



TAC Meeting

8 March 2022

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# Agenda

## Opening (25 Minutes)

- **Landscape updates**
- **TAC Sponsors for projects**
- **Summary of last TAC meeting & Updates from the Board Meeting**

## TAC Business (50 Minutes)

- OCPP Cloud Connector
- SOGNO Annual Review
- Standards Project and Working Group Lifecycle Proposal

## Outreach updates (10 Minutes)

## Closing and next meeting (5 Minutes)

# TAC Voting Members

New members in **bold**

<b>Full Name</b>	<b>Account Name</b>	<b>Appointed By</b>
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
Arjan Stam	Alliander	Membership Entitlement
Jonas van den Bogaard	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
<b>Art Pope</b>	<b>Google</b>	<b>Membership Entitlement</b>

# 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	Jonas van den Bogaard, 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	Martin F. Hansen, Energinet
FlexMeasures	Nicolas Höning, Seita Energy Flexibility B.V.
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	more... total: 52
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	<a href="https://lists.lfenergy.org/g/sogno-discussion">https://lists.lfenergy.org/g/sogno-discussion</a>	
Slack Channel	#sogno	
LFX Insights	<a href="https://insights.lfx.linuxfoundation.org/projects/lfenergy%2Fsogno">https://insights.lfx.linuxfoundation.org/projects/lfenergy%2Fsogno</a>	
Wiki Page	<a href="https://wiki.lfenergy.org/display/HOME/SOGNO">https://wiki.lfenergy.org/display/HOME/SOGNO</a>	
SBOM	<a href="https://github.com/lfscanning/spdx-lfenergy/tree/main/sogno">https://github.com/lfscanning/spdx-lfenergy/tree/main/sogno</a>	
TSC Meeting Notes	<a href="https://github.com/sogno-platform/tsc/tree/master/tsc/meetings">https://github.com/sogno-platform/tsc/tree/master/tsc/meetings</a>	
Calendar	<a href="https://lists.lfenergy.org/g/sogno-tsc/calendar">https://lists.lfenergy.org/g/sogno-tsc/calendar</a>	
Contribution Guidelines	<a href="https://github.com/sogno-platform/tsc/blob/master/CONTRIBUTING.md">https://github.com/sogno-platform/tsc/blob/master/CONTRIBUTING.md</a>	

# 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	
GXF	Early Adoption	Jonas van den Bogaard
Hyphae	Incubation	Antonello Monti
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

# 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



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- **Standards Project and Working Group Lifecycle Proposal**

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# OCPP Cloud Connector Proposal Presentation

