

R&S® CeLo CENTRAL LOGISTICS

Web application for configuration management



Product Brochure
Version 02.00

ROHDE & SCHWARZ

Make ideas real



AT A GLANCE

The R&S®CeLo Central Logistics web application enables configuration management for extensive material inventories. It is custom tailorable and features an advanced web based GUI for secure and uniform access to inventory and tracking data.

R&S®CeLo Central Logistics software is a web application for configuration management. The installation includes a web server, which – depending on the use case – makes the software accessible from any browser via the internet or within a VPN network. In addition, state-of-the-art security standards in line with the IT Grundschutz Compendium of the Bundesamt für Sicherheit in der Informationstechnik (Federal Office for Information Security, BSI) protect it against unauthorized access.

Users can be assigned different roles to allow administrators, project managers and technical personnel customized access to data.

R&S®CeLo Central Logistics can model any device landscape. Equipment is organized by location, installed position and depot and can be quickly identified using flexible search functions. Create nested device configurations with variable subdevices and enter additional metadata at the device and device-type levels. Installation and removal processes for components can be represented and supplemented with file attachments. The software records every operation automatically in a device history. Project-specific events such as calibration can be added manually. This makes the R&S®CeLo Central Logistics software suitable for use as a tracking tool for servicing complex products.

R&S®CeLo Central Logistics main view: the navigation tree on the left shows the folder structure and device hierarchy. The detail view on top displays information about the subdevices in the selected system. The tabs on the bottom show supplementary information, such as the next-deeper installed level, device history or file attachments for the device or its device type.

R&S®CeLo Central Logistics

search for []

- R&S Project ABC
 - Australia
 - Austria
 - Belgium
 - Canada
 - Chile
 - Croatia
 - Denmark
 - Egypt
 - Finland
 - France
 - Germany BAYERN
 - Memmingen
 - München
 - Calibration Lab
 - Deposit Hall München
 - System - GM QPS200 QUICK PER. SEC. ...
 - System - GM QPS200 QUICK PER. SEC. ...
 - System - GM QPS200 QUICK PER. SEC. S...
 - System - GM QPS200 QUICK PER. SEC. S...
 - System - GM QPS200 QUICK PER. SEC. S...
 - System - GM QPS200 QUICK PER. SEC. S...
 - System - GM QPS201 - 101594
 - System - GM QPS201 - 101595
 - System - GM QPS201 - 101596
 - System - GM QPS201 - 101598
 - System - GM QPS201 - 101599
 - System - GM QPS201 - 101600

Items/Types for: 'System - GM QPS201 - 101595'

Group	Name	Part No.	MFC	Op.	Serial No.	Comment (Item)	PDM link	Alarms
Subsystem	GM QPSP1 PANEL QPS101/201 5014	1333.5200.02	D0894	●	101702	Slave	🔗	
Subsystem	GM QPSP1 PANEL QPS101/201 5014	1333.5200.02	D0894	✖	101704	Master	🔗	01/18/23
Subsystem	GM QPSP1-B100 AIREX MIT AVATAR	1333.5017.02	D0894	●	101003		🔗	
Subsystem	GM QPSP1-B101 AIREX OHNE AVATAR	1333.5017.03	D0894	●	101003		🔗	
Subsystem	GM QPSP1-B150 GPU STANDARD	1333.5023.02	D0894	●	101031	Airflow important	🔗	
Subsystem	GM QPSP1-B150 GPU STANDARD	1333.5023.02	D0894	●	101040	Airflow important	🔗	
Subsystem	GM QPSP1-B201 FLOORPLATE QPS201	1333.5117.02	D0894	●	101301	hold by Torx T30 scr...	🔗	
Subsystem	GI QPS-Z10 HAUPT-/BEDIENERMONITOR	1316.5893.03	D0894	●	101185		🔗	
Subsystem	GS MWI-Z101 CABIN SET MWI-Z101 Cabin ...	1316.6154K0...	D0894...	●			🔗	
Subsystem	GS QPS-Z110 CABIN MONITOR 15	1316.6025.02	D0894	●	101322	02219-032-446-973	🔗	
Subsystem	GS QPS-Z110 CABIN MONITOR 15	1316.6025.02	D0894	●			🔗	

Equipment | Manufacturer | Item Attachments | Type Attachments | **History** | Build-In/Removal

