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AoB	Exchange network/ContractProxy SafetyManager Autonomic orchestration/ configuration Security mitigation tool Security standard compliancy Translation - sermantics ModbusTCP, SysML 2 SysML models/library/profile Hono, Hawkbit, Ditto Kura & Kapua Updates on engineering tools Engineering process Engineering tool chain Engineering tools Updates on training Training planing Training HW,SW, littérature Applications Semi conductor equipment integration Zinq based accelerator of local nodes. ROS	Ulf/Emanuel Mirren/Daniela An Silia Ani Jacob Ireneus Oystein/Geza Jerker/Geza Johannes/Sven Paolo Jan/Gianvito Marek/Federico Hans/Pal Mathew/Mats Mathew/Mats Francois + Mark, Agileo Jiri	Planing for introduction of the security part. Prototype ready by next week. No updates. Working on safety scenarions Meeting with Jan to integrate the Fischer technique plant to see how semantic policy can be used to describe the workflow. Work with Jamie already opened. Review of prototype tailored for WP8 use case. Prototype working. Arrowhead adaptation. Paper accepted in Int. journal of Sensors. Meeting with An and Jan. No updates Demo i Milan meeting. Simple exporter and documentation. SysML working group Prototypes working at Bosch. No updates No updates Determining Tool demos for Milan meeting No updates No updates No updates No updates Trying to abstract the HW such that SW can be easily debugged. Connected to Xylinc open source tools chain. Work with Arcelik on data acquisition an oscoliscope.

Table 1

		Table 1	
Ecplise process	Marco/Jerker	Proposal submitted today.	
Demonstrations at ICPS in Tampere,	Peter/Ulf/Markus/	Peter C: Successful integration made last week. Integration between OPC-UA	
bemonstrations at 101 0 in rampere,	T CtCI/OII/Warkus/	PLC and Modbus PLC successful. Silia: On-boarding demo fully functional.	
		Integration with Ulf, telco next week. Similar work on-going with Hans. Ulf: Use of	
		ContractProxy together with several other systems in a production setting. Hans:	
		Good integration between legacy integration, test tool and consumer code generation. Will involve the ContractProxy system. Jiri: Integrating with Turkey	
		partners. Zinq device integrated with Arrowhead Framework.	
Arrowhead Tools demos	Mats	Request for input to the Milan meeting. Please respond to Mats regarding demo	
		description.	
Solution engineering	Emanuell/Gabor	Simplifying a programmers work using Arrowhead Framework platform. 15+15	
Solution engineering	Emanueli/Gabor	minutes for next bi-weekly.	
		minutes for next bi-weekly.	
Pologod Caro Systems			
Released Core Systems			
ServiceRegistry v4.1.3	AITIA		
- MQTT and CoAP interface	Jens/Pablo	First release checking is made waiting ofr filan updates.	
- DNS-SD	Jens		
Authorisation v4.1.3	AITIA		
Orchestration v4.1.3	AITIA		
Gatekeeper v4.1	AITIA		
·			
Gateway v4.1	AITIA		
Management Tool	AITIA		
EventHandler v4.1.3	AITIA		
Chorepgraphy system	AITIA	Final update before release, video made at the Eisenstadt meeting.	
QoS v4.1	AITIA	Final update before release	
Documentation in GitHub	Jerker/Szvetlin	Jerker to check updates from Szvetlin	
Documentation in Citi lub	OCINGI/OZVEUIII	Some to encon apartos nom ozvetim	
Updates release candidates			
DataManager	Jens/Jerker/Jonny		
		Documentation is missing	
Translator	Pablo/Jerker/Jonny	Documentation is missing	
FiWare interoperability	Pablo/Jerker/Jonny	Documentation is missing	
CertificateAuthority	Gabor/Ani/Silia	Bug fixing. Develop certificate management service in progress. Time line second	
Commonto Authority	Gason/Ani/Onia	half of April.	
W. JEL M	1.1	· · · · · · · · · · · · · · · · · · ·	
WorkFlowManager	Jaime	Integration with Fischer teknik plant. Time line for release is end of.	
ESB-CPN	Felix	Move to prototype	
SystemRegistry	Ani	No update, ready to move to release procedure.	
<u> </u>			
DeviceRegistry	Silia	No update, ready to move to release procedure.	
Onboarding	Ani/Silia	No update, ready to move to release procedure.	
PLC integration IEC 61499	Jose/Kirill	Working on demo. Paper to Tampere + video on the demo. Demo at EclipseCon.	
