Customizing Papyrus-RT for Model-Driven Development of Rover Software

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The Problem ??
Problem Statement

How to change or verify the design configurations with ease?
• Embedding a specific configuration page with the loaded library
• Providing an unique user experience when designing the Rover Model
Six Months Ago..

UML-RT Package loaded in the model

Allow for editing the design configuration (i.e., the GPIO mapping)

Platform Overview

Configuration Page
Since Then ..

• Providing a base Rover template within Papyrus-RT
• Creating component specific configuration pages
• Dynamically creating & disposing new tabs within the configuration page depending on the loaded package

And Many More !!!
Current Implementation
Current Implementation – Expert Mode

Montreal, Dec 2017
Current Implementation – Expert Mode

Montreal, Dec 2017
Current Implementation – Beginner Mode
Future Work

• Extending the concept of Configuration pages to more than run-time configurations, and to include some compile time customizations

• Detailed analysing of the Rover Case Study to define a feature models for the same
Thank You !!