History for: 'Subsystem - GM QPSP1 PANEL QPS101/201 5014 - 101704'

Date	Status	Service No.	Error code	Attachment	Comment	User
2/13/23, 10:46 AM	Meta data changed					Kira Jung
2/13/23, 10:45 AM	Meta data changed					Kira Jung
1/17/23, 11:11 AM	manual: BIOS update	RS#667800		📎 Prot_12.docx	Update failed!	Kira Jung
1/16/23, 2:31 PM	manual: Service notification	RS#667800		📎 BIOS_12_438.zip	new BIOS feature needed	Kira Jung
6/16/21, 11:23 AM	Comment changed					Maya Mus
12/11/18, 11:14 AM	Installation Sub-Item: New	RS#646237			Einbau von Mainboard 1333.6042.02 in QPS...	Max Muste
12/11/18, 11:05 AM	Removal Sub-Item: Defect	RS#646237			Ausbau von Mainboard 1333.6042.02 aus QP...	Max Muste
11/16/18, 7:40 AM	Installation Sub-Item: New	RS#639243			Einbau von Mainboard 1333.6042.02 in QPS...	Max Muste
11/16/18, 7:38 AM	Removal Sub-Item: Defect	RS#639243			Ausbau von Mainboard 1333.6042.02 aus QP...	Max Muste
7/26/18, 12:19 PM	Item created					Max Muste

KEY FACTS

- ▶ Configuration management for extensive material inventories
- ▶ Device localization by location, depot and installation structure
- ▶ Tracking of installation, removal and maintenance processes
- ▶ Administration of nested device groups
- ▶ Unlimited project-related supplementary information
- ▶ Flexible license models

CI	Location	order number	IP-address	Installation date	Acceptance date	Gateway	software-version	Assignee Initials	Maintenance	Assignee
12.02										
12.02	München A-156	04522634-001				B5	4.22.1	kj	1.Q 2024	Kira Jung
05.00	München A-156	04522634-001				B5	5.0.3		1.Q 2024	
05.00	München A-156	04522634-002				B5	4.22.3	kj	3.Q 2024	Kira Jung
03.00	München A-156	04522634-002		07/26/18	07/27/18	B5	14.06	mm	2nd Quarter 24	Max Mustermann
03.00	München A-156	04522634-002		07/26/18	07/27/18	B5		mm	2nd Quarter 24	Max Mustermann
07.00	München A-156	04522634-001				B5		kj	4. Quarter 25	Kira Jung
05.01	München A-156	04522634-001	123.456.78.9			B5	57.421.A		1.Q 2024	
07.00	München 101595	04522634-001							2.Q 2024	

Material consumption	Associated Item	Target Folder
0		
0		
0		
0		
0		
0		
0	Yes	
0	Yes	
0	Yes	
0	Yes	
0	Yes	
0		

CONFIGURATION MANAGEMENT FOR EXTENSIVE MATERIAL INVENTORIES

- ▶ Realistic model of a device landscape and its condition
- ▶ Administration of nested device groups with unlimited hierarchical depth
- ▶ Device localization by location, depot and installed structure
- ▶ Tracking of installation, removal and maintenance processes
- ▶ Search function for devices and device types with a wide range of filtering and sorting options

R&S®CeLo Central Logistics makes it possible to model all of the essential aspects of logistics in a single application.

Devices are listed by location or installation hierarchy but are also globally searchable. Configuration changes can be made with just a few mouse clicks or by drag&drop. Every such operation is documented automatically and can be supplemented by metadata and files.

Device search:

Devices can be filtered and sorted throughout the entire project using numerous data fields. The same can be done with device types, alarms, attachments and other aspects.

