The SiLA Connection

STANDARDIZATION IN LAB AUTOMATION APRIL 2021

Universal SiLA Client – Request for proposals

The SiLA Consortium is inviting proposals to specify and implement an open source universal SiLA Client.

As the SiLA ecosystem grows, it is essential to have an easy was to interact with equipment and service components in an interactive way. A platform-independent architecture is desired to be able to work with a range of device types (e.g. smartphones, tablets or ordinary personal computers).

High level expectations:

- Create an open source and publicly available universal interactive SiLA Client.
- The universal SiLA Client must fully support the SiLA 2 Release 1.0 standard and upcoming SiLA 2 Release 1.1.
- The application must be able to run by people who are not IT experts

Have we raised your interest? Detailed information can be found here.

If interested, please submit your proposal by mail to the SiLA office **no later than April 16th, 2021,** according to the requirements as indicated in the online document. We look forward to hearing from you!

Meet us at these events:

- **Lab of the Future**
  Apr 13-14, virtual
- **Putting Standards in Science workshop: Organ on Chip**
  Apr 28-29, virtual
- **SiLA User Conference**
  June 8, virtual
- **ACHEMA pulse**
  June 15-16, virtual
- **BioLAGO / SiLA hackathon**
  June 17, virtual
- **Future Labs LIVE**
  June 21-22, virtual
- **Closed Loop systems**
  June 23, virtual

Edge SiLA Gateway - project awarded

The SiLA Consortium has been discussing the development of an **Edge SiLA Gateway** (see edge computing) as a valuable addition to the ecosystem. The Gateway connects any SiLA 2 compliant server (running in a private environment) to a client running in a cloud environment (i.e. an environment that has no direct access to the private environment) and additionally provides monitoring functionality (e.g. to monitor existing connections, data flow, errors). When ready, the "Universal SiLA Client" (RFP above) will be an ideal client to work with this Edge SiLA Gateway. This builds on the successful SiLA cloud connector project.

SiLA is pleased to announce that this important project has been awarded to **Siobra** (Germany).
More details - coming soon. If you are interested, please get in touch via info@sila-standard.org

Call for presentations for the SiLA User Conference – June 8th 2021

After the successful SiLA User meeting in on October 20th, 2020 it is time to plan a User Conference for this year! **Are you interested in sharing your experience with SiLA with the community?**
We give you a platform to present your experiences!
Contact us for more information.

BioLAGO and SiLA work together on Hackathon series, with robots!

SiLA, in partnership with the life science network BioLAGO, has been awarded funding to run a series of hackathons under the title bioSASH (BioLAGO-SiLA 2/AniML Serial Hackathon)

This builds on the successful event incorporating a hackathon that was organized by the partners SiLA and BioLAGO in summer 2019. This brought together both networks for a truly new kind of hackathon, combining both coding with science and with participation from all over Europe.

The H2020 project Digital Innovation Hub-HEalthcare RObotics (DIH-HERO) was granted €16Mio to build an platform that accelerates innovation by connecting and supporting European actors through the value chain of healthcare robotics. Half of the total budget, (€8 Mio) is for financial support to third parties to reduce barriers for international cooperation and technological innovation, and bring new robotics innovations to the market more rapidly. As such the DIH network brings additional support in the form of expertise and marketing.

The bioSASH project is funded under the Technology Transfer Experiment call to stimulate the transfer of innovative technology from outside the robotics and healthcare domains, in this case the SiLA interoperability standard. In addition, the project aims to contribute to overcome implementation hurdles that hinder the generating new business and to creating new links inside the value chain. Exactly what we'll do at the event!

First of the four hackathon sessions is scheduled to take place on **June 17th 2021.**
Stay tuned for more information and registration invite!

Kevin: the mobile laboratory robot from Fraunhofer (with SiLA)!

The Fraunhofer IPA is pleased to announce that Kevin, the mobile collaborative lab robot has evolved from prototype status to adding real value to your lab. Kevin is a mobile collaborative lab robot that helps the laboratory staff in handling their daily working jobs by taking over transport routines during the day or at night. Kevin evolves his full potential, when he takes on recurring tasks or is integrated into a digital lab environment in which the tasks are semi or fully automated.

"We developed Kevin with the aim of achieving maximum flexibility for the laboratory. This relates to the tasks he could take on, the physical lab infrastructure and as well as the digital interfaces. Kevin now speaks SiLA 2 to interact with a wide variety of laboratory software and has proven his skills in first customer projects. This independence through SiLA 2 enables us to interact with any SiLA 2 compatible software, e.g. ELN or High Dynamic Scheduler."

Can you think of an exciting application for your laboratory? Kevin will start a spin-off in the second half of the year. Stay tuned and follow Kevin on LinkedIn.

SiLA's part of the upcoming **Lab of the Future** event on **April 13th and 14th!**
Lab of the Future LIVE brings together leading life science companies and solution providers addressing the cutting-edge research and technology driving the advances in laboratory research impacting us now and in the future.
Don't miss out and sign up for the free event here.

