

Instruction manual

CS Leak Reporter Cloud Solution for LD 500 / LD 510 Leak Detectors

Email	
Password	
LOG IN	
Forgot Password?	
NEW USER?	
English -	

www.leak-reporter.com

 \rightarrow The user who uses the license key to create an organization automatically becomes Super-Admin of the system.



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Inhalt

2	. F	ore	eword	4
3	. N	lote	es	5
	3.1	. /	About this document	5
	3.2	. [Disclaimer	5
4	. (Gene	eral functional description	5
5		Syst	tem requirements	5
6		-	of the CS Leak Reporter Cloud Solution	
7			ration	
	7.1	•	Application start	
	7.2		Leak Reporter Cloud Solution Activation	
	7	.2.1.		
	7	.2.2.	Activation of access to the Leak Reporter Cloud Solution	7
	7	.2.3.	Manage CS-ID account within the apps	8
8	. L	eak	k Reporter Cloud Solution	9
	8.1		Available rights and usable functions	
	8.2	. I	Import database	9
	8	8.2.1.	Data import leakage	0
	8.3	. (Companies management14	4
	8	8.3.1.	. Show company	4
	8	3.3.2.	. Company master data 14	4
	8	8.3.3.	. Building1	5
	8	8.3.4.	. Companies - Projects1	5
	8.4	. E	Edit project master data10	6
	8.5	. L	Leakage overview1	7
	8.6	. (Create report2	1
	Exc	cel R	Report	2
	8.7	. L	Leakage repair DB22	2
	8.8	. F	Recycle bin2	3
	8.9	. [Database24	4
	8.1	0.	Update overview	5
	8.1	1.	Learning program2	5
9	. ι	Jser	r and access management [Permissions]20	6
	9.1	. I	Introduction	6
	9.2	. ι	User management	6
	9	.2.1.		
	9	.2.2.	. User overview	7
	9	.2.3.	. Create a user	9
	9	.2.4.	. Edit a user	3
	9).2.5.	. View of a user	3

9.3.	esource management	33
9.4.	ole management	33
9.4.1	Standard Roles Leak Reporter Cloud Solution	33
9.4.2	New role in Leak Reporter Cloud Solution	34
9.5.	ecycle bin	35



2. Foreword

Dear Customer,

if you have a leak detector **LD 500 / LD 510** (abbreviated as LD 5X0 in the text below), you can export the leakages from the LD 5X0 and import and evaluate them using the **CS Leak Reporter Cloud Solution** software.

Data transfer via USB stick makes report generation child's play. You can transfer the stored leakages into a report and easily manage and supplement the data in the process.

In addition, you can import your existing data from Leak Reporter V1 and Leak Reporter V2 if you have already used this software. Otherwise, these points are irrelevant for you.

Due to the central database every user always accesses the current database, additionally the data security is higher due to automatic data backups.

The Leak Reporter software enables a multi-user system - so for each user you can individually define which data he/she has access to and which functions he/she can use.

Main functions:

- Manage companies / buildings / projects / measurements
- Complete company data
- Manage projects
- Manage measurements
- Documentation / report generation
- Picture of the leakage point
- Date / Time
- Size of leakage in liters/min (units adjustable)
- Cost of leakage per year in € (currency freely definable)
- Description of the leakage position with indication of company / department
 or hall / machine

• Information about the leakage repair (defective element, measure, spare part).

- Totals, priority, CO2 emissions per year, etc.
- User and access management
- Inviting users and guests
- Release of resources (leakage data) and rights for each user
- Generation of individual roles
- User maintenance



3. Notes

3.1. About this document

- Read this documentation carefully.
- Keep this documentation handy for reference when needed.
- Pass this documentation on to subsequent users of the product.

3.2. Disclaimer

CS INSTRUMENTS GmbH & Co. KG makes no warranty as to the fitness for any particular purpose and assumes no liability for errors printed in this manual, nor for consequential damages in connection with the furnishing, performance, or use of this software.

4. General functional description

The CS Leak Reporter Cloud Solution software is used to manage and evaluate leakage data recorded with an LD 5X0 leak detector.

The data can be imported by means of a USB stick, and the images of the leakages from the device are automatically transferred. These can then be supplemented with your own images if required. The measurements can be described in more detail in the software and also initially specified for the project.

In the report, the desired measuring points can be evaluated and transferred into a report. There, the sum values, the information of the leakage costs as well as the imputed quantities for the CO2 emissions / year are also output.

5. System requirements

Hardware	PC / Laptop
Internet connection	Necessary - because browser based
Access	Browser-based (Firefox, Google Chrome)

6. Use of the CS Leak Reporter Cloud Solution

A local installation on your computer is not required, as the CS Instruments software has been installed and is operated on a MS Azure server.

Click www.leak-reporter.com to use the software conveniently from your browser.

\rightarrow The user who uses the license key to create an organization automatically becomes an admin of the system.



7. Operation

The operation is largely self-explanatory, and the software shows appropriate descriptions during the sequences how to operate the software.

Entries or changes can be made in all fields with a white background.

Navigation is via the main menu bar for the

- → Leak Reporter Cloud Solution
- → User and access management [Permissions]

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â	Dashboard	✿ Dashboard			
ŧ	Companies				
Ð	Data Import	info	Social Media	Updates	
Tr	Fault Description DB	Learn Program Follow the link below to get instruction manuals and explanation	LinkedIn in	LD 500 Update Follow this link to download the latest firmware. An installation	
Ð	LD 500 Update	Follow the link below to get instruction mahuais and explanation videos about leak detection of compressed air.		guide is attached in the unpacked ZIP File:	
Ξ	Database	LEARN PROGRAM	[2] FOLLOW US	DOWNLOAD	
P	Auditor	Video	Contact	Products	
ō	Recycle Bin	How To	Contact Us	Our Products	
0	Access Managemen	How to implement a complete compressed air monitoring system within an industrial environment?	SALES OFFICE SOUTH Zindelsteiner Straße 15 D-78052 VS-Tannheim T: +49 7705 978 99 0	Find out more about our entire product portfolio	
۲	Learn Program		INFO@CS-INSTRUMENTS.COM	C visit	

7.1. Application start

Click www.leak-reporter.com to use the software conveniently from your browser.

The language can

be selected with the button.

7.2. Leak Reporter Cloud Solution Activation

DE 🕶

7.2.1. General information

If you have purchased a license key, you can create an "Organization". In this license key is stored how many users the admin is allowed to create.

\rightarrow The user who uses the license key to create an organization automatically becomes an admin of the system.

→ Each user can log in twice in parallel with his account

The software can be tested free of charge for 30 days with the trial license key. After the 30 days the software locks and you need a license key to activate the permanent access. There is demo data in the test organization, so you can test the software without LD 500.



