# Arrowhead Framework Coordination telco

Supported by Productive4.0, FAR-EDGE, and other projects



#### Agenda

- 1) Update from WP1 workshop in Porto
- 2) Mandatory core systemsServiceRegistryAuthorisationOrchestrationOpen issues
- 3) Core systems
  PlantDescription
  Configuration
  SystemRegistry
  DeviceRegistry
  Translation
  QoS
  Eventhandler

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### Agenda

4) New core service proposals

5) AoB







#### Porto P4.0 architecture WS

40 people joined in Porto

Thanks to Luis Ferreira and Michele Albano for the arrangements and hospitality



#### Porto P4.0 architecture WS

Requirements on the architecture, Oystein Haugen

Current status, Jerker

**Breakouts** 

Mandatory core systems, Pal and Jerker Support core services, Fredrik and Hasan

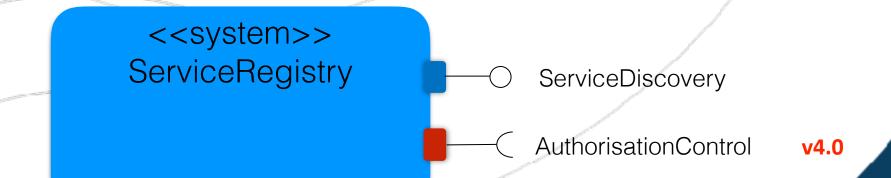
Standardisation, Pal



## ServiceRegistry v4.0 Proposal



### ServiceRegistry system v4.0





### Service registry integrity

- Functionality for testing service availability
- v4.0 Requirement for systems to re-register it's services after time intervals?
- v4.0 Procedure to testing service availability. How?
  - Functionality for de-registration of non-available services



## Supported protocols, encodings and semantics

- Semantics and encoding according to DNS and DNS-SD standards
- Protocol
  - ●v3.0
    - Direct DNS, DNS-SD interaction through BIND
    - REST, CoAP
  - **V4.0** 
    - REST + Translation or
- v4.0
- REST, MQTT, CoAP, XMPP, uPnP, ......



#### SysD doc

Draft in Arrowhead Framework wiki

Release candidate ServiceRegistry SysD 4.0 ready by next week.







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#### Consolidation of "Sos-configuration-like" tasks within Arrowhead core systems

	When	What Matchmaking:	How -Hardwired
Orchestration	-Deployment time (hard-wired) - run-time (static) -Run-time (dynamic)	Service producers and consumers & SoS	-Store-based -Local Service Discovery -Global Service Discovery
Configuration	-Deployment time (initial) -Run-time (re-configuration)	Device	-Manual -Human Supervision -Automatic
		SoS & System (?)	
Plant Description	-Deployment time (static) -Run-time (dynamic)	Feed the Orchestrator- rules "Trigger" push orchestration	- Storing and maintaining Plant Description Data

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#### Productive 4.0 WS June 2018 in Luleå

The food is in preparation