SiLA users collaborate with KNIME for seamless data transfer and analysis

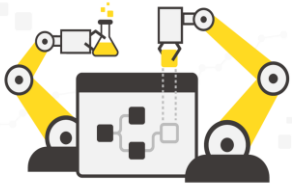
KNIME Data Talks - Lab Data

Many life science companies have large digitalization initiatives, which include a focus on laboratory data. However, challenges such as inconsistent infrastructures, poor or lacking integration interfaces, and varied personal skill sets make it difficult to both implement these initiatives and realize the promised benefits (e.g. improved experimental reproducibility, reduction in errors, increased productivity, etc.).

In this **online event on April 22nd**, we bring together a group of experts to discuss and demonstrate how KNIME can help to tackle these challenges.

We'll look at analyzing and integrating diverse data (e.g., images, assay, or spectra), enriching such data through contextualization, and talk about how KNIME can help ease user adoption and facilitate the automation of laboratory processes by integrating laboratory standards.

Open for Innovation
KNIME



Review of first digital SLAS2021

In January we were once again at the key event of the lab automation calendar, the Society for Laboratory Automation and Screening conference (SLAS). So from January 25-27 we were (virtually) in San Diego.

Extended opening hours allowed participation from east and west coasts, and SiLA held an booth with white papers and a video chat facility to meet many new participants and some old friends.

We presented the new **SiLA cloud connector**, and the new KNIME interface: **User-friendly End-to-End Lab Automation** in action with SiLA member Biosero .

Our presentation **"SiLA and AnIML: Lessons learned from scaling the use of standards in digital transformation"** , from SiLA director Burkhard Schaefer generated a lot of interest.

We had a poster from members Sartorius "A laboratory Orchestration Framework: A concept for virtual planning for lab efficiency improvement" (Söldner, Austerjost and Pollard) and participated in the Standards special interest group (SIG). The poster available in the download section of our website ("SiLA on other events").

Virtual shows are always a strange experience and hope to see you LIVE in 2022 in Boston all being well. So save the date Feb. 05-09, 2022!

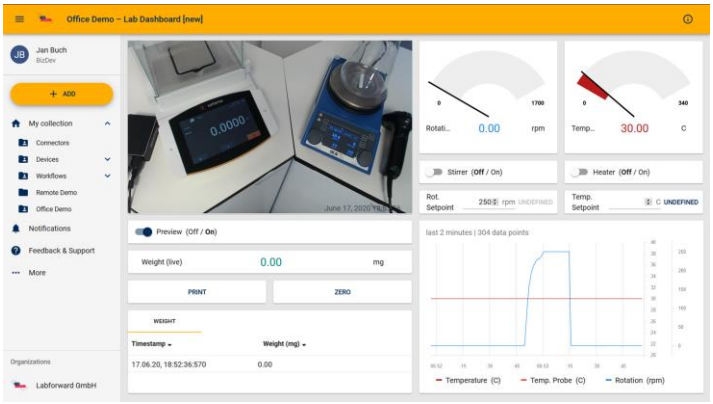
slas 2021 INTERNATIONAL CONFERENCE & EXHIBITION

JANUARY 23-27, 2021
SCIENCE IGNITED!

Labforward - congratulations!

At the start of 2021, Labforward closed their Series-B funding round, led by SiLA Core Member Tecan AG, to enhance the capabilities of their connected lab platform - including Labfolder (ELN), Labregister (inventory management), and Laboperator (vendor-agnostic device connectivity and LES).

With the additional resources, they are moving further towards standardization of lab connectivity.



Initiatives for 2021 including making Laboperator SiLA 2 compatible.
SiLA 2 ready devices connected to Laboperator will then become "Plug'n'Play" without further development. They say: “This will result in a leap in lab connectivity as implementation timelines can be reduced drastically and customers secure their investments by choosing future-ready technology."

Future Labs LIVE – June 21-22

Come and hear talks by SiLA CTO Daniel Juchli (SiLA), Tom Kissling (Roche/SiLA), Robert Soeldner (Sartorius/SiLA) and Burkhard Schaefer (BSSN/AnIML-SiLA) as well as Jason Meredith (Tecan) and Rob Harkness (Biosero).

Closed-Loop Experimental Systems - Two coordinated online events, 22-23 June 2021

Oliver Peter (Idorsia/SiLA) is co-organising a really exciting track on closed-loop experimentation (featuring IBM, deepmatter and KIWI-biolab) at FUTURE LABS LIVE 2021 (22nd June), and a dedicated free meeting with University of Basel: "An Open Approach to Closed-Loop Experimental Systems" (23rd June)

Scientific knowledge advances through iterative cycles of hypothesis and experimentation, as for new products such as small molecule drugs. Thanks to advances in the automation of chemistry, biology, and machine learning approaches we now have the opportunity to accelerate this.
This meeting will provide an overview of existing closed-loop design-make-test platforms and projects from across the world. Join this forum to share experiences on challenges and first results.

Confirmed speakers include Ross King (Chalmers University, Alan Turing Institute), and from Kebotix, iDMT Cambridge, Zurich, EPFL Lausanne and Liverpool.

Link for free registration and full agenda will be available soon!

Follow SiLA on youtube! …
and don’t forget to like and leave a comment!

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