R&S®CeLo Central Logistics - Item Search <i>S1000D BIKE</i>												
<input type="checkbox"/> in Depots <input type="checkbox"/> empty position <input type="checkbox"/> Search in all available projects (without metadata)												
Items												
Group	Name	Part No.	MFC	UOI	Op.	Serial No.	Client	Comment (Item)	Condition	Alarms	Located at	Root type
System	Bicycle	BICYCLE001	D0894	EA		BI001-0001	B.K. 675		new	02/09/23 12:18	Cologne store	
Component	Frame	BICYCLE-001/1	D0894	EA		BI002-0001	B.K. 675		new		Cologne store	Bicycle
Component	Seat	BICYCLE-001/2A	K6317	EA		BI002A-0002	B.K. 675		slightly used		Cologne store	Bicycle
Component	Seat, Cruiser	BICYCLE-001/2B	K6709	EA		BI002B-0001	B.K. 675		heavily used		Storage bin B	
Device	Brake	BICYCLE-001/5	D0894	EA		BI005-0001	B.K. 675		new		Cologne store	Bicycle
Subsystem	Steering	BICYCLE-001/3	K6317	EA		BI003-0022	B.K. 675		new		Cologne store	Bicycle
Subsystem	Drive train	BICYCLE-001/4	U3577	EA		BI004-0047	B.K. 675		new		Cologne store	Bicycle
Component	Front Wheel	WH-001	K6317	EA		WH001-004	B.K. 675		new		Cologne store	Bicycle
Component	Rear Wheel	WH-002	K6317	EA		WH002-009	B.K. 675		new		Cologne store	Bicycle
Subsystem	Light System	LRU1001	C7164	EA		L1001-002	B.K. 675		new		Cologne store	Bicycle
Device	Light, front sub-assembly	LRU1010	VV302	EA		L1010-02	B.K. 675		new		Cologne store	Bicycle
Device	Bracket, light mounting	LRU-B001	C7164	EA		LB001-05	B.K. 675		new		Cologne store	Bicycle
Device	Light, rear sub-assembly	LRU2010	U3577			L2010-04	B.K. 675		new		Cologne store	Bicycle
Component	Computer, GPS	CP-003	D0894	EA		CP3-006	B.K. 675	Customer broke it	Scratched		Retoure	

CUSTOM SOLUTIONS

- ▶ Unlimited project-related supplementary information
- ▶ File upload for every device, device type and every task
- ▶ Project based user rights
- ▶ Import from existing systems and export from data tables to Excel
- ▶ Automatic linking to other web applications
- ▶ Language selection of German or English; other languages on request

The application is highly adaptable to customer-specific requirements. Customers can add their own data fields for devices and device types to represent information such as their own serial numbers or supplementary information such as version numbers, contact persons or product specifications. Like the master data, this supplementary information can be searched, sorted and filtered.

Moreover, files can be added to any object and operation in order to integrate instructions, software updates, testing and error logs in a way that makes them easy to find. These attachments are also globally searchable.

Sophisticated rights management allows project administrators to assign read-only rights or varying degrees of write access to individual users. The language can be toggled between German and English at any time.

Adaption to existing systems is possible via imports of device types, devices and device hierarchies including project specific data fields. In addition, links to web services operating in parallel can be integrated without having to enter the link for each device separately. This makes integration into existing company processes easier.

Defining project-specific data:

At the device and device-type levels, users can add as many columns as they like. Free text fields or user-defined fixed value sets are both possible.

List of default and metadata columns												
For project 'S1000D BIKE':												
Sequence	Column kind	Meta Sequence	German	English	Row width	Hidden	Show in OM view	In profile hidden	Links	fixed values?		
<input type="checkbox"/>	1	default type data	--	Gruppe	Group	120	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	2	default type data	--	Name	Name	240	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	3	default type data	--	Tkz	Part No.	100	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	4	default type data	--	HSTK	MFC	60	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	5	project related type metadata	3	SAP link	SAP link	30	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	6	default type data	--	Bemerkung (Typ)	Comment (Type)	150	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	7	default type data	--	Handlungsbedarf	Urgency	20	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	8	project related type metadata	1	CSN	CSN	120	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	9	project related type metadata	2	Bezugseinheitencode	UOI	120	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	10	default item data	--	Projekt	Project	100	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	11	default item data	--	Serial-Nr. (übergeordnet)	Serial No. (superior)	180	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	12	default item data	--	Ordner/Depot	Folder/Depot	100	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	13	default item data	--	E.f.	Op.	20	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	14	default item data	--	Serial-Nr.	Serial No.	180	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	15	project related item metadata	2	Kunde	Client	60	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	16	default item data	--	Bemerkung (Item)	Comment (Item)	150	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	17	project related item metadata	3	Zuständige Person	Assignee	120	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	18	project related item metadata	1	Wertigkeit	Condition	80	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	19	default item data	--	Zustand	State	120	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	20	default item data	--	Alarmer	Alarms	90	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

A WEALTH OF ADDED FUNCTIONS

- ▶ Obsolescence analysis – actual mean time between failures (MTBF) compared with manufacturer information
- ▶ The history of every device is tracked automatically
- ▶ Documentation and monitoring of operational readiness, from spare parts to overall systems
- ▶ Alarm function – configurable email notifications, i.e. when calibration is due
- ▶ Plannability of maintenance work and spare parts procurement

Numerous additional functionalities were implemented in R&S®CeLo Central Logistics to reduce the overall number of tools needed. Thanks to automatic tracking of installation and removal processes, the MTBF can be calculated at any time. Manual administration of the operational readiness of devices is also possible in order to create a quick and complete overview of operational equipment.