- 7.2.2. Activation of access to the Leak Reporter Cloud Solution
- 1. Go to the following URL: www.leak-reporter.com and click on [new user].
 - 2. Register now with your email address and contact details

Personal Info	
Email*	Company*
Password*	Confirm password*
First name*	Last name*
Relationship	Phone
Country* •	Street*
City*	Zip or Postal code*
Subscribe to news letter for latest updates on products With your registration you agree to our privacy policy	
REGISTER	BACK TO LOGIN
English	

- 3. After successful registration you will receive a confirmation email to verify your account
- 4. Now activate an organization with the license key
 - 1. Click [ACTIVATE LR CLOUD LICENSE].
 - 2. You can find the license key on the enclosed delivery bill and the USB stick

Leak Reporter Cloud Solution	Activate License
ACTIVATE LR CLOUD LICENSE	I do not have a license key. Activate 30 days trial license. I have purchased a license key. Activate the license.
REQUEST AN ENQUIRY	License Key *
LEAK REPORTER CLOUD APP	Organization *
LEAK REPORTER PRODUCT INFO	CANCEL CONFIRM



- 5. Now you have generated an "**accessible organization**" and can use the software. Now click on
 - 1. "Access Management" to invite people to the cloud
 - 2. "Leak reporter" to process the leakage data

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≙	Home Access Managemen Leak-Reporter	•	Firstname *	nal Data Lastrane *	Personal Actions update password delete account change email		Leak Repo Solu Activate Lr of Request AN	Lion Loud License	_
			Corpory CS Instruments Fax Street Zindelsteiner Str. 15 Country * Germany Department	Telephone Mobile City null 209 78052 Relationship			LEAK REPORTER LEAK REPORTER Accessible Or pero 2 pero 2 pero 2 control pero 4 pero 2 control pero 4 pero 2 control pero 4 pero 2 pero 2 p	PRODUCT INFO ganizations	

7.2.3. Manage CS-ID account within the apps

In the black menu bar, you can manage your account within the

- Leak Reporter Cloud Solution
- User and access management

			C S MERINANS	© email	⊕EN + ∋
Home Access Management Leak Reporter	Perso	nal Data	Personal Actions update password delete account	Leak Repor Solut	ion
	Company CS Instruments Fax Street Zindelsteiner Str. 15 Country*	Telephone Telephone Mobile City null ZiP 78052 Relationship	CHANGE EMAIL	LEAK REPORTER LEAK REPORTER Accessible Opt Demo 2 Demo 2 Demo 1 C Demo 1 C Demo 1	RODUCT INFO

1. Change of user data and organization

2. Changing the organization (if you are a member of more than one organization)

3. Log out of your account



8. Leak Reporter Cloud Solution

8.1. Available rights and usable functions

Since each user logs in using an e-mail address, the system administrator can configure individually for each user,

Which leakage data (companies>projects) he is allowed to see 1.

2. Which functions he is allowed to use (assigned role: admin, technician, guest).

There are 3 roles available by default. However, individual roles can also be generated within the user and access management. Role of the technician:

60	CS INSTRUMENTS			Technician	n 0
ଜ ଜ	Home	Rolensme Technician	Description Can create a	and edit resources	
	Manage Users				
	Manage Resources		Database	0	
	Manage Roles		access		
ſ	Leak-Reporter		Company Data	Write	
	Recycle bin		Project Data	0	
			read	write	
			Leakage Data	0	
			read	🗹 write	
			Leak data import	0	
			 access 		
			Fault description database	0	
			access		
			Documentation of Repair	0	
			read	🗹 write	

8.2. Import database

If you have been using Leak Reporter V1 or Leak Reporter V2 until now, you can import the existing database into Leak Reporter Cloud Solution.

Please make sure that you do not unpack the Leak Reporter V1 database and import the ZIP file directly.

- In addition, the Leak Reporter V1 must be at least on the release level 1.3.7. •
- Leak Reporter V2 and Leak Reporter Cloud Solution share user interfaces for the most part.

Note: The database import may be performed only by users who have a role (Admin) with the appropriate privilege to protect the database from improper access.



	(1) E	<pre>kport database Leak Reporter</pre>	V1
CS Leak Reporter 1	.3.7		– 🗆 X
File View Help			
		www.cs-instruments.com	
	DATABASE	Dashboard // Database	EN -
	Database		
	Export database	Import database clear database	

(2) Export database Leak Reporter V2

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	Dashboard	R Dashboard / Database			
∎b	Companies				
	Data Import	Import	Export	Clear	
۵	Project Import	Click on "Select" to import or restore a saved	Click on "Generate File" to create a backup of the	Click "Clear Data" to delete all data within the Leak	
	Fault Description DB	database (Leak Reporter V1 or V2). The existing database will be extended with the data from the	database. This generated file can be used in import to restore the current data.	Reporter. Warning: this action cannot be undone!	
	LD 500 Update	selected database.			
	Database	€ SELECT	∂ GENERATE FILE	🛆 CLEAR DATA	
	Recycle Bin				
Ð	License				

(3) Import Database in Leak Reporter Cloud Solution

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ŵ	Dashboard	-	Dashboard / Database					
	Companies							
Ð	Data Import		Import	Export	Clear			
Tr	Fault Description DB		Click on 'Select' to import or restore a saved	Click on "Generate File" to create a backup of the				
	LD 500 Update		database (Leak Reporter V1 or V2). The existing database will be extended with the data from the	database. This generated file can be used in imp to restore the current data.	ort Reporter. Warning: th	is action cannot be ur	ndone!	
=	Database		selected database.					
	Auditor		▲ SELECT	GENERATE FILE				
ô	Recycle Bin		E sector	C GENERALE PILE		O CLEAR DAIN		
ø	Access Management							
\$	Learn Program							

8.2.1. Data import leakage

، (ب	CS INSTRUMENTS	Common	(2) Mustermann Max EN +
ଜ	Dashboard		
llo	Companies	FOLDER XML LEAKAGES	TARGET
Ð	Data Import	• • • • • • •	٠
۵	Project Import		
	Fault Description DB	Folder	
	LD 500 Update	Select the folder that contains the XML journals and	
=	Database	the image folder (for example	
	Recycle Bin	DEV0004/40187266/Journal). You can choose the leakages to be imported in the following steps.	
Ø	License		
٢	Learn Program	A SELECT	

The data import takes place as a sequence:

- (1) Folder selection
- (2) XML File selection
- (3) Selection of leakages to be imported
- (4) Imported leakage target

The transfer of the exported data from the LD 5X0 takes place via the menu item Data import. The data is transferred from the LD 500 via a USB stick / USB data carrier.



button starts the selection of the journal file (exported The XML file of the LD 500, which contains the leakage data).

