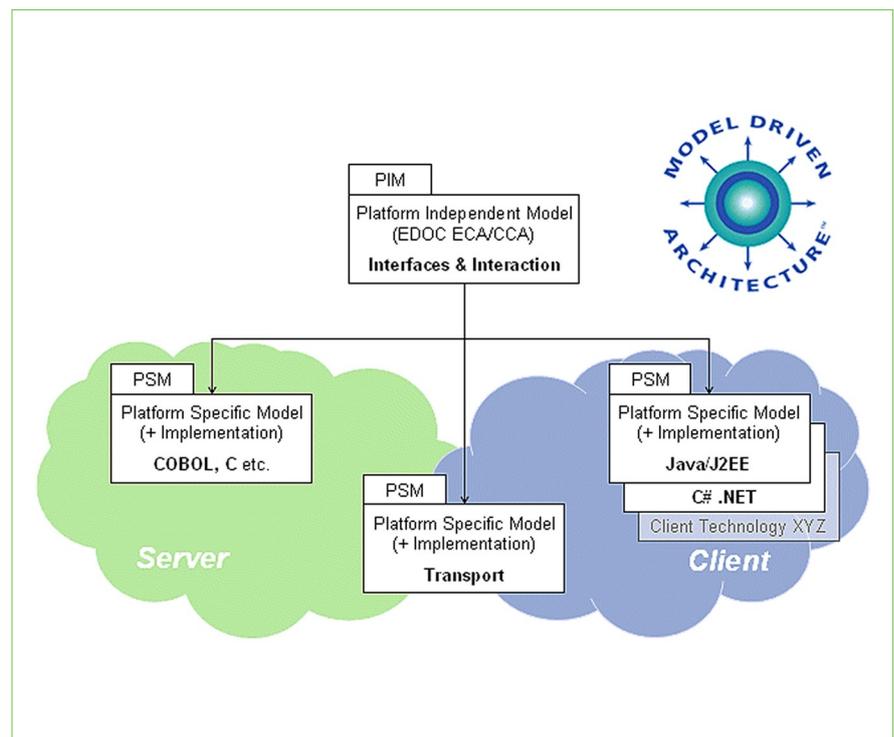


Maximize your *ROEI* ...

... Return On Existing Investment

Methodology View

This Methodology View helps you to learn about how SCORE Adaptive Bridges implements the OMG Model Driven Architecture (MDA) as applied to integration, a methodology we call Model Driven Legacy Integration.



Model Driven Legacy Integration is MDA applied to integration by SCORE Adaptive Bridges.

SCORE[®] Adaptive Bridges[™] – the latest version of Delta’s proven legacy integration technology that enables you to increase the value of your enterprise projects by reducing the cost of integrating your existing application assets.

OMG Model Driven Architecture (MDA)

MDA is a new way of writing specifications and developing applications, based on a platform-independent model (PIM).

MDA development focuses first on the functionality and behavior of a distributed application or system, undistorted by idiosyncrasies of the technology or technologies in which it will be implemented. MDA divorces implementation

details from business functions. Thus, it is not necessary to repeat the process of modeling an application or system’s functionality and behavior each time a new technology comes along.

MDA Transformation Pattern

A fundamental concept of MDA is the Transformation Pattern that is used to transform from an abstract model to the next level of detail, for example from PIM to PSM or from PSM to code.

Transformations, also referred to as mappings, are performed in an automatic manner using generators. The MDA standard does not define how these generators work, just the basic principles of automated model transformation.

Model Driven Legacy Integration™

D E L T A



software
technology

OMG EDOC-ECA/CCA

When thinking of applying MDA to integration, the question arises whether Unified Modeling Language (UML) is sufficient, or whether we need a totally new metamodel for integration?

Fortunately neither is the case as OMG has an appropriate standard with Enterprise Distributed Object Computing (EDOC) and in particular its core elements the Enterprise Collaboration Architecture (ECA) and Component Collaboration Architecture (CCA).

The EDOC-ECA/CCA is a platform independent, recursive collaboration based modeling approach that can be used at different levels of granularity and different degrees of coupling, for both business and systems modeling. When applied to integration the standard can be used equally for Legacy Interfaces, New Services, Compositions and Choreographies.

Model Driven Legacy Integration™ (MDLI™)

Model Driven Legacy Integration is MDA applied to integration as implemented by SCORE Adaptive Bridges. As the name suggested, the focus is on the implementation of MDA as applied to the integration of legacy applications.

Today's business imperative is to multiply the value of existing applications and data stores, delivering new solutions and services to meet the diverse needs of stakeholders. Adaptive Services model the required connectivity.

MDLI is the methodology that you use to build adaptive services using SCORE Adaptive Bridges implementing the MDA concepts of PIMs, PSMs and the Transformation Pattern with its use of pattern-based generators.

The concepts of compositions and choreographies are taken from the OMG EDOC standard and its key components ECA and CCA.

Vertical and Horizontal Integration

When talking about integration it often helps to think in terms of the "direction" of integration:

- **Vertical Integration** – Building adaptive services to connect existing applications and data stores with new applications, platforms or services.
- **Horizontal Integration** – Building adaptive services to connect existing applications and data stores. Horizontal integration is the requirement traditionally supported by Enterprise Application Integration (EAI) tools.

Naturally in the real world things are never quite this well differentiated and projects tend to have a mixture of vertical and horizontal integration aspects.

Delta Software Technology

Delta Software Technology creates the world's leading family of generative software tools that maximize your return on existing investment (ROEI) in your unique and valuable application assets.

Delta's family of products help you to profit from, care for, renew and grow your existing application assets:

- **SCORE® Adaptive Bridges™** – Service-oriented integration of your application assets, non-invasive and using open standards.
- **SCOUT™** – Stop "fighting the infrastructure". Maintain your application assets in a simple and cost-effective way.
- **SCORE® Transformation Suite™** – Liberate your application assets from old implementation technologies and deployment platforms.
- **ADSplus™** – Grow your existing application assets. Add new functionality to your application assets using existing technologies and platforms.

Delta has 25 years experience in creating enterprise class application development and integration technology for more than 750 customer installations.

Delta is a privately held German company with partners throughout Europe.

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