ChemDash Lite & Pro

USER MANUAL.



© Copyright 2024 , Serstech

V1.0

Table of Contents

7.	Intro	oduction3
2.	Syst	em requirements4
3.	Con	nect the Instrument to ChemDash4
C	Conn	ect via USB Cable4
3	.1.	Connect via Wi-Fi5
3	.2.	Connecting to ChemDash - Data Security6
4.	Мес	asurements Management7
4	.1.	Finding measurements8
F	ilteri	ing measurements8
4	.2.	Searching for measurement9
4	.3.	Display column content9
5.	Мес	asurement Details9
5	.1.	Measurement information10
5	.2.	Substance basic info12
5	.3.	General hazardous information12
5	.4.	Spectrum graph13
6.	Мес	asurement options
P	Add t	o library14
6	.1.	Archive measurements15
6	.2.	Exporting spectra
6	.3.	Comparing the spectra16
7.	Rep	orts
8.	Dev	ice Management
8	.1.	View Logs
8	.2.	View Commands
8	.3.	Upgrade Firmware19
8	.4.	Restart
8	.5.	Details
8	.6.	Scan20
8	.7.	Network

8.8.	System21
9. D	evice users
10.	Libraries Management
10.1	. To add a library to the application26
10.2	. Export it to the PC
10.3	. Send it to the instrument
10.4	. Remove it from the ChemDash application
10.5	. Library Status Changes
11.	Administration
11.1	. User management
12.	Report Templates
13.	Licensing
13.1	. ChemDash Lite Error! Bookmark not defined.
13.2	. Chemdash Pro
14.	Appendix
14.1	. How to import users to ChemDash
14.2	. How to set different hierarchy levels and privileges to imported users
14.3	. How to create and edit case reports45
14.4	. How to create Case report templates46
14.5	. How to connect the device to ChemDash via USB
14.6	. How to connect the device to ChemDash via Wi-Fi
14.7	. How to synchronize the device
14.8	. How to manage the device through ChemDash52
14.9	. How to add device users through ChemDash52
14.1	0. How to use ChemDash One and ChemDash in parallel?53
<i>15.</i>	Legal Information
16.	INTELLECTUAL PROPERTY RIGHTS
<i>17.</i>	Trademark Acknowledgments
<i>18.</i>	Equipment Modifications
<i>19.</i>	Disposal and Recycling (Europe)
20.	Support

ChemDash User Manual

1. INTRODUCTION

- ChemDash is a software for Serstech Raman Spectrometers towards a powerful solution for chemical intelligence. ChemDash is the perfect tool for storage, view and management of data including both libraries and measurements. ChemDash also offers the ability to gather and share information about substances, update one or many instruments. Specifically, ChemDash offers the following main features:
- The User can connect to the instrument via Wi-Fi connection or via USB cable to the PC for fast and local management of measurement data.
- The User can locally manage instruments, monitor their status, configure, and manage their instrument users.
- The User can also manage all Raman measurements made with the instruments which will be automatically uploaded to the PC as soon as they are connected. The spectra will be visible in the Data section for further work.
- The User can manage and tailor spectral libraries according to their needs. The User can build its own spectral reference libraries and download them for use on selected devices. Libraries can be built from any combination of User owned data (instrument measurements).
- Last, but not least, the User can manage and administrate the personal account and the accounts of other users, their privileges and the system logs, licensing, and case reports.

• Last, but not least, the User can manage and administrate the personal account and the accounts of other users, their privileges and the system logs, licensing, and case reports.

2. SYSTEM REQUIREMENTS

For the system to be properly installed and work, the user must know the following system requirements:

- Processor: Intel or AMD processor with 64-bit support, 2GHz or faster
- Operating system: Windows 10 (64-bit) Version 1903 or later
- RAM: 4 GB (Recommended 8 GB or more)
- Hard Disk space: 10GB of available hard disk space, additional free space is required during installation and sync
- Monitor resolution: 1024x800 display or greater

3. CONNECT THE INSTRUMENT TO CHEMDASH

Connect via USB Cable

To connect the device to the ChemDash application using the USB cable, you must connect them with the USB cable provided in the package.

Please note that the instrument and ChemDash communicate via port 9093 and some fire walls need to be configured to allow traffic on this port. If you get any error messages about

communication via port 9093 then its most likely that your PC firewall needs to be configured to allow traffic via port 9093.

If your connection was successful, the "connected" symbol will appear next to the device name.

