

OPENPASS ARCHITECTURE COMMITTEE MEETING

24.04.2019



AGENDA

- 1. Default projectdirectory for Plug-Ins**
- 2. Observations/Logging – Summary requirement refinement meeting 12.04.2019**
- 3. Consolidation input data**
- 4. Release 0.6 progress overview**
- 5. Further topics**



DEFAULT PROJECT DIRECTORY

DEFAULT PROJECT DIRECTORY FOR PLUG-INS

– Current situation / Bug #1075:



OBSERVATIONS / LOGGING

REQUIREMENTS SIM@OPENPASS

12.04.2019

- See <https://wiki.eclipse.org/images/f/f0/ObservationAndLogging.pdf> and https://wiki.eclipse.org/images/e/e3/2019_04_12_Observer_Minutes_sim%40openPASS.pdf



CONSOLIDATION INPUT FILES

CONSOLIDATION INPUT FILES

RETROSPECT AC MEETING 14.12.2018

old structure

Framework
Configuration.xml

- Path and Logger Information

Run
Configuration.xml

- Experiment Configuration
- Traffic Configuration (as SpawnPointParameters)
- Vehicle Model Parameters (as Agents)
- Observation Module Parametrization (OutputFile)

Scenery
Configuration.xml

- Scenery in openDrive Format

System
Configuration.xml

- Module Connections for each Agent
- Channels
- Modules with Channel References for Inputs and Outputs

new structure

Combination
Config.xml

Scenario.xosc

Vehicle
ModelsCatalog.xosc

SceneryCon-
figuration.xodr

AppConfig.xml

old structure PCM

Run
Configuration.xml

Scenery
Configuration.xml

new structure sim@openPASS

Scenery.xodr

Scenario.xosc

XXXCatalogue.xosc

- Scenery in openDrive Format
- Scenario in openScenario Format
- E.g. VehicleModelsCatalogue.xosc

old structure BMW

Vehicle
ModelsCatalogue.xosc

Scenario.xosc

SceneryCon-
figuration.xodr

old structure PCM

Run
Configuration.xml

Scenery
Configuration.xml

new structure sim@openPASS

Experiment
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Scenario.xosc

XXXCatalogue.xosc

- Experiment Configuration

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old structure PCM

Framework
Configuration.xml

Run
Configuration.xml

Scenery
Configuration.xml

new structure sim@openPASS

Framework
Configuration.xml

Experiment
Configuration.xml

Scenery.xodr

Scenario.xosc

XXXCatalogue.xosc

- Master/Slave Configuration incl. Paths and Libraries

- Experiment Configuration

- Scenery in openDrive Format
- Scenario in openScenario Format
- E.g. VehicleModelsCatalogue.xosc

old structure BMW

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Framework
Configuration.xml

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Configuration.xml

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System
Configuration.xml

new structure sim@openPASS

Framework
Configuration.xml

e.g. Experiment
Configuration.xml

Scenery.xodr

Scenario.xosc

XXXCatalogue.xosc

System
Configuration.xml

App
Configuration.xml

- Master/Slave Configuration incl. Paths and Libraries

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- Scenery in openDrive Format
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old structure BMW

