Slovenská technická univerzita v Bratislave Fakulta informatiky a informačných technológií

Ilkovičova 2, 842 16, Bratislava 4

Tímový projekt



Export úloh z nástroja JIRA

Vedúci projektu: doc. Ing. Tibor Krajčovič, PhD.

Spolupráca: Ing. Lukáš Ondriga, Kistler Bratislava, s.r.o.

Názov tímu: TEST.IOT

Členovia tímu: Bc. Tomáš Bujna

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Bc. Igor Labát

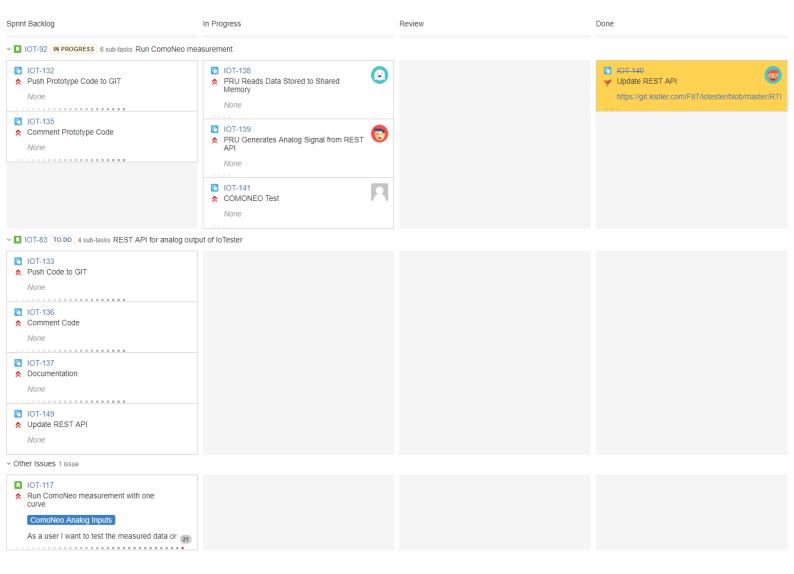
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Akademický rok: 2018/2019



Summary	Issue key	Issue Type	Status	Assignee	Description The goal of the porject is to enable automatic testing of measuring devices. For this purpose it is necessary	Epic Link	Epic Name	Sprint 1	Sprint 2	Sprint 3	Sprint 4	Sprint 5	Sprint 6	Sprint 7	Sprint 8	Sprint 9	Story Points	Task type
Project goal	IOT-78	Group	Group		to develop a device able to generate various analog and digital signals which will simulate sensors and device states.													
Robot Framework Tests	IOT-70	Group	Group		Examples of robot framework tests demonstrates the functionality of IoTester.													
Document how to use IoTester for devices other	IOT-76	Group	Group															
than ComoNeo Design	IOT-74	Group	Group		First prototype of the device is used to test													
					ComoNeo:Å													
Environment	IOT-71	Group	Group		[https://www.kistler.com/en/applications/industrial- process-control/plastic-process-monitoring/injection-													
					molding-process-control/process-monitoring-with- comoneo/													
Configuration of digital signals	IOT-77	Group	Group		It is possible to set digital input signals over REST API.													
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.													
Configuration of analog signals	IOT-72	Group	Group		It is possible to configure analog signals over REST API.													
Tests integration into continuous integration	IOT-60	Group	Group															
system IoTester architecture	IOT-69	Group	Group		Architecture of the IoTester software is documented.													
Robot framework integration	IOT-66	Group	Group															
High level architecture	IOT-65	Group	Group		Architecture document contains high level view on PRU, ARM, beaglebone, robot framework and													
Document how to use	IOT-64	Group	Group		ComoNeo relations.Å													
IoTester for ComoNeo Architecture document	IOT-68	Group	Group															
Hardware	IOT-63	Group	Group		Harware consists of reusable part and device specific part (e.g. ComoNeo connectors).													
Implementation	IOT-62	Group	Group		The goal of the implementation is to provide several													
Housing	IOT-61	Group	Group		working automated tests of the ComoNeo device. 3D printer housing modelsÅ is designed.													
Robot Framework tests	IOT-67	Group	Group															
Test examples implementation	IOT-55	Group	Group															
IoTester implementation Software	IOT-58	Group	Group															
Project goal	IOT-57	Group	Group		REST API is documented. Documentation contains													
Documentation	IOT-56	Group	Group		description how to use the interface for different													
Update REST API	IOT-149	Sub-task	To Do		devices (not Lukáš Ondrigay for ComoNeo).										IOT Sprint 8	IOT Sprint 9		
					[https://git.kistler.com/FIIT/iotester/blob/master/RT U/Flask/REST%20API%20-%20final.py]													
Update REST API	IOT-140	Sub-task	Closed	Tomáš Bujna	PlatĂ- konvencia ukladania do Shared Memory ako								IOT Sprint 6	IOT Sprint 7	IOT Sprint 8	IOT Sprint 9		
					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													
REST API for analog output of IoTester	IOT-83	Story	To Do		* The Rest API handler sends the data as a message to RTU	IOT-36									IOT Sprint 8	IOT Sprint 9	13.0	
					HINT:													
					The handler can prepare the data in a "RTU friendly"													
					form. As a user I want to test the measured data on													
Run ComoNeo					ComoNeo.													
measurement with one curve	IOT-117	Story	To Do		Acceptance criteria: * one curve is set from REST API to the PRU	IOT-36										IOT Sprint 9	21.0	
					* the curve contains 100 points * the curve is displayed on ComoNeo													
					As a user of IoTester I want to be able to run measurement on ComoNeo													
Run ComoNeo					Acceptance criteria: * PRU application sets measurement start digital													
measurement	IOT-92	Story	In Progress		input of ComoNeo and sets one value to the DAC converter	IOT-36							IOT Sprint 6	IOT Sprint 7	IOT Sprint 8	IOT Sprint 9	8.0	
					* The dac value is possible to set via REST API * Robot Framework test checks if the cycle started													
PRU Reads Data Stored to	IOT-138	Sub-task	In Progress	Rastislav Kováč	and checks if the value is as expected								IOT Sprint 6	IOT Sprint 7	IOT Sprint 8	IOT Sprint 9		
Shared Memory PRU Generates Analog Signal from REST ARI	IOT-139	Sub-task	In Progress	Filip Starý										IOT Sprint 7				
Signal from REST API					As a IoTÂ tester I want to image from SD card boot automatically.													
