

KnowEnterprise®/IT

Comprehensive support for the IT perspective of Model Driven Enterprise Engineering™

Overview



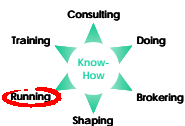
KnowEnterprise®/IT is a component of the KnowEnterprise® tool suite that provides comprehensive support for Model Driven Enterprise Engineering based on the Business Rules Approach (BRA). It gives the user the ability to capture and manage enterprise-wide information ranging from the business strategy to the IT architecture. KnowEnterprise®/IT supports the IT audience in modelling enterprise applications and organizes IT information about such enterprise applications into four fully integrated views:

IT Design – IT Support Model:

- **Requirements View:** Defines IT requirements, projects and releases
- **xUML View:** Defines implementation-independent executable specifications

IT Implementation – Technology Model:

- **Architecture View:** Defines target architectures as well as model transformations
- **Transformation View:** Defines model transformations



This holistic approach supports the whole lifecycle of IT systems from their initial identification from business needs down to their maintenance. In combination with KnowEnterprise®/Business any IT artefact may be traced all the way back to its business motivation. KnowEnterprise®/IT is based on the OMG specifications "Unified Modeling Language (UML®)", "executable UML (xUML)", "Systems Modeling Language (SysML)", and "Model Driven Architecture (MDA®)".

Tag Definition Name	Tag Value
is abstract	FALSE
owner	Mini EU-Rent
status	discovered
used by actors	sales clerk
derived by	(unknown)

Functionality

Requirements View	<p>Elaboration and documentation of IT requirements.</p> <ul style="list-style-type: none"> • Definition of functional, non-functional, and project requirements • Packaging of requirements into projects and releases • Storage of arbitrary textual and graphical documents requirements documents 												
xUML View	<p>Precise representation of functional requirements as executable specifications.</p> <ul style="list-style-type: none"> • Executable use cases and sequence diagrams with basic user interface generation • Executable business object models with full support for complex state diagrams • Support for UML 2 Action Semantics and OCL 2 and beyond • Support for complex derived attributes, ECA rules, production rules, and rule sets • Simulation time to model time-dependent behaviour • Support for simple, complex and nested transactions for logical integrity handling • Support for model-level debugging and automated regression tests on executable specifications 												
Architecture View	<p>Definition of the technical target architecture as well as model transformations.</p> <ul style="list-style-type: none"> • Documentation of the technical target architecture on type and instance level • Modelling of nodes (servers, workstations, PDAs), network devices and networks • Modelling of execution platforms such as operating systems, application servers, database and workflow management systems, as well as rule engines • Modelling of application types, applications, database schemas and DB instances • Definition of design patterns and model transformation rules in UML® and xUML 												
Transformation View	<p>Documentation of model transformations to automate routine work.</p> <ul style="list-style-type: none"> • Configuration of model transformations based on MDA® • Configuration of import/export transformations to integrate runtime systems • Composition of model transformations to transformation processes • Definition of dashboards to run transformations • Automatic execution of model transformations and transformation processes 												
General	<p>All views are based on a shared repository with the following characteristics:</p> <ul style="list-style-type: none"> • Comprehensive, metamodel-based integration of all views and optionally with KnowEnterprise®/Business • Hierarchical organization of model information • Multi-server/multi client architecture for distributed work • Multi-user support with access authorization and locking • Model and model-element versioning, sharing, splitting, differencing and merging • Fine-grained automatic change logging • Interactive usage and summary reports as well as dependency analysis • Automatic document generation for Microsoft Word and HTML documents • XMI® and Rational Rose® import/export 												
Requirements	ARTISAN Studio® V6.1 or higher												
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