- Open the "Journal" folder according to the path shown on the USB stick "Select folder" (1)
- (2)

🚾 Ordner auswählen					×
← → ∽ ↑ 🚺 → USB-Laufwerk (D:)	> DEV0004 > 20217641 > Journal 1		ەر" 🔍 🍯 🗸		
Organisieren 🔻 Neuer Ordner					
	Name 8M21CW33 BM21CW34	Änderungsdatum 01.09.2021 15:17 01.09.2021 15:17	Typ Dateiordner Dateiordner	Größe	
Ordner: Journal			2 Ordner auswä	hlen Abbreche	:n

(3) Accept possible browser message

Ir.cloud.cs-instruments.com		
Should really all files from '	website.	be uploaded?
	Upload	Cancel

(4) Select the desired XML file, which was exported from the leak detector

ណ	Dashboard / Data Import				
		FOLDER	XML	LEAKAGES	TARGET
		•	•		
	XML				
	Select the folder that contains the XML j	ournals and			
	the image folder (for example				
	DEV0004/40187266/Journal). You can c	hoose the			
	leakages to be imported in the following	steps.			
3					
	D:\DEV0004\10217487\Journal\Jnl_2	10415093539_210428105	i839.xml		



After selecting the XML file, you can filter the leakages by their "Company" and "Building" or a flexibly selectable time period:

- (1) Selection of individual leakages
- (2) Filtering by one or more companies
- (3) Filtering by one or more buildings
- (4) Definition start period (first leakage)
- (5) Definition end period (last leakage)

Building Time Company Building Dete Time KROMER WKA HALLE 123 30.07.2021 11.04.26 Time KROMER WKA HALLE 123 30.07.2021 11.06.32 Time KROMER WKA HALLE 123 30.07.2021 11.06.32 Time KROMER WKA HALLE 123 30.07.2021 11.06.32 Time KROMER WKA HALLE 123 30.07.2021 11.08.32 Time KROMER WKA HALLE 123 30.07.2021 11.08.32 Time KROMER WKA HALLE 123 30.07.2021 11.08.34 Time KROMER WKA HALLE 123 30.07.2021 11.08.34 Time KROMER WKA HALLE 123 30.07.2021 11.09.39 Time KROMER WKA HALLE 123 30.07.2021 11.10.32 Time	Company Building Date Time KROMER WKA HALLE 123 30.07.2021 11.04.26 KROMER WKA HALLE 123 30.07.2021 11.04.26 KROMER WKA HALLE 123 30.07.2021 11.05.32 KROMER WKA HALLE 123 30.07.2021 11.05.32 KROMER WKA HALLE 123 30.07.2021 11.05.38 KROMER WKA HALLE 123 30.07.2021 11.09.30				FOLDER	XML	LEAKAGES	TARGET	
KROMER WKA HALLE 123 30.07.2021 11:04.26 KROMER WKA HALLE 123 30.07.2021 11:06.32 KROMER WKA HALLE 123 30.07.2021 11:06.32 KROMER WKA HALLE 123 30.07.2021 11:08.94 KROMER WKA HALLE 123 30.07.2021 11:08.94 KROMER WKA HALLE 123 30.07.2021 11:08.94 KROMER WKA HALLE 123 30.07.2021 11:09.30	KROMER WKA HALLE 123 30.07.2021 11.04.26 KROMER WKA HALLE 123 30.07.2021 11.06.32 KROMER WKA HALLE 123 30.07.2021 11.08.04 KROMER WKA HALLE 123 30.07.2021 11.08.04 KROMER WKA HALLE 123 30.07.2021 11.08.38 KROMER WKA HALLE 123 30.07.2021 11.09.38 KROMER WKA HALLE 123 30.07.2021 11.09.30	Compa	any	v	Building				Ē
KROMER WKA HALLE 123 30.07.2021 11:06:32 KROMER WKA HALLE 123 30.07.2021 11:07:16 KROMER WKA HALLE 123 30.07.2021 11:08:04 KROMER WKA HALLE 123 30.07.2021 11:08:39 KROMER WKA HALLE 123 30.07.2021 11:08:39 KROMER WKA HALLE 123 30.07.2021 11:09:39	KROMER WKA HALLE 123 30.07 2021 11.06.32 KROMER WKA HALLE 123 30.07 2021 11.07.16 KROMER WKA HALLE 123 30.07 2021 11.08.04 KROMER WKA HALLE 123 30.07 2021 11.08.98 KROMER WKA HALLE 123 30.07 2021 11.09.90		Company	Building	Date	Time			
KROMER WKA HALLE 123 20 07.2021 11.07.16 KROMER WKA HALLE 123 30 07.2021 11.08.04 KROMER WKA HALLE 123 30 07.2021 11.08.38 KROMER WKA HALLE 123 30 07.2021 11.09.39	KROMER WKA HALLE 123 30.07.2021 11.07.16 KROMER WKA HALLE 123 30.07.2021 11.08.04 KROMER WKA HALLE 123 30.07.2021 11.08.38 KROMER WKA HALLE 123 30.07.2021 11.09.38 KROMER WKA HALLE 123 30.07.2021 11.09.39		KROMER WKA	HALLE 123	30.07.2021	11:04:26			
KROMER WKA HALLE 123 30 07/2021 11/08/04 KROMER WKA HALLE 123 30 07/2021 11/08/38 KROMER WKA HALLE 123 30 07/2021 11/08/38	KROMER WKA HALLE 123 30.072021 11.08.04 KROMER WKA HALLE 123 30.072021 11.08.38 KROMER WKA HALLE 123 30.072021 11.09.30		KROMER WKA	HALLE 123	30.07.2021	11:06:32			
KROMER WKA HALLE 123 30.07.2021 11:09:38 KROMER WKA HALLE 123 30.07.2021 11:09:30	KROMER WKA HALLE 123 50.07.2021 11:08.38 KROMER WKA HALLE 123 50.07.2021 11:09.30		KROMER WKA	HALLE 123	30.07.2021	11:07:16			
KROMER WKA HALLE 123 \$0.07.2021 11:09:30	KROMER WKA HALLE 123 30.07.2021 11.09.30		KROMER WKA	HALLE 123	30.07.2021	11:08:04			
			KROMER WKA	HALLE 123	30.07.2021	11:08:38			
C KROMER WKA HALLE 123 S0.07.2021 11:10:32	C KROMER WKA HALLE 123 50.07.2021 11.10.32		KROMER WKA	HALLE 123	30.07.2021	11:09:30			
			KROMER WKA	HALLE 123	30.07.2021	11:10:32			

Possibilities

(1) For the leakages of each company (Kromer WKA) to be imported, an already existing company and / or project can be selected as target. The buildings of the leakages are then created in the selected company at the same time.

(2) If the company already exists, a new project is attached to it or an existing project can be selected. The buildings of the leakages are then created in the selected company at the same time.

