Arrowhead Framework development coordination:
21-05-11 at 15.30
Meeting link:

https://ltu.webex.com/ltu/j.php?MTID=m53372c08f6c7a095410d9b4fa3ee220f

ARROWHEAD

Agenda

1) New systems, interoperability and tools

2) How do we move from a coding project to a solution ecosystem?

3) Eclipse Arrowhead v5.0 roadmap, Jerker

4) Updates on release candidates
   SysML 1.6 profile & core system models - Jerker
   WorkflowManager/WorkflowExecutor, Jaime,
   TestTool, Hans
   Sandboxing tool, Hans
   C++ of v4.2

5) Updates to prototypes
   Code generation from SysML, Saadia
   Consumer code generation, Cristina
   PlantDescription, Olov/Johan
   ExchangeNetwork, Ulf/Emanuel
   Autonomic orchestration/configuration, An
   Security mitigation tool, Silia
   Security compliance test, Ani
   Vorto, Hono and Hawkbit, Johannes

ESB, CPN, NodeRed, Felix
Translation - Semantics, Jacob
SysML2 - profile, Oystein/Geza/Jerker
C# and .net library
Safety Manager, Mirren/Daniela (on-hold)
Kura and Kapua, Paolo

6) Updates on engineering
   Engineering process, Jan/Gianvito
   Engineering tool chain, Marek/Federico
   Engineering tools, Hans/Pal

7) Updates on training
   Training, HW, SW, literature, Mattheui/Emmanuel/Mats
   Training tool, Sebastian/Marcello/Saadia

8) Next telco May 25
   Feature contributions:
   OPC-UA, Aparajita
   User authentication, Feidor

ARROWHEAD

MoM

10. Sign up for the Eclipse Arrowhead mailing list
    arrowhead-dev@eclipse.org
    at
    https://accounts.eclipse.org/mailing-list/arrowhead-dev

11. MoM at www.github.com/exclipse-arrowhead/roadmap

1) New interoperability and tools

1. **Arrowhead Framework connector for PREM compiler - CAMEA**
   (extension of clang/LLVM) and scheduler is now available (https://github.com/CTU-IIG/ah-prem-sche

2. **Shell to AH Framework - IKERLAN**

3. **EDGE MONITORING TOOL - REPLY**
   Edgex microservices are installed on the gateway with K3S and so there's the need to verify easily in every moment if all the microservices are working perfectly. For this purpose, the Edge Monitoring Tool is implemented. In order to get the health status of the microservices, Vital-IoT makes a request to the gateway with a predefined frequency of time. So a JSON message arrives on the MQTT broker on the topic "topic/service-status-req" that requires the status of the microservices. The Tool is subscribed to that topic and when the request arrives, it searches for the list of microservices available at that moment. When the Tool knows the name of the microservices, it recalls an Edgex API for every single microservices that returns the health status. Below, the health status is represented in the dashboard by a colorful circle. It's green when microservice is up, red when is down; notice that some microservices don't have a health API, so they are marked with a grey circle.

4. **RoboFuse adaptors to be able to integrate it with AHT, - ROPARDO**

   1. RoboFuse Control Panel

   2. Custom Integration

   3. Stream Process
      When all these areas are completely functional from RoboFuse will be possible to, register RoboFuse as data provider for any AHT Instance, register end point where Robofuse can ingest data from AHT Instance.

      1. Register an RoboFuse application and associated devices with AHT Authorization.

      2. Publish device data from RoboFuse to the AHT Service Registry / Orchestrator

      3. Publish RoboFuse ingest end points to the AHT Service Registry / Orchestrator

5. **BEIA IoT tool - BEIA**

   1. NodRed based tool