		Training on dome. I apply to rampore + video on the demo. Demo at EdipseColl.	
Open API formalisation	Michele		
OPC-UA	Fortis/LTU	No update	
BaSyS interoperability	Markus	No update	
		·	
Test-tool	Hans	Interface integration with the back end. Time line for demo and presentation in	
		May.	
Sandboxing tool	Hans	No update	
Python Skeletons	Jacob	Move to release with Szvetlin within early May.	
-		THOUSE TO TO TO TO TO THE TOTAL THE	
Kalix and c++ library,	Gabor and Emanuell		
Updates to prototypes			
ESB-CPN	Felix		
PlantDescription	Olov/Johan	Progressing: first version will come as local. Data to come from SysML model.	
Configuration	Javad	A white paper regarding requirement configuration, from Ghofrani to Everyone:	
Corniguration	Joavag	4:25 PM https://arxiv.org/pdf/2003.13618.pdf .	
Engineering tool for legacy adapters	Mario	Cristina to get more detailed input from mario.	
Datastructure Editor	Mario	Cristina to get more detailed input from mario.	
Device description editor	Mario	Cristina to get more detailed input from mario.	
·		Cristina to get more detailed input from mario.	
Code generator	Mario		
Consumer code generation	Cristina	Use info from demo. Code update. Debugging in progress. Reasonably robust.	
		Performance data in progress. Interaction with Gabor and his team on C++	
		library.	
Exchange network/ContractProxy	Ulf/Emanuel	No update. Time plan April 17. On-line demo 22/4.	
,			
SafetyManager	Mirren/Daniela	No update	
Autonomic orchestration/configuration	An	Meeting tomorrow regarding integration with semantic stranslation and the	
		Fishcer technic plant at LTU (Jan & Aparajita)	
Security mitigation tool	Silia	First prototype is ready. Documentation in the works. Working on generic support	
		Integration to the information building technology. Paper accepted.	
Security standard compliancy	Ani		
Translation - sermantics	Jacob	Submitted paper to INES yesterday. Early test results.	
ModbusTCP,	Ireneus	No update	
SysML 2	Oystein/Geza	Presentation by Oystein at OMG meeting last week. Very essential detail of	
GySIVIL Z	Oyaleii // GeZd	SysML2 language is stil lunder heavy discussion.	
0.11			
SysML models/library/profile	Jerker/Geza	SysML 1.6 profile and library to be releases during spring.	
Hono, Hawkbit, Ditto	Johannes/Sven	Started integration of Ditto. Adjustments of Ditto to work with Arrowhead	
		Authorisation system. All three systems working. Will be tested in an Arrowhead	
		Tools meeting.	
Kura & Kapua	Paolo	No update	
πατα α παραά	1 4010	· · · · · · · · · · · · · · · · · · ·	
Updates on engineering tools			
Engineering process	Jan/Gianvito	No update	
		· ·	
Engineering tool chain	Marek/Federico	No update	
Engineering tools	Hans/Pal	Looking for demos to the Milan meeting	
Undatas an training			
Updates on training			
Training planing	Emanuell/Mats	Telco this Thursday. Feedback on training requirements. Content for drafting the	
		coming 6 months work.	
Training HW,SW, littérature	Emanuell/Mats	Wiki for installation and execution of Arrowhead Framework. In German for today.	
Training Tivv, Svv, illerature	Linanuell/IVIalS	with for installation and execution of Arrownead Frantework. In German for today.	
		<u> </u>	
Applications			
	Eroposia - Maril A 'I		
Semi conductor equipment integration	Francois + Mark, Agileo		
Zing based accelerator of local nodes.	Jiri		
· ·	0""		
•		On ice.	
ROS	Jan	On ice.	
ROS SysML application models		On ice.	
ROS		On ice.	

Table 1-1

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Table 1	M / I I	Outpuring in a thin words
Ecplise process	Marco/Jerker	Submission this week
Demonstrations at ICPS in Tampere,	Peter/Ulf/Markus/	Work in progress, cooperation with several use cases. C-coded clients in secure mode. VPN connection might be an issue with PLC involved. SensML semantics service exchanges is working. Working on a manufacturing story.