# SOGNO Annual Review

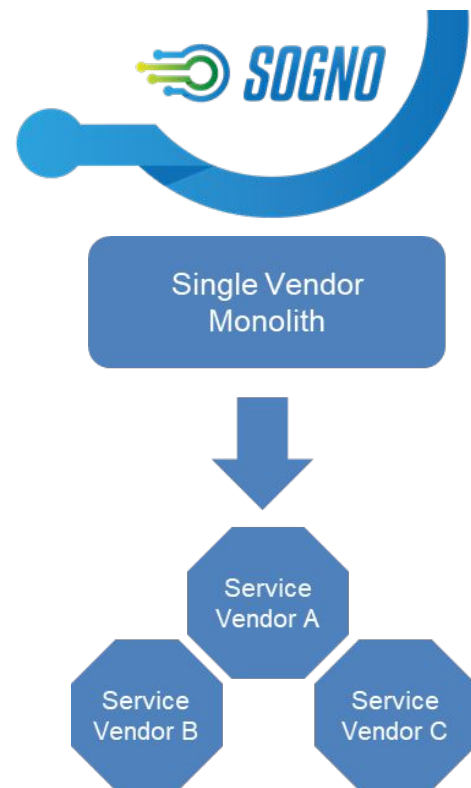


Service-based Open-source Grid automation platform for Network Operators

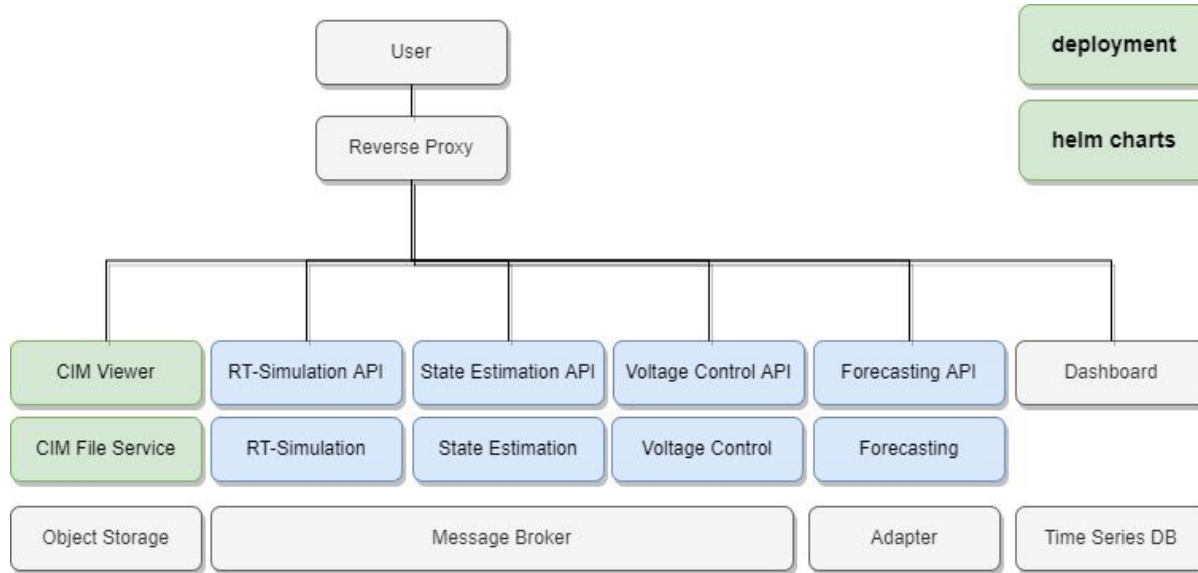
**TAC Annual Review 2022**

# SOGNO Motivation

- Conventional / Monolithic approach
  - System automation as monolithic software
  - Product procurement from one of few established providers
- SOGNO / Microservices approach
  - Flexible access to system automation via private / public cloud
  - Service procurement from one or more providers without vendor lock-in
  - Multiple suppliers of measurement devices and algorithms

