

UPDM Toolkit

for the IBM Rational Software Development Platform (RSDP)

OMG UPDM™ is a graphical modeling language which is based on the Department of Defense Architecture Framework (DoDAF) and the Ministry of Defense Architecture Framework (MODAF), which will significantly enhance the quality, productivity, and effectiveness associated with enterprise and system of systems architecture modeling, promote architecture model reuse and maintainability, improve tool interoperability and communications between stakeholders, and reduce training impacts due to different tool implementations and semantics.

EmbeddedPlus' **UPDM Toolkit** is an add-in product that provides productivity tools and language support for UPDM to IBM Rational's modeling platform.

Key Benefits

- ◆ Supports UPDM Level 0 and Level 1 modeling
- ◆ Improves communication between stakeholders
- ◆ Enables systems and software teams to use the same tools and share models
- ◆ Model complex systems including physical systems
- ◆ Static and Dynamic validation of UPDM models
- ◆ Open standard support for model interchange and tool extensibility

Key Features

- ◆ UPDM 1.0 Support including Model Validation
- ◆ Easy upgrade of Rose Models to UPDM
- ◆ Highly Extensible/Customizable
- ◆ Third-party integrations
- ◆ Executable Models

BENEFITS OF THE EMBEDDEDPLUS UPDM TOOLKIT

- ⇒ The UPDM Toolkit plugs directly into IBM Rational's Eclipse-based modeling and development environment, allowing the sharing of model artifacts between system and software engineers, all from within a common tooling environment.
- ⇒ Provides requirements modeling capabilities and integrates with traditional requirements management tools such as Telelogic DOORS® (via EmbeddedPlus DoorKeeper) and IBM Rational RequisitePro to ensure traceability.
- ⇒ UPDM models can be statically analyzed using model validation including support for OCL. UPDM Models can also be executed via the EmbeddedPlus Simulation Toolkit.
- ⇒ The UPDM Toolkit and IBM Rational's supporting modeling platform are based on open standards including the open-source Eclipse plug-in architecture, Eclipse's UML2 reference implementation, and supporting XML model storage format. Based on Eclipse, you can easily create custom plug-ins or purchase commercial plug-ins to supplement and customize your tooling environment.
- ⇒ Leverage your investments in Rational Rose with no-cost trade up to Rational's Modeling platform. Rose models are easily imported and can be upgraded to support UPDM with a single click.

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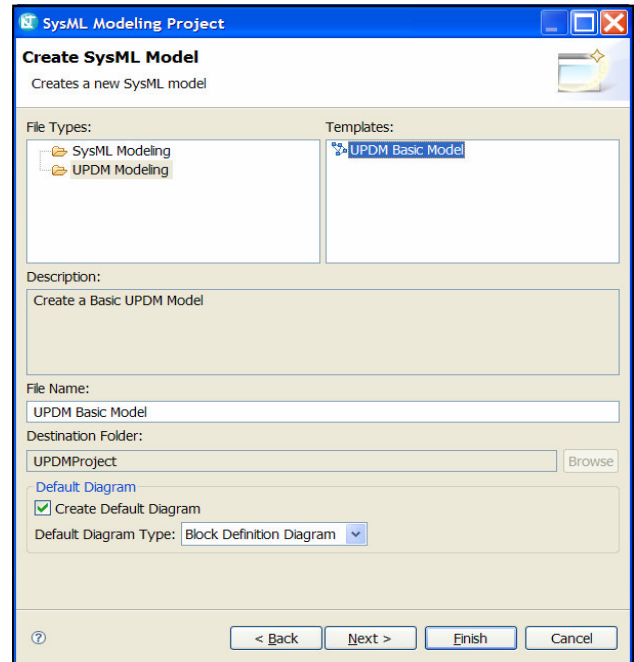
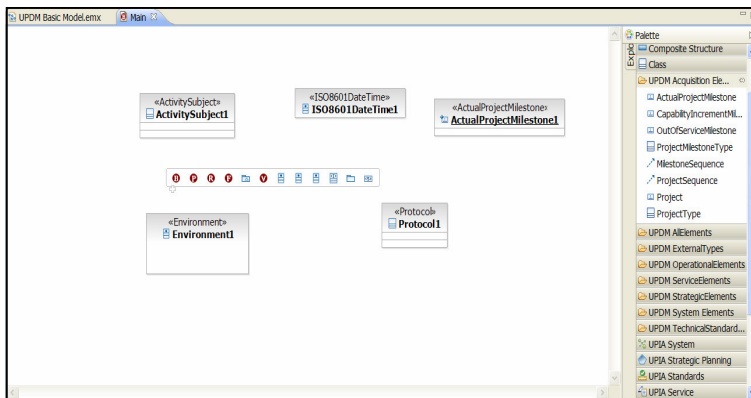
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Exceed Expectations, Not Schedules

FEATURES

- UPDM 1.0 Support
- Supports UPDM Level 0 and Level 1 modeling
- Acquisition view modeling
- All view modeling
- External Types modeling
- Operational view modeling
- Service view modeling
- Strategic view modeling
- Systems view modeling
- Technical Standard view modeling
- Reporting
- UPDM Profile Enforcement and Model Validation
- Eclipse and RSDP Integration
- "System Modeling" Perspective customized for system engineering practitioners
- Visual Modeling Assist support for UPDM constructs
- Integrated with RSDP compare/merge, web publishing, reporting, and others
- Highly Extensibility via Eclipse plug-in mechanism
- XML storage format



INTEGRATIONS

- Integrates seamlessly into RSM/RSA or RSD
- Leverages existing RSDP integrations (ClearCase, ClearQuest, CVS, RequisitePro)
- Integrates with Telelogic DOORS® (via EmbeddedPlus DoorKeeper)
- Upgrades Rational Rose UML 1.4 models to UPDM models

SYSTEM REQUIREMENTS

- Rational Software Architect/Modeler or Systems Developer (version 7.5.0 or higher)
- SysML Toolkit for RSDP (version 2.5.0 or higher)
- Microsoft™ Windows XP Professional, Microsoft™ Windows 2000 Professional, Red Hat Enterprise Linux WS 3.0

EmbeddedPlus Engineering provides products and services that transition companies to advanced technologies and techniques based on industry standards such as UML, SysML, UPDM, DO-178B and MDA. Expertise includes tool integration, modeling/simulation and Eclipse-based development and integrations. EmbeddedPlus is an official Qualified Service Provider in the Object Management Group's MDA Fast Start program.