(3) If the company of the data import does not exist yet, a new company with the corresponding name is created, as well as a first project. The buildings of the leakages are then created in the selected company at the same time. (as shown in the screenshot)



	FOLDER	XML	LEAKAGES	TARGET
	•	•	•	•
KROMER WKA				
Choose an existing company and/or proje	ect into			
which to import the selected leakage data	a. Select			
[Create new] in the company selection to	create a			
new company with the shown name (in g	een color).			
Select [Create new] in the project selection	n to create			
a new project with the name "Data Import				
<timestamp>" where <timestamp> is rep</timestamp></timestamp>	laced by the			
current date and time.				
Company				
[Create new]	.			
Project				
[Create new]	~			

Once you have imported all the leakages, you have the following options:

	(1) P	Perform a new data import analogously							
	(2) V	View the project within the last imported data							
			FOLDER	XML	LEAKAGES	TARGET			
			•	•	•	•			
	Data was suc	cessfully							
	imported.								
	•								
	Would you like to view th	e imported data or to im	iport						
	additional data?								
1	ADDITI	ONAL IMPORT							
2	Sł	IOW DATA							

If the used firmware of the LD 5X0 is outdated at the time of the export, this is indicated as follows:

			FOLDER	XML	LEAKAGES	TARGET		
	The software of your L	.D 500 is outdated. Please update it						
Comp	any	Buildi	ng		From • 17.12.2020 10:05:43	Ē	Until 17.12.2020 10:06:12	Ē
	Company	Building	Date	Time				
	CS Instruments	Conference Room 2 Level	17.12.2020	10:05:43				

The latest LD 500 firmware can be downloaded from the following link: https://www.cs-instruments.com/de/downloads/software/firmware-leckage-suchgeraete CS Leak Reporter Cloud Solution BAL_EN_V2.00 Page **13** from **35**



8.3. Companies management

The data of the imported companies can be found in the main menu under the "Companies" item.

8.3.1. Show company

- (1) Companies" selection in the main menu bar
- (2) Search for a specific company
- (3) Edit the master data of the selected file
- (4) View the projects of the selected company
- (5) Create a new company
- (6) Delete the selected companies

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	Dashboard	Dashboard / Companies			
	Companies 1	Search			
	Data Import				
Ĥ	Project Import	Companies	Buildings	Projects	0 0
Tr	Fault Description DB	KROMER WKA	1	1	I O
	LD 500 Update				
=	Database				
•	Recycle Bin				
	License				
\$	Learn Program				
				DELETE	+ NEW
				_	

8.3.2. Company master data

Under the company master data you can store contact information as well as a company logo. The information stored here will be printed on the cover sheet of the report.

، کر ا	CS INSTRUMENTS		Constructions	Mustermann Max EN →
ଜ	Dashboard	Dashboard / Companies / KROMER WKA / Mester Data		
	Companies	BACK TO COMPANIES		
Ð	Data Import	MASTER DATA BUILDINGS PROJECTS		
۵	Project Import			
Tr	Fault Description DB	KROMER WKA		
	LD 500 Update	Edit Company		
	Database	Company KROMER WKA		
đ	Recycle Bin			
₿	License	Last Name		
٢	Learn Program	First Name		
		Phone		
		Email		
		Street		
			🗂 DELETE 🚫 CANCEL	E SAVE



8.3.3. Building

Buildings can be added or deleted under the "Buildings" tab.

- (1) To delete a building, click on the corresponding recycle bin
- (2) To edit a building, click on the corresponding pin
- (3) To create a new building, enter the name accordingly
- (4) To add the building, click on the plus sign

، (ب			③ Mustermann Max EN -
ŵ	Dashboard	😭 Dashboard / Companies / KROMER WKA / Buildings	
	Companies	BACK TO COMPANIES	
Э	Data Import	MASTER DATA BUILDINGS PROJECTS	
۵	Project Import		
Tr	Fault Description DB	 ♠ Building 123 ● ● ● ● ● 	
	LD 500 Update		
≡	Database		
đ	Recycle Bin		
Ð	License		
\$	Learn Program		

8.3.4. Companies - Projects

On the tab "Projects" the already created / imported data are displayed. Each data import creates a new project here, unless an existing project was selected as the destination during a data import.

By pressing the "Eye" button, you call up the leakages of the project. The measurements and project master data stored in it and are then displayed there.
 By pressing the "NEW" button you can create an empty project manually.

(2) By pressing the "NEW" button you can create an empty project manually.

م	CS INSTRUMENTS			Con and a second		③ Mustermann Max EN +
	Dashboard	Dashboard / Companies / KROMER WKA	/ Projects			
-	Companies	BACK TO COMPANIES				
	Data Import	MASTER DATA BUILDINGS	PROJECTS			
Ê	Project Import					
	Fault Description DB	Project Name	Date	No. of Leakages	Total Leakage Rate	
Ð	LD 500 Update	Data Import 26.11.2021, 13:35	30.7.2021, 11:04 - 30.7.2021, 11:10	7	273.11 €	0
≡	Database					0
	Recycle Bin					
Ð	License					
۲	Learn Program					
					•	2 + NEW



8.4. Edit project master data

For each project the parameters made in LD 5X0 are used initially. If these have to be changed, this can be done globally for the entire project in project master data. The project data is defined as follows:

- Name project name (also printed on the report)
- Description Project description

Currency	Local currency
Unit	Unit of volume (m ³ or cf)
Operating hours	Operating hours of the plant per year (e.g. 8760 for 24/7 operation)
Costs	Cost for 1000 Nm ³ or CF of air in the currency to the right (calculated automatically if the "Electricity price" and "Specific power" have been entered in the expert menu)
CO2 emissions	Here the default value with 0.527 kg / kWh is used
Electricity price	Unit: Currency / kWh
Specific power	PowerCompressors Efficiency variable in (kWh / m ³ or kWh / CF)
Cost basis	Here, a distinction can be made between pure energy costs [70%] and full costs [100%]

Costing Basis:

If the fields Electricity price and Specific power were filled in the expert menu, the software automatically calculates the energy costs of the compressed air system.

Typically, these correspond to 70% of the total costs, which consist of energy [70%], investment [21%] and maintenance [9%] costs.

Here the user has the possibility to decide between both cost types. The selected cost type will then be applied globally for the entire project.

م	CS INSTRUMENTS	Edit Drojoot
ŵ	Dashboard	Edit Project
	Companies	Data Import 26.11.2021, 13:35 Description
	Data Import	Data Import 26.11.2021, 13:35
۵	Project Import	Compressed air cost Currency Unit 14,400000 € ✓ /1000 m ³ ✓
	Fault Description DB	Annual Operating Hours per year 8760
∎	LD 500 Update	
≡	Database	Expert Settings
	Recycle Bin	0,527 Unit 0,527 kg / kWh •
₽	License	Specific Power 0,12 kWh / m ³
۲	Learn Program	Betricty Parts 0,12 €/XWh
		▲ ENERGY COST [791]: 14.400 € / 1000 M*
		▲ TOTAL COST [100%]: 20.571 € / 1000 M*
		E rorgy cost [tril] Westerert Cost [11] Maintenance Cost [No]



8.5. Leakage overview

On the Measurements tab you can see the measurements for the selected project including the project master data, shown in the red box.

