



TAC Meeting

04 October 2022

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Agenda

Opening (10 Minutes)

- **Landscape updates**
- **TAC Sponsors for projects**
- **Summary of last TAC meeting**

TAC Business (75 Minutes)

- Archimate SIG Proposal
- OpenGEH Annual Review
- GXF Annual Review
- Marketing for Projects
- Open Source 101 Resources

Closing and Next Meeting (5 Minutes)

TAC Voting Members

New members in **bold**

Full Name	Account Name	Appointed By
Boris DOLLEY	RTE (Reseau de Transport dElectricite)	Vote of TSC Committee - OperatorFabric
Anne Tilloy	RTE (Reseau de Transport dElectricite)	Vote of TSC Committee - PowSyBI
Carmen Best	Recurve	Vote of TSC Committee - OpenEEmeter
Jonas van den Bogaard	Alliander	Membership Entitlement
Maarten Mulder	Alliander	Vote of TSC Committee - GXF
Benoît Jeanson	RTE (Reseau de Transport dElectricite)	Membership Entitlement
Antonello Monti	RWTH Aachen University	Vote of TSC Committee - SOGNO
Art Pope	Google	Membership Entitlement
Avi Allison	Microsoft	Membership Entitlement
Bryce Bartmann	Shell	Membership Entitlement

LF Energy Hosted Project and Working Group Leads

Changes in **bold**

Project	Project Lead(s)
PowSyBI	Anne Tilloy, RTE
OperatorFabric	Boris Dolley, RTE
OpenEEmeter	Carmen Best, Recurve
GXF	Maarten Mulder, Alliander
SOGNO	Antonello Monti, RWTH Aachen University
CoMPAS	Frederic Fouseret, RTE & Sander Jansen, Alliander (TAC Representative)
FledgePOWER	Akli Rahmoun, RTE
Hyphae	Asimena Korompili, RWTH Aachen University
openLEADR	Lonneke Driessen & Stan Janssen, OpenADR
SEAPATH	Eloi Bail, Savoir-faire Linux
Grid Capacity Map	Per Lysemose Hansen, Energinet
Shapeshifter	Jelle Wijnja, Alliander
OpenSTEF	Frank Kreuwel, Alliander
EVERest	Marco Möller, PIONIX
OpenGEH	Per Lysemose Hansen, Energinet
FlexMeasures	Nicolas Höning, Seita Energy Flexibility B.V.
OCPD Cloud Connector	Rebecca Wolkoff, Chargenet
GridLab-D	David Chassin, SLAC
Full Architecture WG (FAWG)	Benoît Jeanson, RTE
Carbon Data Specification Consortium (CDSC)	TBD

Landscape now with more project info!

We are using the LF Energy Landscape to showcase more project information:

- Mailing List/Slack Channel
- LFX Insights
- SBOM
- Wiki
- TSC Meeting Notes
- Calendar
- Contribution Guidelines

ACTION: Project leads please review your entry and ensure it is accurate; issue PR for any changes needed.



LF Energy Early Adoption LF Project

Open Source Software License Mozilla Public License

CII Best Practices 25%

Crunchbase	crunchbase.com/organization/lf-energy		
LinkedIn	linkedin.com/company/lf-energy		
Twitter	@LFE_Foundation	Latest Tweet	this week
First Commit	5 years ago	Latest Commit	3 weeks ago
Contributors	35	Headcount	1-10
Headquarters	San Francisco, California		
Mailing List	https://lists.lfenergy.org/g/sogno-discussion		
Slack Channel	#sogno		
LFX Insights	https://insights.lfx.linuxfoundation.org/projects/lfenergy%2Fsogno		
Wiki Page	https://wiki.lfenergy.org/display/HOME/SOGNO		
SBOM	https://github.com/lfscanning/spdx-lfenergy/tree/main/sogno		
TSC Meeting Notes	https://github.com/sogno-platform/tsc/tree/master/tsc/meetings		
Calendar	https://lists.lfenergy.org/g/sogno-tsc/calendar		
Contribution Guidelines	https://github.com/sogno-platform/tsc/blob/master/CONTRIBUTING.md		

TAC Sponsors for Projects

As part of the benefit for LF Energy projects, the TAC has a sponsor for each project.

“Appointment of an existing TAC member by the TAC that will act as a sponsor of the project and provide recommendations regarding governance best practices.”

