

BridgePoint Show 'n Tell



May 2017

Updates since Sep 2016

Overview

- Releases
 - v5.8.0 (November 2016)
 - v6.0.0 (January 2017)
 - v6.2.0 (Feb 2017)
 - v6.2.2/v6.2.4 (March 2017)
 - v6.2.6 (upcoming)

- Internal Projects

BridgePoint v5.8.0 Release Highlights

- Package references, Phase 1
 - Heavily used by to rework the architecture of MC-3020 and MASL import & export tools
- Model element move
- Verifier fixes and features
- MASL support
 - Editor: Syntax highlighting, automatic reference maintenance, completion assistance
 - Convert, import, and export of MASL models
- Editor
 - CME entry fix contributed by Per
 - Disallow interface reference modifications



Package References

The screenshot displays the Eclipse IDE interface. On the left, a 'Contents' sidebar lists various guides, with 'Package References' selected and highlighted in orange. The main editor area shows the 'Package References' documentation page, which includes an 'Introduction' section and a 'User Interface' section. The 'Introduction' section explains that support for package references is being added to BridgePoint and that classes must be defined within a component to be useful throughout the entire tool chain. The 'User Interface' section is partially visible at the bottom of the page.

Search: Search Help Window File Edit Run Debug Tools Help Window File Edit Run Debug Tools Help

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- Workbench User Guide
- Java development user guide
- Platform Plug-in Developer Guide
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- Eclipse Marketplace User Guide

BridgePoint UML Suite Help > Reference

Package References

Introduction

To formalize the use of shared class models, support for package references is being added to BridgePoint.

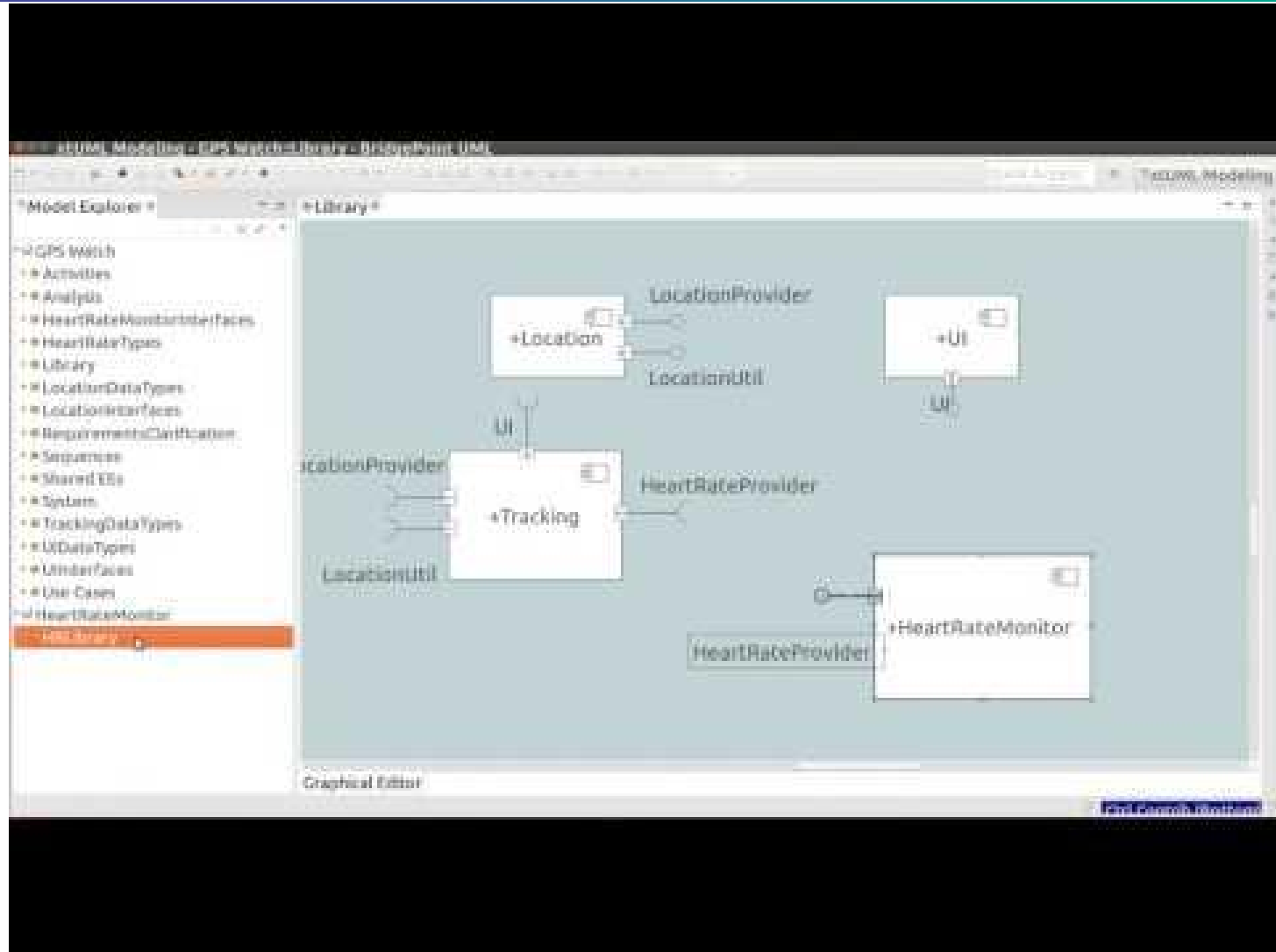
Prior to BridgePoint 5.8 classes must be defined within a component to be useful throughout the entire tool chain. However, it is possible to define classes (and functions) outside a component, and elements defined within a component will have visibility to these externally defined elements as long as they reside within the same project.