Automatic Image Boot from SD Card	IOT-148	Story	Closed	Rastislav Kováč	Å Acceptacne criteria:	IOT-89									IOT Sprint 8		8.0	
COMONEO Test	IOT-141	Sub-task		Marián Ján Franko	* image from SD card is booted on BBB startup								IOT Sprint 6	IOT Sprint 7	IOT Sprint 8	IOT Sprint 9		
Deployment	IOT-89	Epic	To Do		{color:#333333}As a developer I want to write/read		Deployment											
PRU Shared Memory	IOT-121	Story	Closed		data into/from shared memory of PRU so that we can store data for signal generation.{color}	IOT-36								IOT Sprint 7	IOT Sprint 8		13.0	
Documentation for PRU Shared Memory	IOT-130	Sub-task	Closed	Stanislav Širka										IOT Sprint 7	IOT Sprint 8			
					As a developer of IoTester I need a design of the communication message between PRU and CPU.													
					Acceptance criteria:													
					* message should be easy to use for PRU (no parsing, no caching in PRU,)													
Interfaces Design	IOT-91	Story	Closed		* message will support all digital outputs and analog outputs usable on loTester	IOT-36					IOT Sprint 4	IOT Sprint 5	IOT Sprint 6	IOT Sprint 7	IOT Sprint 8		13.0	
					* documentation of the message - will contain reasoningÂ													
					* the basic idea how to create this message in CPU is described													
Documentation fot Interface Design	IOT-129	Sub-task	Closed	Igor Labát							IOT Sprint 4	IOT Sprint 5	IOT Sprint 6	IOT Sprint 7	IOT Sprint 8			
	IOT-105	Sub-task	Closed	Igor Labát							IOT Sprint 4	IOT Sprint 5	IOT Sprint 6	IOT Sprint 7	IOT Sprint 8			
Design Interface between CPU and PRU		Story	Closed	Stanislav Širka Stanislav Širka											IOT Sprint 8		3.0	
Design Interface between CPU and PRU Sprint 8 - Keep It Running	IOT-142			Stanislav Sirka Stanislav Širka											IOT Sprint 8			
Design Interface between CPU and PRU Sprint 8 - Keep It Running Update Retrospective Presentation for End of	IOT-142 IOT-145 IOT-147	Sub-task Sub-task	Closed												IOT Sprint 8			
Design Interface between CPU and PRU Sprint 8 - Keep It Running Update Retrospective Presentation for End of Sprint 8 Split Stories to Sub-tasks	IOT-145	Sub-task	Closed	Stanislav Širka											_			
Design Interface between CPU and PRU Sprint 8 - Keep It Running Update Retrospective Presentation for End of Sprint 8 Split Stories to Sub-tasks Read data from shared memory from PRU	IOT-145 IOT-147	Sub-task Sub-task		Stanislav Širka Tomáš Bujna										IOT Sprint 7	IOT Sprint 8			
Design Interface between CPU and PRU Sprint 8 - Keep It Running Update Retrospective Presentation for End of Sprint 8 Split Stories to Sub-tasks Read data from shared	IOT-145 IOT-147 IOT-146	Sub-task Sub-task Sub-task	Closed											IOT Sprint 7	IOT Sprint 8			
Design Interface between CPU and PRU Sprint 8 - Keep It Running Update Retrospective Presentation for End of Sprint 8 Split Stories to Sub-tasks Read data from shared memory from PRU Write data to shared	IOT-145 IOT-147 IOT-146 IOT-125	Sub-task Sub-task Sub-task Sub-task	Closed	Tomáš Bujna										,	IOT Sprint 8			
Design interface between CPU and PRU Sprint 8 - Keep It Running Update Retrospective Presentation for End of Sprint 8 Split Stories to Sub-tasks Read data from shared memory from PRU Write data to shared memory from CPU Run program for CPU and PRU communication Export Tasks for Start of	IOT-145 IOT-147 IOT-146 IOT-125 IOT-124	Sub-task Sub-task Sub-task Sub-task Sub-task	Closed Closed Closed	Tomáš Bujna Tomáš Bujna										IOT Sprint 7	IOT Sprint 8			
Design Interface between CPU and RPU Sprint 8 - Keep It Running Update Retrospectrus Precentation for Presentation for Presentation for Presentation for Read data from shared memory from RPU Run program for CPU and Run program for	IOT-145 IOT-147 IOT-146 IOT-125 IOT-124 IOT-123 IOT-144 IOT-143	Sub-task Sub-task Sub-task Sub-task Sub-task Sub-task Sub-task Sub-task Sub-task	Closed Closed Closed Closed Closed Closed Closed	Tomáš Bujna Tomáš Bujna Tomáš Bujna										IOT Sprint 7	IOT Sprint 8 IOT Sprint 8 IOT Sprint 8 IOT Sprint 8			
Design Interface between CPU and PRU Sprint 8 - Keep It Running Update Retroopective Presentation for find of Sprint 8 Spill Stories to Sub-tasks Read data from shared memory from PRU Write data from Shared with the Spill Stories to Spill Stories for Spill Spill Stories for Spill Spill Stories for Spill Spill Stories for Spill Spi	IOT-145 IOT-147 IOT-146 IOT-125 IOT-124 IOT-123	Sub-task Sub-task Sub-task Sub-task Sub-task Sub-task Sub-task Sub-task	Closed Closed Closed Closed Closed	Tomáš Bujna Tomáš Bujna Tomáš Bujna Stanislav Širka										IOT Sprint 7	IOT Sprint 8 IOT Sprint 8 IOT Sprint 8	IOT Sprint 9 IOT Sprint 9		
Design Interface between CPU and PRUI . Sprint 8 - Keep It Running . Update Retrospective . Sprint 8 - Spri	IOT-145 IOT-147 IOT-146 IOT-125 IOT-124 IOT-123 IOT-144 IOT-143 IOT-137 IOT-136 IOT-135	Sub-task	Closed Closed Closed Closed Closed Closed Closed To Do To Do	Tomáš Bujna Tomáš Bujna Tomáš Bujna Stanislav Širka									IOT Sprint 6	IOT Sprint 7	IOT Sprint 8	IOT Sprint 9		
Design Interface Detween CPU and RPU Sprint 8. Keep IR Running Update Rerospective Presentation for find of Sprint 8. Split Stories to Sub-tasks Read data from shared memory from RPU With Read data from shared memory from CPU Run program for CPU and RPU Gmmin (Sprint Sprint	IOT-145 IOT-147 IOT-146 IOT-125 IOT-124 IOT-123 IOT-144 IOT-143 IOT-137 IOT-136	Sub-task	Closed Closed Closed Closed Closed Closed Closed To Do To Do	Tomáš Bujna Tomáš Bujna Tomáš Bujna Stanislav Širka										IOT Sprint 7 IOT Sprint 7	IOT Sprint 8	IOT Sprint 9 IOT Sprint 9 IOT Sprint 9		

Analyze shared memory	IOT-122	Sub-task	Closed	Tomáš Bujna	As a developer of IoTester I need to send a simple							IOT Sprint 7	IOI Sprint 8		
