TAC Meeting

8 June 2021

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Opening (5 Minutes)

• Summary of last TAC meeting & Updates from the Board Meeting

TAC Business (60 Minutes)

RIAPS Annual Review

Events & Marketing Update (5 Minutes)

Open Discussion



Summary of last TAC meeting

Updates from the Board





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JLFENERGY

Annual Review for RIAPS



Brief Description:

The Resilient Information Architecture Platform for the Smartgrid is designed for distributed control, security, and resiliency. Applications that run on the platform can manage microgrids, implement blockchain energy trading, and a wide variety of other functions.

TSC Chairperson:

Gabor Karsai, <u>gabor.karsai@vanderbilt.edu</u>

TSC Members and Affiliations:

Srdjan Lukic, NC State; Mary Metelko, Vanderbilt

Contributed by:

Vanderbilt University and NC State University





Key Links:

Github: github.com/RIAPS

Website: riaps.isis.vanderbilt.edu

Artwork: N/A

Mailing lists:

- riaps
- riaps-announce
- riaps-dev
- riaps-tsc

CII Badge URL: N/A



RIAPS Community

- Not growing fast. Mostly the original developers from two universities.
- Technical development continues with additional research funding from US DOE and US DOD.
- Planned pilot deployment on DOD base next year.



Technical Governance

- TSC has fewer than 5 members
- Not yet pursuing CII badge



Commits

Go To Overview

21	.70K		10050.05				
Lines	Of Code Changed	NAME	LINES OF CODE	COMMITS	%		
		Mary Metelko	17.15K	65	79.05%		
75 Commits		Gabor Karsai	4.38K	5	20.18%		
	5 Contributors	purboday	145	4	0.67%	75	
		Scott Eisele	23	1	0.11%	Commits	
1 No Of Sub Projects	10 And Repositories					Vanderbilt University	



Pull Requests

PULL REQUESTS / CHANGESETS

Gerrit Go To Overview

	7 Pull Requests
	O A Time To Merge
O Time In Open	O Open Pull Requests

op 10 Contributors	s By PRs	View All
NAME	PULL REQUESTS	%
purboday	4	57.14%
Mary Metelko	3	42.86%

ILFENERGY

Organizations contributing and/or using in production





VANDERBILT UNIVERSITY®



Growth Plan

- Release Plans
 - U20.04 release: Jun 2021
 - Updates for additional security controls: Aug 2021
 - Regular updates: 2x year
- Target End Users
 - Software developers in 'Power OT' industry
- Regulations and Standards for Deployment
 - Platform: Ubuntu 20.04
 - NIST 800-82 (ICS Security)
- Growth in Contributors and Committer
 - Current developers supported by university project until 12/2022

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Key Achievements in the past year

- New interfaces developed:
 - Simulators: OpenDSS, GRIDLAB-D, Simulink/Stateflow
 - Physical protocols: MODBUS, NCSU/FREEDM (web)
 - Generic interface to archive time-series data
 - Generic web-based GUI
- Energy management application for microgrid (example)
 - Loads: ChargePoint EV Charger, Building Management System, Battery Energy Storage System
 - Machine-learning based predictive models
 - Control algorithm based on optimization algorithm

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Key Achievements in the past year

- RIAPS discovery service
 - Distributed version reimplemented in Python
- RIAPS desktop development environment
 - Based on Mininet (for emulating RIAPS nodes)
- Ubuntu 20.04 release
 - Target platforms:
 - Beaglebone Black, Raspberry Pi{3,4}: armhf
 - Jetson Nano: aarch64



Areas the project could use help on

Need large corporation to adopt



Feedback on working with LF Energy

Excited by the potential

Unable to meet time commitments



TAC Open Discussion



Scheduling future project reviews

Project	Current Level	Last Review Date	Next Review Date
RIAPS	Early Adoption		June 8, 2021
Compas	Incubation		June 29, 2021
SOGNO	Early Adoption	March 16, 2021	March 8, 2022
GXF	Early Adoption		October 12, 2021
PowSyBl	Early Adoption		
OperatorFabric	Early Adoption		
OpenEEmeter	Incubation		
EM2	Early Adoption		
	Incubation		
SEAPATH	Incubation		
Hyphae	Incubation		
	Incubation		

TLFENERGY

Next meeting will be the CoMPAS review.

Will start scheduling other projects this week - please reach out with any preferences you might have.

Tracked at https://wiki.lfenergy.org/dis play/HOME/Project+Revie w+Cycle



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