Solution engineering	Emanuell/Gabor	
Released Core Systems		
ServiceRegistry v4.1.3	AITIA	No update
- MQTT and CoAP interface	Jens/Pablo	No update
- DNS-SD	Jens	No update
Authorisation v4.1.3	AITIA	No update
Orchestration v4.1.3	AITIA	No update
Gatekeeper v4.1	AITIA	No update
Gateway v4.1	AITIA	No update
Management Tool	AITIA	No update
EventHandler v4.1.3	AITIA	No update
QoS v4.1	AITIA	Updates on going unit and integration test ongoing.
Documentation in GitHub	Jerker/Szvetlin	No update
Documentation in Citi lub	Jerker/Szvetiiii	140 apaate
Updates release candidates		
DataManager	Jens/Jerker/Jonny	No update
Translator	Pablo/Jerker/Jonny	No update
	Pablo/Jerker/Jonny	No update No update
FiWare interoperability	Gabor/Ani/Silia	·
CertificateAuthority WorkFlowMonagor		Still waiting for final push to Svetlin Refactor from scratch
WorkFlowManager	Jaime	
ESB-CPN	Felix	No updates to be moved to prototypes
Choreography	Pal	No updates
SystemRegistry	Ani	Documentation in progress
DeviceRegistry	Silia	Documentation in progress
Onboarding	Ani/Silia	Documentation in progress
PLC integration IEC 61499	Jose/Kirill	Integration to demo. Connecting with TWT mode bus
Open API formalisation	Michele	Open API interaction with corer systems. Connect to Geza and SysML modelling.
OPC-UA	Fortis/LTU	No update. Cooperation with UzL and Infineon in progress.
BaSyS interoperability	Markus	No updates
Test-tool	Hans	No updates
Sandboxing tool	Hans	No updates
Python Skeletons	Jacob	No updates
Updates to prototypes		
PlantDescription	Olov/Johan	No updates
Configuration	Javad	No update
Engineering tool for legacy adapters	Mario	No updates
Datastructure Editor	Mario	No updates
Device description editor	Mario	No updates
Code generator	Mario	No updates
Consumer code generation	Cristina	Integration with the test tool. Mario contact with no success. Performance testing in progress.
Exchange network	Ulf/Emanuel	Focus on the Eisenstadt meeting. ForecastEngine in focus.
SafetyManager	Mirren/Daniela	No update.
Autonomic orchestration/configuration	An	No update.
Security mitigation tool	Silia	Code development + paper
· •		
Security standard compliancy	Ani	Addressing some buggs Connection to Infine on A/IE and large data sets for training purposes
Translation - sermantics	Jacob	Connection to Infineon/VIF and large data sets for training purposes
ModbusTCP,	Ireneus	Confident with Modbus TCP adapter. Try to publish this to githut.
SysML 2	Oystein/Geza	OMG meeting next week. A SysML library will be presented next week.
SysML models/library/profile	Jerker/Geza	Providing a publishable profil in progress. Soon to be released at best next week. Code generation in progress. Export of models into the Management Tools. Update on this att the
		Milan meeting. Open API will tested later.
	Johannes/Sven	No updates
Hono and Hawkbit		<u> </u>
Hono and Hawkbit Kura & Kapua	Paolo	No updates
		<u> </u>
Kura & Kapua Updates on engineering tools		<u> </u>
Kura & Kapua Updates on engineering tools Engineering process	Paolo	No updates
Kura & Kapua	Paolo Jan/Gianvito	No updates No update.
Kura & Kapua Updates on engineering tools Engineering process Engineering tool chain Engineering tools	Paolo Jan/Gianvito Marek/Federico	No updates No update. No update.
Updates on engineering tools Engineering process Engineering tool chain Engineering tools Updates on training	Paolo Jan/Gianvito Marek/Federico Hans/Pal	No updates No update. No update. Report on Arrowhead Tools D5.2
Updates on engineering tools Engineering process Engineering tool chain Engineering tools Updates on training Training planing	Paolo Jan/Gianvito Marek/Federico Hans/Pal Emanuell/Mats	No updates No update. No update. Report on Arrowhead Tools D5.2 Up and running.
Kura & Kapua Updates on engineering tools Engineering process Engineering tool chain	Paolo Jan/Gianvito Marek/Federico Hans/Pal	No updates No update. No update. Report on Arrowhead Tools D5.2
Updates on engineering tools Engineering process Engineering tool chain Engineering tools Updates on training Training planing	Paolo Jan/Gianvito Marek/Federico Hans/Pal Emanuell/Mats	No updates No update. No update. Report on Arrowhead Tools D5.2 Up and running.