3.1. CONNECT VIA WI-FI

To connect the instrument using a WiFi connection:

- 1. Start ChemDash
- 2. Connect the instrument via the USB cable, turn it on and log in as admin.
- 3. Go to Settings on the device and then to Wi-Fi and activate it.
- 4. Go to Devices section, select the instrument you have connected and click on it so that the details are displayed.

	ChemDash Pro	Welcome, temporaryadmin							©	-0	ih	۵
		C Device 000000000				Network	Q Date - System	& Time	Wi-Fi Setup)•		
 Ø			FBE8024044364759342E3120FF0B12		Serstech 100 I			ID-1001				
â			00000000016D -		Demo 12/05/2022, 1	3:47:00		3.1 ussian, French, Chinese	e, Vietname:	ie, Korean, Sv	vedish, Japai	7650,
			13/07/2022, 12:29:02 Test, Automatic		9 9		46	5:d3:6e:10:14:2a 505				
			Free 11354/14810 [MB]		Free 1496/149	7 [M8]		ee 11354/14810 [M8]				
			≂ Q Ⅲ									
		Admin		Default			01/01/209	19, 02:00:00				

- 5. Click on the "Wi-Fi setup" button.
- 6. Fill in the Wi-Fi name and password

WiFi Setup			
	WiFi Name: Password:		
		Ok	Cancel

- 7. After the setup it is done, the information needs to be sent to the instrument. Sync the instrument with ChemDash, by clicking on the Sync icon.
- 8. The instrument will now automatically restart. Remove the USB cable and insert the Wi-Fi adaptor. A message pops up and shows that the device was connected.

WiFi Setup	
Syncing device configuration, please wait for the device to restart	
	Cancel

Important to note that when the instrument goes into sleep mode, the wireless connection is lost.

3.2. CONNECTING TO CHEMDASH - DATA SECURITY

Before any data is transmitted to ChemDash, a user with "ChemDash Connection Privilege" must have logged in the instrument. If the instrument is connected, the following symbol will be displayed in the

Devices section:



If the instrument is disconnected, there will be a pop-up announcing that, and the symbol displayed will change:

DI	SCONNECTED	Model Name	
	ţ	Serstech Arx+	

Note that, if the instrument is connected via Wi-Fi, the icon will be different:



4. MEASUREMENTS MANAGEMENT

Measurements are automatically copied to ChemDash from the device when the instrument is connected to ChemDash.

Measurements uploaded to ChemDash from all instruments are available inside the Measurements section, on the menu on the left side. The user has the possibility to sort the items on every column (ascending/descending) by clicking the symbol visible next to every header.

EK MEASUREMENTS B REPORTS	MEASUREMENTS REPORTS	Statistic		86 Measurements	4 Ubraries		6 Users	
 	DEVICES DEVICE USERS LIBRARIES							Show archived 🌒
			*			II Time		
â	ADMIN			Polystyrene				
				Polystyrene	1527044E0002	24/03/2022, 14:33:26		
					1527044E0002			
				Propylene glycol	1527044E0002	10/03/2022, 13:14:06		
				Propylene glycol				
				Inconclusive	1527044E0002	04/03/2022, 09:54:38		
					1527044E0002			
				Inconclusive	1527044E0002	04/03/2022, 09:35:01		
				Inconclusive	1527044E0002	02/03/2022, 12:30:24		
					10 × (1) > >	1		Show 🔺

On the top, the User can view the statistics (in green numbers) related to the measurements made and saved in ChemDash, together with libraries and users by clicking the Statistics symbol **1**.

4.1. FINDING MEASUREMENTS

Filtering measurements

By clicking on the filtering icon different options are displayed. They are: Favorite, Name, Device SN, Time, Version, Type and Session number.



Filtering using the time option allows a time range for the measurement to be set through a drop-down calendar:



4.2. SEARCHING FOR MEASUREMENT

By clicking on the search icon, below, it is possible to search directly based on a specific term,



4.3. DISPLAY COLUMN CONTENT

By clicking on the Column selector symbol¹¹¹, the possible column options are displayed and the user can select to make visible the ones of his/her interest.

Edit visible columns					Reset
Barcodes	🗆 ID	🖾 Туре	Session No	M Time	
Device ID	Identify Score	Label	Spectroscopist	Version	
Device SN	Savorite	Quality	Tag		

5. MEASUREMENT DETAILS

To view and edit the measurement details, the user must select the measurement and click on it. Then a new window will pop-up showing all measurement details. Important to mention that on this section the User can add a comment to the measurement with the form of 'Tag'. Also, The Aggregation state is editable and there is an option to Add some images related to the measurement.



