



The goal of SOSCI is to empower oscilloscope users to unlock the full potential of their hardware and beyond. Our vision is to revolutionize the work of engineers with a cutting-edge, web-based application that streamlines their daily tasks.



Display numerical data streams in real time over the network. No need additional hardware.



detailed look into Have a your signals by adapting sweep speeds, amplitude and offset in real time.

Dev

Darshan

Tooltip Nico

Cookie Fairy

Critical Eye

Expert

WebGL

Bouncing

Master













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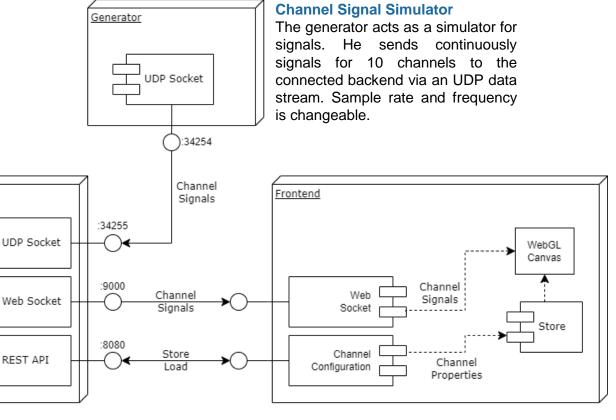
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Software Architecture

Overview

The application contains 3 components which run as Docker containers. Those containers exchange data via a shared network to finally display it to the user via the frontend.



Oscilloscope Backend

backend-dat volume

The backend accepts the incoming channel data from the generator and prepares it for transmission to the frontend. It also provides a REST API for loading & storing channel configurations like enabled channels, offset and amplitude settings.

/opt/sosci/data

REST API

Backend

Oscilloscope User Interface

The frontend provides a graphical user interface including the plotted channels and detailed information about min & max values. Via the control panel it's also possible to adapt the sweep speed, amplitude and offset for each individual channel.

The settings page provides access to pre-configured channel properties and gives also the ability to create new presets.