ASK: Volunteer to be a TAC sponsor for a project

Project	Current Level	TAC Sponsor
CoMPAS	Incubation	
Carbon Data Specification Consortium	Standards	
Everest	Incubation	
FledgePOWER	Incubation	Benoît Jeanson
FlexMeasures	Incubation	
Full Architecture Working Group (FAWG)	Working Group	
Grid Capacity Map	Incubation	
GridLab-D	Sandbox	Antonello Monti
GXF	Early Adoption	Jonas van den Bogaard
Hyphae	Incubation	Antonello Monti
OCCP Cloud Connector	Sandbox	
OpenEEmeter	Incubation	Carmen Best
OpenGEH	Incubation	
OpenLEADR	Incubation	
OpenSTEF	Incubation	Jonas van den Bogaard
OperatorFabric	Early Adoption	Boris Dolley
PowSyBI	Early Adoption	Anne Tilloy
SEAPATH	Incubation	Benoît Jeanson
Shapeshifter	Incubation	Jonas van den Bogaard
SOGNO	Early Adoption	Antonello Monti

Interest in Energy DevRoom at FOSDEM

Nico Rikken and Boris Dolley amongst others have been having a conversation on hosting an Energy DevRoom. If you are interested, please contact them and/or join #fosdem2023 on [LFE Slack](#).



FOSDEM

Summary of Last TAC Meeting

- Meeting notes and deck at <https://wiki.lfenergy.org/display/HOME/Technical+Advisory+Council#TechnicalAdvisoryCouncil-MeetingMinutes>

Updates from the Board

Agenda

Opening (10 Minutes)

- Landscape updates
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- Summary of last TAC meeting

TAC Business (75 Minutes)

- **Archimate SIG Proposal**
- **OpenGEH Annual Review**
- **GXF Annual Review**
- **Marketing for Projects**
- **Open Source 101 Resources**

Closing and Next Meeting (5 Minutes)

Archimate SIG Proposal



OpenGEH Annual Review



GXF Annual Review





Annual Review for
GXF – Grid eXchange Fabric

GXF

Brief Description:

Grid eXchange Fabric was formerly known as the Open Smart Grid Platform (OSGP). GXF is an open, generic, scalable and independent 'Internet of Things' platform, which enables various connected smart objects in the public space to be easily controlled and monitored. Our platform allows the use of any (web)application and with any IP communication infrastructure.

TSC Chairperson:

Maarten Mulder - Product Owner - LF Energy TAC member

maarten.mulder@alliander.com

TSC Members and Affiliations:

[Robert Tusveld](#) - Architect

[Paul Houtman](#) - Architect

[Kevin Smeets](#) - Maintainer

Key Links:

Github: <https://github.com/OSGP>

Website: <https://www.lfenergy.org/projects/gxf/>

Mailing lists: <https://lists.lfenergy.org/g/gxf>

CII Badge URL: <https://bestpractices.coreinfrastructure.org/en/projects/4104>

Contributed by:

 AI & DATA

Contributions

Select Time Range (Last 1 Year)

SOURCE CONTROL

Commits

[Go To Overview](#)



Top 10 Contributors By Commits

[View All](#)

NAME	LINES OF CODE	COMMITTS	%
Gerben Kroes	28.45K	207	16.34%
Jenkins Buildserv...	9.72K	152	5.58%
stefanermens	17.11K	151	9.83%
sanderv	5.87K	124	3.37%
Harry Middelburg	22.95K	113	13.18%
Natasja Nortier	6.74K	97	3.87%
Marcel Jansen	3.52K	76	2.02%
Bart van der Zwet	29.23K	68	16.79%
laco Bonn	9.22K	64	5.29%

Top 10 Organizations By Commits

[View All](#)



Organizations contributing and/or using in production



Growth plan

- Role out Low Voltage Measurements (From 250 to + 20.000 devices).
- Working in the connection of a Gateway device.
- To enable OS Smart Meter Head End applications - first focus on National collaboration.
- Containerization available for the community (Documentation).
- Working on OpenSSF Best Practices badge at the ['Gold' level](#).
- Move to the Graduation stage.

Early Adoption/Graduation Project review criteria

To be accepted into the Graduation stage, a project must meet the Early Adoption stage requirements plus:

- Have a defined governing body of at least 5 or more members (owners and core maintainers), of which no more than 1/3 is affiliated with the same employer. In the case there are 5 governing members, 2 may be from the same employer.
>> Working on by exploring the cooperation on Smart Meter Head End with other DSO's. The goal is to share the GXF platform as core platform.
- Have fulfilled or are on track to complete the growth plan defined in the Early Adoption stage proposal.
>> Done, next year we will focus on the Graduation stage.
- Have a healthy number of contributions or committers from at least three organizations, with any one organization not composing more than 50% of the contributions or committers. Committers must be identified within the project in a COMMITTERS file.
>> Depending on the cooperation with the DSO's.
- Have a public list of project adopters for at least the primary repo (e.g., ADOPTERS.md or logos on the project website).
>> N/A yet.
- Achievement of the Core Infrastructure Initiative Best Practices badge at the Gold level.
>> Focus for next year.
- Present to the TAC and the Governing Board on the fulfillment of these requirements.
>> TAC is done, GB is depending on the interest from the OS market.
- Receive a 2/3 majority vote from the TAC and majority vote of the Governing Board to move to Graduated stage. Projects can move directly from Incubation to Graduated status if they can demonstrate sufficient maturity and have met all requirements.
>> We plan to stay in the early adoption state this year and for next year our goal is to make a move.

