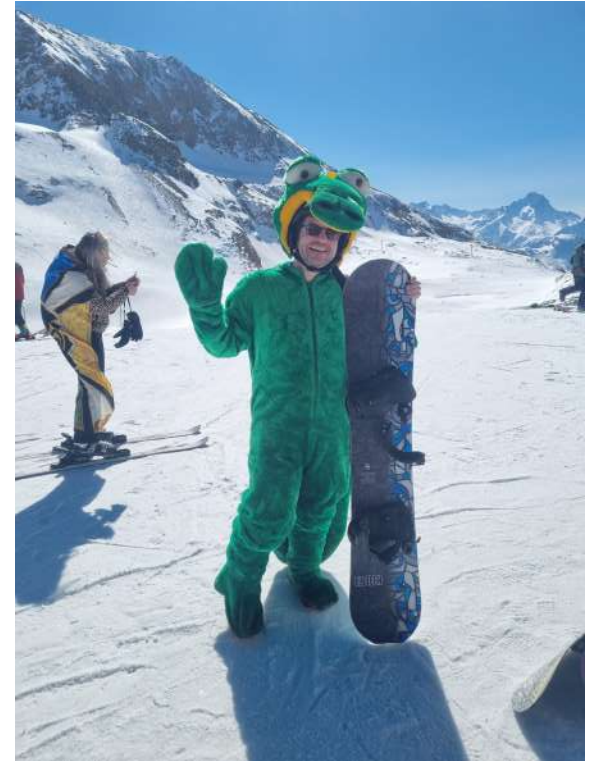# Apache PLC4X: State of the civet

Who am I?

- Christofer Dutz

- Snr. Staff Software Engineer

- Rivian

- Committer of many Apache projects

- Member of the Apache Foundation

- VP of Apache PLC4X

- Member of the ASF Board of Directors

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Agenda

- Focus

- New Protocols

- Supported Languages

- Integrations

- Utils

- Behind the scenes

- Outlook

Focus

- Initially:

  - Connecting to PLCs

  - Reading

  - Writing

  - Subscribing

- Currently:

  - Auto Discovery & Browsing

  - Streamlining the API

  - Extend API with tools for integration in other products

New Protocols

- BacNET

- C-BUS

- ADS (Rewrite)

- PROFINET

ADS Rewrite

Supported Languages

- Plc4J

- Plc4C

- **Plc4Go**

- **Plc4Net (C#)**

- **Plc4Py (Python)**

- **Plc4Rust**

Integrations

- Major update in the Apache NiFi integration

Utils

- OPC-UA Server

- Java GUI

- Golang Text GUI

- PCAP-to-Testsuite

Java GUI

Golang Text GUI

PCAP-to-Testsuite

- Allows converting a PCAP recording into the xml representation our testsuite can understand

Behind the scenes

- Complete rework of the Java code generation

- Introduction of 4 new field types

- Major improvements in parsing & serialising

Outlook

- Increase the percentage of generated code

- Adding Auto-Discovery and Browse functionality to more drivers

- Getting the Divers on-par in all supported languages

- Battle testing more and more of our drivers

Increase the amount of generated code:

- Currently only data types, serializers & parsers get generated

- Next step: Message templates and response handlers

- Step after that: Protocol logic as State-Machine

Want to join in?

- Subscribe to dev@plc4x.apache.org

- Join our Apache Slack channel

- Follow us on Twitter: @ApachePLC4X

Questions?

RIVIAN