Introducing SiLA 2
Who is SiLA?

- Non-profit organisation founded in 2008
- Global footprint with 30+ member companies
- 1700+ individual members
SiLA Mission

- Create international, open connectivity standard in lab automation
- Improve data integrity in labs
- Accessible, straightforward, stable, cost effective, usable and extensible
You spoke

- We restricted you to predefined device classes
- Connecting a new device wasn’t easy
- SiLA 1 was based on XML/SOAP
- Standardisation process was slow
- It was hard to get started!
We listened

SiLA 2
SiLA 2 Feature

Distinct behaviour of a device or service
Provides modularity and consistency
Can be shared across devices

- Plate shaking
- Temperature control
SiLA 2 Feature

Agile framework

Vendor A
SiLA 2 Feature

Agile framework
SiLA 2 Feature

Agile framework
SiLA 2 Server

Provides features

S2 Server

P Plate reading
P Plate shaking
T Temperature control
SiLA 2 Server

Wireless or wired

Rapid Integration
SiLA 2 Server

Discover automagically!
SiLA 2 Server

Discover automagically!
SiLA 2 Server

Peer to peer
SiLA 2 Server

Subscribe to properties

S2 Server

37°C

S2 Server

Rapid Integration
SiLA 2 Server

Subscribe to properties

S2 Server

37°C

S2 Server

37°C

37°C

37°C

Rapid Integration
SiLA 2 Server

Subscribe to properties

S2 Server

40°C

S2 Server

37°C

37°C

Rapid Integration
SiLA 2 Server

Subscribe to properties

S2 Server

40°C

S2 Server

40°C

40°C

Rapid Integration
SiLA 2 Server

Speak science

LIMS

Complex data

>An IML<

Analytical Instrument

Rapid Integration
Future with SiLA 2

Develop applications for ready infrastructure
Combine device capabilities

Rapid Integration
Vendor is the designer

• Use approved Features or design your own
• Connect other devices for synergistic features
  • Barcode reader + LIMS + Liquid handler
• Benefit from cross-platform and cross-language libraries to make driver development a breeze!
  • The libraries will be open source
  • Come to our booth, we’ll show you personally how!
• Increase customer value via better usability and compatibility
User has the power

- **Ad-hoc automation**: in the near future, anyone can configure simple automation themselves
- **Break free from closed ecosystems**
  - Re-use the SiLA 2 devices in new automation projects
- **Quicker and cheaper integration**
  - Get your lab connected to your IT systems
- ** Benefit from open source SiLA 2 driver repository**
  - Share the drivers you created
  - Download SiLA 2 drivers for free
  - Buy converters from member companies
New integration opportunities

- Use a standardized device network designed having easy integration in mind
  - Save effort on device drivers, feature design, device interaction, real-time communication, discovery etc.
- Design device agnostic software
  - User empowering solutions that let them decide
  - Test the SiLA Browser in action and get inspired!
- Bring convenience to the user
Ecosystem for everyone!

- No license fees, no royalties, no obligatory membership
  - It’s simply free!
- Several applications can use the SiLA peer to peer network simultaneously
- Exciting opportunity for startups:
  - Access ready SiLA ecosystem and infrastructure
- SiLA certification is optional, proof of quality
Ecosystem for everyone!

- Software, Services
- Users
- Vendors
- Integrators, Developers
- Open Libraries
- Driver Repository
- Standard consortium
- Compatibility
- Scale
- Revenue
- Convenience
- Work
- Accessibility
- Capabilities

Rapid Integration
How to get started?

- Join SiLA now
- Participate in training programs provided by SiLA
- Look at our high quality web resources
How to join?

• Individuals: register free on our website
• Organisations: fill out the membership form at
  • Membership fee starts from 3500 EUR / year
    • FREE for contributing academic institutions
Thank you!

SiLA 2 release candidate in mid 2018

http://www.sila-standard.org/