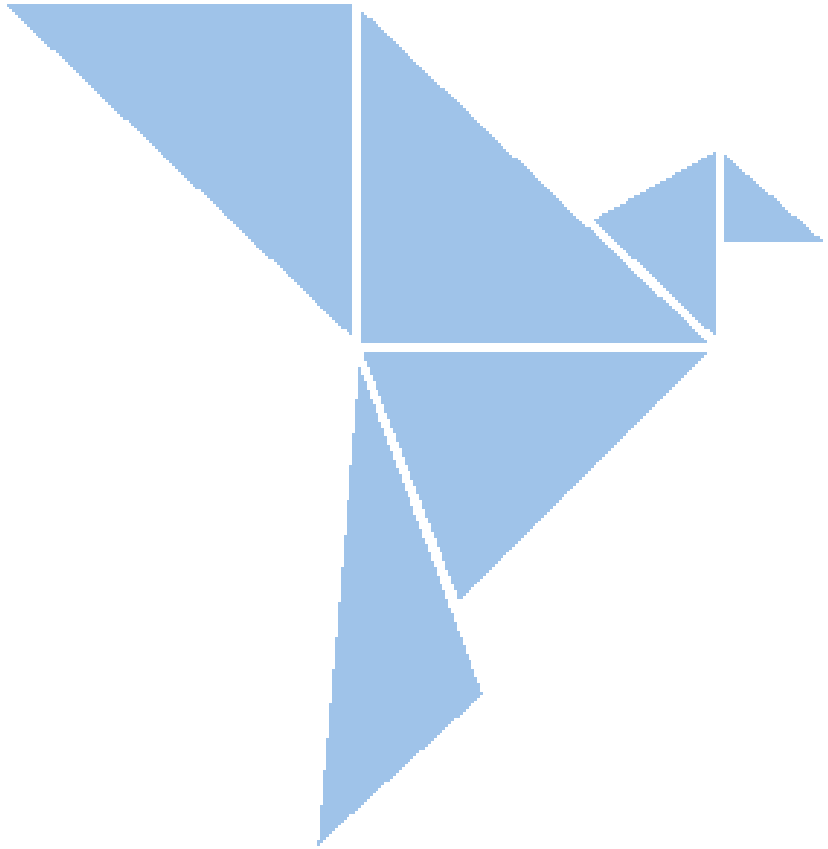
LabFREED

Meetup
04.11.2025

- Primer

- Tasks from Last Meetup
- Status of Building Blocks
- Breakout Sessions to Topics of Interest



Welcome to the LabFREED Meetup

About the Meetup

- Monthly, informal gathering of the community
- A space to **exchange ideas, share experiences, and connect**
- Kick off collaborations, explore new building blocks, and dream big (while starting small)
- Everyone welcome – whether curious newcomer or active contributor

LabFREED

Your Expectations For Today

LabFREED

Tasks From Last Meetup

Task	Who	State
Feedback on labfreed.org	Bernd	✅ - General concept is well explained - Responsibility for issuing and correctness of PAC-ID
Givaudan visit	Manuel	✅
PAC-Ninja Specification	Apini	ToDo

Progress on Building Blocks

LabFREED

PAC-ID Attributes

DRAFT Specifications Released

Demo attribute server according to these draft specifications

Visualization of these attributes

LabFREED

PAC-ID Attributes

> ⚠ Warning
>
> **Draft Specification**
>
> This document is in draft state. Contents are subject to change.
>
> We invite you to join the discussion on Discord.
>
> Main topics in need for clarification:
>
> - Reconsider a simple GET request on the cost of only being able to request attributes for one PAC-ID at a time. The parameters (language_preferences, etc) are not contested and would become query parameters.
> - Investigate whether it would make sense to model attributes as RDF triplets and use Json-LD for serialization for improving interoperability and tool support.

In a Nutshell

`PAC-ID Attributes` standardizes a generic, vendor-neutral web service interface for retrieving metadata about an item identified with a PAC-ID. With this mechanism, software-systems dealing with `PAC-ID`s can show metadata (e.g. boiling point of a substance) to the user, without implementing vendor specific protocols. Attributes might also be used programmatically (e.g. loading an instrument method based on a boiling point)

Introduction

`PAC-ID`s expose only minimal human-readable information (issuer, category, item ID). However, user-facing applications require additional metadata—such as a display name or physical properties. Embedding such data in the `PAC-ID` is undesirable due to size, internationalization complexity and mutability issues.

To address this, `PAC-ID Attributes` defines a neutral, standardized web service interface for retrieving item metadata. This approach decouples data consumers from provider-specific implementations, enabling consistent, interoperable access regardless of the underlying issuer. While issuers may still offer proprietary APIs, the standardized web service provides a common, vendor-neutral mechanism usable across systems.