The other information available is:

- Measurement information
- Substance basic info
- General Hazardous Information (GHS)
- Spectrum (with the possibility to show/hide the reference, the peak position and maximize the graph).

5.1. MEASUREMENT INFORMATION

Here, the instrument settings from the analysis are displayed. Information here is not editable, except for the Tag, Aggregation state and Images. The Tag can be used to link any free text information to the measurement.

Also, the user has the possibility to upload some relevant images to a certain measurement, by clicking on Images section and then the pen symbol, which will allow the editing of the field

	ChemDash ^{Pro}	Welcome temporaryadmin		2	
	MEASUREMENTS	Identify (01/03/2015, 04:51:40) Benzocaine	Show peak position) Show reference		=
	REPORTS DEVICES DEVICE USERS LIBRARIES	Measurement information	5.000		
â	ADMIN	Device SN: 142A0A4E0009 Spectroscopat: Admin, Default Total exposure time: 12.619 No. of exposures: 1 Sequence No.: 13 Time: 01/03/2015, 04.51.40			
		Substance basic info Globally Harmonized System of Classification and Labelling of Chemicals (GHS)			
			Add Image	 	

Another window will open and the user must click on **button**, then

on Choose File button.

After having selected the desired image and cropped it based on the need, the user must click on Upload button.



After having chosen all the desired images to be uploaded to the measurement, there will be a preview displayed with all selected images.



The user can change their order or delete any of them. After finishing all these actions, the user must close this window and all the images will appear in the specific field.



5.2. SUBSTANCE BASIC INFO

Substance information linked to the identified reference substance is displayed in this section. If no matching reference is found, this section is empty.

=× •• ••	MEASUREMENTS REPORTS DEVICES	<pre> Identify (24/03/2022, 14:50:16) Titanium dioxide Measurement information </pre>	~
** 	DEVICE USERS LIBRARIES	Substance basic info	^
		Substance name: Titanium dioxide CAS Number: 13463-67-7	
		Globally Harmonized System of Classification and Labelling of Chemicals (GHS)	~

5.3. GENERAL HAZARDOUS INFORMATION

The information is displayed using the pictogram from GHS (Global Harmonized System of classification and labelling of chemicals). Information displayed are the GHS pictograms and the signal word for the matching reference identified. If no match is found, this section is empty.



5.4. SPECTRUM GRAPH

The graph from the measurement is displayed together with the reference spectrum from the match. The reference spectrum can be displayed / removed with the button "Show reference". Peak positions will sequentially be displayed, with their wavenumber, as the cursor is moved over the graph. This function can be turned on/off with the use of the button "Hide peak position"



6. MEASUREMENT OPTIONS

By clicking on the three dots on the far right of the measurement a dropdown menu providing several options is displayed

	ChemDash Pro	Welcome, noe	mi				0	⊜	=	îk
≕ •	MEASUREMENTS		86 Measurements	4 Libraries		6 Users				
•	devices Device Users Libraries	<u>=</u> Q	m							red 🌒
		□- *					ſ			
â	ADMIN		Polystyrene	1527044E0002						
			Polystyrene	1527044E0002	24/03/2022, 14:33:26					
				1527044E0002						
			Propylene glycol	1527044E0002	10/03/2022, 13:14:06			Create	report	
			Propylene glycol	1527044E0002						
			Inconclusive	1527044E0002	04/03/2022, 09:54:38					
				1527044E0002						
			Inconclusive	1527044E0002	04/03/2022, 09:35:01					
			Inconclusive	1527044E0002	02/03/2022, 12:30:24					
									Show	

Add to library

With this option the selected measurement can be directly incorporated into library. Simply select which of the available libraries it should be included in.

Sele	ect library to add measurements!	×
	Libraries	
	1. Library 2	
	2. Library 1	

6.1. ARCHIVE MEASUREMENTS

To get a better overview of the current measurements, the old or less relevant measurements can be archived. By selecting "Archive" in the list of options, the measurement will no longer be shown in the list of measurements. With the button "Show archived" it is possible to shift between displaying archived or active measurements.

	ChemDash _{Lite}	Welco	ome temj	poraryadmin						©	1-	սե
й •	MEASUREMENTS REPORTS	Stati	stics	137 Measurements		0 Libraries		14 Users				
:: :: []	DEVICES DEVICE USERS LIBRARIES	Ŧ	<u>₹</u> Q III						(Show archiv	ed 🔷	
			*	👯 Name	Device SN		🕂 Time 🔹		Version			

An archived measurement can be brought back to the list of active measurement by displaying the archived measurement and then selecting "Unarchive".



