OPENPASS
ARCHITECTURE COMMITTEE MEETING
24.04.2019

openPASS
AGENDA

1. Default project directory 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
CONSOLIDATION INPUT FILES
RETROSPECT AC MEETING 14.12.2018

old structure

Framework Configuration.xml
Run Configuration.xml
System Configuration.xml

new structure

Combination Config.xml
Vehicle ModelsCatalog.xosc
ScenarioConfiguration.xodr
AppConfig.xml

Path and Logger Information

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

- Scenery in openDrive Format

- Module Connections for each Agent
- Channels
- Modules with Channel References for Inputs and Outputs
- Scenery in openDrive Format
- Scenario in openScenario Format
- E.g. VehicleModelsCatalogue.xosc
Experiment Configuration

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

old structure PCM

- Run Configuration.xml
- Scenery Configuration.xml
- Experiment Configuration.xml
- Scenery.xodr
- XXXCatalogue.xosc

new structure sim@openPASS

old structure BMW

- Combination Config.xml
- Vehicle ModelsCatalogue.xosc
- Scenario.xosc
- SceneryConfiguration.xodr
**old structure PCM**
- Framework Configuration.xml
- Run Configuration.xml
- Scenery Configuration.xml
- 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
- Experiment Configuration
- Scenery in openDrive Format
- Scenario in openScenario Format
- E.g. VehicleModelsCatalogue.xosc
- Module Connections for each Agent
- Channels
- Modules with Channel References for Inputs and Outputs

**old structure BMW**
- Combination Config.xml
- Vehicle ModelsCatalog.xosc
- Scenario.xosc
- SceneryConfiguration.xodr
- AppConfig.xml
- 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
CombinationConfig will get a 'type' attribute to choose between agent configuration via systemConfig (more detailed module setup) or via combinationConfig (stochastic values etc.)

```xml
...<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>
...</>`
– appConfig will be redesigned to tag-based xml format (like systemConfig)
GUI REQUIREMENT REFINEMENT MEETING
Further communication with GUI team regarding GUI user stories
- Profile configuration
- Parametrization
- Default values, max/min values etc.
RELEASE 0.6 - OVERVIEW
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
- 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