

Chapter 1

Code Sample

```
import iaml;

// NOTE: checks cannot have a semicolon in the exception, otherwise the
// OAW parser won't be able to parse beyond it
extension metamodel::Extensions;

// TODO add test cases for model validation
// both through Eclipse and through manual test cases (code generation)
context model::InternetApplication ERROR "No frames in internet application" :
    !(scopes.typeSelect(model::visual::Frame).isEmpty &&
        scopes.scopes.typeSelect(model::visual::Frame).isEmpty);

context model::visual::Frame ERROR "Frame must have a name" :
    name.length > 0;

context model::Operation ERROR "Operation must have a name" :
    name.length > 0;

context model::components::LoginHandler ERROR "A login handler must have an incoming parameter" :
    !inParameterEdges.isEmpty;

/**
 * A 'login' ActionEdge for an AccessControlHandler should not be in the
 * same Scope as the handler; this will cause an infinite redirection,
 * as the login page can never be accessed.
 */
context model::ActionEdge ERROR "A 'login' ActionEdge for an AccessControlHandler should not be in the same Scope as the handler" :
    !(from != null && to != null && model::components::AccessControlHandler.getInstance(from)
        && name == "login" && to.eContainer != null && from.eContainer != null
        && to.eContainer == from.eContainer);
```

```
context model::operations::DecisionNode WARNING "Unknown DecisionNode '" + name + "'" :
  name == "xpathMatch" || name == "emailAddress" || name == "is set"
    || name == "equal" || name == "true" || name == "can cast"
    || name == "empty"
|| name == "xpathMatch?" || name == "emailAddress?" || name == "is set?"
  || name == "equal?" || name == "true?" || name == "can cast?"
  || name == "empty?";
```

Bibliography