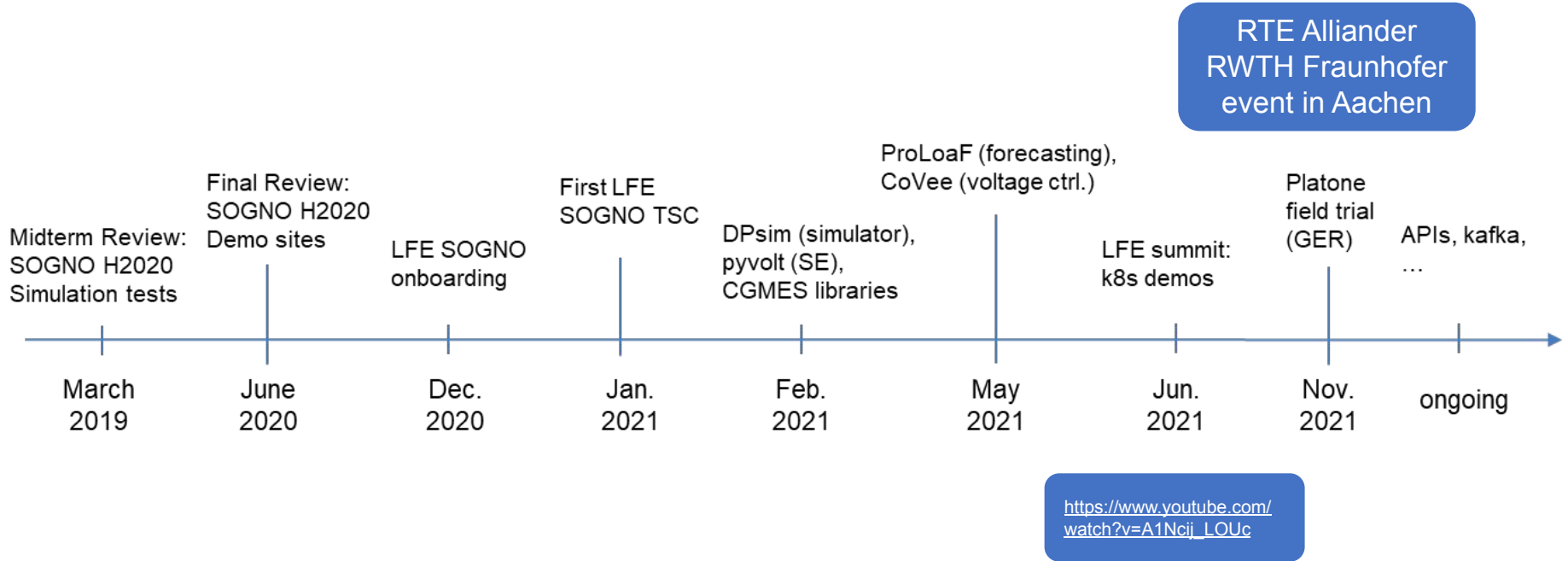


# SOGNO Concept

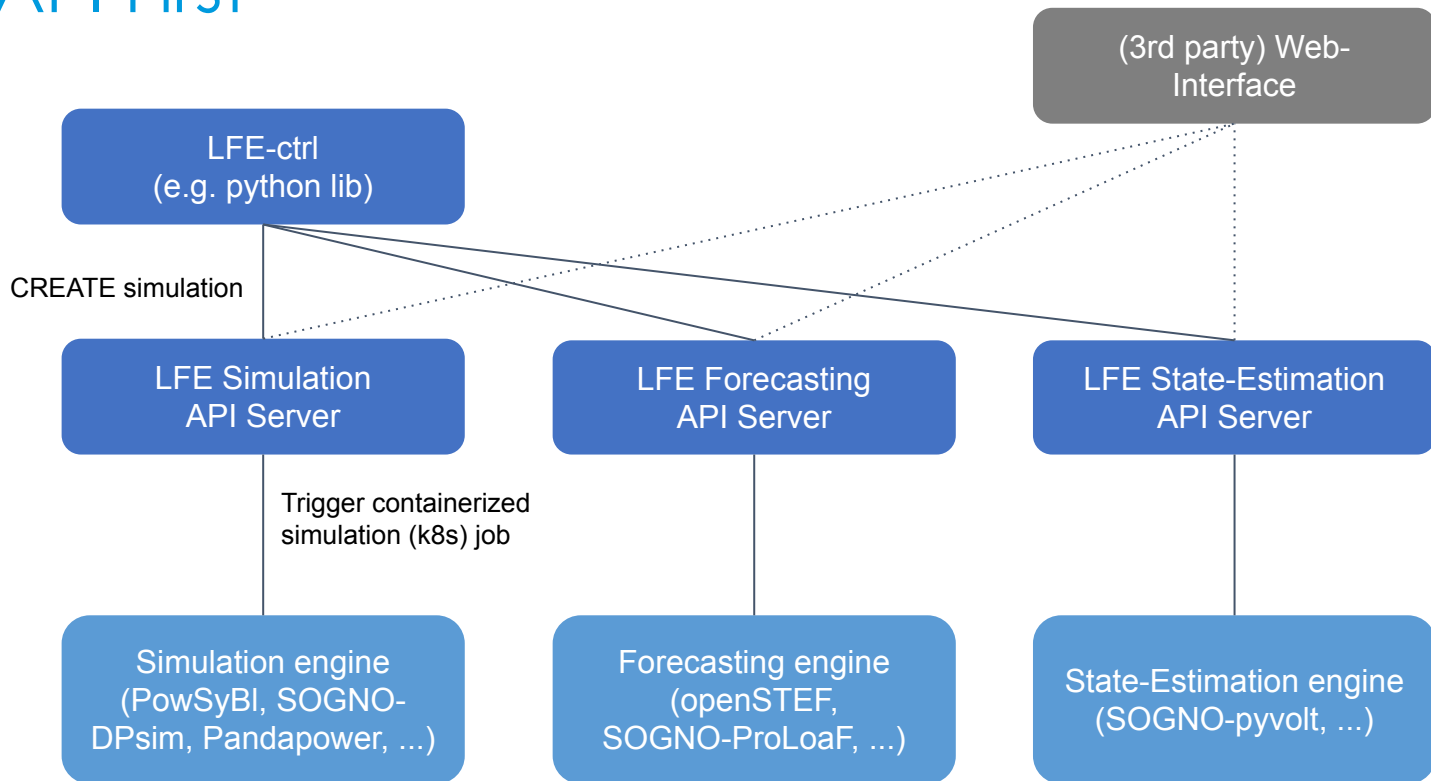


- Cloud-native **microservices** for next gen. data-driven monitoring & control systems
- Services communicate via **HTTP, MQTT, AMQP** using **standard data models** (CIM/CGMES)
- Real-time simulation for rapid prototyping and testing of automation functions
- <https://sogno.energy/docs/overview/>