Functions of the interface:

- (1) Building filters
- (2) Filter for the leakage location
- (3) Filter for leakage status (fixed / open)
- (4) Leak Tag Search
- (5) Generate PDF report
- (6) Generate Excel report
- (7) Status of the leakage (fixed / open)
- (8) Leakage View Details

60	(9) CS INSTRUMENTS	Dashboard / Companies	KROMER WKA / Projec	ts / Data Import 26.11.2021 / Loskages				
œ ش	Dashboard	BACK TO PROJECTS	LEAKAGES					
b	Companies							
	Data Import	0 Leaks selected 25.981 ltr/min total leakag		Master Data	Master Data Annual Operating Hours per year: 8,760 h		PDF 🐼 XL	
÷	Project Import	196.64 €per year	erake	Compressed Air Cos	11 1 1 40 € / 1,000 m ⁹	6	6	
	Fault Description DB	Search LeakTag						
Ξ	LD 500 Update	Building		Place	Status			
	Database	0	*	2	- 0			
	Recycle Bin	Building	Place	LeakTag	Leakage Rate	Cost per Year	Status 🭞	0
2	License	Building 123	1.00	1	3.425 ltr/min	25.92 €	¢	٢
\$	Learn Program	Building 123	1.06	2	4.425 ltr/min	33.49 €	Φ	۵
		Duilding 123	1.06	з	1.185 ltr/min	8.96 €	Φ	0
		Building 123	1. OG	4	7.080 ltr/min	53.58 €	¢	ø
		Building 123	1.00	5	3.489 ltr/min	26.40 €	¢	۵
		Building 123	1.06	6	2.216 ltr/min	16.77.€	¢	ø
					MOVE	🖺 СОРУ	T DELET	

From left to right, the columns contain information for each leak about their:

- Building
- Location
- Leak Tag
- Loss volume flow
- Leakage costs per year
- Status of the measurement (open, resolved)

The formula for the leakage cost is as follows:

Leakage costs per year = loss in l/min *60min/1000l*operating hours of the plant*cost of compressed air generation for 1000m³ in Euro

= 5,95 l/min *60min* (1m³ /1000l) *8760 (h/year)*25€/1000 m³

= 78,18 € leakage cost per year.



The button next to ______ the respective measurement displays the measurement detail data for editing.



The measurements can be changed in this mask. Measures as well as comments, the priority, the status and who has eliminated this leak at what time can be stored.

- (1) Delete the image
- (2) Adding a saved image
- (3) Information on the location of the leakage point
- (4) Information on the cost of leakage data
- (5) Leakage repair information
- (6) View previous leak
- (7) View next leak
- (8) Back to the leakage overview
- (9) This leakage move to another company, building or project
- (10) This leakage copy into another company, building or project
- (11) Extinguish this leakage
- (12) Save changes

. 0		Pressive and 73 Fressive 3 Distance 1 Project Master Data	Unit bar - Unit m -	Inspart under Pressure Yes Loating frames pressure regulator Massar Change seal	-
а « м т- о о	Long 3,4 Pm Cost 6 CVV	5 Esistence 1 Project Master Data	bar - Unit	pressure regulator	
тт 0 0	and a second	Project Master Data			
т Ф (<u>)</u>	Have Hills				
		Antual Operating Hours per year: 8,760 h Compressed Air Cost: 14.40 € / 1,000 m ⁴		Spare Part	
Bate 30.07.202		Cost Currency 20,000 € - /10	Unit co ^{ma} ~	Note	
30.07.202 Company KROMER V		Accual Operating Hours per year 8760 Leakage Rate	Unit	Status In Progress	
Building Building 1	23	3,425 Cott per Veer	ttr/min +	Solved on _	۵
Project Data Impo Place	rt 26.11.2021 +	25.922 - Comment no comment		Solved by	-4
1. OG LeskTag					
		Priority Medium	-		

Project master data filled in:

This figure shows the parameters with which the compressed air costs per year are calculated, the leakage.

When project master data is set, it is used to calculate the cost of each leak within the project.

The field highlighted in red shows the parameters used for the leakage detector. If project master data are set, these fields are grayed out and locked for editing.

If the unit of measurement is changed from [ltr/min] to [cfm], an automatic conversion takes place and vice versa.



Annual Ope	Master Da rating Hours (d Air Cost: 14	oer year: 8,76			
Cost 20,000 Annual Operat 8760		~	/ 1000	Unit m³	-
Leakage Rate 3,425 Cost per Year 25.922			\$	Unit Itr/min	•

Project master data is empty:

Cost 20,000	Currency €	∇	/ 1000	Unit m³	~
Annual Operati 31	ing Hours per yea	r			÷
Leakage Rate 3,425		0	Unit Itr/min		
Cost per Year 25.922					

If no project data is recorded, the data can be changed in the measurement. The calculation in the formula above, is done with the data from the measurement.

The fields are now white and thus free for input.



With the buttons a measurement can be moved, copied, deleted or saved be



When copying leaks, the following dialog is displayed:

Copy to	
Company KROMER WKA	Ŧ
Building [Keep current building]	•
Project [Keep current project]	•
Do you want to switch to this project?	
CANCEL	
L	

(1) Company in which the leakage(s) are to be copied

(2) [Keep current building] Building with the name will be created if it does not already exist.

(3) [Keep current project] new project in the company will be created with the same name if it does not exist yet

(4) Target project is displayed after the copy process

When moving leaks, the following dialog is displayed:

As with moving, the fields can be filled in analogously. After copying, correspondingly selected leakages are in both projects.

Company KROMER WKA		
Building [Keep current bu	uilding]	
Project [Keep current pr	oject]	
	roject]	



Before a measurement is finally deleted, this message is displayed:

Are you sure?						
This action can not be undone.						
CANCEL						

Notice:

If a leak has been accidentally deleted, it can be restored from the recycle bin.

8.6. Create report

(1) A report can then be created in the measured value list for the project.

(2) The marked or filtered leakages or even all measurements are then transferred to the report.

(3) The sorting of the leakages is taken into account in the report.

