

# Assessment Model management and customization

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## Introduction

At the heart of AIP Core and the extensions that are used during an application analysis is the **Assessment Model**: a set of rules, sizing/quality measures and distributions in a hierarchy of parent Technical Criteria and Business Criteria that are used to grade an Application and to provide information about any defects (code violations) in the Application's source code. The set of rules, sizing/quality measures and distributions are predefined and preconfigured according to established best practices, however using **AIP Console**, it is possible to **modify** some aspects in order to match your own environment, for example:

- The **weight** (i.e. "importance") of a rule in its parent Technical Criterion. This value can be changed if some contributions are thought more or less important in a given context.
- The **criticality** of a rule (i.e. whether the rule is considered "critical" or not in a given context). This allows you to "threshold" the grade of the aggregated rule with the lowest grade of its "critical" contribution.
- Whether a rule is **enabled** or **disabled** in the next analysis.

Other more advanced customization can be performed using the **CAST Management Studio** on the associated AIP Node, for example:

- sizing measures
- background facts
- quality measures
- quality distributions
- quality rule parameters and thresholds
- consolidation settings (full application, average of modules etc.)

## Need for homogeneity

Modifying the Assessment Model is considered standard practice, however, these updates must be performed with care as the legitimacy of trend and comparison information greatly depends on the methodology you use for the update. If the Assessment Model is not homogeneous over time and context, assessment information cannot be compared. Even for one-shot assessments, users will tend to compare assessment results - outside of the dashboard context - from their previous experiences. Homogeneity is therefore as important in this one-shot perspective as in a multiple assessment perspective and **you should proceed with care**.

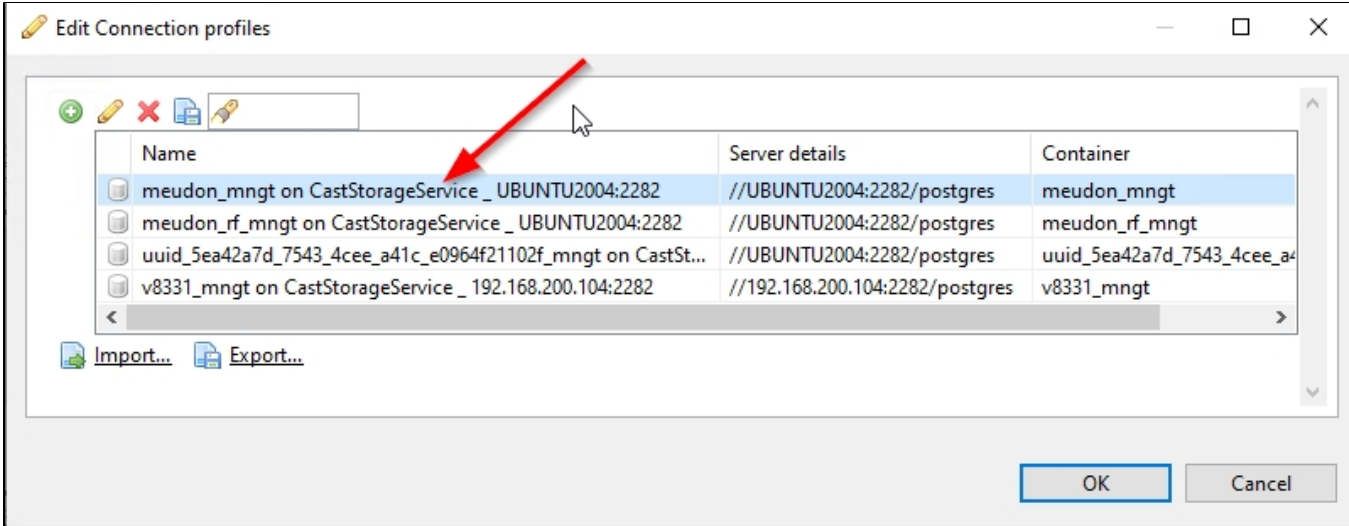
## Assessment Model management using AIP Console

To customize or manage your application's Assessment Model, use the **Application - Config - Assessment Model** screen in **AIP Console**. As mentioned previously, customization options are limited but should suffice for most requirements:

Id	Name ↓	Weight	Critical	Active
4616	'super.finalize()' should be invoked when overriding finalize() method	9	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
8060	A pointer to a base Class shall only be cast to a pointer to a derived Class by means of 'dynamic_cast'	9	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8058	A pointer to a derived Class shall only be cast implicitly to a pointer to base Class	9	<input type="checkbox"/>	<input checked="" type="checkbox"/>
620	Avoid base Classes without virtual Destructors	8	<input type="checkbox"/>	<input checked="" type="checkbox"/>
584	Avoid Classes with at least one virtual Function and without a virtual Destructor	6	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7440	Avoid having suspicious similar method names or signatures in an inheritance tree	9	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

# Assessment Model management using CAST Management Studio

Advanced Assessment Model customization and management options can be performed in the **CAST Management Studio** on the **AIP Node** that is responsible for analyzing your Application. Ensure you connect to the Application's Management schema



See the following for more information:

- [Assessment Model access using CAST Management Studio](#)
- [Assessment Model adding new indicators using CAST Management Studio](#)
- [Assessment Model parameters and exclusions using CAST Management Studio](#)
- [Assessment Model review and adaptation for specific technologies using CAST Management Studio](#)
- [Building your own Assessment Model using CAST Management Studio](#)