Send Data to SPI	IOT-96	Story	Closed		message to 5P interface *Acceptance criteria:* *prepare a simple program to work with SPI interface: the program is compliable and possible to interface: the program is compliable and possible to enabled SPI and GPIOs which are necessary to control DAC in the device tree *send simply message to 5P interface (possible to message it by 3P out-officoope)	IOT-36					IOT Sprint 6			13.0	
Test SPI without PRU Send constant data to SPI	IOT-120		Closed								IOT Sprint 6				
interface Compile and Run Simple	IOT-106	Sub-task	Closed									IOT Sprint 7			
SPI program	IOT-98	Sub-task	Closed	Filip Starý							IOT Sprint 6	IOT Sprint 7			
BBB for All	IOT-118	Sub-task	Closed	Rastislav Kováč	* Actual SD card image * Code composer * Connect to BBB All informations are in pdf file Added tutorial for updating device tree on sd card						IOT Sprint 6	IOT Sprint 7			
Close sprint 6 Prepare for End of Sprint	IOT-126	Task	Closed	Stanislav Širka		IOT-36						IOT Sprint 7			
7	IOT-128	Task	Closed	Stanislav Širka		IOT-36						IOT Sprint 7			
Effective Retrospective	IOT-127	Task	Closed	Stanislav Širka		IOT-36						IOT Sprint 7			
Test analog inputs on ComoNeo	IOT-36	Epic	To Do		As a user I want to be able to test an analog output on lof-seter to be able to test analog input of Comotieo. Acceptance criteria: * test in robot framework: ** configures foretr to send an analog signal ** checks if the signal was measured by ComoNeo		ComoNeo Analog Inputs								
Finalyze Interface between COMONEO and	IOT-104	Sub-task	Closed	Tomáš Bujna	https://git.kistler.com/FIIT/iotester/tree/RF/BBB/RES				IOT Sprint 4	IOT Sprint 5	IOT Sprint 6	IOT Sprint 7	IOT Sprint 8		
BBB Setup Device Tree	ЮТ-97	Sub-task	Closed	Rastislav Kováč	TaPl Time: 8h Setup Device Tree Set pins 139/139/158/39c to mode 0x03 Result https://files.slack.com/files-pri/TCZR1HLDT-FGX2H075/pins.png) Ä				ioi spinic 4	ioi spinics	IOT Sprint 6		ior spinit s		
Measure PRU message size limit	IOT-107	Sub-task	Closed	Tomáš Bujna	https://git.kistler.com/FIIT/iotester/tree/iOT-107/IOT- 107%20%5BMeasure%20PRU%20message%20size% 20limit%5D						IOT Sprint 6	IOT Sprint 7			
Calculate if we are able to write the whole curve to	IOT-119	Sub-task	Closed	Tomáš Bujna							IOT Sprint 6	IOT Sprint 7			
PRU					As a developer of IoTester I need to measure the size										
Analyze Memory Limit of PRU	IOT-103	Story	Closed		limit of PRU message system Acceptance criteria: * measure PRU message size limit * measure if we are able to write the whole curve to PRU	IOT-36					IOT Sprint 6	IOT Sprint 7		5.0	
Decide on Our Guidelines	IOT-29	Task	Closed												
Analyze Analog Output of DAC	ЮТ-99	Story	Closed		As a developer of loTester I need to have a basic understanding of how to communicate with DAC, how to setup DAC to get desire analog value * analyze how the DAC chip is connected to the board CSF, GPO3) - which 888 pris are used to control DAC -s as noting prepare a simple sketch of PAR description ** analyze how to use DACAS [http://www.ti.com/lit/ds/.yymlink/dsc8734.pdf] # what data should be sent vis 29F interface to get desired analog value. I how to command DAC to set the analog output * team understands the concept of dissy-chain A https://www.masimmtegrated.com/en/app-notes/index.msp/id/3947]	ЮТ-36					IOT Sprint 6			5.0	
Create a test for ComoNeo analog input	ЮТ-82	Story	То Do	Marián Ján Franko	As I user I want to generate analog output on lorseter and test the behaviour of ComoNeo firmware. Acceptance criteria: "Test sets the measurement start of the ComoNeo to a jin connected to lo l'ester "Test sets the analog output values to the loTester (e.g. in 10 seconds) & est lo different values) "Test starts the measurement with digital output of loester "Test starts the measurement with digital output of loester "Test starts the measurement with digital output of loester when the values using cursor in ComoNeo wed application (see the attachment)	ЮТ-36						IOT Sprint 7			
Design AEST API	IOT-42	Story	То Во		As a user of loTester I need the documentation of REST API to be able to use this interface. REST API to be able to use this interface. *REST API is not Commotive specific *REST API is not Commotive specific *REST API is not Commotive specific *BEST API is not Commotive stigistal and analog outputs of loTester *Documentation of REST APIÄ Hint: Analyse the data used in Commotive software simulation: [https://gil.kistler.com/commong/commong- software/free/master/Com/fill/Fgsp/Simulator/] Various configurations of software simulatior are available here in ApplicationFiles/Simulator folders: [https://gil.kistler.com/commong- software/free/master/Testing/RestApi-Robol/Setups] Å	IOT-40									
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 AP Is extended so that it allows configuration of all digital and analog outputs ***RTU executes the configuration according defined timing	IOT-40									

					As a ComoNeo tester I want to be able to take the											
					data for ComoNeo simulator and configure with the loTester											
					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-											
ComoNeo simulator data	IOT-85				software/tree/master/Core/lib/Fpga/Simulator)	IOT-40										
conversion	IOT-85	Story	To Do		ComoNeo Simulator input data examples:	IOT-40										
					[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]											
					A											
					Â											
Prepare Document for					As a hardware engineer, IÂ want to create document											
Board Design	IOT-49	Story	In Progress	Miroslav Sabo	for board design, so that we can use it as a guideline for creating final design of our new board.Â	IOT-1				IOT Sprint 3					8.0	
Kistler VPN Access	IOT-28	Task	Closed	Lukáš Ondriga				IOT Sprint 1	IOT Sprint 2							
					As a user I want to have access to the loTester REST API after boot.											