# SOGNO Timeline

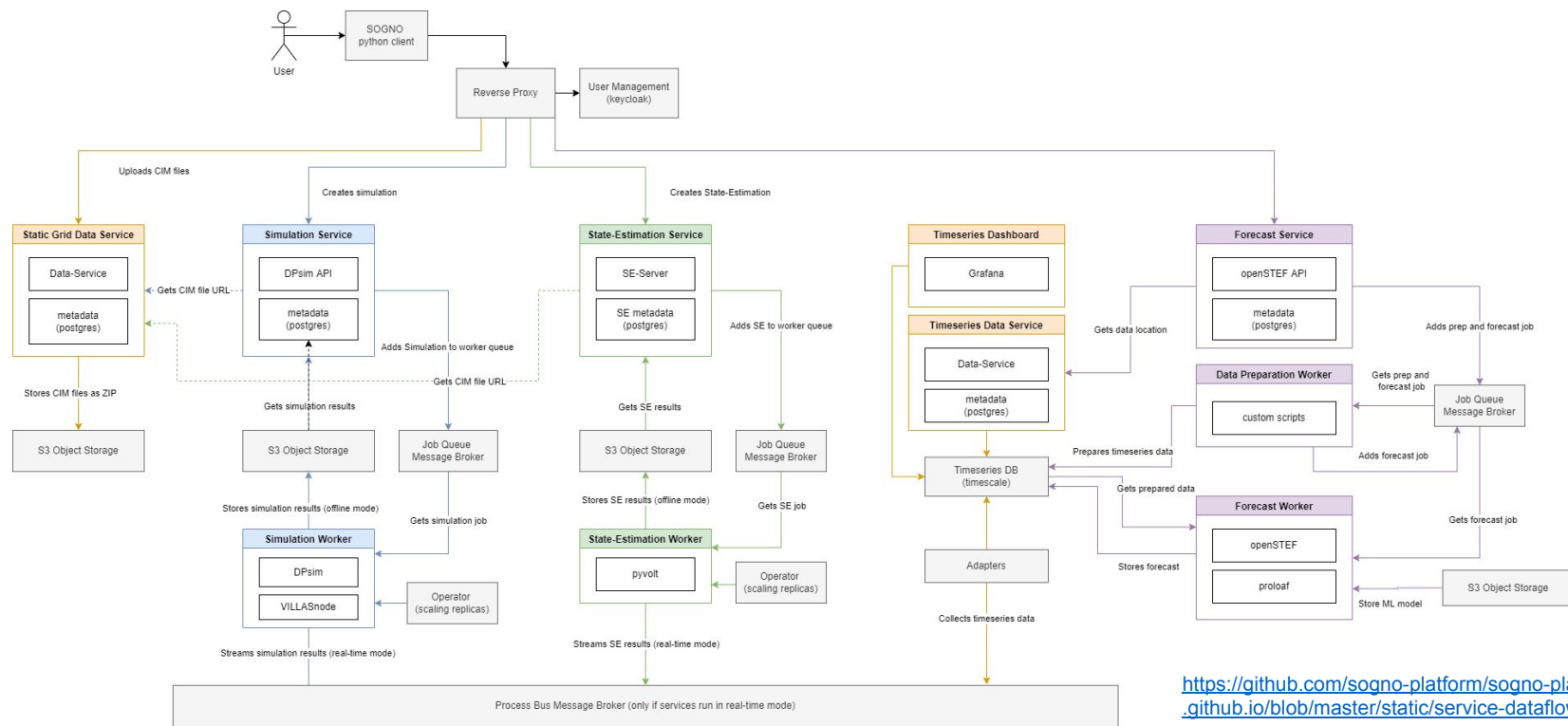


# API First



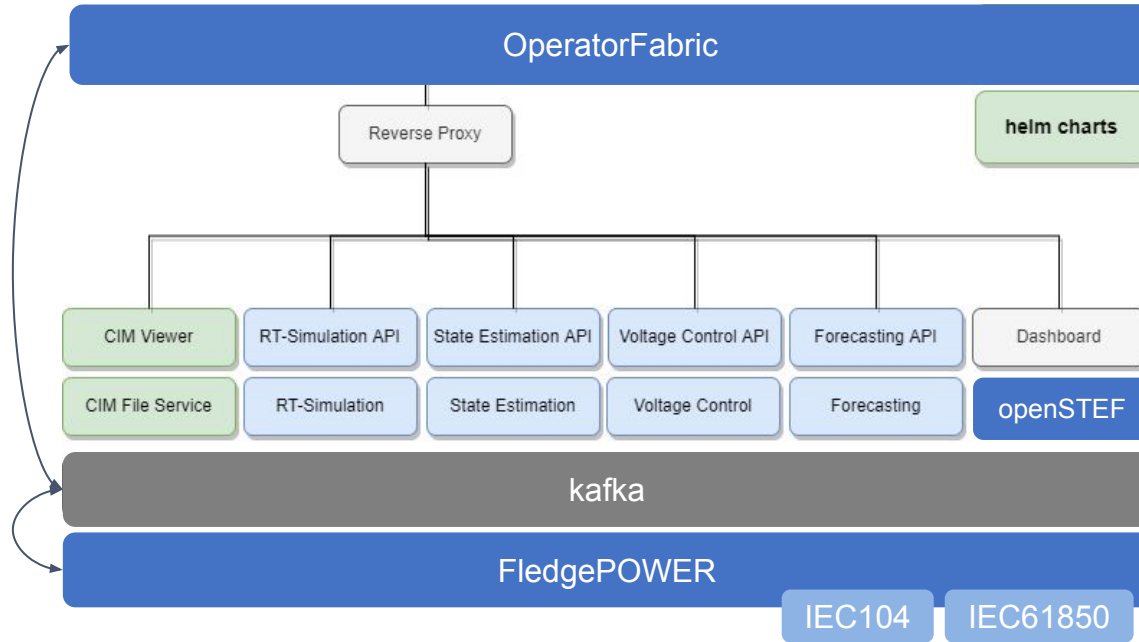


# SOGNO Dataflow



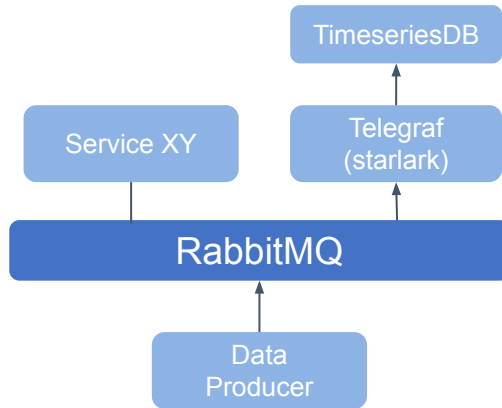
<https://github.com/sogno-platform/sogno-platform.github.io/blob/master/static/service-dataflow.svg>

# SOGNO Integration with other LFE Projects

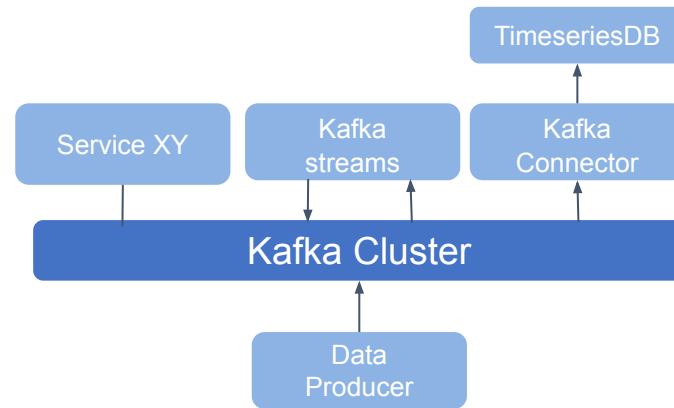


# Kafka/strimzi and Timescale in SOGNO

- SOGNO H2020 was MQTT based
- New projects and LFE project integration calls for kafka
- Already in contact with FledgePower project, demo planned with IEC 104