Updates on engineering tools Engineering process Engineering tool chain Engineering tools Updates on training Training planing Training HW,SW, littérature	Paolo Jan/Gianvito Marek/Federico Hans/Pal Emanuell/Mats Emanuell/Mats Francois + Mark,	No updates No update. No update. Report on Arrowhead Tools D5.2 Up and running.
Updates on engineering tools Engineering process Engineering tool chain Engineering tools Updates on training Training planing Training HW,SW, littérature Applications Semi conductor equipment integration	Paolo Jan/Gianvito Marek/Federico Hans/Pal Emanuell/Mats Emanuell/Mats Francois + Mark, Agileo	No update. No update. Report on Arrowhead Tools D5.2 Up and running. On öine meetings and training with WP9, Wp8 and WP7 No update
Updates on engineering tools Engineering process Engineering tool chain Engineering tools Updates on training Training planing Training HW,SW, littérature Applications Semi conductor equipment integration Zinq based accelerator of local nodes.	Paolo Jan/Gianvito Marek/Federico Hans/Pal Emanuell/Mats Emanuell/Mats Francois + Mark, Agileo Jiri	No update. No update. No update. Report on Arrowhead Tools D5.2 Up and running. On öine meetings and training with WP9, Wp8 and WP7 No update No progress
Updates on engineering tools Engineering process Engineering tool chain Engineering tools Updates on training Training planing Training HW,SW, littérature Applications	Paolo Jan/Gianvito Marek/Federico Hans/Pal Emanuell/Mats Emanuell/Mats Francois + Mark, Agileo	No update. No update. Report on Arrowhead Tools D5.2 Up and running. On öine meetings and training with WP9, Wp8 and WP7 No update

	Table 1-1				
Table 1					
Ecplise process	Marco/Jerker	Moving with some smaller hick ups			
Demonstrations at ICPS in Tampere,	Peter/Ulf/	Weekly calls between groups.			
Released Core Systems					
ServiceRegistry v4.1.3	AITIA	No updates			
- MQTT and CoAP interface	Jens/Pablo	Presentation by Jens in 2 weeks time. Architecture for the implementation is gartered between			
		Szvetlin, Pal, Pablo, jens and Jerker			
- DNS-SD	Jens	Initial investigation being made. Implementation strategy/architecture as above.			
Authorisation v4.1.3	AITIA	No updates			
Orchestration v4.1.3	AITIA	No updates			
Gatekeeper v4.1	AITIA	No updates			
<u>·</u>	AITIA	No updates			
Gateway v4.1		'			
Management Tool	AITIA	No updates			
EventHandler v4.1.3	AITIA	No updates			
QoS v4.1	AITIA	In progress			
Documentation in GitHub	Jerker/Szvetlin	Plan to update ServiceRegistry doc as a pilot to be confirm with Arrowhead Framework			
		documentation structure.			
Updates release candidates					
DataManager	Jens/Jerker/Jonny	Releases held due to security documentation ambiguities. Plan toghather with Szvetlin to resolve			
		this.			
Translator	Pablo/Jerker/Jonny	Releases held due to security documentation ambiguities. Plan toghather with Szvetlin to resolve			
		this.			
FiWare interoperability	Pablo/Jerker/Jonny	Depends on DatanManager and Translator.			
CertificateAuthority	Gabor/Ani/Silia	Available for testing. Still no documentation.			
WorkFlowManager	Jaime	No updates			
ESB-CPN	Felix	Accepted in journal, minor revision.			
Choreography	Pal	Second version almost ready. Will be ready for Eisenstadt.			
SystemRegistry	Ani	First review from Szvetlin. Doc to be committed today			
DeviceRegistry	Silia	First review from Szvetlin. Doc to be committed today			
Onboarding	Ani/Silia	Demo scenario in the preparation. Journal paper in preparation. Waiting for CertificateAuthority.			
PLC integration IEC 61499	Jose/Kirill	Trying with legacy support. Pull request to the GitHub, Internal demo work.			
Open API formalisation	Michele	No updates			
OPC-UA	Fortis/LTU	Still pending call fro telco for the group. OPC-UA - Arrowhead integration in operation. A			
D-0.0: 1	NA - 1	wrapper solution			
BaSyS interoperability	Markus	No updates			
Test-tool	Hans	Work on-going. Work with Cristina and Mario for the demo in Tampere. Things can be tested in			
		Tampere.			
Sandboxing tool	Hans	Test with 4.1.3. A few thing are working. Will possibly not be ready for Eisenstadt.			
