

## KnowEnterprise®/IT

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

### Overview



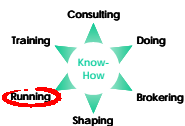
KnowEnterprise®/IT is a component of the KnowEnterprise® tool suite that provides comprehensive support for Model Driven Enterprise Engineering based on the Business Rules Approach (BRA). It gives the user the ability to capture and manage enterprise-wide information ranging from the business strategy 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

<b>Requirements View</b>	<p>Elaboration and documentation of IT requirements.</p> <ul style="list-style-type: none"> <li>• Definition of functional, non-functional, and project requirements</li> <li>• Packaging of requirements into projects and releases</li> <li>• Storage of arbitrary textual and graphical documents requirements documents</li> </ul>												
<b>xUML View</b>	<p>Precise representation of functional requirements as executable specifications.</p> <ul style="list-style-type: none"> <li>• Executable use cases and sequence diagrams with basic user interface generation</li> <li>• Executable business object models with full support for complex state diagrams</li> <li>• Support for UML 2 Action Semantics and OCL 2 and beyond</li> <li>• Support for complex derived attributes, ECA rules, production rules, and rule sets</li> <li>• Simulation time to model time-dependent behaviour</li> <li>• Support for simple, complex and nested transactions for logical integrity handling</li> <li>• Support for model-level debugging and automated regression tests on executable specifications</li> </ul>												
<b>Architecture View</b>	<p>Definition of the technical target architecture as well as model transformations.</p> <ul style="list-style-type: none"> <li>• Documentation of the technical target architecture on type and instance level</li> <li>• Modelling of nodes (servers, workstations, PDAs), network devices and networks</li> <li>• Modelling of execution platforms such as operating systems, application servers, database and workflow management systems, as well as rule engines</li> <li>• Modelling of application types, applications, database schemas and DB instances</li> <li>• Definition of design patterns and model transformation rules in UML® and xUML</li> </ul>												
<b>Transformation View</b>	<p>Documentation of model transformations to automate routine work.</p> <ul style="list-style-type: none"> <li>• Configuration of model transformations based on MDA®</li> <li>• Configuration of import/export transformations to integrate runtime systems</li> <li>• Composition of model transformations to transformation processes</li> <li>• Definition of dashboards to run transformations</li> <li>• Automatic execution of model transformations and transformation processes</li> </ul>												
<b>General</b>	<p>All views are based on a shared repository with the following characteristics:</p> <ul style="list-style-type: none"> <li>• Comprehensive, metamodel-based integration of all views and optionally with KnowEnterprise®/Business</li> <li>• Hierarchical organization of model information</li> <li>• Multi-server/multi client architecture for distributed work</li> <li>• Multi-user support with access authorization and locking</li> <li>• Model and model-element versioning, sharing, splitting, differencing and merging</li> <li>• Fine-grained automatic change logging</li> <li>• Interactive usage and summary reports as well as dependency analysis</li> <li>• Automatic document generation for Microsoft Word and HTML documents</li> <li>• XMI® and Rational Rose® import/export</li> </ul>												
<b>Requirements</b>	ARTISAN Studio® V6.1 or higher												
<b>Contact</b>	<table border="0"> <tr> <td>KnowGravity Inc.</td> <td>Voice</td> <td>+41 44 43 42 000</td> </tr> <tr> <td>Hohlstrasse 534</td> <td>Fax</td> <td>+41 44 43 42 009</td> </tr> <tr> <td>8048 Zurich</td> <td>Internet</td> <td>www.knowgravity.com</td> </tr> <tr> <td>Switzerland</td> <td>E-mail</td> <td>info@knowgravity.com</td> </tr> </table>	KnowGravity Inc.	Voice	+41 44 43 42 000	Hohlstrasse 534	Fax	+41 44 43 42 009	8048 Zurich	Internet	www.knowgravity.com	Switzerland	E-mail	info@knowgravity.com
KnowGravity Inc.	Voice	+41 44 43 42 000											
Hohlstrasse 534	Fax	+41 44 43 42 009											
8048 Zurich	Internet	www.knowgravity.com											
Switzerland	E-mail	info@knowgravity.com											