					¢		(S) Musiterni	orn Max E
	(a tes	titoard / Composies /	KROMER WKA / Projects / Date of	mport 26.11.2021 / Leokages				
	BAC	K TO PROJECTS						
		STER DATA LI	EAKAGES					
			EAKAGES					
	25	Leaks selected 981 fin/man total leakage 5.64 Kper yaar	rate	Master Data Annual Operating Hours per ye Compressed Air Cost: 14.40 €.	ar: 8,760 h	Por	© XL	8
0	· Search Leading Q							
	Buildi		Plac		Status			
0								
9		ng	•	.0	e			
9		Bulkfing	Place	u LaakTeg		- Cost per Year	Status	_
9	_				*		Status	Ø
9	_	Buliding	Place	LaskTag	- Leakage Rate	Cost per Year		0
	0	Building Building 123	Place	LookTog	- Leakage Rate 3.425 ftr/min	Cost per Year 25.92 f	0	
		Building Building 123 Building 123	• Pisce 1.00	LashTag 1 2	- Leakage Rate 3.475 ftr/min A.423 ftr/min	Cost per Year 25.97 ¢ 33.49 €	0	٩

(4) The selected auditor is displayed on the cover sheet

Structure of the report:

1. Cover sheet (page 1):

The PDF report consists of a cover sheet with information about

- the customer, auditor
- Project master data
- Measurement results

CS Leak Reporter Cloud Solution BAL_EN_V2.00



2. Leakage overview (following pages)

Per leakage is shown:

- Location
- Potential savings
- Troubleshooting included
- Status and priority

Overview page (final page):

Measurement results

Excel Report

This report shows essentially the same information as the PDF report.

8.7. Leakage repair DB

With the Leak Reporter Cloud Solution, you can generate the bug fix database for the LD 5X0.

With each import, the Leak Reporter Cloud Solution expands the database with the entries in the XML file of the leak. Additionally, you can add manual inputs.

، (ب	CS INSTRUMENTS	_		(Costanes		Mustermann Max	EN 🗸
	Dashboard		Deshboard / Pault Description DB / Measure					
₽	Companies		EXPORT DATA TO LD 500					
	Data Import		MEASURE LEAKING ELEMENT REPLA	CEMENT				
۵	Project Import		Add					+
Tr	Fault Description DE							Ŧ
⊒	LD 500 Update		The set of characters is limited on the LD 500.	Fext that is displayed in the Leak Repo	rter software (left column) may be di	splayed differently on the LD 5	00 (right column).	
≡	Database		Change seal	Change seal			/	8
	Recycle Bin							
e	License							
٢	Learn Program							

Attention:

The LD 5X0 can only display strings with a certain length and a limited character set. If the input is too long, the Leak Reporter Cloud Solution truncates it so that it can be imported into the LD 5X0.



In the export process you can select which data the XML file to be exported should contain:

، (پ	CS INSTRUMENTS				(C a response		② Mustermann Max EN +
ଜ	Dashboard		n Dashboard / Data Export				
10	Companies	[C BACK TO FAULT DESCRIPTION				
Ð	Data Import			MEASURE	ELEAKING REPLACEMENT COMPA		
۵	Project Import			-			
Tr	Fault Description DE						
∎	LD 500 Update		Leak Reporter View		LD 500 View (limited character set)		
≡	Database		Change seal		Change seal		
Ō	Recycle Bin						
P	License						
٢	Learn Program						
						< BACK	> CONTINUE

The exported database has a maximum length of 1000 elements. If this size is exceeded, there will be a maximum of 1000 elements in the XML file.

To import the data into the LD 5X0, save the ZIP file on the supplied USB stick and unpack it there.

If you have inserted the USB stick into the LD 5X0, you can update the database of the LD 5X0 under:

- (1) LD 5X0 Export/Import
- (2) Import: Database
- (3) Select XML file in customers folder
- (4) Define areas

8.8. Recycle bin

The recycle bin is where deleted items are temporarily stored. This applies to:

- Companies
- Building
- Projects
- Leakage

If an object has been deleted by mistake, it can be restored by clicking the "Move" button. A random number combination is appended to the original file name in the recycle bin so that there can be no collision with existing data when restoring. This name can be flexibly adjusted afterwards.



، (ب	CS INSTRUMENTS		€ (1 as transments	③ Mustermann Max EN +
ଇ	Dashboard	😥 Dashboard / Recycle Din		
ь	Companies			
Ð		Recycle Bin	Companies (0)	
۵	Project Import	Companies 🖹 Buildings 🗒 Projects	Name Date	
Tr	Fault Description DB	Leskages		
6	LD 500 Update			
=	Database			
٥	Recycle Bin			
e				
۲	Learn Program			
				EMPTY

When "Empty Trash" is pressed, the entire Trash is deleted, but individual items in the categories (Companies, Buildings, Projects and Leaks) can also be deleted.

8.9. Database

Leak Reporter Cloud Solution creates regular backups, you can additionally create security backups after critical changes.

Note: Since the current database is deleted during an import, only [Users] with the [Admin] role have access to these functions.

ŵ	Dashboard	6	Doshboard / Database			
	Companies					
Э	Data Import	0	Import	2	Export	Olear
ŵ	Project Import		Click on "Select" to import or restore a saved		Click on "Generate File" to create a backup of the	Click "Clear Data" to delete all data within the Leak
Tr	Fault Description DB		database (Leak Reporter V1 or V2). The existing database will be extended with the data from the		database. This generated file can be used in import to restore the current data.	Reporter. Warning: this action cannot be undone!
₿	LD 500 Update		selected database.			
=	Database				GENERATE FILE	CLEAR DATA
σ	Recycle Bin					
e	License					
۲	Learn Program					

(1) Using "Import database", you can restore the previously exported data status of the CS Leak Reporter V1, V2 and Cloud Solution. To do this, import the database (ZIP file) that has **not yet been unpacked**.

(2) Using "**Export** database" you can create a backup file that saves the current information status of the CS Leak Reporter Cloud Solution.

(3) Using "**Clear** Database" you can delete all data within the CS Leak Reporter Cloud Solution.



Attention:

Please make sure that you do **not** unpack the Leak Reporter V1 database and import the ZIP file directly into the Leak Reporter Cloud Solution. In addition, Leak Reporter V1 must be at least at release level 1.3.7.

8.10. Update overview

CS INSTRUMENTS is continuously working on the firmware of the leak detector - therefore new firmware versions are published regularly.

To keep the LD 5X0 up to date, updating the device is strongly recommended. During data import, the XML journal is checked and thus the firmware used for the corresponding device is saved.

If the firmware used is out of date at the time of export, this will be indicated as follows:

			FOLDER	XML		TARGET		
	The software of your I	.D 500 is outdated. Please update it.						
Comp	any	Buildin •	9	-	From 17.12.2020 10:05:43	Ē	Until 17.12.2020 10:06:12	
	Company	Building	Date	Time				
	CS Instruments	Conference Room 2 Level	17.12.2020	10:05:43				
	CS Instruments	Conference Room 2 Level	17.12.2020	10:05:53				
	CS Instruments	Conference Room 2 Level	17.12.2020	10:06:05				
	CS Instruments	Conference Room 2 Level	17.12.2020	10:06:12				

The following overview shows the current firmware version (4.04) and the used versions of the corresponding serial numbers.

