

SCS Syscom Cloud Software

scs.syscom-instruments.com



SCS (Syscom Cloud Software) is the cloud software developed by SYSCOM for the management, visualization and reporting of data coming from ROCK, MR3003 and MR3000 instruments.

Applications

■ Civil Engineering

- Construction site monitoring
- Traffic and railway monitoring
- Blasting monitoring

■ Strong motion

- Building monitoring
- Dam monitoring
- Monitoring of Structures (Tunnels, Bridges,...)

SCS Syscom Cloud Software

The SCS is a cloud software able to manage, visualize and create reporting of data coming from ROCK, MR3003 and MR3000 instruments. Fully designed by Syscom and dedicated to vibration monitoring, the SCS is operating like a Software as a Service (SaaS) platform, providing all the benefits of such model.

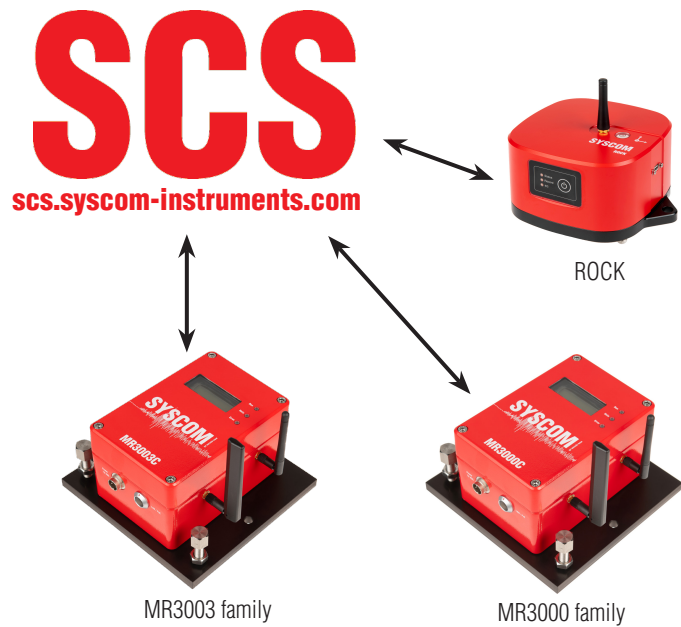
Its main features include plug & play M2M communications, management by projects, visualization of events/continuous background monitoring and automatic reporting.







Moreover, it has post-processing capabilities such as data integration/differentiation, Fast Fourier Transform (FFT), 1/3 octave analysis and graphical comparison with widely spread standards (DIN 4150-3, SN 640312, RI 8507 and many others).

The data are hosted on a dedicated Swiss server, and the transfer is protected with the SHA-256 secure hash algorithm, to ensure the highest data safety.

The SCS can provide three different accessibility levels to the data, to let the supervisor assign a specific access to different people involved in the project, for easy data sharing.

Due to its simplicity and reliability, the SCS is the ideal software to manage all the projects involving ROCK/MR3003/MR3000 devices.



Data management		Automatic data reporting and notifications	
 Pay per use	No software to be installed or purchased Direct access with a browser Easy data export in different formats Pay per use only	 Standard regulations	Among others: DIN 4150-3 (Germany) - SN 640312 (Switzerland), Circulaire du 23/07/1986 (France), BS 5228 and BS 7385-2 (UK) - RI 8507 and OSMRE (USA) - Others on request
 Reliable	Swiss hosted server SHA-256 secure hash protection algorithm Data always available, even with idle devices Data archiving	 Automatic reporting	Selectable report content for event & background Standard & blasting report templates Reports automatically sent by SCS Project-based contact list
 3 accessibility levels	Administrator: full access Read/write: full access to a single project View only: only data visualization	 Notifications	Automatic alarm and state-of-health notifications Project-based contact list Log information

PROJECT INFO

- Main info on the project
- Remote device parametrization
- Creation of access links (read/write, view-only) for other people
- FTP settings

Recent activities & notifications

- Recent activities on the project
- Recent alarms
- Recent automatic reports
- Recent State of Health notifications

PROJECT DEMO

Edit

Set reporting


Set notifications

DESCRIPTION

demo Barth

RECORDERS LIST

● mr3003-22010070

●  Rock-20020105

LOGS

> see all

Device parameters modified – 1...

