to applications. The MetaFluent server also gives administrators a real-time line of sight into applications that are consuming fee-liable data through any system.

MetaFluent exposes all of the features of Open DACS, from enforcement of login constraints, to support for both lock-based and subject-based access control, to enablement of DACS usage logging and reporting. Data-driven changes such as changes to PEs, and administrator-driven changes such DACS distributions and forced log-offs, are all immediately carried through to client applications.

The MetaFluent Entitlements Direct is extensible to additional entitlements systems and multiple authentication regimes. For example, the roadmap includes support for any LDAP-compatible ID scheme, such as Microsoft Active Directory, while continuing to support DACS user IDs.

MetaFluent Entitlements Direct makes it easy for developers to comply with data contracts and for administrators to control data usage across the enterprise. In other words, it enables *compliance without the wait*. And that's what MetaFluent is all about: turning more of your time back into money.

CONFIDENTIAL

METAFLUENT

Key features

Light-weight, standards-based API

- Pure Java library (J2SE 5.0/6.0)
- Pure .NET 2.0 client library (100% managed code)
- Implements the industry standard JMS 1.1 interface. Many developers know it already.
- Zero client-side config

Open DACS integration
- Lock- and subject-based entitlements
- Configurable usage tracking
- Dynamic DACS profile updates
- Lock updates

Push model

- Propagates event-driven changes to client applications immediately in response to:
  - Changes to locks
  - Changes to user profiles
  - Forced log-off

High performance

- Efficient client library
- Optimized binary wire protocol
- Intelligently threaded server

Server clustering

- Connection load balancing
- Resilience via redundant load-balancer
- Dynamically add servers to a cluster (no down-time)
- Clustering is transparent to client applications

Standards-based administration

- Monitor users in real time
  - Who is connected
  - What data are they accessing
- Monitor system status
- JMX-enabled for easy integration with off-the-shelf packages
- Secure browser-based interface

Roadmap

- Integration with enterprise authentication systems
- Transparent symbology mapping. Integrate with an external mapping repository (e.g., CUSIPs to RICs).
- C-language implementation for C/C++ applications

To arrange a demo, evaluate the product, or learn more information, please contact **sales@metafluent.com**.

CONFIDENTIAL

METAFLUENT