Key Achievements in the past year

- New chain to production, Low Voltage Measurements via MQTT
- Build environment updated
- SMHE +2.000.000 devices connected

- Containerization
- Generic Helmchart

The slide is titled "Alliander Use-cases" and features the "DLF ENERGY GXF" logo. It includes a "Get the guide" button and an "Overview" diagram showing a central cloud icon connected to various device icons. Three red starburst callouts provide key statistics: "20.000 devices in production", "200.000 devices and scaling up to 6.000.000 meters", and "250 devices in a new DA chain via MQTT". Below these are three green-bordered sections: "Public Lighting" with a night cityscape photo, "Smart Metering" with a photo of a smart meter and a Dutch headline "Hoe zit het met de slimmere meter?", and "Low Voltage Measurements" with a photo of a control room and a data visualization graph.

Areas the project could use help on

Phase 1 - GXF Open Source, SMHE Application(s) Closed Source

Help with the first steps to be taken for national cooperation via OpenSources.

Phase 2 - GXF Open Source, SMHE Application(s) Open Source

Help shape a suitable organization so that we can continue to focus on further development.

Feedback on working with LF Energy

Open Source is getting more and more attention. Also the government of the Netherlands starts to believe in the benefits from Open Source. So keep up the good work.

However it is important to manage the negative sites of Open Source towards interested parties. Think of Security, Hackers, etc... Trust is key.

TAC Open Discussion

Project Review Cycle

Project	Current Level	Initially Accepted	Last Review Date	Next Review Date
GXF	Early Adoption	February 4, 2020	October 12, 2021	October 4, 2022
OpenGEH	Incubation	October 12, 2021		October 4, 2022
OpenSTEF	Incubation	September 21, 2021		October 25, 2022
SEAPATH	Incubation	October 6, 2020	November 23, 2021	October 25, 2022
FlexMeasures	Incubation	November 2, 2021		November 15, 2022
PowSyBI	Early Adoption	April 30, 2019	August 31, 2021	November 15, 2022
EVERest	Incubation	October 12, 2021		December 6, 2022
OpenLEADR	Incubation	September 15, 2020	November 23, 2021	December 6, 2022
Hyphae	Incubation	December 8, 2020	December 14, 2021	January 17, 2023
Full Architecture Working Group (FAWG)	Working Group		January 25, 2022	January 17, 2023
Data Architecture Working Group (DAWG)	Working Group		January 25, 2022	January 17, 2023
FledgePOWER	Incubation	February 11, 2021	February 15, 2022	February 28, 2023
SOGNO	Early Adoption	October 27, 2020	March 8, 2022	March 21, 2023
OCP Cloud Connector	Sandbox	March 8, 2022		March 21, 2023
Shapeshifter	Incubation	April 6, 2021	April 19, 2022	April 11, 2023
Grid Capacity Map	Incubation	April 27, 2021	July 12, 2022	June 18, 2023
OperatorFabric	Early Adoption	April 30, 2019	June 21, 2022	June 20, 2023
CoMPAS	Incubation	May 5, 2020	July 12, 2022	June 20, 2022
OpenEEmeter	Incubation	June 4, 2019	September 13, 2022	September 26, 2023

Marketing for Projects



Marketing and PR Updates

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- Digital transformation readiness research survey is currently in the field through Oct 31
 - Please help us promote this- marketing kit available [here](#)
- Interview with Shuli featured in the [Press Democrat](#) newspaper in California
- Shuli was also interviewed by UtilityDive about the tech stack needed to achieve the energy transition; awaiting publication
- Three interviews were arranged at Open Source Summit in Dublin for LF Energy members onsite
 - [TechStrong.tv](#)
 - Awaiting publication of other two
- Virtual member event to take place November 17, 2022 at 8am PT/11am ET/5pm CET
- Planning also in progress for in person LF Energy Summit in Amsterdam, April 20-21, 2023
- Linux Foundation annual report currently in development; LFE has provided several pages of content for the report
- Please reach out to me directly with any content you would like our help in promoting or with ideas for announcements, blogs, etc.
- Case study submission form now available for members and end users
 - Feel free to submit your stories or encourage your end users to do so at <https://www.lfenergy.org/case-study/submit>

