

SCS Syscom Cloud Software
scs.bartec-syscom.com



SCS (Syscom Cloud Software) is the new cloud software developed by BARTEC SYSCOM for the management, visualization and reporting of data coming from 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 all the MR3000 instruments. Fully designed by Bartec Syscom and dedicated to civil engineering 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 categorization, data filtering, Fast Fourier Transform (FFT) and graphical comparison with widely spread standards (DIN 4150-3, SN 640312, French regulation, BS 5228, NP 2074 and others on request). 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 MR3000 devices.

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Connection to SCS



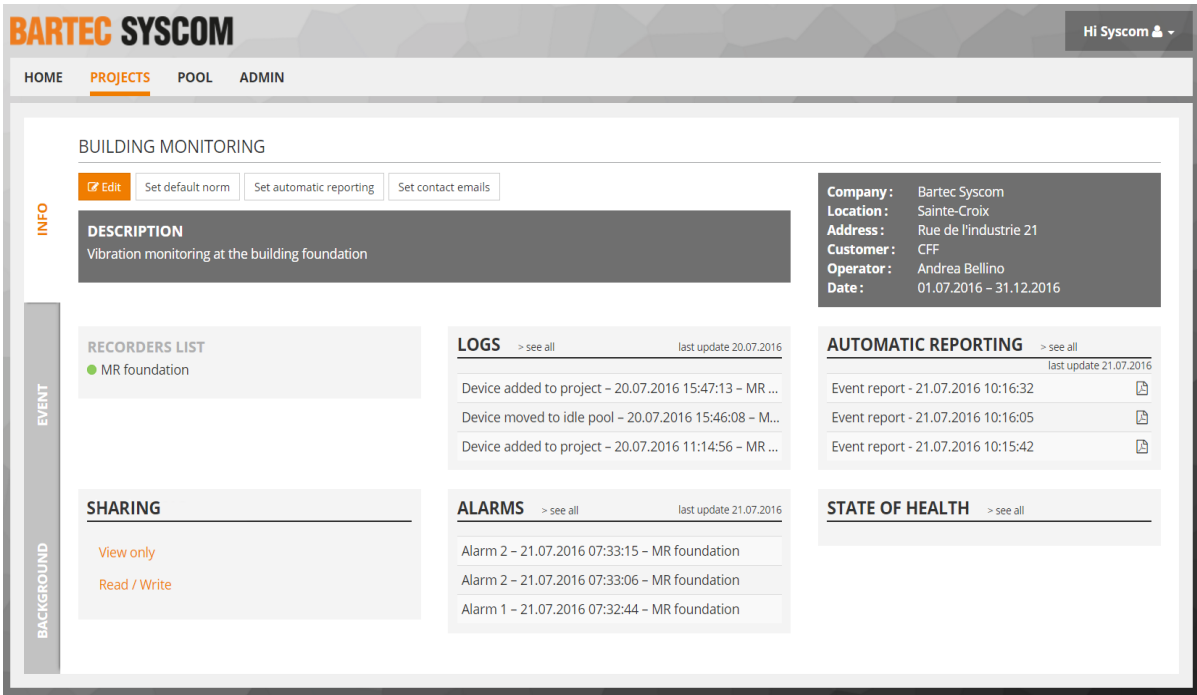
Flexible and versatile data management

 Device management	List of active/idle devices in the project Possibility to add/remove devices Possibility to pair/unpair devices Remote device parametrization
 3 accessibility levels	Administrator: full access Read/write: access to visualization and project settings View only: only visualization




The simplest and most reliable way to transfer data from MR3000 devices

 Simple and cost-effective	No software to be installed or purchased Direct access with a browser Easy data export in different formats Pay per use only
 Reliable	Swiss hosted server Data transfer protected with SHA-256 secure hash algorithm Data always available, even if the devices are idle Data archiving 4 GB free memory space
 Compatible to MR3000 family	MR3000C MR3000TR MR3000BLA MR3000SB MR3000DMS

