

Tímový projekt



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# IOT Sprint 4

🕒 9 days remaining [Complete Sprint](#)

Board ▾



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## Sprint Backlog

## In Progress

## Review

## Done

- IOT-9  
Program for RTUexe Configuration  
**ComoNeo Digital Inputs**  
As a user I want to be able to set digital output from 8
- IOT-90  
Digital Input Test Integration  
**ComoNeo Digital Inputs**  
None 13
- IOT-91  
Interfaces Design  
**ComoNeo Analog Inputs**  
None 13
- IOT-92  
Analog Output from PRU  
**ComoNeo Analog Inputs**  
None 13
- IOT-93  
Create First Document for Project  
None 8

- IOT-80  
Model Architecture for Project  
None 8

Review column content

Done column content

Summary	Issue key	Issue Type	Status	Assignee	Description	Epic Link	Epic Name	Sprint 1	Sprint 2	Sprint 3	Sprint 4	Story Points	Task type
Project goal	IOT-78	Group	Group		The goal of the project is to enable automatic testing of measuring devices. For this purpose it is necessary to develop a device able to generate various analog and digital signals which will simulate sensors and device states.								
Environment	IOT-71	Group	Group		First prototype of the device is used to test ComoNeo.Â [https://www.kistler.com/en/applications/industrial-process-control/plastic-process-monitoring/injection-molding-process-control/process-monitoring-with-comoneo/]								
Configuration of various devices	IOT-73	Group	Group		REST API should not be ComoNeo specific. It should be possible to use the same data model for other devices.								
REST API	IOT-75	Group	Group		On the basis of ComoNeo analysis create a REST API interface.								
Robot Framework Tests	IOT-70	Group	Group		Examples of robot framework tests demonstrates the functionality of IoTTester.								
Configuration of analog signals	IOT-72	Group	Group		It is possible to configure analog signals over REST API.								
Document how to use IoTTester for devices other than ComoNeo	IOT-76	Group	Group										
Design	IOT-74	Group	Group										
Configuration of digital signals	IOT-77	Group	Group		It is possible to set digital input signals over REST API.								
Implementation	IOT-62	Group	Group		The goal of the implementation is to provide several working automated tests of the ComoNeo device.								
High level architecture	IOT-65	Group	Group		Architecture document contains high level view on PRU, ARM, beaglebone, robot framework and ComoNeo relations.Â								
Hardware	IOT-63	Group	Group		Hardware consists of reusable part and device specific part (e.g. ComoNeo connectors).								
Housing	IOT-61	Group	Group		3D printer housing modelsÂ is designed.								
Tests integration into continuous integration system	IOT-60	Group	Group										
Document how to use IoTTester for ComoNeo	IOT-64	Group	Group										
Robot framework integration	IOT-66	Group	Group										
Robot Framework tests	IOT-67	Group	Group										
IoTTester architecture	IOT-69	Group	Group		Architecture of the IoTTester software is documented.								
Architecture document	IOT-68	Group	Group										
Documentation	IOT-56	Group	Group		REST API is documented. Documentation contains description how to use the interface for different devices (not only for ComoNeo).								
Test examples implementation	IOT-55	Group	Group										
IoTTester implementation	IOT-58	Group	Group										
Project goal	IOT-57	Group	Group										
Software	IOT-59	Group	Group										
Program for RTUexe Configuration	IOT-9	Story	To Do	G0257	As a user I want to be able to set digital output from RTU to be able to test ComoNeo digital input. Acceptance criteria: Running RTU program which sets the digital output of IoTTester according configuration from CPU.	IOT-2					IOT Sprint 4	8.0	
Create First Document for Project	IOT-93	Story	To Do	G0255							IOT Sprint 4	8.0	
Model Architecture for Project	IOT-80	Task	In Progress	G0255						IOT Sprint 3	IOT Sprint 4		documentation
Analog Output from PRU	IOT-92	Story	To Do	G0261		IOT-36					IOT Sprint 4	13.0	
Test analog inputs on ComoNeo	IOT-36	Epic	To Do		As a user I want to be able to test an analog output on IoTTester to be able to test analog input of ComoNeo. Acceptance criteria: * test in robot framework: ** configures IoTTester to send an analog signal ** checks if the signal was measured by ComoNeo		ComoNeo Analog Inputs						
Interfaces Design	IOT-91	Story	To Do	G0255		IOT-36					IOT Sprint 4	13.0	
Digital Input Test Integration	IOT-90	Story	To Do	G0255		IOT-2					IOT Sprint 4	13.0	
Testing digital inputs on ComoNeo	IOT-2	Epic	To Do				ComoNeo Digital Inputs						
Create Team Poster	IOT-26	Task	Closed										documentation
Decide on Continuous Server	IOT-22	Task	Closed										other
Call Program on RTU from CPU	IOT-19	Task	Closed			IOT-2							implementation
Analyze Communication Between RTU and CPU	IOT-18	Task	Closed			IOT-2							analysis
Analyze RTU	IOT-13	Task	Closed			IOT-2							analysis
Choose Simple Program for RTU	IOT-16	Task	Closed			IOT-2							analysis
RTU and Web Server Compatibility	IOT-14	Task	Closed			IOT-2							analysis
Load Program to RTU	IOT-17	Task	Closed	G0259	As a user I want to be able to set digital output from RTU to be able to test ComoNeo digital input. Acceptance criteria: Running RTU program which sets the digital output of IoTTester according configuration from CPU.	IOT-2		IOT Sprint 1	IOT Sprint 2	IOT Sprint 3			implementation