Python Skeletons	Jacob	Working Pyton library. Link https://github.com/ajoino/python-arrowhead . EPL 2 license.			
		Introduced to the CI/CD process. Will be completed by Szvetlin.			
Updates to prototypes					
PlantDescription	Olov/Johan	Meeting this morning. Multi vendor use case based on a factory scenario. Eisenstadt			
		presentation of architecture but no working code. Working code in June.			
Configuration	Javad	No updates			
Engineering tool for legacy adapters	Mario	No updates			
Datastructure Editor	Mario	No updates			
Device description editor	Mario	No updates			
Code generator	Mario	No updates			
Consumer code generation	Cristina	No updates			
-	Ulf/Emanuel	Work ongoing on prototype. Plan to have something in Eisenstadt. Plan for talk on a client library			
Exchange network	Oli/Emanuel	for ExchangeNetwork. Will be open to anyone interested. Possibly in EISENSTADT			
SafetyManager	Mirren/Daniela	No updates			
, ,	An	Integration of to the TWT modbus. Evaluating integration to the Peter Cramer demo.			
Autonomic orchestration/configuration					
Security mitigation tool	Silia	Prototype integrated with AVL use case.			
Security standard compliancy	Ani	Meeting with AIT integrating it to the building use case. Meeting last week in eisenstadt.			
Translation - sermantics	Jacob	Work on-going.			
ModbusTCP,	Ireneus	No updates			
SysML	Jerker/Geza	Two track project. 1) Profile SysML 1.6, 2) Profile SysML-2. https://atmospheres.research.ltu.se/			
		owncloud/index.php/apps/files/?dir=/Arrowhead_Tools/WP3%20Arrowhead%20Framework/ Task%203.1/Work/SysML_Arrowhead_profile/Profile&fileid=1577190			
11. 11.	Johann 10				
Hono and Hawkbit	Johannes/Sven	Presentation by Sven on Hono last week. Adaptor for both Hono and Hawkbit. Enabling both to be used with in an Arrowhead local cloud. Demo in Mllan			
Kura 9 Kanus	Pacia				
Kura & Kapua	Paolo	No updates			
Updates on engineering tools					
Engineering process	Jan/Gianvito	Updating the survey. Follow up in progress.			
Engineering tool chain	Marek/Federico	No updates			
Engineering tools	Hans/Pal	D5.2 finished. A lot of input from partners. Possible to follow tool development progress.			
		Presentation next meeting.			
Updates on training					
Training planing	Emanuell/Mats	Standin for Emmanuel. Mats action for an update til next meeting			
Training HW,SW, littérature	Emanuell/Mats				
Applications					
Semi conductor equipment integration	Francois + Mark,	No updates			
, ,	Agileo				
Zing based accelerator of local nodes.	Jiri	No updates			
ROS	Jan	No updates			
AoB					
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	-				
	1				

Table 1

		Table 1		
Table 1	NA / L. L	Durance an action		
Ecplise process Demonstrations at ICPS in	Marco/Jerker Peter/Ulf/	Process ongoing. LTU, SEB, Volvo, Mondragon, AITIA, BME, Peter Cramer,		
Tampere,	Peter/Oil/	DataManager, TWT, Modbus, Norway, Fortis, OPC-UA,		
,				
Released Core Systems				
ServiceRegistry v4.1.3	AITIA			
Authorisation v4.1.3	AITIA			
Orchestration v4.1.3	AITIA			
Gatekeeper v4.1	AITIA AITIA			
Gateway v4.1 Management Tool	AITIA			
EventHandler v4.1.3	AITIA	Will by mid March		
QoS v4.1	AITIA	Will by mid March, paper from Luis and Haris		
Documentation in GitHub	Jerker/Szvetlin	Work in progress in connection with SysML work		
Updates release candidates				
DataManager	Jens/Jerker/Jonny	Most issues are fixed. Still some documentation is pending.		
Translator	Jens/Jerker/Jonny Jens/Jerker/Jonny	No update No update		
FiWare interoperability CertificateAuthority	Gabor/Ani/Silia	Not pushed for release yet.		
WorkFlowManager	Jaime	No update.		
ESB-CPN	Felix	<u>'</u>		
Choreography	Pal			
SystemRegistry	Ani	Revived for release		
DeviceRegistry	Silia	Revived for release		
Onboarding	Ani/Silia	Revived for release		
PLC integration IEC 61499 Client library proposal	Jose/Kirill Szvetlin	Paper for ICPS, to be included in demo Seams to be working fine		
Open API formalisation	Szvetiin	Module developed in C code in no-secure mod.		