Start webserver	IOT-116	Story	To Do			IOT-89										
automaticaly	101 110	Story	1000		Acceptance criteria: * IoTester python webserver is added to Yocto build	101 03										
					* REST API is available after loTester boot.											
					As a user I want to have the PRU software loaded automaticaly after boot.											
Load PRU exe	107.445	Character .	T. D.			107.00										
automaticaly	IOT-115	Story	To Do		Acceptance criteria: * PRU application is added to Yocto build	IOT-89										
					* after the boot of generated image the PRU application is started											
					As a user of loTester I want my device to be											
					configured automaticaly with the correct device tree.											
Configure device tree for	IOT-114	Story	To Do		Acceptance criteria:	IOT-89										
SD card image generation	101-114	story	10 00		* device tree configuration added to Yocto layer * generated image can boot and device tree is	101-89										
					configured in correct way (e.g. spi bits have correct											
					mode)											
					As a developer of IoTester I need SD card image which contains flusk to be able to develop IoTester											
					application.											
Add flusk into SD card image generation	IOT-113	Story	To Do		Acceptance criteria:	IOT-89										
					* new layer added to yocto configuration * image configuration including flusk added											
					* generated image can be load to the sd card and the flusk is installed											
					As a developer I need to be able to generate new SD											
					card image.											
SD card image generation	IOT-81	Story	To Do		Acceptance criteria: * Script for building SD card image from existing	IOT-89										
SD card image generation	101-81	Story	10 00		yocto configuration for TI Processors SDK is created	101-89										
					* Script is available in Git repository * It is possible to load generated image to the SD											
					card and run it on BBB											
Update Retrospective in	IOT-111	Task	Closed													
rello		Task	Closed	Stanislav Širka									IOT Sprint 6			
Prepare Presentation for	IOT-110	Task	Closed	Stanislav Sirka Stanislav Širka									IOT Sprint 6			
Prepare Presentation for Sprint 6 Refactoring HW for better	IOT-110	Task	Closed				IoTester Refactoring									
Prepare Presentation for Sprint 6 Refactoring HW for better compactness New Informations in JIRA	IOT-110 IOT-1	Task Epic	Closed To Do	Stanislav Širka			IoTester Refactoring						IOT Sprint 6			
Prepare Presentation for Sprint 6 Refactoring HW for better compathess New Informations in JIRA Tasks	IOT-110 IOT-1 IOT-112	Task Epic Task	Closed To Do Closed	Stanislav Širka Stanislav Širka			IoTester Refactoring						IOT Sprint 6			
Prepare Presentation for Sprint 6 Refactoring HW for better compactness New Informations in JIRA Tasks Export JIRA Tasks for Sprint 6 Start	IOT-110 IOT-1 IOT-112 IOT-109	Task Epic Task Task	To Do Closed Closed	Stanislav Širka Stanislav Širka Stanislav Širka			loTester Refactoring						IOT Sprint 6 IOT Sprint 6 IOT Sprint 6			
Prepare Presentation for Sprint 6 Refactoring HW for better compactness New Informations in JIRA Tasks Export JIRA Tasks for Sprint 6 Start Understands daisy-chain concept	IOT-110 IOT-1 IOT-112	Task Epic Task	Closed To Do Closed	Stanislav Širka Stanislav Širka			IoTester Refactoring						IOT Sprint 6			
Prepare Presentation for Sprint 6 Refactoring HW for better compactness New Informations in JIRA Tasks Export JIRA Tasks for Sprint 6 Start Understands daisy-chain	IOT-110 IOT-1 IOT-112 IOT-109	Task Epic Task Task	To Do Closed Closed	Stanislav Širka Stanislav Širka Stanislav Širka			IoTester Relactoring						IOT Sprint 6 IOT Sprint 6 IOT Sprint 6			
Prepare Presentation for Sprint 6 Refactoring HW for better compactness New Informations in JIRA Tasks Export JIRA Tasks for Sprint 6 Start Understands daisy-chain concept Basic understanding of DAC Understand how the DAC	IOT-110 IOT-1 IOT-112 IOT-109 IOT-102 IOT-100	Task Epic Task Task Sub-task Sub-task	Closed To Do Closed Closed In Progress Blocked	Stanisłav Širka Stanisłav Širka Stanisłav Širka Igor Labát Igor Labát			IoTester Refactoring						IOT Sprint 6			
Prepare Presentation for Sprint 6 Refactoring HW for better compactness New Informations in JIRA Tasks Export JIRA Tasks for Sprint 6 Start Understands daisy-chain concept Basic understanding of DAC	IOT-110 IOT-1 IOT-112 IOT-109	Task Epic Task Task Sub-task	Closed To Do Closed Closed In Progress	Stanislav Širka Stanislav Širka Stanislav Širka Igor Labát			IoTester Refactoring						IOT Sprint 6 IOT Sprint 6 IOT Sprint 6 IOT Sprint 6			
Prepare Presentation for Sprint 5 Refactoring HW for better compactness New Informations in JIRA Tasks Export JIRA Tasks for Sprint 6 Start Understands dasy-chain concept Basic understanding of DAC Understand how the DAC chip is connected to the board (SPI, GPIOs) Create Project	IOT-110 IOT-1 IOT-112 IOT-109 IOT-102 IOT-100	Task Epic Task Task Sub-task Sub-task	Closed To Do Closed Closed In Progress Blocked	Stanislav Širka Stanislav Širka Stanislav Širka Igor Labát Igor Labát Miroslav Sabo			loTester Refactoring					IOT Sprint 5	IOT Sprint 6		8.0	