Use the alarm function to remind individual users either within the application or by email of key dates such as upcoming calibrations or inspections.

The optional R&S®CeLo Central Logistics obsolescence management module (OM module) offers a special planning view that allows the administration of lifecycles for various types of devices. Market analysis, replacement procurement and other processes can be planned and tracked using its graphical timeline display. This makes it possible to phase out and replace obsolete systems in a controlled manner.

The following is an example of embedding into existing tool landscapes:

A rule based approach can be applied to generate links from all devices to web services in the company.

Link settings for 'SAP link'

i Help... (click)
*These options allow for automatically generated links, using the column contents and adding a fixed prefix and suffix.
For example, if a column holds the java version numbers, then the links to the corresponding release notes on java.net can be created.
This can be useful for redirecting to other web services or file shares that use the same identifiers as in R&S®CeLo Central Logistics, like serial numbers or mfc.*

General usage of links: **i** Help... (click)
*Per default, R&S®CeLo Central Logistics detects hyperlinks in the type and item data and displays them accordingly.
This behaviour can be disabled here.
In addition, R&S®CeLo Central Logistics can differentiate between valid and invalid links. (not yet available)*

Different data source: **i** Help... (click)
*Per default, data from the own column is taken as source for the generated links.
But any other column can be set as data source.
Note: This can lead to situations where the original data of this column is newer displayed.*

Prefix: **i** Help... (click)
Will be concatenated at the beginning, e.g. 'https://jdk.java.net/1'

Suffix: **i** Help... (click)
Will be concatenated at the end, e.g. '/release-notes'

Trim characters at the beginning: **i** Help... (click)
*Number of characters that will be truncated from the data
Example: For the entries 'java V1.7.', 'java V1.8.', etc. the text '7', '8', etc. can be extracted by using the values 8 and 1.
Together with the above prefix/suffix the generated Link looks like this: 'https://jdk.java.net/17/release-notes'*

Trim characters at the end:

How to display links: **i** Help... (click)

Fixed text for links:

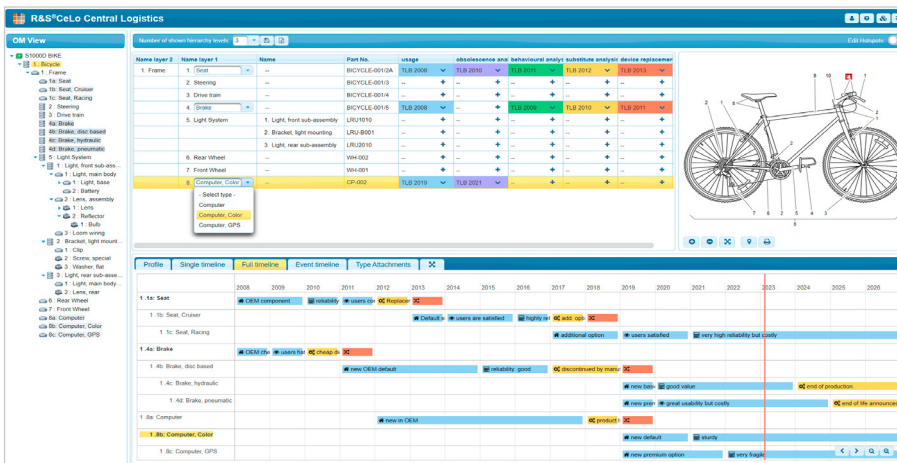
How to display invalid links: **i** Help... (click)

Fixed text for invalid links:

