

Arrowhead Framework development coordination: 181002

Agenda

1) Productive workshop Bilbao
Agenda

2) Update of Arrowhead Framework wiki site,
Csaba

3) Service naming convention, Jens

4) Debian installation package, Thomas,
Csaba

5) Security analysis, Adi

6) Walk through of Core services
ServiceRegistry, v4.1 Csaba
Orchestration, v4.1 Csaba
Authorisation, v4.1 Csaba
CredentialAuthority, v4.0 Gabor
DataManager, v4.0 Jens
EventHandler, v4.1 Csaba

Translation, v4.0 Hasan
QoS, v4.1 Michele/Luis
Gatekeeper, v4.1 Csaba
Gateway, v4.1 Csaba
PlantDescription,
Configuration, Emanuel
WorkflowManager v4.0 Hasan/Csaba
SystemRegistry, DeviceRegistry, On-boarding
procedure, v4.1 Ani/Silia
SmartServiceAgreement, Ulf/Emanuel
Safety Manager, Mirren/Daniela
Self Adaptability security, Markus
Integration to legacy systems, Mario
Consumer code generation, Cristina
Autonomic orchestration/configuration, An
Modbus TCP, Nadin/Cristian
PLC integration, Jose,
Docker containers, Haris
BaSys integration, Jerker
FiWare integration, Jerker

Agenda

6) Application

Energy forecast, Thomas

Semiconductor equipment integration, Francois + Agileo

Smart parking, Haris

7) SoS integration of core systems: verification, Hans

8) AoB

MoM

In Arrowhead Framework wiki, git repository

10_Meetings/Core_system_development/181002/
AF_development_coordination.xlsx

WP1 architecture workshop

Bilbao, 27-29/11 2018

Mondragon Univeristy

Workshop objective

Specifications and implementations of ICT architecture addressing Productive4.0 requirements regarding **optimised supply chain management covering the entire product lifecycle**

Arrowhead Framework v4.0 core services, v4.2 developments

Architecture integration hands-on WS with WP2, 3, 8 and 9

Standardisation, Governance, Dissemination

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Agenda - draft v0.1

- Dag 1: Architecture developments
- Day 2: Architecture usage - use case implementations hands-on workshop
- Day 3: Dissemination, Security, Governance, Standardisation

Day 1

9.00 Core systems at v4.0 - 15min per core sys

- ServiceRegistry, Csaba (AITIA), Jens (LTU)
- Authorisation, Csaba (AITIA), Kiran/Jan (LTU)
- Orchestration, Csaba (AITIA)
- Gatekeeper, Csaba (AITIA)
- Gateway, Csaba (AITIA)
- Translation, Jaime (LTU)
- DataManager, Jens (LTU)
- EventHandler, Csaba (AITIA)
- QoS, Michele/Luis (ISEP)

11.00 Core system candidates - 15min per core sys

- WorkflowManager, Jaime (LTU)
- WorkflowExecutor, Jaime (LTU)
- SmartServiceBroker, Emanuel (LTU)
- On-boarding procedure, Silia/Ani (FHB)
- SystemRegistry, Silia/Ani (FHB)
- DeviceRegistry, Silia/Ani (FHB)

12.30 - 13.30 Lunch

- Configuration, Jamie, Emanuel (LTU)
- PlantDescription, Jaime, (LTU)

- Translation - semantics, Jacob (LTU)
- Re-orchestration, An (HIOF)
- Self Adaptability security, Markus/Ani/Silia (FHB)
- CredentialAuthority, Gabor/Csaba
- OPC-UA translation, Jerker
- FiWare translation, Jens/Jerker
- 5G integration, Ericsson?

15.30 Tools - 20 min per tool

- Docker containers, Harris
- Debian installation, Thomas
- Consumercode Generation, Cristina (LTU)
- Test tool, Fredrik (BnearIT)
- Sandboxing tool, Fredrik (BnearIT)
- Legacy Integration Tool, Mario (ifak)
- SecurityManagement, Kiran/Jan
- Modus TCP integration, TWT
- PLC integration

17.30 Closing

Evening - Joint social event

Day 2

- 9.00 Hands on workshop - Training
 - Local cloud installation, Harris and Thomas, (30 min)
 - Application producer system design and implementation, Csaba (1.5h)
 - Application consumer system design and implementation, Cristina, (1h)
 - Usage of Translation system, Jaime (30 min)
- 12.30 - 13.30 Lunch
 - Legacy system wrapper, Mario, (45 min)
 - Development tools - Fredrik/Hans BnearIT, (1h)
- 15.30 Break-out sessions - 1 or 2h
 - SafetyManager, Daniela, Mirren
 - SecurityManagement, Jan/Kiran
 - SmartServiceBroker, Emanuel and Ulf
 - WorkflowManagement
 - ?
 - ?
- 17.30 Closing of the day
- Joint Social event?
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Day 3

9.00 Governance

- Arrowhead Framework -> Eclipse project, Jerker

10.00 Architecture security report, Adi

11.00 Standardisation, Erwin/Oystein

11.30 Dissemination, Jerker

- 2019
 - Productive4.0 conference March 12-14, Budapest
 - IEEE ICPS Taiwan, SS, Tutorial
 - IEEE INDIN, SS
 - IEEE EFTA,

- IEEE IECON, SS
- Special issue: IEEE Industrial Informatics?, mdpi/

▪ 2020

- IEEE ICPS Tampere - June Final project conference
 - SS, Tutorial, Sommerschool (EIT ICT/ Manufacturing-KICK project?)

12.15 Next WP1 workshop,
Gothenburg, April 24-25, 2019
Location TBD, Sept 17-19, 2019

12.30 Closing WP1 workshop

14.30 PMT meeting