Prepare Presentation for Sprint 6 Refactoring HW for better compactness New Informations in JIRA Export JIRA Tasks for Sprint 6 Start Understands diasy-chain concept. Basic understanding of Chips is connected to the board (SPI, GPICs) Create Project Documentation for 25 Digital Input Test	IOT-110 IOT-112 IOT-102 IOT-102 IOT-101 IOT-101 IOT-95	Task Epic Task Task Sub-task Sub-task Sub-task Sub-task	Closed To Do Closed Closed In Progress Blocked Blocked Closed	Stanislav Širka Stanislav Širka Stanislav Širka Igor Labát Igor Labát Miroslav Šabo Stanislav Širka		IOT-2	lo Tester Relactoring				DT Societ 4	-	IOT Sprint 6			
Prepare Presentation for Spirit 6 Fedestoning HW for better compactness. New Informations in JIRA Tasks Export SIS Tasks for sport in SIS Tasks for sport sport sport sport sport sport sport sport sport sport sport sport sport	IOT-110 IOT-112 IOT-109 IOT-102 IOT-101 IOT-101 IOT-95	Task Epic Task Task Sub-task Sub-task Sub-task Sub-task Story	Closed To Do Closed Closed In Progress Blocked Blocked Closed Closed	Stanislav Širka Stanislav Širka Stanislav Širka Igor Labát Igor Labát Miroslav Sabo Stanislav Širka Stanislav Širka		IOT-2	lo Tester Relactoring					IOT Sprint 5	IOT Sprint 6		8.0	
Prepare Presentation for Sprint 6 Refactoring HW for better compactness New Informations in JIRA Export JIRA Tasks for Sprint 6 Start Understands diasy-chain concept. Basic understanding of Chips is connected to the board (SPI, GPICs) Create Project Documentation for 25 Digital Input Test	IOT-110 IOT-112 IOT-102 IOT-102 IOT-101 IOT-101 IOT-95	Task Epic Task Task Sub-task Sub-task Sub-task Sub-task	Closed To Do Closed Closed In Progress Blocked Blocked Closed	Stanislav Širka Stanislav Širka Stanislav Širka Igor Labát Igor Labát Miroslav Šabo Stanislav Širka		IOT-2	loTester Relactoring			IOT Sprint 3	IOT Sprint 4	-	IOT Sprint 6			documentation
Frequer Presentation for Sprint 6 Relationing HW for better compactness New Informations in JRA Tasks Export JRA Tasks for Sprint 6 Start Understands disay-thain concept Basic understands disay-thain concept Basic understand from the DAC Chip is connected to the board (SPA, GPOD) Create Project Documentation for Test Information Test Milegration Model Architecture for Model Ar	IOT-110 IOT-112 IOT-109 IOT-102 IOT-101 IOT-101 IOT-95	Task Epic Task Task Sub-task Sub-task Sub-task Sub-task Story	Closed To Do Closed Closed In Progress Blocked Blocked Closed Closed	Stanislav Širka Stanislav Širka Stanislav Širka Igor Labát Igor Labát Miroslav Sabo Stanislav Širka Stanislav Širka	As a user I want to be able to set digital output from	IOT-2	bTester Relactoring			IOT Sprint 3		-	IOT Sprint 6			documentation
Prepare Presentation for Sprint 6 Relactioning HW for better compactitions in JRA Tanks Export 18 Feb. 18 F	IOT-110 IOT-1 IOT-112 IOT-109 IOT-102 IOT-101 IOT-101 IOT-95 IOT-90 IOT-80	Task Epic Task Task Sub-task Sub-task Sub-task Sub-task Story	Closed To Do Closed Closed In Progress Blocked Blocked Closed Closed	Stanislav Sirka Stanislav Sirka Stanislav Sirka Stanislav Sirka Igor Labåt Igor Labåt Igor Sabö Miroslav Sabo Stanislav Sirka Stanislav Sirka Stanislav Sirka	As a user I want to be able to set digital output from RTU to be able to test ComoNeo digital input.		loTester Refactoring			IOT Sprint 3	IOT Sprint 4	-	IOT Sprint 6		13.0	documentation
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Preguer Presentation for Sperit 6 Refactioning HW for better compactitions. New Informations in JRA. Tasks Louising HW for better compactitions. New Informations in JRA. Tasks Louising HW for better compactitions. Description of Louising HW for the Louising HW for Louis	IOT-10 IOT-1 IOT-10 IOT-10 IOT-102 IOT-100 IOT-100 IOT-9 IOT-9 IOT-9 IOT-9 IOT-9 IOT-9 IOT-9 IOT-10 IOT-11	Task Epic Task Task Sub-task Sub-task Sub-task Story Task Story Task Story Task Task Task Task Task Task Task Task	Closed To Do Closed Closed In Progress Blocked Blocked Closed	Stanislav Sirka Stanislav Sirka Stanislav Sirka Igor Labšt Igor Labšt Igor Labšt Stanislav Sirka Stanislav Sirka Stanislav Sirka Filip Staný Stanislav Sirka Stanislav Sirka	RTU to be able to test ComoNeo digital input. Acceptance criteria: Running RTU program which sets the digital output of IOTester according configuration from CPU. 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 IOTester according configuration from CPU. Create methodic for: **Meeting Documentation **Tasks amazgment - done **Methodic connection **Tasks amazgment - done **Methodic connection **Tasks amazgment - done	107-2 107-2 107-2 107-2 107-2			IOT Sprint 2	IOT Sprint 3	IOT Sprint 4 IOT Sprint 4	IOT Sprint 5	IOT Sprint 6		8.0	documentation implementation analysis analysis analysis
Pregnate Presentation for Sprint 6. Refactioning HW for better compactitions. New Informations in IRAA (Compacting HW for better compactition). New Informations in IRAA (Compacting HW for IRAA (COMP	IOT-10 IOT-11 IOT-112 IOT-109 IOT-100 IOT-100 IOT-101 IOT-9 IOT-90 IOT-90 IOT-91 IOT-91 IOT-91 IOT-91 IOT-91 IOT-101 IOT-91 IOT-101 IO	Task Epic Task Task Sub-task Sub-task Story Story Task Story Task Story Task Task Task Task Task Task Task Task	Closed To Do Closed Closed In Progress Blocked Closed	Stanislav Sirka Stanislav Sirka Stanislav Sirka Igor Labát Igor Labát Miroslav Sabo Stanislav Sirka Stanislav Sirka Stanislav Sirka Stanislav Sirka Stanislav Sirka Stanislav Sirka	RTU to be able to test ComoNeo digital input. Acceptance criteria: Running RTU program which sets the digital output of IOTester according configuration from CPU. 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 IOTester according configuration from CPU. Create methodic for: * Meeting Documentation * Meeting Documentation * Code versioning - done * Code versioning - done * Code versioning - done * Web done	107-2 107-2 107-2 107-2 107-2				IOT Sprint 3	IOT Sprint 4 IOT Sprint 4	IOT Sprint 5	IOT Sprint 6		8.0	documentation implementation analysis analysis analysis
