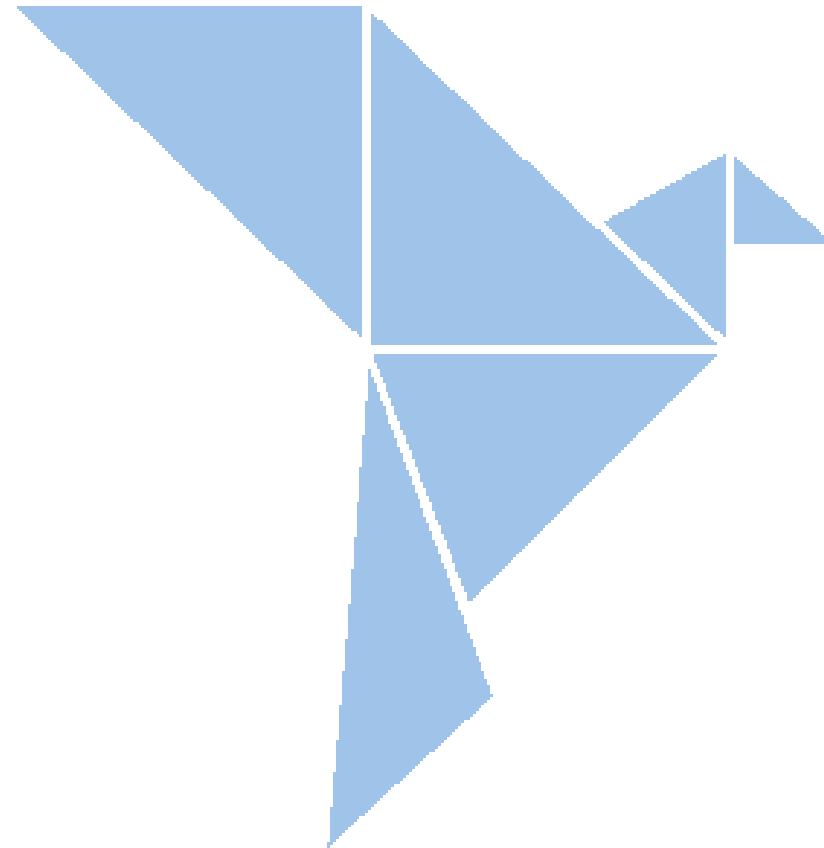


Meetup

13.01.2026

- Welcome / Intro
- Breakout Sessions to Topics of Interest
 - Primer (if needed)
 - PAC-DISCO
- Tasks from Last Meetup
- Status of Building Blocks



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



Your Expectations For Today



PAC-DISCO



Contextual driven interactions between Data Collector and Lab Devices

< 3/5 in Work-up

Remove solvent on Rotavapor with a vacuum of 123 mbar, cooling at 10°C and heating at 50°C.

Apply run data of nearby RotiDA?

Yes No



...goes both ways

Apply set data
from Apinion?

			Yes	No
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We largely re-use PAC-ID and T-REX

Announcements / Services are designed in line with PAC-ID segments:

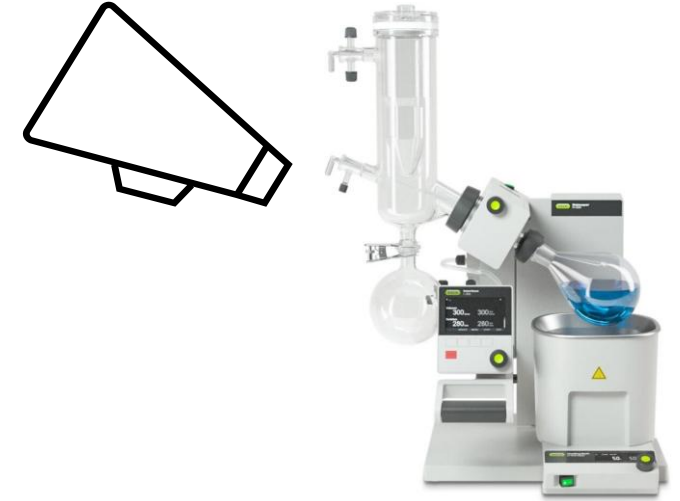
- MD (Material Device): General presence announcement permanently sent by the device
- DM (Data Method): Device is ready to take a method
- DP (Data Progress): Device is running
- DR (Data Result): Device recently completed a run and has a result to transfer

Data is transferred as PAC-ID and extension (e.g. T-REX)

<HTTPS://PAC.BUCHI.COM/-DR/RNR:24-02-23-15-22-15/V0210/-MD/240:R-300/21:1000294262>

[*B80BWILWCSQ00TTJZ302R0E3T586ECTWZ4*START\\$T.D:20240223T1522+DURATION\\$MIN:5+BATH\\$CEL:19+MODE\\$T.A:TIMER](#)

Designed to largely tech-agnostic, could also be done with something else than Bluetooth as long as it provides announcements and a way to transfer PAC-ID's



Progress on Building Blocks



PAC-ID Attributes

[DRAFT Specifications update in progress](#)

Request for review

Changed points:

- JSON-LD / [Resource Description Framework \(RDF\)](#) compatibility
- GET request

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.

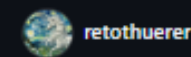
Terminology

Term	Description
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Packages

No packages published
[Publish your first package](#)

Contributors 3



retothuerer



apinilabs-pascal



apinilabs-manuel

Next Meetup

Feb 3rd, 2026 at 16:00 CET

[!\[\]\(d219eb33a83c47f5c6c63c27bbe267cb_img.jpg\) Register](#)



Resources

- [Our Website](#)
- [Our Discord](#)
- [Specifications of Building Blocks](#)
- [Tools to Experiment With Building Blocks](#)
- [Python Implementation of LabFREED](#)

