Acumen Business
Rule Manager

A Graphical Business Rules Environment

for RuleML



#### Our Mission Statement

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 To deliver a Rule Based Solution that can be maintained by business users (not programmers)

### Acumen Business Product History (1/2)

- Vocabulary Upgrader
  - BizTalk Vocabulary Management
- Policy Verificator 1.0.x
  - Rule Verification for BizTalk 2004
- Policy Verificator 1.2.x
  - Rule Dependency Graph
- Policy Verificator 1.3.x
  - Business Rule Editors [Read-only]
  - Interactive Rule Map
  - Html Rule Documentation



# Acumen Business Product History (2/2)

- Rule Manager 1.4.x
  - Support BizTalk 2006
  - Text Search
  - PDF Rule Documentation
- Rule Manager 1.5.x
  - Support Windows Workflow Foundation
  - Vocabulary Management
  - Restrictive Rule Editing
  - Rule Validation







- Create a mortgage approval system
  - Open an existing rule policy
  - Show Rule Documentation
  - Discover Rule Anomalies
  - Edit Rules & Create Rules
  - Export rules
    - to Reaction RuleML format
    - to Windows Workflow Foundation

### Rule Manager Components



**Business Rule Editors** 

**Rule Animation** 

Rule Documentation

Rule Validation

Rule Verification

Rule Repository

BizTalk

Windows Workflow Foundation

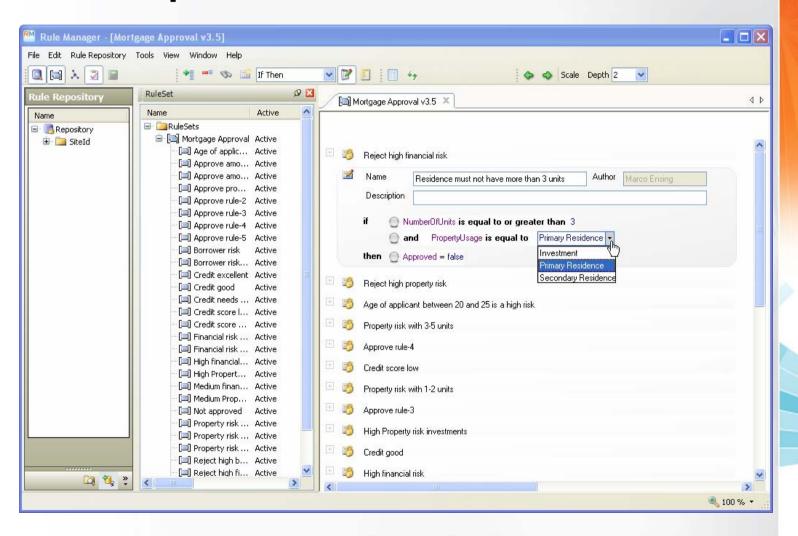
RuleML

Acumen Internal Model



### Rule Manager Graphical User Interface







- Intelligent type conversions

Business friendly term names

- Term lookup suggestions
- Operator insertion
  - '>' key inserts 'is greater than' ...
- Invalid expression mark
- Edit time user input constraints
- Restrictive editing







young female  if gender is equal to female  and age is less than 20  then age category = young				
Name Description	young male		Revert S	Save Delete
Priority	0 Active Active	Author Marco Ensing		
if gender is equal to female and age is less than 25				
then 🔾 age	typical young			

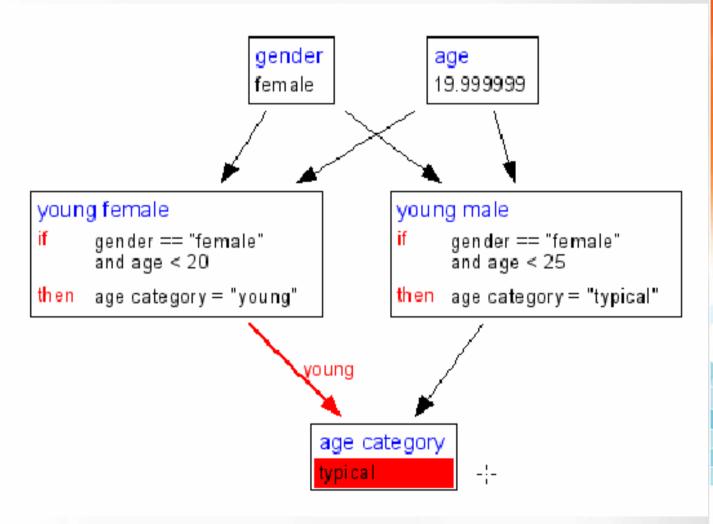


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- Detection of Self Anomalies and Rule Anomalies
  - Contradictions
  - Redundancies
  - Tautologies
  - Incompleteness
- Easily visualized in Rule Conflict Network graphs

### Rule Conflict Network





## Rule Documentation and Animation

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- PDF Documentation includes
  - Business Rules
  - Rule Index
  - Complete Rule Dependency Graph
- Interactive Rule Graph explores the rule dependency network
- Search and Filter for managing large rulesets