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Prepare Presentation for Sprint 6 Refactioning HW for better compacting HW for high section of the Sprint 6 Start (June 1997) and HW for stands dispical section of the Sprint 6 Start (June 1997) and HW for high section HW for	IOT-10 IOT-10 IOT-10 IOT-102 IOT-100 IOT-100 IOT-100 IOT-90 IOT-90 IOT-90 IOT-91 IOT-91 IOT-92 IOT-26 IOT-12 IOT-14 IOT-14	Task Epic Task Task Sub-task Sub-task Story Task Story Task Story Task Story Task Task Task Task Task Task Task Task	Closed To Do Closed Closed In Progress Blocked Closed	Stanislav Sirka Stanislav Sirka Stanislav Sirka Igor Labát Igor Labát Igor Labát Stanislav Sirka Stanislav Sirka	RTU to be able to test ComoNeo digital input. Acceptance criteria: Running RTU program which sets the digital output of IOTester according configuration from CPU. As a user I want to be able to set digital output from TPU to be able to test ComoNeo digital input. Acceptance criteria: Running RTU program which sets the digital output of IOTester according configuration from CPU. **Acceptance criteria: Running RTU program which sets the digital output of IOTester according configuration from CPU. ***Exercising borumentation **Index incompared done **Methodics - done ***Methodics - done ***Methodics - done ***Methodics - done ***Web - done ***As a user I need to configure real time simulation to run various simulations.	107-2 107-2 107-2 107-2 107-2		IOT Sprint 1	IOT Sprint 2	IOT Sprint 3	IOT Sprint 4 IOT Sprint 4	IOT Sprint 5	IOT Sprint 6		8.0	documentation implementation analysis analysis analysis
Freguer Presentation for Sprint 6. Refactioning HW for better compactines. New Informations in IRA (Inc.) Program for State 1. Sprint 5 Start 1. Sprint 5 St	IOT-10 IOT-11 IOT-112 IOT-109 IOT-100 IOT-100 IOT-101 IOT-9 IOT-90 IOT-90 IOT-91 IOT-91 IOT-91 IOT-91 IOT-91 IOT-101 IOT-91 IOT-101 IO	Task Epic Task Task Sub-task Sub-task Story Story Task Story Task Story Task Task Task Task Task Task Task Task	Closed To Do Closed Closed In Progress Blocked Closed	Stanislav Sirka Stanislav Sirka Stanislav Sirka Igor Labát Igor Labát Miroslav Sabo Stanislav Sirka Stanislav Sirka Stanislav Sirka Stanislav Sirka Stanislav Sirka Stanislav Sirka	RTU to be able to test ComoNeo digital input. Acceptance criteria: Running RTU program which sets the digital output of IOTester according configuration from CPU. As a user I want to be able to set digital output from RTU to be able to test digital output from RTU to be able to test ComoNeo digital input. Acceptance criteria: Acceptance criteria: Redeting Documentation *Tasks management -done *Methodics -done *Code versioning -done *Code versioning -done *Web- drove *Web- drove *Acceptance criteria:	107-2 107-2 107-2 107-2 107-2		IOT Sprint 1		IOT Sprint 3	IOT Sprint 4 IOT Sprint 4	IOT Sprint 5	IOT Sprint 6		8.0	documentation implementation analysis analysis analysis
Prepare Presentation for Sprint 6 Refactioning HW for better compactitions. New Informations in IRA. Compacting Compactin	IOT-10 IOT-10 IOT-10 IOT-102 IOT-100 IOT-100 IOT-100 IOT-90 IOT-90 IOT-90 IOT-91 IOT-91 IOT-92 IOT-26 IOT-12 IOT-14 IOT-14	Task Epic Task Task Sub-task Sub-task Story Task Story Task Story Task Story Task Task Task Task Task Task Task Task	Closed To Do Closed Closed In Progress Blocked Closed	Stanislav Sirka Stanislav Sirka Stanislav Sirka Igor Labát Igor Labát Igor Labát Stanislav Sirka Stanislav Sirka	RTU to be able to test ComoNeo digital input. Acceptance criteria: Running RTU program which sets the digital output of IOTester according configuration from CPU. As a user I want to be able to set digital output from RTU to be able to test digital output from RTU to be able to test ComoNeo digital input. Acceptance criteria: Running RTU program which sets the digital output of IOTester according configuration from CPU. Create methodic for: **Meeting Documentation **Tasks management - done **Code versioning - done **Code versioning - done **Code versioning - done **Acceptance criteria: RTU and CPU prototype is running on Beaglebone Linux occords.	107-2 107-2 107-2 107-2 107-2		IOT Sprint 1	IOT Sprint 2	IOT Sprint 3	IOT Sprint 4 IOT Sprint 4	IOT Sprint 5	IOT Sprint 6		8.0	documentation implementation analysis analysis analysis