REFINED USER EXPERIENCE AND SOLID DATA MANAGEMENT

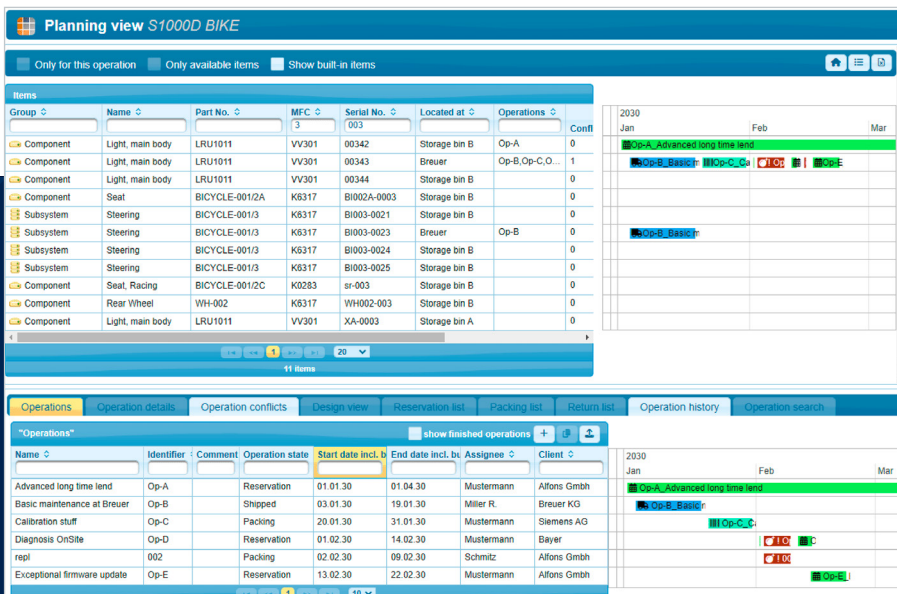
- ▶ Intuitive and simple operation of a web based application
- ▶ Simultaneous, distributed access based on a secure data architecture
- ▶ Ensured data integrity – protection from unintentional or unauthorized changes
- ▶ Database and IT security architecture has been tried and trusted for years
- ▶ Based on globally proven open source software

The application is based on an advanced, scalable architecture. Its user interface conforms to current standards for professional web applications, and its data storage is secured by comprehensive backup options.



Obsolescence management view:

Planning of calibration, reliability analysis and replacement procurement intervals for device types. Intuitive navigation with linked graphics.



Planning view:

Field service planning, automatic detection of conflicts, graphical tool for reserving devices, workflows for shipping and returns.

FLEXIBLE LICENSE MODELS

- ▶ Configuration management database in the hands of the customer
- ▶ Integration of the software into customer servers and IT infrastructure
- ▶ Customer-specific adaptations possible
- ▶ Data storage, maintenance and administration by the customer
- ▶ Optional service level agreement

R&S®CeLo Central Logistics as standalone software

R&S®CeLo Central Logistics architecture consists of an installation routine for the server application and a license key that can be extended annually.

R&S®CeLo Central Logistics Basic

The basic version is suitable for small or single projects. It offers full functionality to an unlimited number of users with simultaneous access. Data quantity is unlimited but this version is limited to a single project.

R&S®CeLo Central Logistics Enterprise

With the enterprise version, different projects can be managed in a company. Define different user groups and rights, and use different metadata. The number of projects is unlimited.

