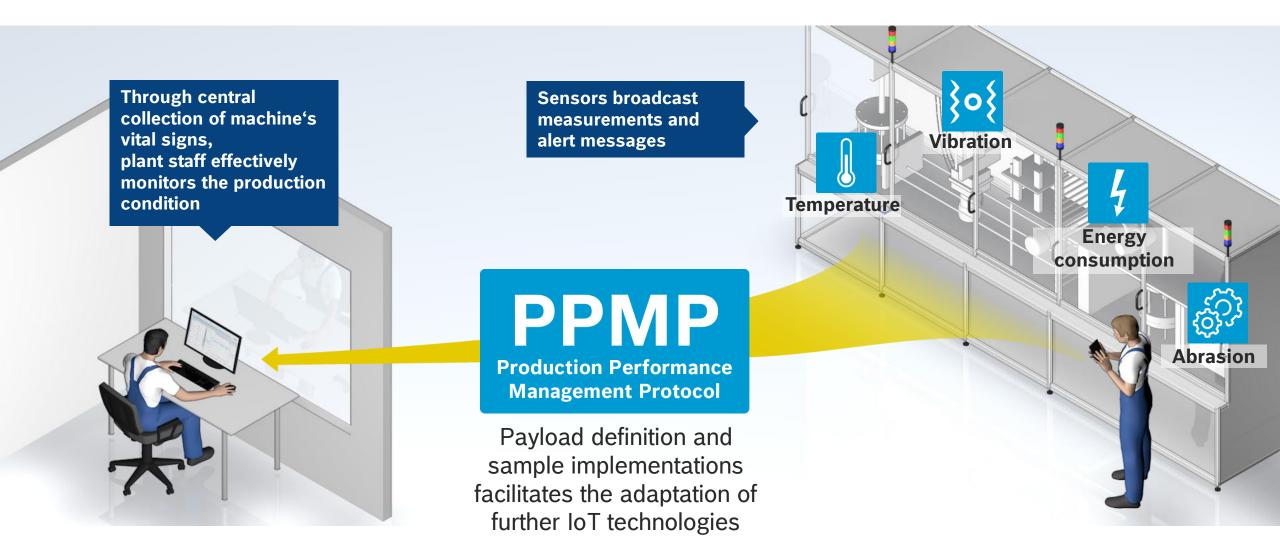
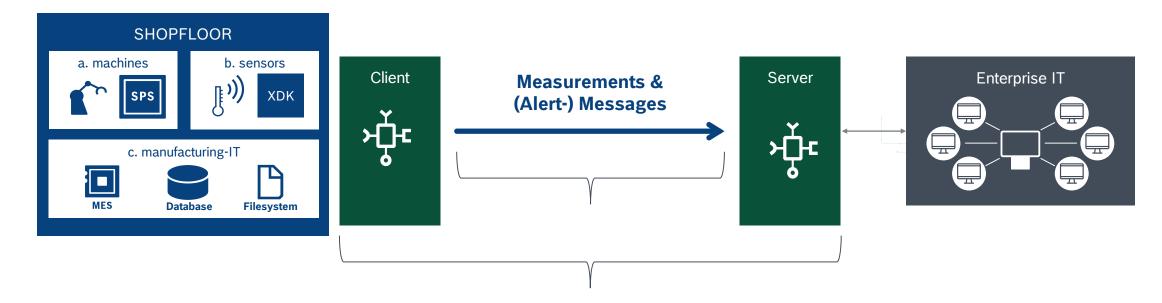
Eclise Unide eclipsecon Europe 2016, Unconference (24.10.2016)