ŝ		€ 0 отничењ) Mustermann Max	EN -
	Dashboard	☆Tashboard / Updates		
	Companies			
	Data Import	LD 500 Update		
٠	Project Import	Latest LD 500 firmware version: 3.0. Follow this link to download the latest firmware. An installation guide is attached in the unpacked ZIP File: <u>https://www.cs-instruments.com/downloads/software/firmware-lask</u>	detectors	
	Fault Description DB	LD 500 Serial Number Version		
8	LD 500 Update	40187266 3.3		
≡	Database			
	Recycle Bin			
	License			
٢	Leam Program			

The latest firmware can be downloaded from the following link:

https://www.cs-instruments.com/de/downloads/software/firmware-leckage-suchgeraete

8.11. Learning program

This tile in the dashboard takes you to the CS ISNTRUMENTS homepage. There you will find all relevant information about the LD 5X0 and the CS Leak Reporter Cloud Solution at a glance.

The following link is called: https://www.cs-instruments.com/de/downloads/tutorialsvideoanleitungen/professionelle-lecksuche-in-druckluftsystemen

CS Leak Reporter Cloud Solution BAL_EN_V2.00

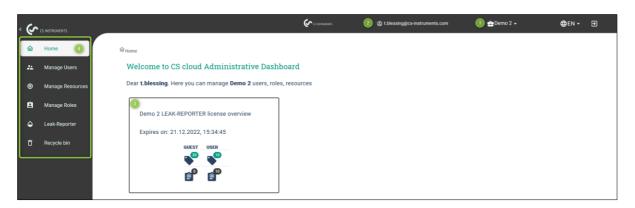


9. User and access management [Permissions]

9.1. Introduction

You can reach the user and access management both via the

- Leak Reporter Cloud Solution
- CS ID User Profile (license activation and personal data maintenance)



- 1. Organization in which you are currently working
- 2. The logged in user account
- 3. Number of licenses purchased and available capacity
- 4. User and access management main menu bar

9.2. User management

9.2.1. A user hierarchy can be created within the software.

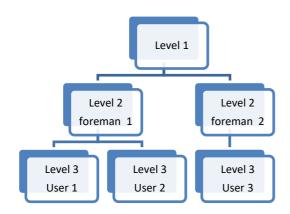
Process:

1. The system admin becomes who uses the purchased license to create an organization

a. The system admin always has access to all data of an application and can use all functions without restrictions

- b. The system admin sees all users and can edit all users
- 2. Subordinate users have at most the access or the rights of their superiors

3. Higher-level users have access to the data of lower-level users and can manage them





Level 1: The System Admin

- can see and edit all users (top instance)
- has access to all data within the application (Companies>Projects)

Level 2: The foreman 1

• can see and edit user 1 and user 2.

• Has access to the data assigned to him by the system admin (direct supervisor)

Foreman 2

• can see and edit user 3

• Has access to the data assigned to him by the system admin (direct supervisor)

Level 3: User1

- cannot see and edit other users
- Has maximum access to the data and rights of the foreman 1 (direct supervisor)

User2

- cannot see and edit other users
- Has maximum access to the data and rights of the foreman 1 (direct supervisor)

User3

- cannot see and edit users
- Has maximum access to the data and rights of the foreman 2 (direct supervisor)

9.2.2. User overview

In the user overview, one user gets an overview of who has created and is allowed to edit the other users. By default, this is the system administrator.

Users who do not have subordinate users will see only themselves in this window.



Administrator's view:

	Home		Home / Manage Users									
22	Manage Users					Mana	ge User	S				
	Manage Resources	0	- Email									
ė	Manage Roles		Company		anced Permissions 👻	Application	Ç RES	ET				-1
۵	Leak-Reporter	L_		-	-	Advanced			Registered			
	Recycle bin	2	Email	Origin	Company	Permissions	(B) Application	Rolename	User	(B) Login		
			t.blessing@cs-instruments.com	Intern	CS instruments	Users and roles	leak-reporter	Admin	0	\oslash		0
				intern	CS instruments GmbH & Co KG	^b Users and roles	leak reporter	Technician	Ø	0		i D
				intern	CS Instruments GmbH & Co KG	. Users and roles	leak-reporter	Technician	Ø	0		0
				intern	CS	Users and roles	leak-reporter	Technician	Ø	0		0
				Intern	CS Instruments GmbH & Co KG	. Users and roles	leak reporter	Technician	Ø	Ø		Ō
										0	+2 ADD USER	

The table shows the relevant information of each CS-ID Profile account

- 1. The filters shown can be used to search specifically for users
- 2. Used e-mail address of the user
- 3. Is the user part of your own organization? **Status**: (internal or external)
- 4. Specified **company of** the user
- 5. Assigned **access rights of** the user by the parent person (usually admin).
- 6. Which **application does** the user have access to?
- 7. What is the user's **role** within the application?
- 8. **Registered user**: A CS-ID Profile account was created with the email address
- 9. Login: The user can log in or not log in to the software.
- a. Status inactive The account does **not** use **a** user or guest license
- b. Status active The account uses a user or guest license
- 10. If you have the right to create or edit users, you can do so here via the
- a. Pen: Edit user
- b. Recycle bin: delete user
- c. Eye: View of the user's configuration
- 11. If you have the right to create users, you can create users.



9.2.3. Create a user

The information seen in the overview is defined when a user is created, or when an existing user is changed. Consequently, the process is the same, except that when changing, the current content is shown.

Step 1 [Email]

- 1. Enter the e-mail address of the user
- a. This person will receive an invitation email at the end of the process
- 2. Define whether the user is employed internally or externally
- 3. Login allowed: The user can login if the checkmark is set
 - a. Allowed The account uses user or guest license
 - b. Not allowed The account does not use a user or guest license

ا ھ	Home	A Home / Manage Ukers / Uscr
22	Manage Users	
۵	Manage Resources	
ė	Manage Roles	• • • • • •
۵	Leak-Reporter	
ô	Recycle bin	Login Credentials Enable User Login
		Email must be unique in the organization Uternance* O Deb@cs-instruments.com O O Organ O O Deb@cs-instruments.com O Deb@cs-instruments.com C O Deb@cs-instruments.com C O Deb@cs-instruments.com C

Step 2 [Access rights]:

1. Choose license type

i. User license = (freely selectable access rights to users and roles / within the application are the following roles (Leak Reporter= Guest, Technician, Admin).

ii. Guest license = (no access rights for users and roles / within the application the following role is assigned (Leak Reporter = Guest)

2. Superior

3. Right of "Bob - the user to be created" within the users and access administration

☆ ** @ 12	Home Manage Users Manage Resources Manage Roles Leak Reporter	
•	Recycle bin	App Licenses User hierarchy Permissions Permission to access application with corresponding license Type C SL task Reporter C SL task Reporter 2 User [gravilable: 18, assigned: 12] 2 Image: a back* > more Image: a back* > more



4. Under **More a** new hierarchy level can be defined, if desired, if the created user has at least the right "**Add user**" under point 3

- i. User hierarchy **before** creating the current user [left].
- ii. User hierarchy after creating the current user [right].