OPC-UA	Fortis/LTU	22.2.2.2.2.2.2.2 C COUCHING COOMIC HIGH.		
BaSyS interoperability	Markus	No update		
Test-tool	Hans	No update		
Sandboxing tool	Hans	No update		
Python Skeletons	Jacob	Working code in secure mode, ready fro release,		
Hadebar L. J. H. H.		To be along the result of the		
Updates ion installation	Szyotlin/lay	To be closed for next meeting.		
Linux installation Windows instalaltion	Szvetlin/Javad Szvetlin			
Mac installation	Szvetlin	-		
Docker + Jenkins	Haris			
Updates to prototypes				
PlantDescription	Olov/Johan	Weekly meetings every Tuesday. Will revolve around Fischer tech		
Configuration	Javad	use case. Telco on architecture last week.		
Engineering tool for legacy	Mario	No update		
adapters	lina.io			
Datastructure Editor	Mario	No update		
Device description editor	Mario	No update		
Code generator	Mario	No update		
Consumer code generation	Cristina	Meeting with BnearIT one the demo. To generate the a dummy consumer for the ExchangeNetwork to be tested in the TestTool.		
		More advance payload description and encoding.		
Exchange network	Ulf/Emanuel	No update. Working code will be around in Eisenstadt		
SafetyManager	Mirren/Daniela	No update		
Autonomic orchestration/ configuration	An	First prototype is in migration to 4.1.3 secure mode. Integration to Modbus TCP in progress.		
Security mitigation tool	Silia	Will be used in use case with AVL.		
Security standard compliancy	Ani	Journal paper in progress together with on-boarding		
Translation - sermantics	Jacob	We've done more experiments related to the results shown during		
	1	my licenciate thesis. Had a meeting yesterday with Jerker, Fredrik Sandin, and Marcus Liwicki about how to progress		
ModbusTCP,	Ireneus	No update		
SysML	Jerker/Geza	2 day WS in Budapest.		
Hono and Hawkbit	Johannes/Sven	Slide presentation.		
Kura & Kapua	Paolo			
Updates on engineering tools				
Engineering process	Jan/Gianvito	No update		
Engineering tool chain Engineering tools	Marek/Federico Hans/Pal	No update No update		
Linging tools	ו ומווס/ו מו	The appeare		
Updates on training		1		
Training planing	Emanuell/Mats	No update		
Training HW,SW, littérature	Emanuell/Mats	No update		
Applications	Fuere street	No undete		
Semi conductor equipment integration	Francois + Mark, Agileo	No update		
Smart parking application	Haris	Coming to an end. Services for parking is ready, Demo and video i		
		Tampere		
Vertical farming	Haris	Closed		
Zinq based accelerator of local nodes.	Jiri	Demo on 60 x acceleration of video processing. Working with Szvetlin to provide integration for Arrowhead service integration.		
ROS	Jan	No update		
AoB		† · ·		
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		+		

Ecplise process		Table 1	
D	Marco/Jerker	Eclipse process start this or next week.	
Demonstrations at ICPS in Tampere,	Peter/Ulf/	Larger discussion next meeting	
Released Core Systems			
ServiceRegistry v4.1			
Authorisation v4.1 Orchestration v4.1	AITIA		
Gatekeeper v4.1	AITIA		
Gateway v4.1	AITIA		
Management Tool	AITIA		
EventHandler v4.1	AITIA		
QoS v4.1	AITIA		
Updates release			
candidates DataManager	Jens/Jerker/Jonny	IN CI/CD process for release	
Translator	Jens/Jerker/Jonny	Release plan end of February	
FiWare	Jens/Jerker/Jonny	Release plan end of February	
interoperability CertificateAuthority	Gabor/Ani/Silia	No update	
WorkFlowManager	Jaime	No update	
ESB-CPN	Felix	Decision on release plan needed.	
Choreography	Pal	By end of Feb a demo will be available. Yellow duckytown demo.	
SystemRegistry	Ani	Upgrading to Java spring. Send to CI/CD process in Jan	
DeviceRegistry	Silia	Upgrading to Java spring. Send to CI/CD process in Jan	
Onboarding	Ani/Silia	Upgrading to Java spring. Send to CI/CD process in Jan	
PLC integration IEC 61499	Jose/Kirill	Paper in process. Integrating 61499 and OPC-UA. Jose to set up telco for the release process.	