Terminology

Term	Description

Packages

No packages published
Publish your first package

Contributors 3

retothuerer
apinilabs-pascal
apinilabs-manuel

Breakout Sessions

LabFREED

Data Transfer to and from Instruments

Can LabFREED help with Data Transfer between instruments and a software

- Scenario:
  Instrument manufacturer with SW, which manages instrument methods and controls execution thereof.
- Question:
  Are LabFREED building block a solution for data transfer between instruments and this SW?
- Discussion:
  The currently published LabFREED building blocks are probably not an exact fit. SiLA should be considered for complex integrations.
  The unpublished PAC-DISCO buildingblock could be interesting.
  >> Schedule a demo of PAC-DISCO in next meetup

Next Meetup

Dec 2nd, 2025 at 16:00 CET

👉 Register

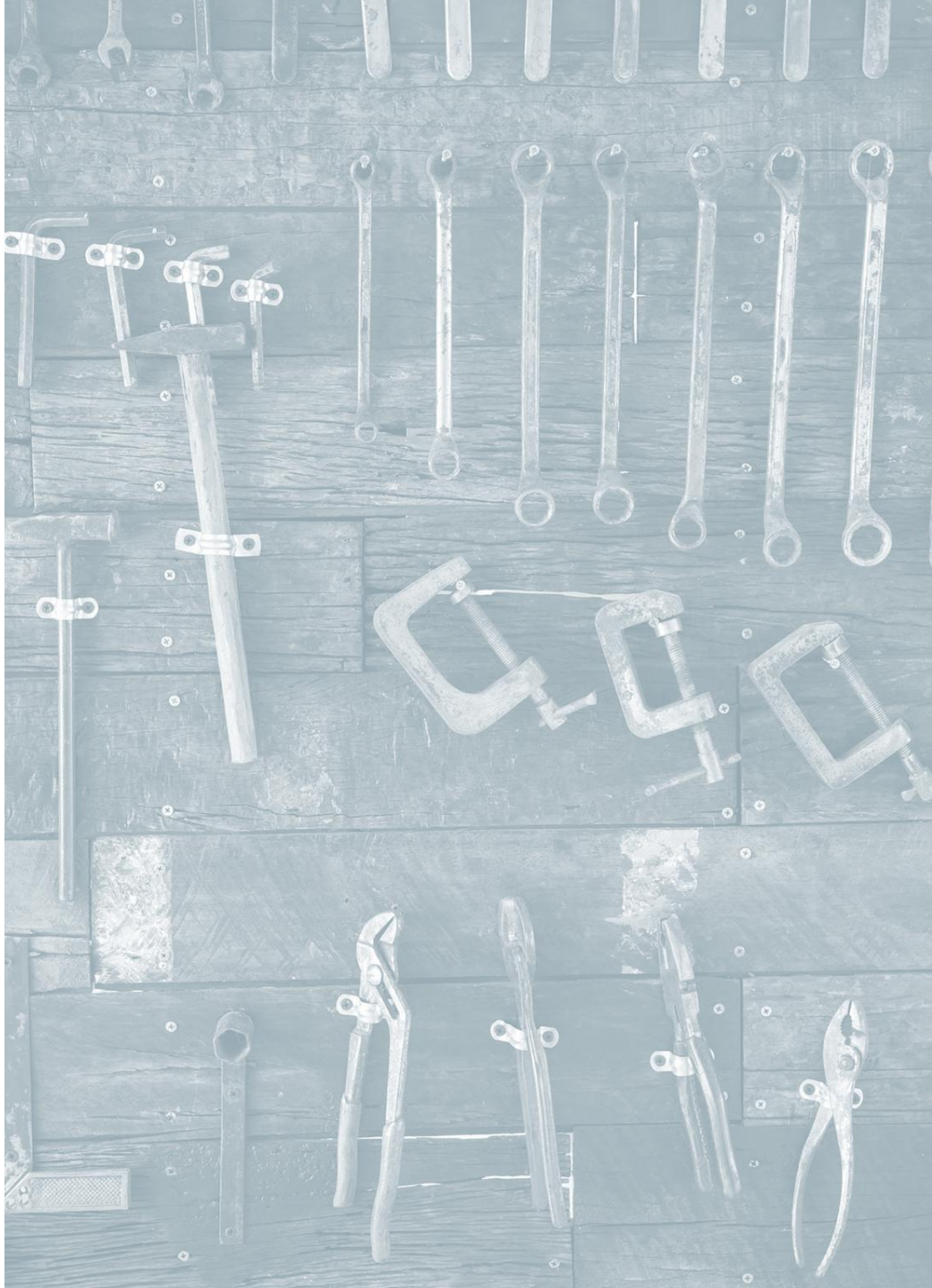
LabFREED

Resources

- Our Website
- Our Discord

- Specifications of Building Blocks

- Tools to Experiment With Building Blocks
- Python Implementation of LabFREED



LabFREED