Device turned on using a token ...

Device added to project – 11.01....

REPORTING

> see all

Event report - 13.01.2022 13:...

Event report - 13.01.2022 13:...

Event report - 13.01.2022 13:...

SHARING

View only

Read / Write

☐ FTP Forward

ALARMS

> see all

Alarm 1 – 13.01.2022 13:39:41 – ...

Alarm 1 – 13.01.2022 13:39:39 – ...

Alarm 1 – 13.01.2022 13:39:27 – ...

STATE OF HEALTH

> see all

No state of health since one week

INFO

MAP

EVENT

BACKGROUND

PROJECT DEMO

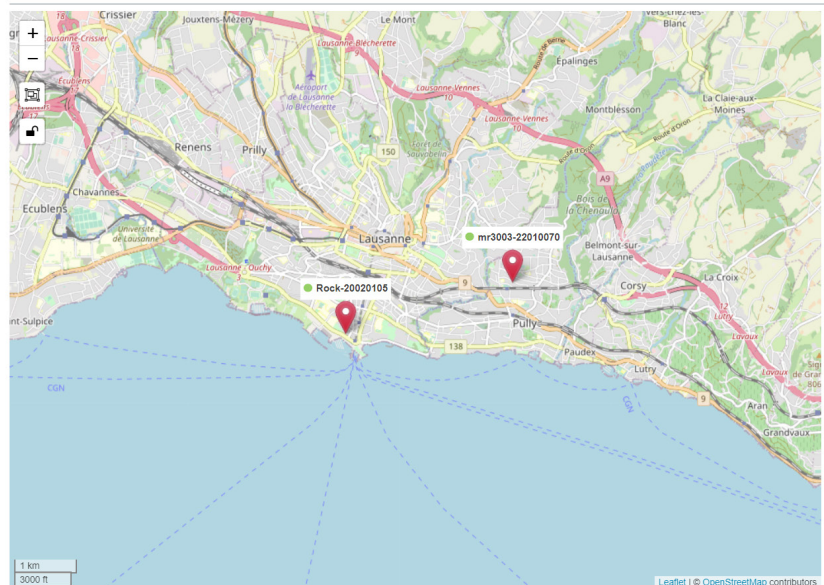
+

-

Full Screen


Layers


Full Screen



1 km
3000 ft

Recorders list

 Rock-20020105

 mr3003-22010070

INFO

MAP

EVENT

BACKGROUND

MAP

- Each instrument can be positioned at its exact location
- The view can be blocked
- Link to Event and Background sections
- The map can be inserted in periodic background reports

EVENT RECORDING

- Listed in a table
- Event and peak information
- Norm comparison
- Export in binary or ASCII format
- PDF reports

Time-domain calculations

- Vector sum
- Calculation of displacement and acceleration (or velocity)

Frequency-domain calculations

- FFT
- Zero-crossing frequency
- 1/3 octave MAX and RMS

PROJECT DEMO 0000012E.SCS - 12.01.2022 08:01:59

All axes X Y Z Data VSUM Freq Report Norm comparison Export

Hide

Previous

New

X [mm/s]

Y [mm/s]

Z [mm/s]



08.01.59.600 08.01.59.800 08.02.00.000 08.02.00.200 08.02.00.400 08.02.00.600 08.02.01.000 08.02.01.200 08.02.01.400