Production Performance Management Protocol Overview



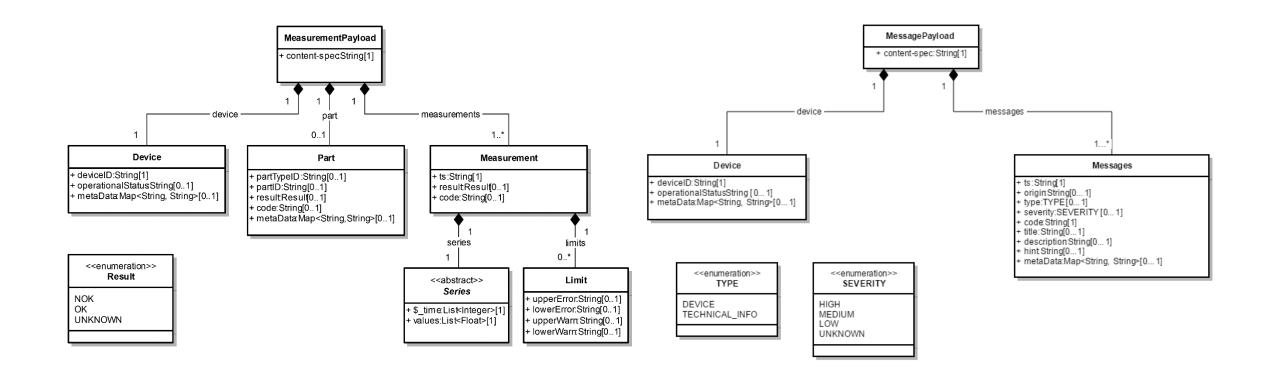
Eclipse Unide / PPMP Project Scope





- Definition of Payload structure
- Sample Implementations
 - Client
 - Server
- Reusing existing Protocols

Eclipse Unide / PPMP Machine Measurement / Messages



```
"content-spec": "urn:spec://eclipse.org/unide/machine-message#v2",
"device": {
 "deviceID": "2ca5158b-8350-4592-bff9-755194497d4e",
 "operationalStatus": "normal",
 "metaData":{
   "swVersion": "2.0.3.13",
    "swBuildID": "41535"
"messages": [{
 "origin": "sensor-id-992.2393.22",
 "ts": "2002-05-30T09:30:10.123+02:00",
 "type": "DEVICE",
 "severity": "HIGH",
 "code": "190ABT",
 "title": "control board damaged",
 "description": "Electronic control board or its electrical connections are damaged",
      "hint": "Check the control board",
 "metaData": {
    "firmware": "20130304 22.020"
 "ts": "2002-05-30T09:30:10.125+02:00",
 "type": "TECHNICAL_INFO",
 "severity": "HIGH",
 "code": "33-02",
 "title": "Disk size limit reached",
 "description": "Disk size has reached limit. Unable to write log files."
}]
```

Eclipse Unide Differentiator to other protocols

- Sample implementations for Connected Industry
- Small Payload structure
- Industry focus (part info., operational status)
- Reusing existing / small Hardware
- Reusing existing IoT technology





Eclipse Unide Initial Progress (08/16-now)

- Website with payload definition launched
- Advertising started
 - Press releases backing PPMP/Unide
 - Blog posts
- Motivated interested (industry) parties SAP, Tata Consultancy Services, Dassault Systèmes, Balluff, CADIS Service GmbH, EGT AG, KLW Karl Lutz GmbH, RAMPF Machine Systems GmbH & Co. KG, J. Schmalz GmbH
 - Expectations: simple, flexible, easy to use
- Seeking collaboration with other projects



Home Proposal Specification Blog Archives FAQ

Recent posts

News Coverage Official launch Eclipse Project approved Unide proposal online

Blog Archives

September 2016 (4)

Tags

media (1) project start (3)

Tag Cloud

media project start

Frequently Asked Questions

We assembled a few frequently asked questions about the Production Performance Protocol (PPMP) and the Unide project. You're welcome to raise your questions in the forum.

What does "Unide" stand for?

The projects name is derived from understand industry devices. Other ideas like connect industry machines turned out to have meanings in foreign languages or being trademarked already.

Regarding the logo: Unide and PPMP's goal is to enable you to connect machines and receive their measurements / alerts. The logo represents that. It has you ('U') highlighted and connects to rings. As a side note, we found that the words almost look like vou-nice.

What's the difference between Unide and PPMP?

Why introducing another industry protocol?

Why have you choosen JSON as syntax?

Why are time and measurement points separated in multiple arrays?

I'm interested in Unide/PPMP. How can I contribute?

Why have you included content-spec uri, if that can also be expressed in the a REST url already?

Eclipse Unide Next Steps

- Driven by Manufacturing
- Client / Server Implementations (2016)
 - (Chrome-) App, Raspberry Pi Clients
 - (REST-) Node.js / Python / Camel Server
 - Reusable bindings (java general, Hono)
- Evolving payload definition (2017)



Picture: photosteve101 (CC BY 2.0)