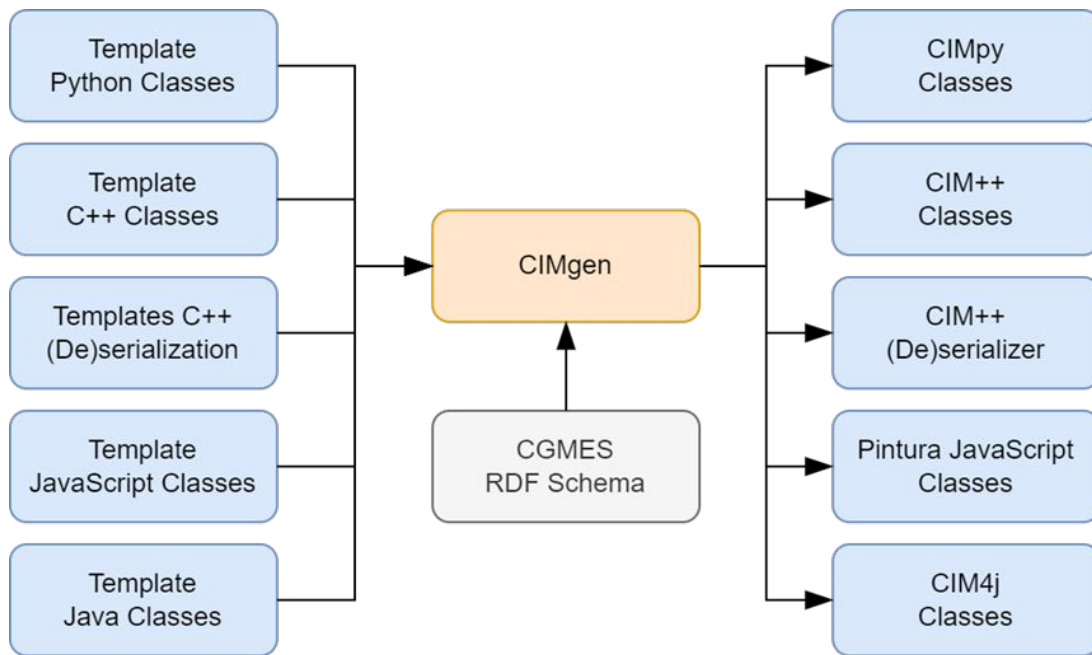


MQTT based



kafka based

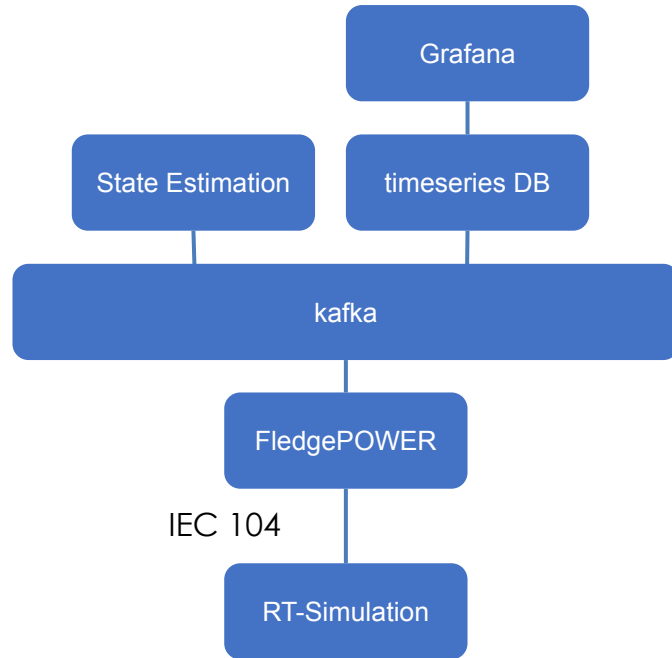
# CIM / CGMES Tools



<https://github.com/sogno-platform/cimgen/>

<https://github.com/Azure/opendigitaltwins-energygrid> (related MS project)