Device name

Rock-20020105

Serial number

20020105

Date

12.01.2022 08:01:59.473

Duration

00:00:02.023

Trigger time

12.01.2022 08:02:00.473

Sampling rate

1000 Hz

Max amplitudes

X: 0.997 mm/s
Y: 1.21 mm/s
Z: 9.76 mm/s
VSUM: 9.82 mm/s

Dominant frequencies

X: 64 Hz
Y: 64.5 Hz
Z: 64 Hz

RMS values

X: 0.0693 mm/s
Y: 0.101 mm/s
Z: 0.737 mm/s

INFO

MAP

EVENT

BACKGROUND

PROJECT DEMO

All axes X Y Z Peak RMS Report Add limit Export

Related events

Period 1d 1w 1m 3m 6m from 06.01.2022 14:40 to 13.01.2022 14:40 Amplitude Auto 2 mm/s

X [mm/s]

Y [mm/s]

Z [mm/s]



7. Jan 8. Jan 9. Jan 10. Jan 11. Jan 12. Jan 13. Jan

Start date

09.09.2021 11:18:52

End date

13.01.2022 14:40:02

Evaluation for

Rock-20020105

Peak max

X: 45.936 mm/s
Y: 34.124 mm/s
Z: 125.37 mm/s

Peak max date

X: 13.01.22 13:39:32
Y: 13.01.22 13:39:32
Z: 13.01.22 13:39:32

INFO

MAP

EVENT

BACKGROUND

BACKGROUND RECORDING

- Continuous values on the 3 channels of the background information recorded
- Selectable data period interval
- Superposition of time histories coming from different devices
- Comparison line can be added to show the reference threshold
- Time period and peak information
- Export in BMR or ASCII format

Periodicity of PDF reports

The reports about the background recording can be generated and sent on a daily, weekly or monthly basis.

POOL SECTION

- List of projects
- Indication of active/idle devices in each project
- Possibility to add/remove devices
- Possibility to pair/unpair devices
- Device activation for a limited time or indefinitely, with a manual stop

HOME PROJECTS **POOL** ADMIN
19 OF 19 TASKS READY

POOL

Drag and drop devices from IDLE POOL to PROJECTS and vice versa.

PROJECTS

MEETING

Rock-18430005 unlimited ON

PROJECT TEST

mr3000-18500223 0d left OFF

mr3000-bla Next fee in 11 days unlimited ON

MR3000C Next fee in 28 days unlimited ON

TESTETS

No device in this project

IDLE POOL

+ Add a device

<mr 23232323> no day left Pair

Delete

Turn on MR3000 device will cost 1 token for 30 days connectivity. Only turned off paired devices can be moved.

Major features

- Compatible with MR3003, MR3000 and ROCK devices
- Open architecture with non-corruptible data
- Management by project
- Pay per use only
- 3 levels of accessibility (Admin-User-Viewer)
- Data visualization and processing
- Multiple format data export
- Comparison with different standard norms
- Automatic user-defined reporting
- Alarm and state-of-health notifications
- Remote parametrization of devices

Tutorial videos available at:
<https://www.syscom.ch/videos>

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Technical Specifications

Accessibility

Compatible instruments
Browser requirements
SCS access

ROCK, MR3003, MR3000
Any browser, internet access required
<https://scs.syscom-instruments.com/>, with username and password

Device pairing

MR3003/MR3000

Token-based for MR3003/MR3000 devices. One token enables connectivity for one MR3003/MR3000 to the SCS for 30 days. Tokens can be purchased in the SCS. One token per device is free.
Automatic. Please refer to ROCK datasheet.

ROCK

Project management

Project information

Active and archived projects, paired/idle instruments, alarms, device state of health, log information, automatic reports

Project-based settings

Standard regulations for data comparison, template for automatic reports, notifications, contact list

Access levels

Administrator (full access), Read/write (project-settings access), View only (project-view access)

Data visualization

Event recording

Time history on the three channels, Vector Sum, FFT, norm comparison

Background recording

Continuous peak values on the three channels, selectable data interval, superposition of time histories from different devices

Standard regulations

Comparison of multiple events with the selected thresholds

Data import/export

Proprietary formats XMR/BMR/*.SCS and ASCII

Data reporting

Event recording

Time histories, VSUM, FFT, 1/3 octave band analysis, norm comparison, user-defined comments

Background recording

Selectable sending periodicity, user-defined comments

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