While the parser recognizes this visibility and parses tokens referring to externally defined elements, the remainder of the tool chain does not fully support such elements. Even though these capabilities have been in place for several years (as a stop toward shared classes), without the ability to include and compile models, they have not been widely used.

Package References allow the modeler to explicitly give local visibility to elements that exist inside another package.

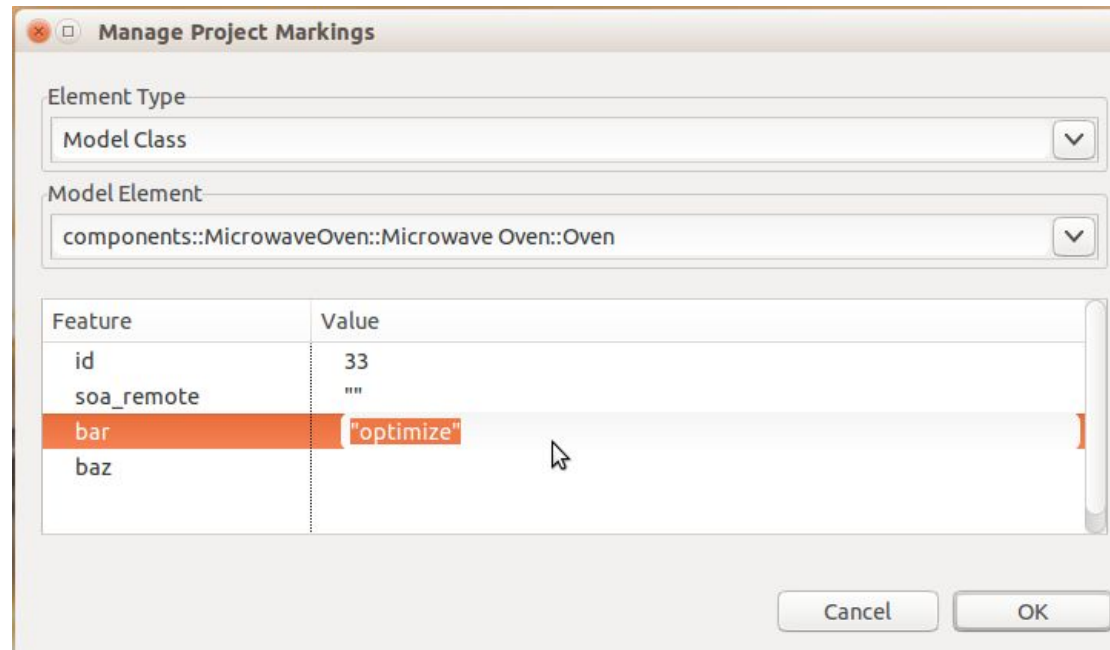
User Interface

Model Element Move

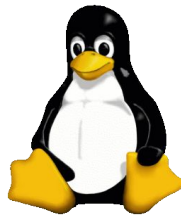


BridgePoint v6.0.0 Release Highlights

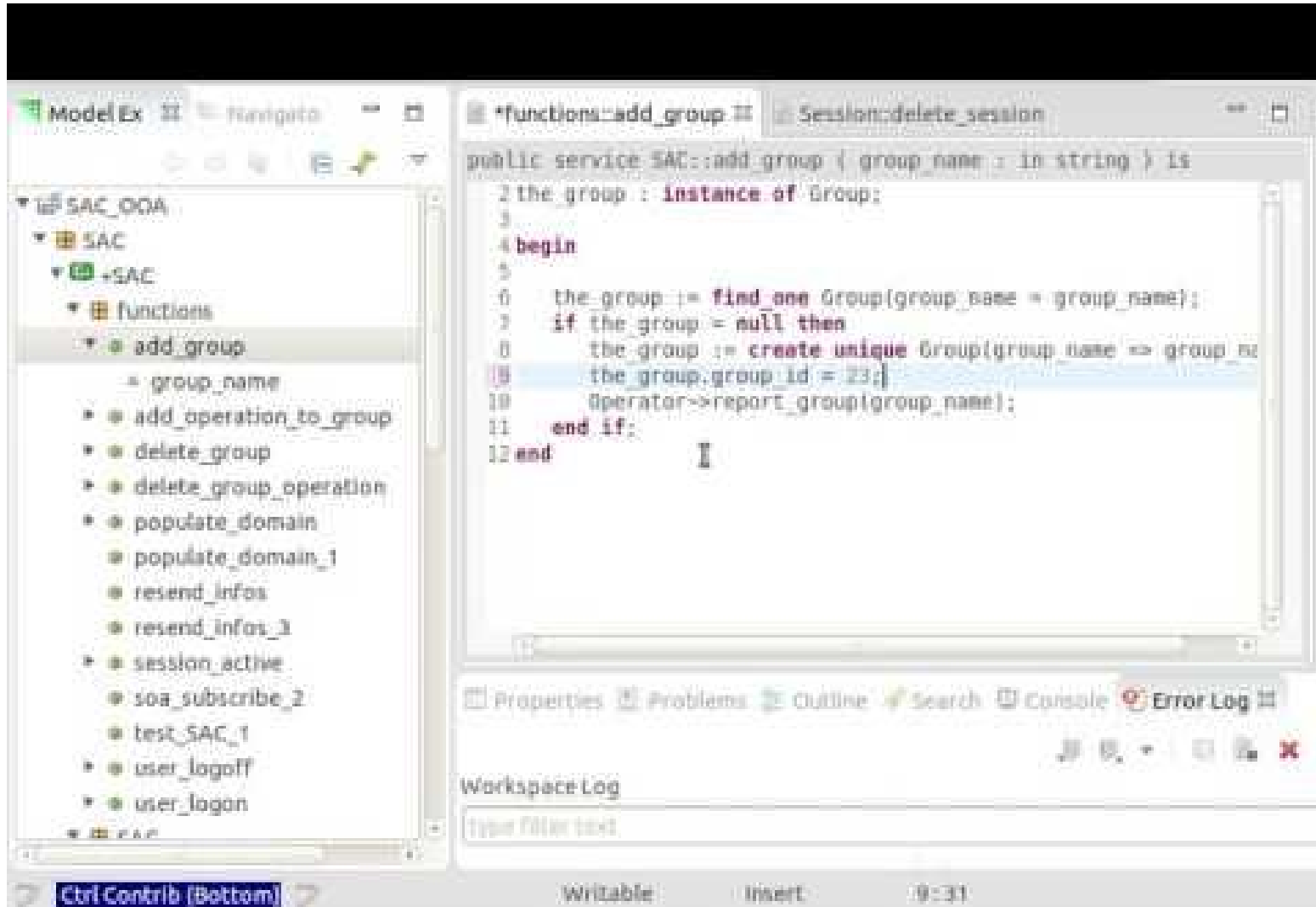
- marking editor
- MASL support
 - Improved handling of referential attributes
 - Pragma support
 - Command line export
 - Example models



