SIEMENS

SICAM CUSTOMER APPLICATION

SICAM SIAPP –
more performance for SICAM 8

siemens.com/sicam8

SIAPPs are 3rd-party applications that can be installed on the SICAM 8 platform, allowing for the quick and easy creation of up to three custom applications.
The creation of an application is done through the SIAPP Software Development Kit (SDK) – based on Docker. By using SIAPP, you can leverage the power of SICAM 8 without needing your own hardware, while simultaneously having full access to all RTU data.

Your Advantages with SIAPPs

- Save on hardware, reduce spare parts:
  Combine various applications on a single reliable and high-performance CPU
- Minimize maintenance or downtime:
  Container deployment allows for quick & easy patching of services
- Increase availability:
  Distribute central client services and autonomous executions
- Customize a global product to your local needs:
  Add your functions independently alongside the product lifecycle
- Shorten „time-to-market":
  Quickly integrate your own applications into an industrial environment

SICAM 8 Highlights

- Robust hardware
- Extensive RTU functionality
- Tested communication protocols
- Develop your own apps
- State-of-the-art cybersecurity

Where are SIAPPs used?

The SICAM 8 platform is used throughout the entire energy supply chain for controlling, remote operation, and automation.
SIAPP enables additional functionalities, allowing you to customize SICAM 8 specifically for your applications.
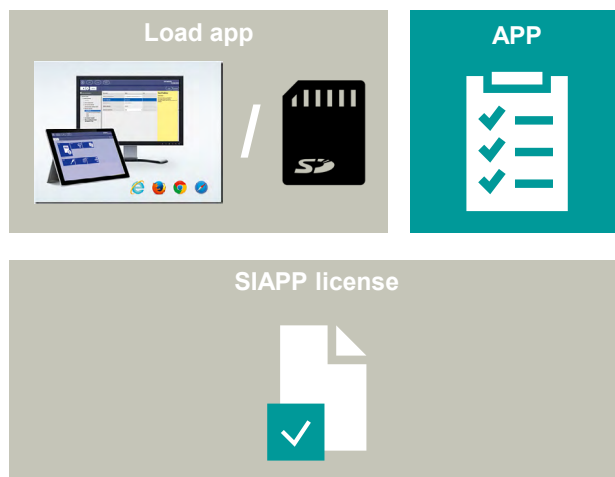Develop your own apps for, for example:

- Protocol converters
- Notification or alert services
- Optimization of energy storage systems
- Utilizing weather forecasts for the control of renewable energy feed-ins
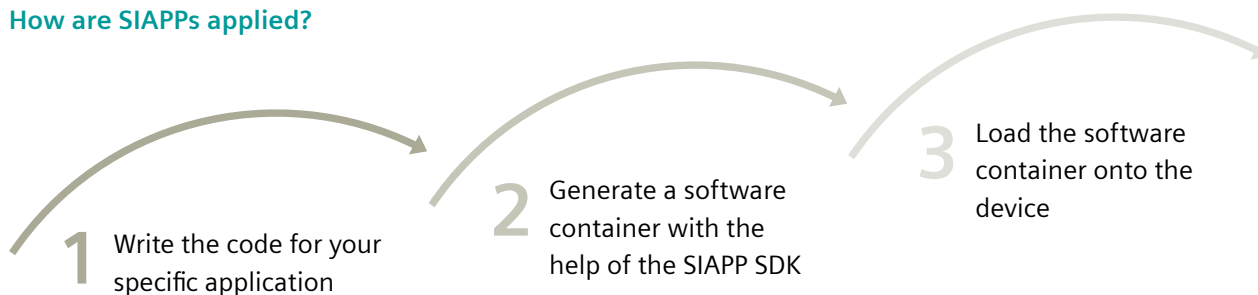- Cost optimization in energy trading

How are SIAPPs structured?

To be able to use SIAPPs, you are required to have the following:

- A SIAPP license
- Download the SIAPP SDK from „Github"
  (https://github.com/siemens/siapp-sdk)
  and install all the necessary components
- Now you can create a SIAPP from one of the example projects or write your own SIAPP
- Use the build.py script to generate a SIAPP from the Dockerfile
- Now you can emulate the SIAPP locally with the run.py script or
- Download this directly via SICAM Device Manager, SICAM Web, or an SD card to your processor module
- On the SICAM A8000 CP-8010, CP-8012, CP-8031, and the SICAM EGS, you can use a maximum of one SIAPP
- On the SICAM A8000 CP-8050 and the SICAM 8 Software Solution, you can run up to 3 SIAPPs simultaneously

Load app

APP

SIAPP license

How are SIAPPs applied?

1 Write the code for your specific application

2 Generate a software container with the help of the SIAPP SDK

3 Load the software container onto the device

SIAPP license
You can obtain the SIAPP license through an OSD download or the Function Point Manager.

↗ Expert Workshop - Getting to know SICAM SIAPP