Methodics	IOT-44	Story	Closed	G0255	Create methodic for: * Meeting Documentation * Tasks management - done * Methodics - done * Code versioning - done * Web - done			IOT Sprint 1	IOT Sprint 2	IOT Sprint 3			3.0	
RTU and CPU Communication	IOT-8	Story	Closed	G0257	As a user I need to configure real time simulation to run various simulations.  Acceptance criteria: RTU and CPU prototype is running on Beaglebone Linux console.	IOT-2		IOT Sprint 1	IOT Sprint 2	IOT Sprint 3			5.0	
Load RTUexe	IOT-7	Story	Closed	G0259	As a user I need to do a real time simulation to be able to simulate sensor measurements.  Acceptance criteria: Loading of the program to the real time unit will be shown on Linux console.	IOT-2		IOT Sprint 1	IOT Sprint 2	IOT Sprint 3			13.0	
Jenkins pipeline for installation image	IOT-88	Story	To Do		As a user I want try the latest changes of the IoTester firmware.  Acceptance criteria: * Jenkins pipeline which will be triggered by the change in a git branch and will compose the IoTester firmware	IOT-89								
Installation image build	IOT-87	Story	To Do		As a developer/tester/user I want to try the latest changes in the IoTester firmware.  Acceptance criteria: * script which will integrate parts of the IoTester firmware (web server, PRU binary, ...)	IOT-89								
Create Project Specification	IOT-25	Task	Closed	Onl										documentation
Deployment	IOT-89	Epic	To Do				Deployment							
Installer SD card image	IOT-81	Story	To Do		As a user I want to be able to install IoTester software to a new BBB.  Acceptance criteria: * SD card imageA which installs the IoTester firmware into internal memory of BBB * document how to install the new BBB	IOT-89								
Enable multiple digital and analog outputs	IOT-86	Story	To Do		As a user I want to use all analog and digital outputs of IoTester to be able to control ComoNeo.  Acceptance criteria: * Rest API is extended so that it allows configuration of all digital and analog outputs * RTU executes the configuration according defined timing	IOT-40								
Analyze, design, implement REST API	IOT-40	Epic	To Do				REST API							
ComoNeo simulator data conversion	IOT-85	Story	To Do		As a ComoNeo tester I want to be able to take the data for ComoNeo simulator and configure with the IoTester  Acceptance criteria: * Robot framework keyword which will load configuration from ComoNeo fpga simulator and configures IoTester via Rest API  ComoNeo Simulator input data description:  [https://git.kistler.com/comong/comong-software/tree/master/Core/lib/Fpga/Simulator]  ComoNeo Simulator input data examples:  [https://git.kistler.com/comong/comong-software/tree/release-3.0/Testing/RestApi-Robot/Setups/2molds/ApplicationFiles/Simulator]  [https://git.kistler.com/comong/comong-software/tree/master/Testing/RestApi-Robot/Setups/8c1p/ApplicationFiles/Simulator]  Ã Ã	IOT-40								
RTU IoTester analog output	IOT-84	Story	To Do		As a user I want to generate a defined digital output in real time.  Acceptance criteria: * PRU process a message with values of digital output and analog output and sets that according timing defined in the message	IOT-36								
REST API for analog output of IoTester	IOT-83	Story	To Do		As a user of IoTester I want to be able to set the analog and digital outputs.  Acceptance criteria: * IoTester Rest API provides a call which allows to set digital and analog outputs of IoTester * the RestAPI handler sends the data as a message to RTU  HINT:  The handler can prepare the data in a "RTU friendly" form.	IOT-36								