In the following window you can define for the created user which users can be managed by him and which rights he may assign.

Advanced Permissions	
Permission to manage subordinate users	and roles
Manageable Users *	~
Rights assignable by bob	~

[**Manageable Users**] - In the diagram shown, "Foreman 2" can now edit User 1 and User 2, which now slide into Level 3. "Foreman" is now their direct supervisor.

[Assignable rights] - These rights can now be passed on by the current user.

- \rightarrow No rights
- → Add user
- → Add users and roles

Users
None
Users and roles



Step 3 [Resources]:

← MANAGE USE		NTRODUCTION EN		CESS RES	OURCES	overview	
LEAK-REP	ORTER Assign companies and p should have access. O	projects to which t	he user		assign t	ne user's role and the roles o other users.Select the us /she can edit or assign to	ser's role and the
0			~	3	(i) bob's Ro Techni		•
	CS Instruments De	mo 1	~	4	- Roles as Guest	signable by bob	
	CS Instruments De	mo 2	~			Editable by bob	•
2	CREATE NEW COMPANY]		5	Roles	Editable by DOD	Ť

1. In the list you can select the companies and projects that the user to be created is allowed to see or edit depending on the role (point 3).

The selection of the companies is limited to the companies you are allowed to see and edit

a. Selection [All]

i. The created user sees all existing companies and projects at the time of configuration

ii. The created user sees **all the** companies and projects that are created **according to the configuration of** this user

b. Selection [1 to n companies]

i. The created user sees all existing projects of the selected companies at the time of configuration

ii. The created user sees **all other projects** that are created **after the configuration of** this user

c. Selection [individual projects of individual companies]

i. The created user sees only the selected companies and projects defined during configuration

ii. **Projects** within the companies created **after the configuration**, the user does not see

2. Via [Create new company] you can create a company, which is then displayed in the list

3. The selected role of the user defines which functions he/she can use. The following roles are available for the Leak Reporter Cloud Solution. Under the Role Management item, you can view the roles in detail and define your own roles if required

- a. Guest (can only view data)
- b. Technician (has access to most functions)
- c. Admin (access to all functions)



4. The created user can only assign roles if he is allowed to **add users**, see step 2 [Access rights]. You can define the assignable roles of the user here.

5. The created user can only edit roles if he is allowed to **add users and roles**, see step 2 [Access rights]. You can define the editable roles of the user here.

Step 4 [Overview]

Before the shown user is officially created, you can make a final check of its configuration in the last window.

You can see all the data at a glance:

- 1. Email and the status
- 2. Access rights to edit users and roles
- a. License type: User
- b. Application: "CS Leak Reporter
- c. User's right: "Add user
- 3. Specific information within the application
- a. Application: "CS Leak Reporter
- b. Role of the user: "Technician
- c. Assignable roles for Bob's created users: "Guest and Technician".
- d. Available leakage data: All companies and their projects

4. If this is checked, an invitation email will be sent to the user. If he/she has created a

- CS-ID Profile account, he/she can use the Cloud Solution with the settings shown.
- 5. Click on [Save] the user is created and can be found in the user overview

ANAGE USI			EMAIL	ACCESS		OVERVIEW	
LEAK-REP	OBTER						
LEAK-REP	Assign companies a	nd projects to whi	ch the user		Select th	he user's role and the roles	he/she can edit or
	should have access.				assign t	o other users.Select the us	ser's role and the
	()				roles he	/she can edit or assign to	other users.
1		~	~	i bob's Ro	le*		
				3	Techni	ician	*
	CS Instruments	Demo 1	~		- Roles as	signable by bob	
	CS Instruments	Demo 2		~	Guest		•
					Roles	Editable by bob	~



9.2.4. Edit a user

If you want to edit in the user overview, click on the pencil in its row. The editing process corresponds to the invitation process of a user, only here the current settings are available and could be changed.



9.2.5. View of a user

If you want to view a user in the user overview, click on the eye in its row. The window is the same as in the overview before the final creation of the user.

m.kromer@cs-instruments.com intern CS Instruments GmbH & Co. Users and roles leak-reporter KG	Admin (0 0	r O
---	---------	-----	--------

9.3. Resource management

In the resource management you can see the companies shared with you, the number of users who have access to them, as well as the projects and buildings located in them.

Home / Manage Resources				
	Ma	nage Resource	S	
LEAK-REPORTER				
– Company – – – – – – – – – – – – – – – – – – –				
Users count	¢ RESET			
Company	Users count	Projects count	Buildings count	
CS Instruments Demo 1	10	1	12	
CS Instruments Demo 2	10	1	4	

9.4. Role management

The assigned role defines which functions a user may use within the application.

9.4.1. Standard Roles Leak Reporter Cloud Solution

In the application: Leak Reporter Cloud Solution the following roles are available by default

- → Guest
- → Technician
- → Administrator



Μ	anage Roles	
Dreconfigured		
description	Preconfigured	
Admin has full access rights to everything	yes	<i>i</i> 0 O
The guest is only allowed to view resources	yes	/ ē ©
Can create and edit resources	yes	/* Ī O
	Preconfigured	description Preconfigured Admin has full access rights to everything yes The guest is only allowed to view resources yes

The parameterization can be viewed via the eye.

9.4.2. New role in Leak Reporter Cloud Solution

Individual roles can also be added by users with the corresponding right.

← MANAGE ROLES		SPECIAL PERMISSIONS	
LEAK-REPORTER RC		Role Description	
Rolename *	2	Description	
Stexpert Settings			

- 1. Role name displayed when selecting the role of a user
- 2. Description can be used as text to specify the purpose of the role
- 3. More: Expert Hiring

鏡 EXPERT SETTINGS			
Editable By	•	Assignable By	•

Here you can define directly,

- \rightarrow which user is allowed to edit and assign the role.
- \rightarrow The user sees here only the users that he is allowed to process himself.



Subsequently, it is defined which functions may be used by the role.

- → The functions available here are limited to the rights of the user who creates the role
- → Via the (i) you will be shown information about each point

Database	\bigcirc		
access			
Company Data	(j)		
🗹 read	🗌 write		
Project Data	()		
🗹 read	🗌 write		
Leakage Data	()		
✓ read	🗌 write		
Leak data import	0		
access			
Fault description database	()		
access			
Documentation of Repair	0		
🔽 read	🗌 write		

There are dependencies between the following items:

Company data > Project data > Leakage data

If a role is to be able to modify company data, it must automatically also have the right to edit projects and leakages.

9.5. Recycle bin

Users and roles that have been deleted can be restored from the recycle bin. If they are deleted from the recycle bin, this is done irretrievably.

		Recycle bin
گ USERS F	COLES	
User		Origin