# kafka FledgePower Demo



# Summary on Criteria

- Demonstrate growth
  - Growth in commits, committers, organizational diversity
  - Production or planned production use of the project by at least two independent end users
    - i. Ongoing pilot in Platone project at German DSO
    - ii. Adoption by DSO in Italy
- Technical Governance
  - TSC with 5 members and chairperson, holding regular open meetings (RWTH, Walton Institute, Fraunhofer FIT/IEE)
  - OpenSSF Best Practice badge - **ongoing** (<https://bestpractices.coreinfrastructure.org/en/projects/5627>)
- Development of a growth plan
  - Release plans for the next 18 months - **API specifications**
  - **Integration with other LFE projects (openSTEF, FledgePOWER, POWSYBL, OperatorFabric)**
  - Ongoing work on better examples and documentation
  - Bringing internal communication to official channels (seems to work for slack, GitHub project board)
  - Cooperation with University in Colombia, group has close cooperation with TSO
  - Several upcoming research projects
- Identification of any infrastructure resources needed to fulfill the growth plan

# Standards Project and Working Group Lifecycle Proposal

# Proposals for discussion

- [LF Energy Foundation Standards Project Lifecycle](#)
- [LF Energy Foundation Working Group Lifecycle](#)



# Project Review Cycle

Project	Current Level	Initially Accepted	Last Review Date	Next Review Date
SOGNO	Early Adoption	<del>October 27, 2020</del>	<del>March 16, 2021</del>	<del>March 8, 2022</del>
<b>Shapeshifter</b>	<b>Incubation</b>	<b>April 6, 2021</b>		<b>March 29, 2022</b>
Grid Capacity Map	Incubation	April 27, 2021		April 19, 2022
OperatorFabric	Early Adoption	April 30, 2019	July 20, 2021	July 12, 2022
CoMPAS	Incubation	May 5, 2020	June 29, 2021	July 12, 2022
PowSyBI	Early Adoption	April 30, 2019	August 31, 2021	August 23, 2022
OpenEEmeter	Incubation	June 4, 2019	October 12, 2021	September 13, 2022
OpenSTEF	Incubation	September 21, 2021		September 13, 2022
GXF	Early Adoption	February 4, 2020	October 12, 2021	October 4, 2022
OpenGEH	Incubation	October 12, 2021		October 4, 2022
OpenLEADR	Incubation	September 15, 2020	November 23, 2021	October 25, 2022
SEAPATH	Incubation	October 6, 2020	November 23, 2021	October 25, 2022
EVerest	Incubation	October 12, 2021		November 15, 2022
FlexMeasures	Incubation	November 2, 2021		November 15, 2022
Hyphae	Incubation	December 8, 2020	December 14, 2021	December 6, 2022
<del>Full Architecture Working Group (FAWG)</del>	<del>Working Group</del>		<del>January 25, 2022</del>	<del>January 17, 2023</del>
<del>Data Architecture Working Group (DAWG)</del>	<del>Working Group</del>		<del>January 25, 2023</del>	<del>January 17, 2023</del>
FledgePOWER	Incubation	<del>February 11, 2021</del>	<del>February 15, 2022</del>	<del>February 28, 2023</del>

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# Outreach Updates

- TFIR videos
  - <https://www.tfir.io/?s=lf+energy>
- Recent press articles
  - <https://www.lfenergy.org/news/media-coverage/>
- We want your project news!
  - Doesn't need to be anything huge!
  - Examples of news:
    - New releases ( example <https://github.com/powsybl/pypowsybl/releases> )
    - New features added
    - New maintainers/organizations involved
    - Upcoming plans

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# Next TAC Meeting

The next meeting of the LF Energy TAC is scheduled for 29 March 2022 at 8:00 am US Pacific Time/11:00 am US Eastern Time/5:00 pm Central European Time.

Agenda will include:

- Recap of last TAC meeting/Governing Board updates
- Shapeshifter



Thank you!