Measufier

Architecture

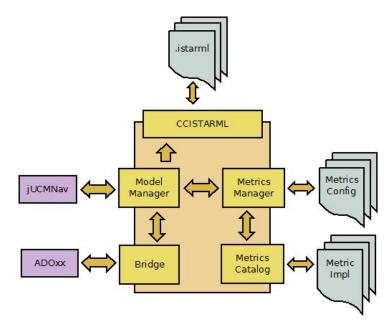| Reviews		
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1.0	11/04/2011	First Version

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Architecture

This document describes the main architectural components of <toolName> and its distribution and interaction.

Model Manager: This component is responsible for managing the *i*StarML model on which the user works. This component offers a direct Entry point for those modeling tools that support java interaction. Therefore offers the possibility to work within a session which helps in boosting the system's efficiency. It also manages the configuration files that the metric manager needs.

Metrics Manager: This component is responsible for managing the Metrics Catalog as well as the Metrics results. It uses a configuration file to load and evaluate the enabled metrics

Metrics Catalog: This component contains a basic set of Metrics. This component allows the use of external metrics.

Bridge: This component allows the communication between the Model manager and tools that do not support java interaction. This is only possible if the external tool has the ability to execute system commands and is allowed to do so. It is not possible to open sessions using this Bridge component.

Metrics configuration file: The Metrics manager needs an XML configuration file in order to load the enabled metrics and evaluate them. A metric is represented by the tag <metric> that has 3 attributes:

- Class: the name of the class that implements the metric
- Enabled: the metric will be ignored if its value is 0. Otherwise the metric will be loaded and evaluated.
- Condition: the metric may make use of this information while being evaluated.

CCISTARML Package: This package is responsible for the *i*StarML files management.