Client library proposal	Michele	No update	
OPC-UA	Fortis/LTU	Need to be revisited to get i released. JD responsible.	
BaSyS interoperability	Markus	No updates	
Test-tool	Hans	New graphical interface i developed. Making it web based.	
Sandboxing tool	Hans	Test this week with v4.1.3. More internal info coming Friday.	
Python Skeletons	Jacob	Producing services is working. Consumer skeleton in the	
		works.	
Updates ion			
installation Linux installation	Szvetlin/Javad	A server damage happened during Christmas. It should be	
Linux installation	02Vetiii i/oavad	up again this week.	
Windows instalaltion	Szvetlin	A server damage happened during Christmas. It should be up again this week.	
Mac installation	Szvetlin	A server damage happened during Christmas. It should be	
Docker + Jenkins	Haris	up again this week. A server damage happened during Christmas. It should be	
Docker + Jenkins	lians	up again this week.	
Updates to prototypes			
PlantDescription	Jerker	Meeting in Oslo with some 12 people.	
Configuration	Javad	First architecture presented. Recommendation to review Eclipse projects Kura and Kapua.	
Engineering tool for	Mario	No update	
legacy adapters Datastructure Editor	Mario	No update	
Device description editor	Mario	No update	
Code generator	Mario	No update	
Consumer code	Cristina	Journal paper on service interface coding system. Looking	
generation Exchange network	Ulf/Emanuel	into CDL specificaitons. No update	
SafetyManager	Mirren/Daniela	No update	
Autonomic	An	No update	
orchestration/ configuration			
Security mitigation tool	Silia	Under development, no major update. Feb/March first prototype	
Security standard	Ani	Under development, no major update, prototype code is	
compliancy Translation -	Jacob	working. Improving the auto encoder architecture.	
sermantics ModbusTCP,	Ireneus	No update	
SysML	Jerker	Progress on Arrowhead Framework SysML profile. A	
- ,		validation phase for SysML2 is expected.	
Hadakaa an			
Updates on engineering tools			
Engineering process	Jan/Gianvito	No update	
Engineering tool chain	Marek/Federico	No update	
		DE O from Arrougheed Tools in progress. Deady by and a	
Engineering tools	Hans/Pal	D5.2 from Arrowhead Tools in progress. Ready by end o next week.	
Engineering tools	Hans/Pai		
Updates on	Hans/Pai		
Updates on training Training planing	Emanuell/Mats	next week. Promotion training activities pushed within the Arrowhead	
Updates on training		Promotion training activities pushed within the Arrowhead Tools project. Large workshop in Milan end of April. Collection of training material is in progress. FAQ area is	
Updates on training Training planing		Promotion training activities pushed within the Arrowhead Tools project. Large workshop in Milan end of April.	
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Updates on training Training planing Training HW,SW, littérature Applications Semi conductor	Emanuell/Mats Emanuell/Mats Francois + Mark,	Promotion training activities pushed within the Arrowhead Tools project. Large workshop in Milan end of April. Collection of training material is in progress. FAQ area is	
Updates on training Training planing Training HW,SW, littérature Applications Semi conductor equipment integration	Emanuell/Mats Emanuell/Mats Francois + Mark, Agileo	Promotion training activities pushed within the Arrowhead Tools project. Large workshop in Milan end of April. Collection of training material is in progress. FAQ area is discussed. No update	
Updates on training Training planing Training HW,SW, littérature Applications Semi conductor equipment integration Smart parking	Emanuell/Mats Emanuell/Mats Francois + Mark,	Promotion training activities pushed within the Arrowhead Tools project. Large workshop in Milan end of April. Collection of training material is in progress. FAQ area is discussed.	
Updates on training Training planing Training HW,SW, littérature Applications Semi conductor equipment integration Smart parking application Vertical farming	Emanuell/Mats Emanuell/Mats Francois + Mark, Agileo Haris Haris	Promotion training activities pushed within the Arrowhead Tools project. Large workshop in Milan end of April. Collection of training material is in progress. FAQ area is discussed. No update No update No update	
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		Table 1		
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Ecplise process	Marco/Jerker	Telco with Eclipse either this or next Thursday		
Migration 4.1.2 -> 4.1.3,	Szvetlin	Migration: 4.1.2 and 4.1.3 compatibility via legacy support library:		
		https://github.com/arrowhead-f/core-java-spring-legacy-support		
Released Core Systems				
ServiceRegistry v4.1	AITIA			
Authorisation v4.1	AITIA			
Orchestration v4.1	AITIA			
Gatekeeper v4.1	AITIA			
Gateway v4.1	AITIA			
Management Tool	AITIA			
EventHandler v4.1	AITIA	Core System Updates: Event Handler: improvements to startup time and subsciber authorization, and documentation is ready. Other		
		systems no update, our focus was on the legacy support.		