Combination
Config.xml

Vehicle
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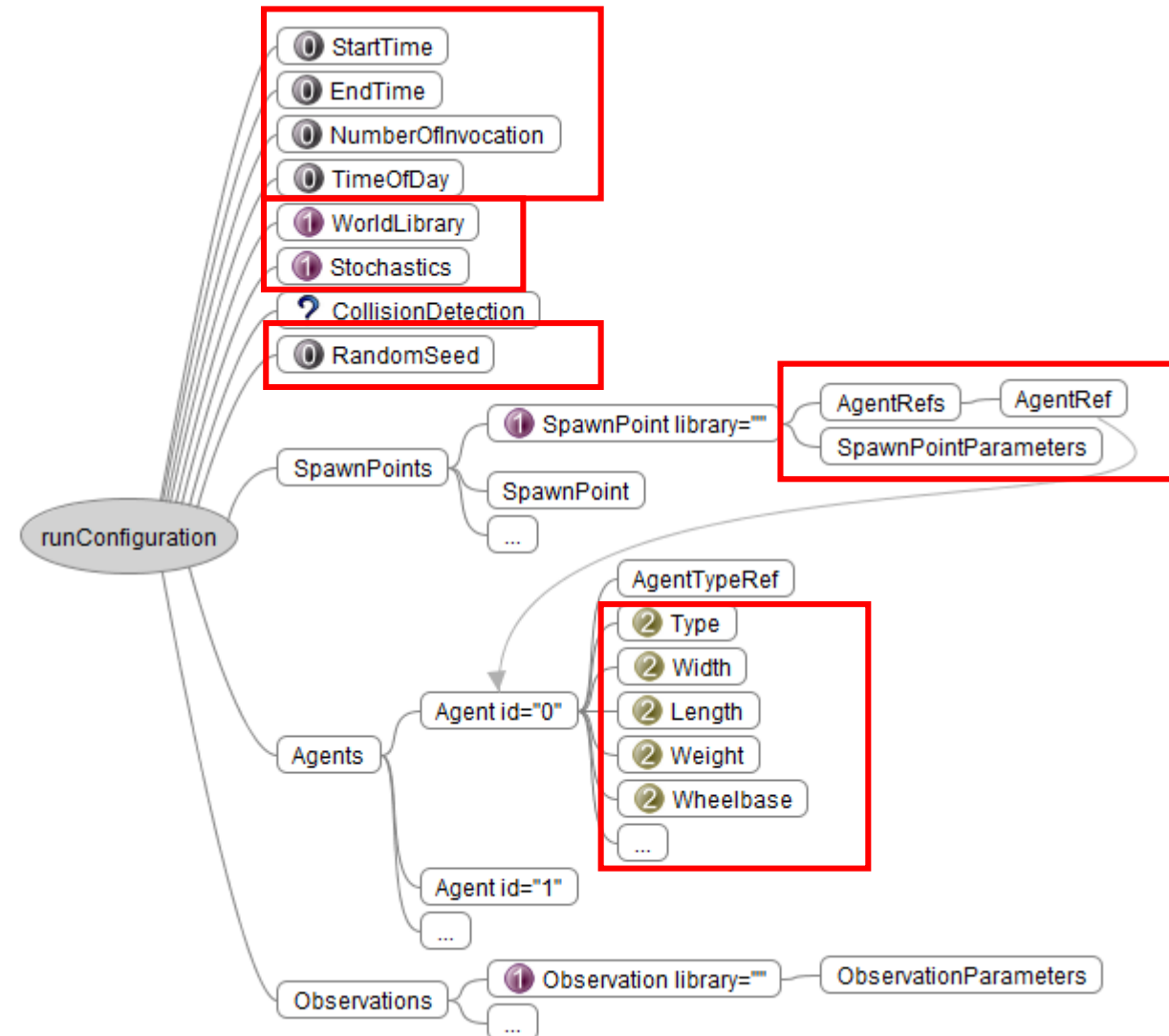
SceneryCon-
figuration.xodr

AppConfig.xml

CONSOLIDATION INPUT FILES

RUNCONFIGURATION

- Due to open Standards:
 - Relocate spawn parameters in openScenario
 - Relocate vehicle (agent) parameters to VehicleCatalogue.xosc
- Relocate Libraries to frameworkConfiguration.xml
- Experiment setup will be consolidated within one configuration file (e.g. experimentConfiguration.xml)
- Open Points:
 - CollisionDetection
 - SpawnPoint Library
 - Observation Library