Create a test for ComoNeo analog input	IOT-82	Story	To Do		As I user I want to generate analog output on IoTester and test the behaviour of ComoNeo firmware.  Acceptance criteria: * Test sets the measurement start of the ComoNeo to a pin connected to IoTester * Test sets the analog output values to the IoTester (e.g. in 10 seconds) sets 10 different values) * Test starts the measurement with digital output of IoTester * Test checks the values using cursor in ComoNeo web application (see the attachment)	IOT-36											
Manage Kistler resources for PCB design	IOT-53	Task	Closed	Onl									IOT Sprint 3				
Create Document for Tasks Management	IOT-52	Task	Closed	G0255									IOT Sprint 3		documentation		
Presentation for Sprint 3 End	IOT-79	Task	Closed	G0255									IOT Sprint 3		other		
Close Sprint 2	IOT-50	Task	Closed	G0255									IOT Sprint 3				
Create Document for Jira Changes	IOT-51	Task	Closed	G0255									IOT Sprint 3		documentation		
REST API Prototype	IOT-10	Story	Closed	G0254	As a user of IoTester I want to have interface to set the Como digital input to be able to configure IoTester.  Acceptance criteria: * working webservice on beagleboard * implemented simple post request with value of digital input (0 or 1) * post request execution is logged to the console	IOT-2							IOT Sprint 3		3.0		
Robot Framework LIB	IOT-11	Story	Closed	G0260	As a test developer I want to have a library to use IoTester  Acceptance criteria: * python module * keywords to set Como digital inputs are implemented  HINT: A implementation of the keywords are POST requests to the IoTester  POST request is implemented in A <a href="http://jira.kistler.com/browse/IOT-10">http://jira.kistler.com/browse/IOT-10</a>	IOT-2							IOT Sprint 3		5.0		
Prepare Document for Board Design	IOT-49	Story	In Progress	G0256	As a hardware engineer, I want to create document for board design, so that we can use it as a guideline for creating final design of our new board. A	IOT-1							IOT Sprint 3		8.0		
Design REST API	IOT-42	Story	To Do		As a user of IoTester I need the documentation of REST API to be able to use this interface.  Acceptance criteria: * REST API is not ComoNeo specific * REST API enables to set digital and analog outputs of IoTester * Documentation of REST API A  A  Hint: Analyse the data used in ComoNeo software simulator:  [ <a href="https://git.kistler.com/comong/comong-software/tree/master/Core/lib/Fpga/Simulator">https://git.kistler.com/comong/comong-software/tree/master/Core/lib/Fpga/Simulator</a> ]  Various configurations of software simulator are available here in ApplicationFiles/Simulator folders:  [ <a href="https://git.kistler.com/comong/comong-software/tree/master/Testing/RestApi-Robot/Setups">https://git.kistler.com/comong/comong-software/tree/master/Testing/RestApi-Robot/Setups</a> ]  A	IOT-40											
Port IoTester specification to Jira	IOT-54	Task	Closed	Onl									IOT Sprint 3				
Implement REST API	IOT-43	Story	To Do			IOT-40											
Decide on Our Guidelines	IOT-29	Task	To Do												other		
Refactoring HW for better compactness	IOT-1	Epic	To Do														
Design Boards as modules	IOT-4	Story	To Do	G0256	As a hardware engineer, I want to design board in modules block, so that each module has a particular function and could be possible to replace it with extended function. A  Acceptance criteria: # Detail block schematic of modules and connection between them # Created design user stories for each modules	IOT-1									13.0		
New Housing Design	IOT-5	Story	To Do	G0256		IOT-1									3.0		
Create a Test	IOT-12	Story	Closed	G0260	As a user I want to test the ComoNeo digital input.  Acceptance criteria: Test configures IoTester (library for IoTester configuration will be implemented in different user story)  Test checks the ComoNeo web application if the digital input was set.  A	IOT-2								IOT Sprint 1	IOT Sprint 2	IOT Sprint 3	13.0