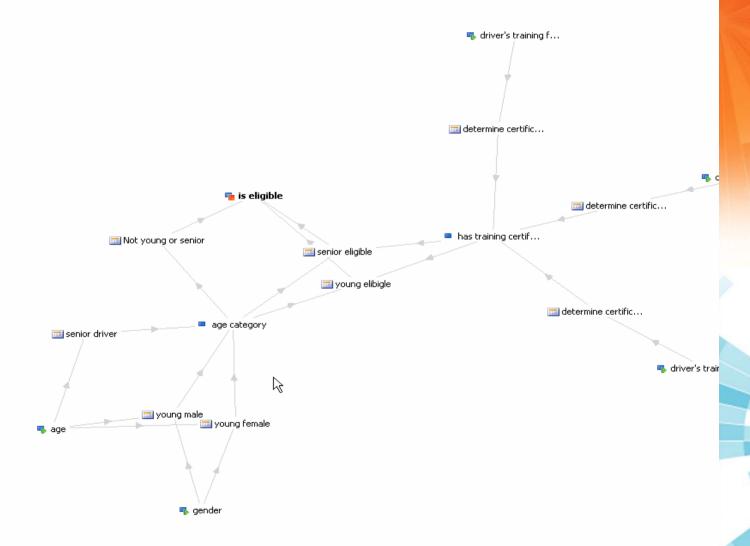


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- Rule Map (Cause-effect diagram) becomes a simulation of the actual rule execution.
- Every term can be set as a goal
- Test scenarios and expected outcomes can be saved for regression tests [next release]

## Interactive Rule Graph (Cause - Effect Graph)



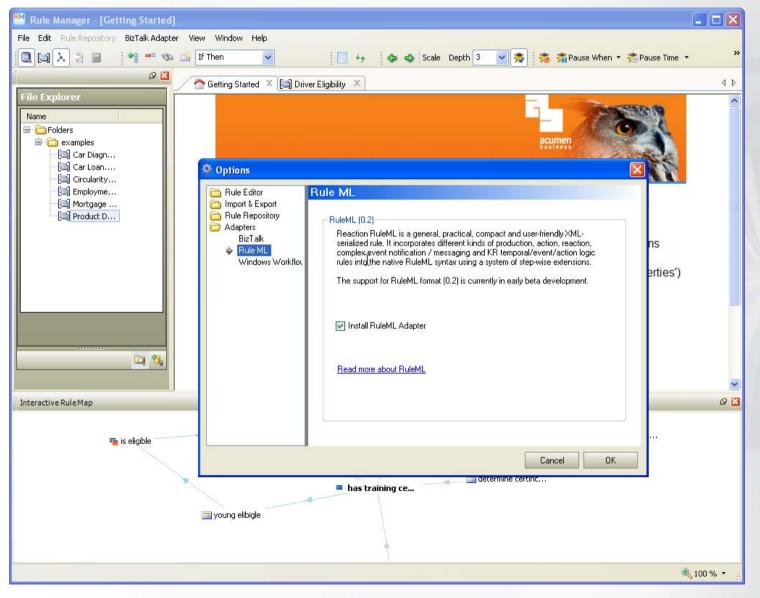




- Import and export to different formats based on adapter modules
- Export to Reaction RuleML format
- Import and Export to Windows Workflow Foundation rules

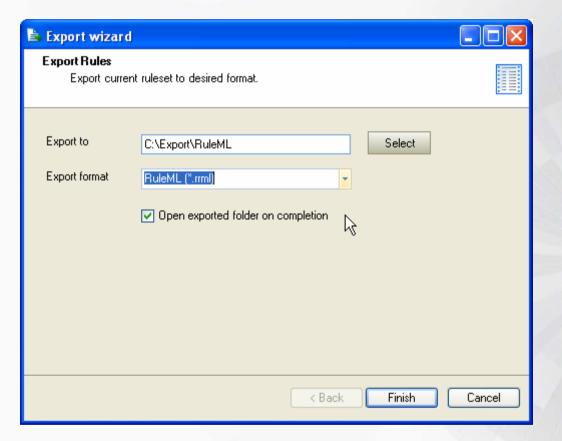


### RuleML Adapter installation



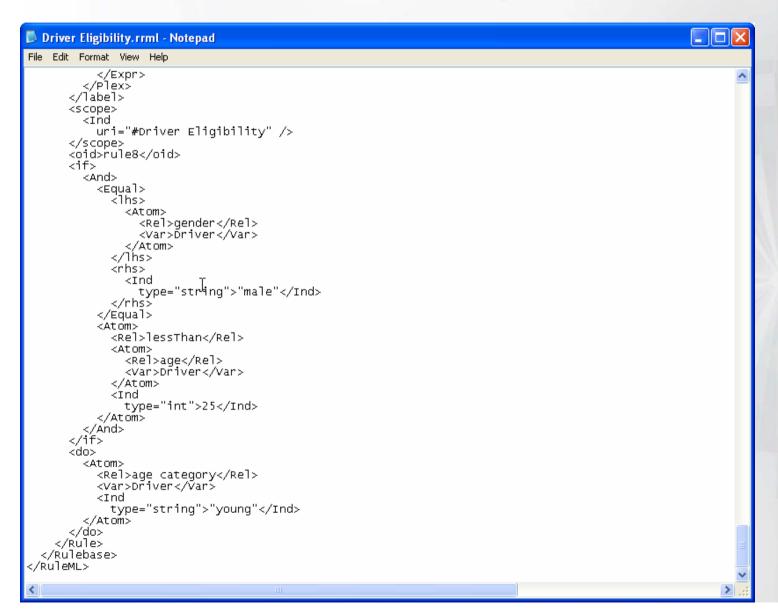


### **Export wizard**





### RuleML output







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 For more information contact us at info@acumenbusiness.com

 Or visit our website at www.acumenbusiness.com