CONSOLIDATION INPUT FILES

SYSTEMCONFIGURATION / APPCONFIG / COMBINATIONCONFIG

- CombinationConfig will get a ,type‘ attribute to choose between agent configuration via systemConfig (more detailed module setup) or via combinationConfig (stochastic values etc.)

```
...
<AgentProfiles>

  <!-- Example Static Type -->
  <AgentProfile Name="EgoAgent" Type="Static">
    <System Name="agent_2T-C.xml" />
    <VehicleModel Name="Golf R" />
  </AgentProfile>

  <!-- Example Dynamic Type -->
  <AgentProfile Name="LuxuryClassCarAgent" Type="Dynamic">
    <DriverProfiles>
      <DriverProfile Name="Regular" Probability="1.0"/>
    </DriverProfiles>
    <VehicleProfiles>
      <VehicleProfile Name="BMW 7 with AEB" Probability="0.8"/>
      <VehicleProfile Name="BMW 7 without AEB" Probability="0.2"/>
    </VehicleProfiles>
  </AgentProfile>

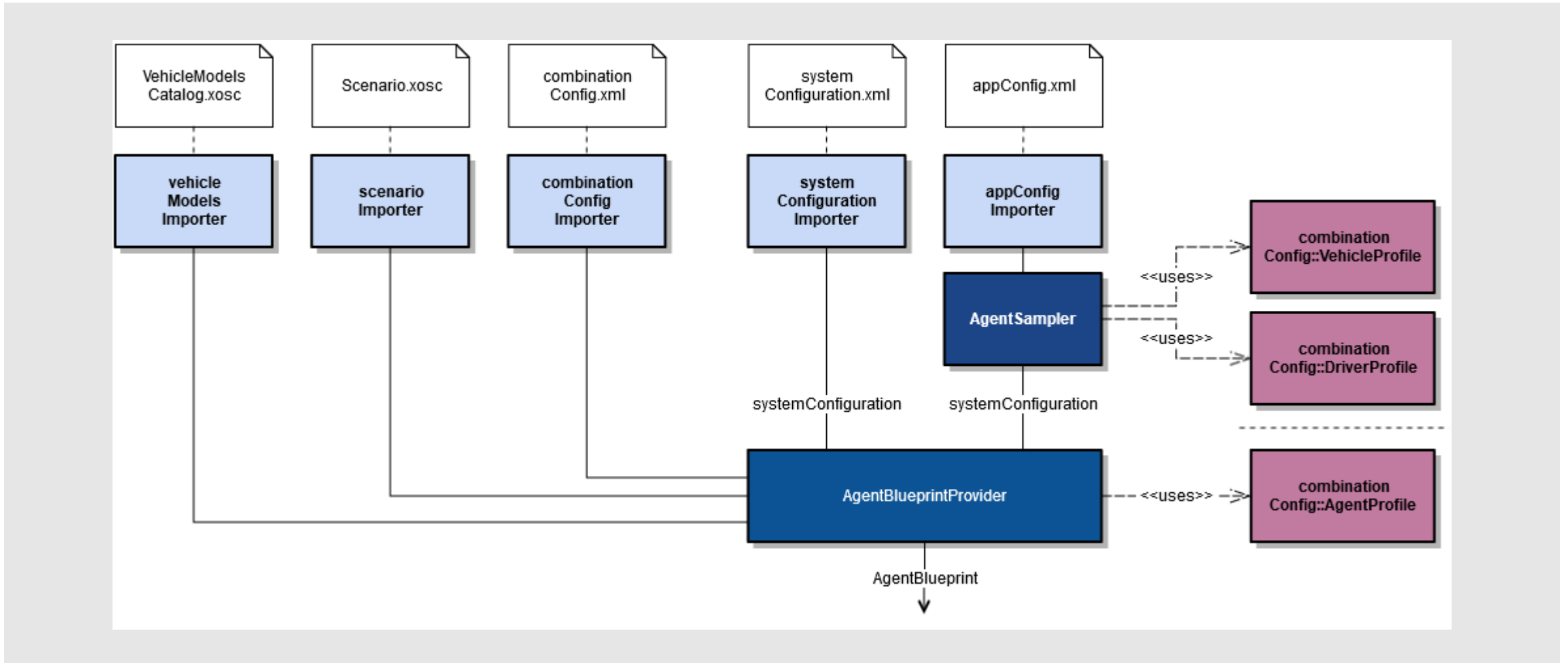
</AgentProfiles>
...
```

CONSOLIDATION INPUT FILES

SYSTEMCONFIG / APPCONFIG / COMBINATIONCONFIG

– appConfig will be redesigned to tag-based xml format (like systemConfig)

IMPORTER STRUCTURE SIMULATION CORE





GUI REQUIREMENT REFINEMENT MEETING

GUI REQUIREMENT REFINEMENT MEETINGS

03.04.2019 AND 09.04.2019

- Further communication with GUI team regarding GUI user stories
 - Profile configuration
 - Parametrization
 - Default values, max/min values etc.



RELEASE 0.6 - OVERVIEW

TULEAP RELEASE PLANNING

See Tuleap:

https://tuleap.eclipse.org/plugins/agiledashboard/?group_id=114&planning_id=25&action=show&aid=947&pane=cardwall

Additional Devtasks / bugs – **Assignee?:**

- C++ 17 Upgrade
- Qt Version 5.12.2 (5.12 LTS) Upgrade
- Reported GUI and simulation bugs
- a process is required how to handle bug reporting and fixing



FURTHER TODOS

FURTHER OPEN TOPICS

- Installer
- Coding guidelines (Tuleap DevTasks #757)
- Jenkins (Build Server)
- Scheduler - presentation what's new in Release 0.6
- Upgrade CI to c++ 17 and Qt 5.12 in Release 0.6 - what are the advantages?
- Glossary needs to be updated - input from all driver members/committers required
- Refactoring needs to be done before major openPASS release