- Automatic graphics creation
- Native platform builds



MASL Editor Content Assist

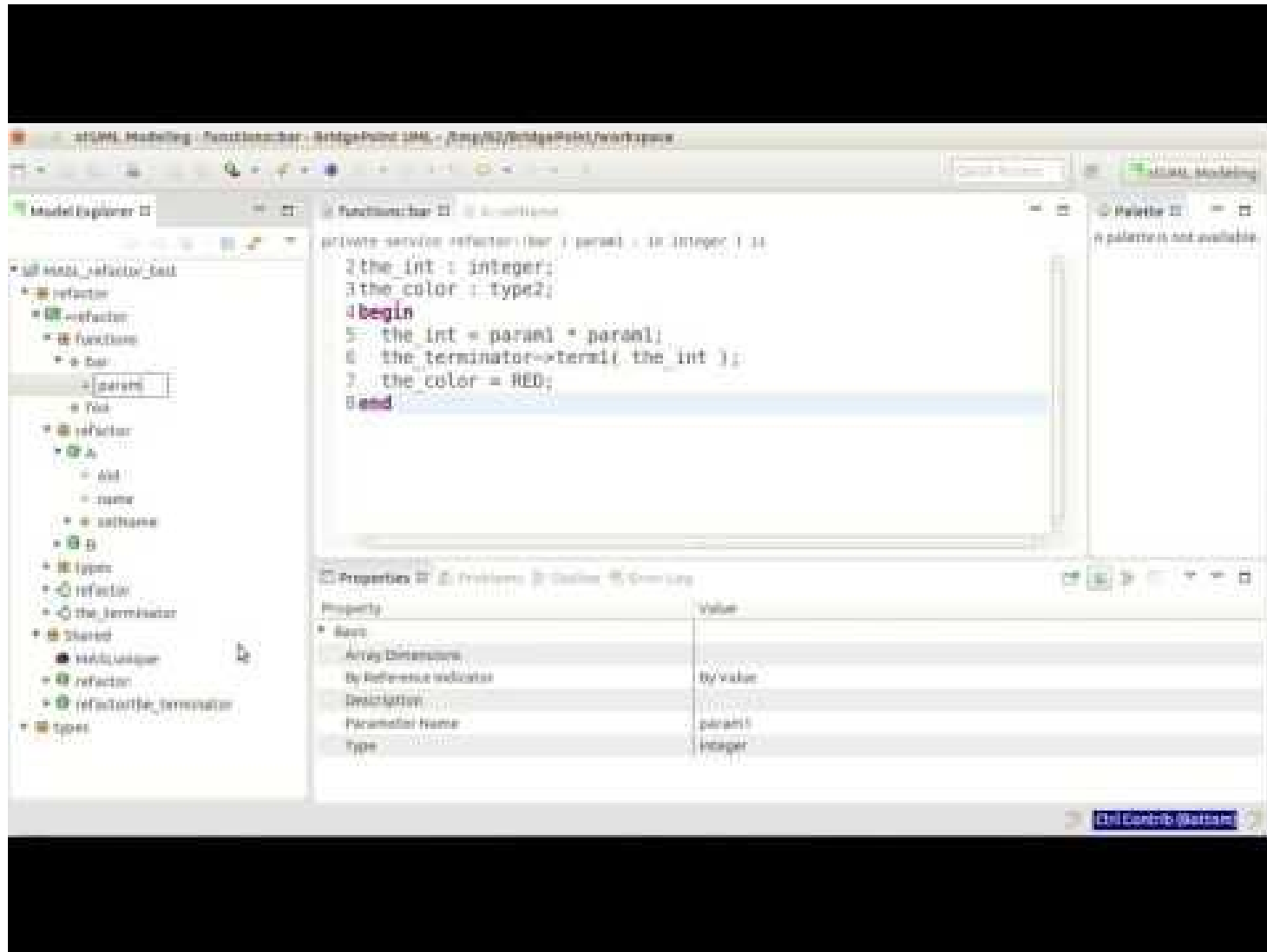


BridgePoint v6.2.0 Release Highlights

- MASL editor
 - Single activity editor with function signature
 - Rename/Refactor
 - MASL type editor
- MASL flow
 - Enhancements and new features
 - Test automation

```
functions::add_operation_to_group ⌵  
  
public service SAC::add_operation_to_group ( group_name : in string,  
                                             operations : in sequence of string ) is  
  
3 the_group : instance of Group;  
4 the_operation : instance of Operation;  
5 group_operation : instance of Group_Operation;  
6  
7 begin  
8  
9   the_group := find_one Group(group_name = group_name);  
10  if the_group = null then  
11    the_group := create unique Group(group_name => group_name);  
12    Operator~>report_group(group_name);  
13  end if;
```


MASL Rename / Refactor



BridgePoint v6.2.2/4 Release Highlights

- MASL enhancements
 - Concrete polymorphic events
 - Recursive referential attributes
 - Expanded test cases
 - More features and fixes

- Copy/Paste Improvements
 - Fixes based on user feedback

BridgePoint v6.2.6 (Upcoming) Release Highlights

- MASL parser improvements
- MASL round trip fixes
- Command Line Interface improvements
- MC-3020 update to use relate/unrelate of pyrsl
- Updated generator (with John Törnblom)

Alf Editor

workspace-testeclipse - test_alf/SumBalances.alf - Eclipse Platform

Quick Access

Proj

test_alf

- CustomerAc
- SumBalance

CustomerAccounts.alf

```
package CustomerAccounts {  
  public class Customer {  
    public name : String;  
  }  
  public class Account {  
    public balance : Integer;  
  }  
  public assoc CustomerAccount {  
    public customer : Customer;  
    public accounts : Account[*];  
  }  
}
```