QoS v4.1	Luis+AITIA	No update		
Documentation in Github	Jerker	A small working group to be formed with core people from the documentation paper lead by Michele.		
Updates release candidates				
DataManager	Jens/Jerker/Jonny	Code is on-line in Github, will work with Szvetlin to get it released.		
Translator	Jens/Jerker/Jonny	Pablo is working Translator 4.1.3. Plan for release in 2-3 weeks.		
FiWare interoperability	Jens/Jerker/Jonny	Pablo is working FiWare use case into v4.1.3. Plan for release in 2-3 weeks.		
CertificateAuthority	Gabor/Ani/Silia	No update		
WorkFlowManager	Jaime	No update		
ESB-CPN	Felix	No update		
Choreography	Pal	Has been demoed. New version for the ICPS demo.		
SystemRegistry	Ani	Updating to java-spring. Plan to release end of this month. Work on a		
DeviceRegistry	Silia	journal paper for the on-boarding procedure		
Onboarding	Ani/Silia	· ·		
PLC integration IEC 61499	Jose/Kirill	Plan to publish at ICPS. Will be released as both 4DIAC and		
		Arrowhead. OPC-UA 4.1.2 implemented. Kiril to get in contact with Szvetlin		
Client library proposal	Michele	No update		
OPC-UA	Niklas	No update		
BaSyS interoperability	Markus	No update		
Test-tool	Hans	No update on Sandboxing tool but will be updated to 4.1.3 in January		
		Working on new web based interface for test tool, will be released in March.		
Sandboxing tool	Hans	_"_		
Python Skeletons	Jacob	No update		
Updates ion installation				
Linux installation	Szvetlin/Javad	Windows guide is coming soon. Debian installers are ready (for Linux/Raspberry Pi)		
		common problem during installation: people don't read the		
Windows instalaltion	Szvetlin	guide carefully		
Mac installation	Szvetlin			
Docker + Jenkins	Haris			
	-			
Updates to prototypes				
PlantDescription	Jerker	Meeting in Oslo 29-30/1.		
Configuration	Javad	No update		
Engineering tool for legacy adapters	Mario	No update		
Datastructure Editor	Mario	No update		
Device description editor	Mario	No update		
Code generator	Mario	No update		
Consumer code generation	Cristina	No update		
Exchange network	Ulf/Emanuel	Work on a UserRegistry system		
SafetyManager	Mirren/Daniela	No updates		
Autonomic orchestration/configuration	An Silia	No updates Implementing in the AVL use case.		
Security mitigation tool Security standard compliancy	Ani	Journal paper in the works		
Translation - sermantics	Jacob	No update		
ModbusTCP,	Ireneus	No update		
SysML	Jerker	Telco on SysML2 validation work. Model available in AHT owncloud.		
		The modelling approach will also be discussed in Oslo.	 	
Updates on engineering tools		Demonster IEEE NONO WOOD		
Engineering process	Jan/Gianvito	Paper for IEEE NOMS WS in Budapest		
Engineering tools Engineering tools	Marek/Federico Hans/Pal	Deliverable 5.2. Will make use of WP2 and 4 data to form the		
		appropriate tools and the associated tool chain integration. D5.3 is coming i April.		
		Soming reprii.		
Updates on training				
Training planing	Emanuell/Mats	No update		
Training HW,SW, littérature	Emanuell/Mats	No update		
Applications				
Semi conductor equipment integration	Francois + Mark, Agileo	No update		
Smart parking application	Haris	No update		
Vertical farming	Haris	No update		
Zinq based accelerator of local nodes.	Jiri	No update		
Music on the new web.	Erkki	No update		
ROS	Jan	Not tested on devices, yet. A ROS wheel loader is currently functional.		
Thingwave	Jens	Arrowhead 4.1.3. in Thingwave products.		
Integrated demo eat ICPS in Tampere	Peter	First version description is written. Connection to the other demo groups is requested. All demo group in the agenda for next telco.		
АоВ				
		<u> </u>		