Prepare Presentation for Sperit 6 Refactioning HW for better compacting HW for Sperint 6 Start Londerstands distychain concept Basic understanding of DAC Understand from the DAC DAC Understand from the DAC	IOT-10 IOT-10 IOT-10 IOT-102 IOT-100 IOT-100 IOT-100 IOT-90 IOT-90 IOT-90 IOT-91 IOT-91 IOT-92 IOT-26 IOT-12 IOT-14 IOT-14	Task Epic Task Task Sub-task Sub-task Story Task Story Task Story Task Story Task Task Task Task Task Task Task Task	Closed To Do Closed Closed In Progress Blocked Closed	Stanislav Sirka Stanislav Sirka Stanislav Sirka Igor Labát Igor Labát Igor Labát Stanislav Sirka Stanislav Sirka	RTU to be able to test ComoNeo digital input. Acceptance criteria: Running RTU program which sets the digital output of IOTester according configuration from CPU. As a user I want to be able to set digital output from RTU to be able to set digital output from RTU to be able to set digital output from RTU to be able to set digital output from RTU to be able to set digital output from RTU to be able to set digital output from RTU to be able to set digital output of IOTEST according configuration from CPU. Acceptance criteria: Running RTU program which sets the digital output of IOTEST according configuration from CPU. Talks management done *Methodics - done *Methodics - done *Web - done *Web - done *As user I need to configure real time simulation to run versions ceriteria: RTU and CPU prototype is running on Beaglebone Linux console. *As a user I need to do a real time simulation to be	107-2 107-2 107-2 107-2 107-2		IOT Sprint 1	IOT Sprint 2	IOT Sprint 3	IOT Sprint 4 IOT Sprint 4	IOT Sprint 5	IOT Sprint 6		8.0	documentation implementation analysis analysis analysis
Frequentation for Sprint 6. Refactioning HW for better compactitions. New Informations in IRA. New Informations in IRA. New Informations in IRA. On the IRA. Sprint 6. Start 1. Sprint 6. Sprint 6. Start 1. Sprint 6. Sprint	IOT-10 IOT-10 IOT-10 IOT-102 IOT-100 IOT-100 IOT-100 IOT-90 IOT-90 IOT-90 IOT-91 IOT-91 IOT-12 IOT-12 IOT-14 IOT-14 IOT-17	Task Epic Task Task Sub-task Sub-task Story Task Story Task Story Task Story Task Task Task Task Task Task Task Task	Closed To Do Closed Closed In Progress Blocked Closed Closed	Stanislav Sirka Stanislav Sirka Stanislav Sirka Igor Labát Igor Labát Igor Labát Stanislav Sirka Stanislav Sirka	RTU to be able to test ComoNeo digital input. Acceptance criteria: Running RTU program which sets the digital output of IOTester according configuration from CPU. 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 IOTester according configuration from CPU. Create methodics - done **Methodics - done **Web-b-done **Acceptance criteria: Running RTU program which sets the digital output of IOTester according configuration from CPU. Create methodics - done **Methodics - done **Web-b-done **Acceptance criteria: RUN und CPU prototype is running on Beaglebone Linus currel need.	107-2 107-2 107-2 107-2 107-2		IOT Sprint 1 IOT Sprint 1	IOT Sprint 2	IOT Sprint 3 IOT Sprint 3	IOT Sprint 4 IOT Sprint 4	IOT Sprint 5	IOT Sprint 6		8.0 8.0 3.0	documentation implementation analysis analysis analysis
Prepare Presentation for Sprint 6 Refactioning HW for better compacting HW for high section of the Sprint 6 Start (June 1997) and HW for stands dispical section of the Sprint 6 Start (June 1997) and HW for high section HW for	IOT-10 IOT-10 IOT-10 IOT-102 IOT-100 IOT-100 IOT-100 IOT-90 IOT-90 IOT-90 IOT-91 IOT-91 IOT-92 IOT-26 IOT-12 IOT-14 IOT-14	Task Epic Task Task Sub-task Sub-task Story Task Story Task Story Task Story Task Task Task Task Task Task Task Task	Closed To Do Closed Closed In Progress Blocked Closed	Stanislav Sirka Stanislav Sirka Stanislav Sirka Igor Labát Igor Labát Igor Labát Stanislav Sirka Stanislav Sirka	RTU to be able to test ComoNeo digital input. Acceptance criteria: Running RTU program which sets the digital output of IOTester according configuration from CPU. 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 IOTester according configuration from CPU. Create methodic for: * Meeting Documentation * Taiks inasparent done * Methodics: done * Wethodics: done * Wethodics: done * Wethodics: done * Wethod one	107-2 107-2 107-2 107-2 107-2		IOT Sprint 1 IOT Sprint 1	IOT Sprint 2	IOT Sprint 3 IOT Sprint 3	IOT Sprint 4 IOT Sprint 4	IOT Sprint 5	IOT Sprint 6		8.0	documentation implementation analysis analysis analysis
Fregare Presentation for Sprint 6. Reductions from Sprint 6. Reductions from Freduction for Sprint 6. Reductions from Freduction from Freducti	IOT-10 IOT-10 IOT-10 IOT-102 IOT-100 IOT-100 IOT-100 IOT-90 IOT-90 IOT-90 IOT-91 IOT-91 IOT-12 IOT-12 IOT-14 IOT-14 IOT-17	Task Epic Task Task Sub-task Sub-task Story Task Story Task Story Task Story Task Task Task Task Task Task Task Task	Closed To Do Closed Closed In Progress Blocked Closed Closed	Stanislav Sirka Stanislav Sirka Stanislav Sirka Igor Labát Igor Labát Igor Labát Stanislav Sirka Stanislav Sirka	RTU to be able to test ComoNeo digital input. Acceptance criteria: Running RTU program which sets the digital output of IOTester according configuration from CPU. 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 IOTester according configuration from CPU. Create methodics - done **Methodics - done **Web-b-done **Acceptance criteria: Running RTU program which sets the digital output of IOTester according configuration from CPU. Create methodics - done **Methodics - done **Web-b-done **Acceptance criteria: RUN und CPU prototype is running on Beaglebone Linus currel need.	107-2 107-2 107-2 107-2 107-2		IOT Sprint 1 IOT Sprint 1	IOT Sprint 2	IOT Sprint 3 IOT Sprint 3	IOT Sprint 4 IOT Sprint 4	IOT Sprint 5	IOT Sprint 6		8.0 8.0 3.0	documentation implementation analysis analysis analysis

					As a user I want try the latest changes of the IoTester firmware.										