Project home page



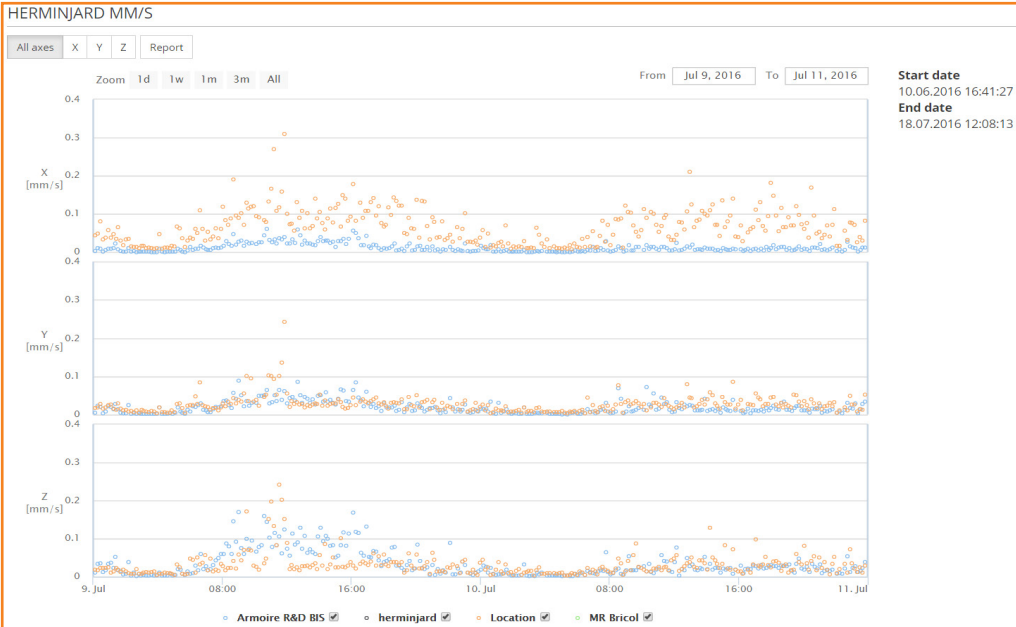
State-of-the-art features for automatic data processing, reporting and notifications

 Standard regulations	DIN 4150-3 (Germany) SN 640312 (Switzerland) Cirulaire du 23/07/1986 (France) BS 5228 (UK) - NP 2074 (Portugal) Others on request
 Automatic reporting	Selectable report content for event and background recording Reports automatically sent by SCS Project-based contact list
 Notifications	Visualization of alarms coming from the devices State of health information of the devices Log information

EVENT RECORDING

Time history on the three channels
Vector sum
FFT
Norm comparison
Event information

The events coming from all devices are listed in a table. The events can be filtered and ordered based on device name, date, duration, peak and user-defined comment.



BACKGROUND RECORDING

Continuous peak values on the three channels
Selectable data interval
Background information
Superposition of time histories coming from different devices

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

Major features

- Automated devices access (any MR3000)
- 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 standard regulations:
 - DIN 4150-3 (Germany)
 - SN 640312 (Switzerland)
 - Circulaire du 23/07/1986 (France)
 - BS 5228 (UK)
 - NP 2074 (Portugal)
 - Others on request
- Automatic user-defined reporting
- Alarm and state-of-health conditions
- Parametrization of MR3000

Technical Specifications

Accessibility

MR3000 requirements
Browser requirements
SCS access

Firmware 1.8.x or more recent
 Any browser, internet access required
 scs.bartec-syscom.com, with username and password

Device pairing

Activation

Token-based. One token allows pairing one MR3000 to the SCS for 30 days
 Tokens can be purchased in the SCS. One token per device is free

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, emailing

Access levels

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

Data visualization

Event recording

Background recording

Time history on the three channels, Vector Sum, FFT, norm comparison
 Continuous peak values on the three channels, selectable data interval, superposition of time histories from different MR3000 devices

Standard regulations

Data import/export

Comparison of multiple events with the selected thresholds
 Proprietary formats XMR/BMR and ASCII (only export)

Data reporting

Event recording

Background recording

Time histories, VSUM, FFT, norm comparison, user-defined comments
 Selectable sending periodicity, event reports in the selected interval, user-defined comments



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Pair a new device

- Access the SCS on scs.bartec-syscom.com;
- Add a new device in the section Pool, by inserting a name and a serial number;
- A code is automatically generated by the cloud software.

BARTEC SYSCOM

Your pairing request has been saved!
 Please take note of the following token as it's gonna be required later on in the pairing process.

d562 417a

*This token **cannot** be shown again.*

After your device is paired, you will have to log out and back in.

- Log into the MR3000 WebUI (firmware 1.8.x or more recent);
- Select the time synchronization through NTP and define the proper time zone;
- Enter the code generated by the SCS and click on "Peering";
- Define the periodicity of the complete synchronization between the MR3000 and the SCS.

The screenshot shows the MR3000 WebUI interface. At the top, there are tabs: START, STATUS, SYSTEM (selected), USER PARAMETERS, VIEW, MASTER, and RECORDING LIST. On the left, there is a sidebar menu with options: SD-Card, Time, LAN, Wi-Fi, Mobile, DDNS, OpenVPN, Mail, FTP send, and Cloud (highlighted with a red circle). The main panel displays configuration settings for the 'Service' (Status: up), 'Peering' (Token: d562417a, with an 'Unpeering' button), and 'Synchronization' (Sync status: idle, Last sync: 17/06/2016 07:47:33, Sync interval (min.): 60).

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