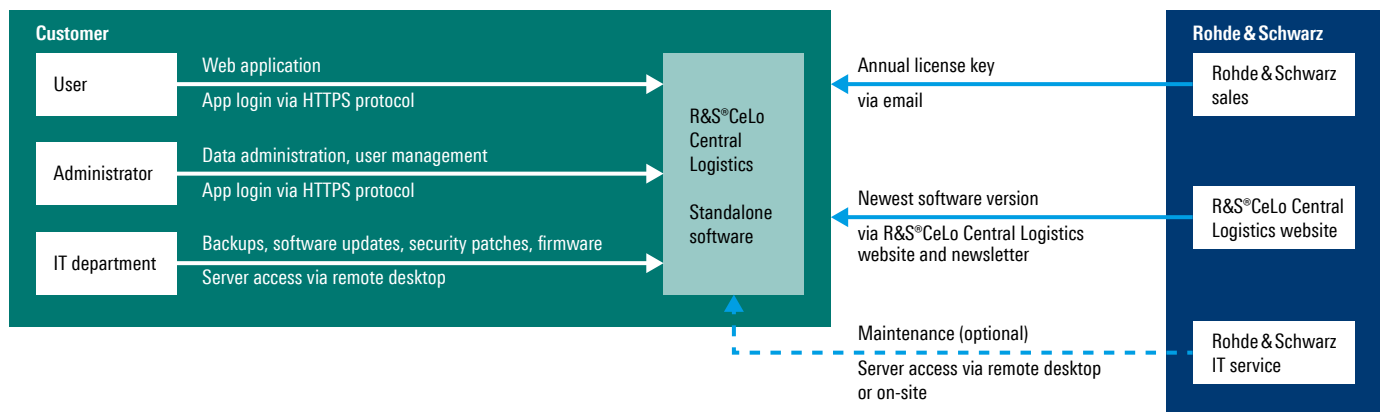
Obsolescence management module

The R&S®CeLo Central Logistics OM module is an optional extension for the basic and enterprise versions. It enables clear lifecycle tracking for all device types. Obsolescence analysis, replacement procurement processes and planning of further measures.

Planning module

The R&S®CeLo Central Logistics Planning module extends the application with a graphical view where groups of devices can be put together for operations. The module automatically detects conflicts due to multiple reservations, expired calibrations, defective devices and more. It provides workflows for registering devices using a barcode scanner and for tracking field service operations.

R&S®CeLo Central Logistics architecture



R&S®CeLo Central Logistics software as a service (SaaS)

In addition to the standalone software described here, Rohde & Schwarz also offers R&S®CeLo Central Logistics in the form of software as a service. In this case, Rohde & Schwarz handles hosting and data administration. Server configuration can be custom adapted to various security classifications and their requirements.

SPECIFICATIONS IN BRIEF

Specifications in brief

System requirements

Operating system		Windows 10 (64 bit) Windows 11, Windows Server 2012, Windows Server 2019
Processor		x86 architecture, min. 4 cores
RAM		min. 4 Gbyte, 16 Gbyte recommended
HDD/SSD		min. 10 Gbyte, 80 Gbyte SSD recommended
Network connection	LAN	100 Mbit or faster
	WLAN	IEEE 802.11a or faster
Network sharing		One open network port for application access via the HTTPS protocol; the standard port 443 is recommended. The application can also be operated without network sharing, but then it is only accessible locally.
Database	when using an SQL server	Microsoft SQL Server Express 2022

ORDERING INFORMATION

Designation	Type	Order No.
Basic version ¹⁾ Configuration management software, limited to one project	R&S®CeLo Central Logistics Basic	3719.7158.06
Enterprise version ¹⁾ Configuration management software, unlimited number of projects	R&S®CeLo Central Logistics Enterprise	3719.7158.02
OM module ¹⁾ Obsolescence management extension, for R&S®CeLo Central Logistics Basic and R&S®CeLo Central Logistics Enterprise	R&S®CeLo Central Logistics OM	3719.7158.04
Planning module ¹⁾ Planning extension, for R&S®CeLo Central Logistics Basic and R&S®CeLo Central Logistics Enterprise	R&S®CeLo Central Logistics Planning	3719.7158.08

Your local Rohde&Schwarz expert will help find the best solution for you.

Contact your local Rohde&Schwarz sales office for more information, www.sales.rohde-schwarz.com

¹⁾ The products listed contain only a license key and the software as an installation packet.
A server is required to run the application. The cost of the server is not included in the price.

Service at Rohde & Schwarz
You're in great hands

- ▶ Worldwide
- ▶ Local and personalized
- ▶ Customized and flexible
- ▶ Uncompromising quality
- ▶ Long-term dependability

Rohde & Schwarz

The Rohde&Schwarz technology group is among the trail-blazers when it comes to paving the way for a safer and connected world with its leading solutions in test & measurement, technology systems and networks & cybersecurity. Founded 90 years ago, the group is a reliable partner for industry and government customers around the globe. The independent company is headquartered in Munich, Germany and has an extensive sales and service network with locations in more than 70 countries.

www.rohde-schwarz.com

Sustainable product design

- ▶ Environmental compatibility and eco-footprint
- ▶ Energy efficiency and low emissions
- ▶ Longevity and optimized total cost of ownership

Certified Quality Management

ISO 9001

Certified Environmental Management

ISO 14001

Rohde & Schwarz training

www.training.rohde-schwarz.com

Rohde & Schwarz customer support

www.rohde-schwarz.com/support