Jenkins pipeline for															
installation image	IOT-88	Story	To Do		Acceptance criteria: * Jenkins pipeline which will be trigerred by the	IOT-89									
					change in a giit branch and will compose the IoTester										
Create Project					firmware										
Specification	IOT-25	Task	Closed	Lukáš Ondriga											documentation
Analyze, design, implement REST API	IOT-40	Epic	To Do				REST API								
Manager 1971															
for PCB design	IOT-53	Task	Closed	Lukáš Ondriga						IOT Sprint 3					
Create Document for	IOT-52	Task	Closed	Stanislav Širka						IOT Sprint 3					documentation
Passas Managment															
End	IOT-79	Task	Closed	Stanislav Širka						IOT Sprint 3					
	IOT-50	Task	Closed	Stanislav Širka						IOT Sprint 3					
Changes	IOT-51	Task	Closed	Stanislav Širka						IOT Sprint 3					documentation
REST API Prototype	IOT-10	Story	Closed	Tomáš Bujna	As a user of IOTester! want to have interface to set the Como digital input to be able to configure IOTester. Acceptance criteria: **working webserver on beagleboard** *implemented simple post request with value of digital input (0 or 1) **post request securition is logged to the console	IOT-2				IOT Sprint 3				3.0	
					As a test developer I want to have a library to use										
					IOTester										
Robot Framework LIB	ЮТ-11	Story	Closed	Marián Ján Franko	Acceptance oriteria: * python module * python module * python set Como digital inputs are implemented MINT-A implementation of the keywords are POST requests to the IOTiester POST request is implemented An http://link.ketic.com/browse/iOT-10	IOT-2				IOT Sprint 3				5.0	
Port IoTester specification	IOT-54	Task	Closed	Lukáš Ondriga	THE HELP STILL HOLD BY SELECT TO					IOT Sprint 3					
to Jira	101 54	1025	Ciosca	LUNUS CHUNGO	As a user I want to test the ComoNeo digital input.					101 Sprint S					
Create a Test	IOT-12	Story	Closed	Marián Ján Franko	Acceptance oriteria: Test configures loTester (library for loTester configuration will be implemented in different user story) Test checks the ComoNeo web application if the digipal input was set. A	IOT-2		IOT Sprint 1	IOT Sprint 2	IOT Sprint 3				13.0	
Analyze Board	IOT-3	Story	Closed	Miroslav Sabo	As a hardware engineer I need to analyse the current board to be able to make the final design. Acceptance criteria: Document the current design of the board.	IOT-1		IOT Sprint 1	IOT Sprint 2					8.0	
Close Sprint 1	IOT-48	Task	Closed	Stanislav Širka	Close sprint 1.				IOT Sprint 2						
					Export tasks from Jira.										
Create Team Website Print User Stories	IOT-30	Story Task	Closed	Tomáš Bujna Stanislav Širka				IOT Sprint 1						8.0	
Choose Web Server	IOT-15	Task	Closed	Rastislav Kováč		IOT-2		IOT Sprint 1							
Technology for Linux	IOT-6	Story	Closed	Rastislav Kováč	As a developer I want to select frameworks/technologies to be able to write REST API for BeagleBone Black real time unit configurations. Acceptance criteria:	IOT-2		IOT Sprint 1						5.0	
Create Methodic for	107 :-	To 1	Class 1	Charlet X	Document 3 alternatives with pros and cons.			IOT C							decree 1 11
Methodics Document	IOT-45	Task	Closed	Stanislav Širka				IOT Sprint 1							documentation
Export Data From Jira - Sprint 1 Start	IOT-46	Task	Closed	Stanislav Širka				IOT Sprint 1							
	IOT-20	Task Task	Closed	Stanislav Širka	Subtasks left: * Create Sprint - done * Add tasks to Sprint - done * Add task owners - done			IOT Sprint 1							
anare Google Drive	/U1-24	Task	Closed	Stanislav Širka											
Write TP1 Requirements	IOT-32		COUCU												
	IOT-32		Closed	Stanislav Širka											
Study SCRUM Create Team Chat	IOT-33 IOT-23	Task Task	Closed Closed	Stanislav Širka											
Study SCRUM Create Team Chat Update Trello	IOT-33 IOT-23 IOT-31	Task Task Task	Closed	Stanislav Širka Stanislav Širka											damen
Study SCRUM Create Team Chat Update Trello Decleration Documents	IOT-33 IOT-23 IOT-31 IOT-27	Task Task Task Task	Closed Closed Closed	Stanislav Širka											documentation
Study SCRUM Create Team Chat Update Trello Decleration Documents Study Poker Cards	IOT-33 IOT-23 IOT-31 IOT-27 IOT-34 IOT-35	Task Task Task Task Task Task Task	Closed Closed Closed	Stanislav Širka Stanislav Širka Stanislav Širka											documentation