SumBalances.alf

```
private import CustomerAccounts;  
activity SumBalances(in customer : Customer) : Integer {  
  totalBalance = 0;  
  for (balance in customer.accounts.balance) {  
    totalBalance += balance;  
  }  
  return totalBalance;  
}
```

Tasks Problems

0 items

Description	Resource	Path	Location

Writable Insert 8

Build Server

- Managed with Jenkins (same as Eclipse Foundation)
- Increased frequency of engineering builds
- JUnit test integration
- MASL model test integration
- Automated publishing to the web
- Server build of MC tools for all platforms
- OS-specific Eclipse configurations



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[Status](#)

[Changes](#)

[Workspace](#)

Build History [trend](#)

find x

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MultiJob Project Build-BridgePoint

Build BridgePoint and publish to S3

S	W	Job	Last Success	Last Failure	Last Duration	Console	Built On
		Build-BridgePoint	4 hr 7 min	N/A	3 hr 36 min		Jenkins
		<i>Clone repositories</i>					
		git-refresh	4 hr 7 min	N/A	5 sec		Jenkins

MacOS Support

- User & developer request
- Fully-enabled toolset
 - Editor
 - Verifier
 - Model Compiler
 - MASL tools
- Valid unit test platform



Enhanced Command Line Interface

- Now supports “Launch” mode
 - Interactive invocation of chained commands
 - Running instance associated with workspace
- Socket-based command invocation
- Dramatic speedup of execution due to workbench reuse
- “-workspacePreferences” option added for all commands to allow preferences to be set for the workspace before the command is executed

Testing

- JUnits - improvements, cleanup, build integration
- MASL usability blitz
- Tooling for user model testing
 - masl_round_trip
 - masl_check
- Profiling and Performance Analysis



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