Open Source 101 Resources



Open Source 101 Resources

- TODO Group OSPO 101 Course - <https://github.com/todogroup/ospo101>
 - This GitHub repository offers a written overview of open source basics including compliance, copyright/licensing, development practices, business strategy and more
 - Also includes significant details on how to build an Open Source Program Office (OSPO) which may not be relevant for all audiences
- Free online training courses from LF Training & Certification - <https://training.linuxfoundation.org/open-source-best-practice/>
 - [A Beginner's Guide to Open Source Software Development \(LFD102\)](#)
 - The course covers the who (successful projects and communities), what (definition), why (benefits), where (Git) and how (licensing, compliance, collaboration tips, managing diversity and continuous development & integration) of developing open source software
 - [Inclusive Open Source Community Orientation \(LFC102\)](#)
 - Gain essential background knowledge and practical skills to create an inclusive culture in the open source community

Open Source 101 Resources

- Free online training courses from LF Training & Certification -
<https://training.linuxfoundation.org/open-source-best-practice/>
 - [Inclusive Strategies for Open Source \(LFC103\)](#)
 - Learn effective strategies for creating inclusive open source communities and code bases
 - [Ethics for Open Source Development \(LFC104\)](#)
 - Learn to operationalize ethics as a tool for efficient and effective decision-making when developing and using open source technology
 - [Fundamentals of Professional Open Source Management \(LFC110\)](#)
 - Get a multidisciplinary overview of best practices in open source software management
 - [Developing Secure Software \(LFD121\)](#)
 - Learn the security basics to develop software that is hardened against attacks, and understand how you can reduce the damage and speed the response when a vulnerability is exploited

Open Source 101 Resources

- Free online training courses from LF Training & Certification -
<https://training.linuxfoundation.org/open-source-best-practice/>
 - [Open Source Licensing Basics for Software Developers \(LFC191\)](#)
 - Helps software developers and producers understand why and how to add copyrights and licenses to their code
 - [Generating a Software Bill of Materials \(LFC192\)](#)
 - Learn to identify the minimum elements for a Software Bill of Materials, plus an overview of open source tooling available to support the generation and consumption of an SBOM
 - [Introduction to Open Source License Compliance Management \(LFC193\)](#)
 - Learn the basic concepts and approaches needed for an open source compliance program
 - [Implementing Open Source License Compliance Management \(LFC194\)](#)
 - Explore how an open source compliance management system should be structured and implemented to be most effective

Recommended Open Source 101 Curriculum

Everyone including development teams and business executives who touch open source should complete the following:

- [A Beginner's Guide to Open Source Software Development \(LFD102\)](#)
- [Inclusive Open Source Community Orientation \(LFC102\)](#)
- [Introduction to Open Source License Compliance Management \(LFC193\)](#)

Developers should also complete:

- [Developing Secure Software \(LFD121\)](#)
- [Open Source Licensing Basics for Software Developers \(LFC191\)](#)
- [Generating a Software Bill of Materials \(LFC192\)](#)

Managers should also complete:

- [Fundamentals of Professional Open Source Management \(LFC110\)](#)

Everyone should bookmark the [TODO Group OSPO 101 repo](#) as a resource.

Additional Info for Those Setting up OSPOs

Organizations that are building out an OSPO may also want to consider the following resources:

- [TODO Group Guides and Resources](#)
 - TODO is an open community of practitioners who aim to create and share knowledge, collaborate on practices, tools, and other ways to run successful and effective Open Source Program Offices or similar Open Source initiatives. TODO Group is formed by its Community participants and General Members.
 - The TODO Group offers a Maturity Model, a set of Guides, a Mind Map, a 101 Course, Annual Surveys, as well as Case Studies, to help organizations advance in their OSPO journey. These OSPO resources are developed by the TODO Group in collaboration with The Linux Foundation and the larger open source community.
- [Open Source Management & Strategy 7 Course Training Series from LF Training & Certification](#)
 - This 7-module course series builds on the accumulated wisdom of many previous training modules on open source best practices, while adding fresh and updated content to explain all of the critical elements of working effectively with open source in your enterprise. The courses are designed to be self-paced, and reasonably high-level, but with enough detail to get new open source practitioners up and running quickly.
 - Cost is \$499 per enrollment (discounts available to LF members).

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Closing and Next Meeting (5 Minutes)

Next TAC Meeting

The next meeting of the LF Energy TAC is scheduled for 25 October 2022 at 8:00 am US Pacific Time/11:00 am US Eastern Time/5:00 pm Central European Time.

NOTE: *New meeting invite for series titled 'LF Energy TAC meeting (2022)' from 'LF Energy (LFE) - Meetings <meetings@lfx.linuxfoundation.org>'. Register for meeting at: <https://zoom-lfx.platform.linuxfoundation.org/meeting/98588947265>*
Please remove all other meeting invites.

Agenda will include:

- Recap of last TAC and Governing Board meeting
- SEAPATH Annual Review
- OpenSTEF Annual Review



Thank you!