6.2. EXPORTING SPECTRA

With the Export function, the spectrum from the measurement is exported outside ChemDash and it can be used with other programs *e.g.*, Excel. There are several formats that the measurement can be exported to: Jcamp, txt and csv.

There is also a batch export function where several spectra can be exported simultaneously. Here the measurements to be exported are chosen by ticking the boxes to the left, in the list of spectra. Then the small arrow next the box in the top left corner of the menu is clicked. Select the format for the export.

The selected spectra are exported as a .zip file. To select all spectra for export tick the box next to the small arrow on the left of the row.

6.3. COMPARING THE SPECTRA

Another option available is the one of comparing several spectra from the measurement. The user must click the arrow next to the tick box and then select all the substances he/she wants to compare, by ticking the names.

=× •••	MEASUREMENTS	÷ ¢	ш				Show archi	ived 🌒
	DEVICES	D- *						
**	DEVICE USERS	Compare						
-			Inconclusive	0000000016D	19/05/2022, 16:40:47	Identify		
ô								
			Polystyrene	0000000016D	20/05/2022, 09:08:47	Identify	94%	
			Calcium tab dia (crushed tablet)	0000000016D	27/05/2022, 11:24:00	Identify	61%	
			Inconclusive	0000000016D	19/05/2022, 16:42:11	Identify		

The spectra are displayed together in the same graph with different colors. The different spectra can be selectively removed from the graph, with the

display on/off buttons to the right of the graph.



7. REPORTS

A report can be created by clicking the 'Create Report' button from the Reports section on the left menu.



The User can now choose a report template, for **Pro version** or the Default template for Lite, and add a substance or substances that will be shown on the report and then click on 'Generate'.

Create Report				
Choose report template: Measurements	Test 2 Template 1 Default Temp	late		
٩				
Name	Sequence	Device S.N.	Time Ado	1
2,2-DIMETHYLBUTANE		131B03EC0004	11/01/2021, 09:32:24 +	
SUCROSE		131B03EC0004	11/01/2021, 09:12:56 +	
		131B03EC0004	11/01/2021, 09:10:37 +	1
Polyethylene		131B03EC0004	11/01/2021, 09:05:06 +	
PARACETAMOL		131B03EC0004	11/01/2021, 09:04:01 +	
			Add all +	
Measurements to Report				
			Cancel Generate	

The case report is now saved in the Reports section.

The user will also have the option to download the report to the PC in a PDF format.

×	MEASUREMENTS			[Create report
			lafe:	mplate	
**		Report 1	Identify (09/04/2021, 14:56:57)	leport batch 1	
A			Info: Calibrate (09/04/2021, 14:51:09)		
			Compute Spectrum 400000 40000 40000 40000 40000 40000 40000 4000		

8. DEVICE MANAGEMENT

ChemDash offers to the User the possibility to manage all instruments and to establish different types of connection between them and the application. By entering the 'Devices' section on the left menu, the User can view all instruments that were paired to this ChemDash installation and edit their details. Please note that for Lite license, there is only one device that can be connected to a ChemDash instance. If you need to connect several devices, we advise to acquire **Pro** or **Pro+** version of our software.

The following actions are available from the "Device" menu:

	ChemDash Pro	Welcome, noemi								
ĭ 13 10	MEASUREMENTS	Statistics	86 Measurements		4 Libraries		<mark>6</mark> Users			
	DEVICES DEVICE USERS LIBRARIES	च ् ∎								
	ADMIN	바 Model Name) Indicator	Firmware version 6.3.0 DEMO2		Product type IND-1001-8		Serial Number •		
		ψ Serstech Arx	•	6.3.0 DEMO2		IND-1102-NEHP		1527044E0002		

8.1. VIEW LOGS

Many actions performed locally with the instrument are continually logged. Logs are automatically uploaded to ChemDash when the instrument is connected.

8.2. VIEW COMMANDS

This option links to a history of all commands which have been sent between the instrument and the ChemDash. It can be used to verify that actions are accepted by the instrument as well as for general network debugging purposes.

8.3. UPGRADE FIRMWARE

This is an option for updating the firmware on the connected device if firmware upgrade file is already downloaded on the computer.

8.4. RESTART

This option will restart the instrument.

By clicking on the instrument name, the User will be able to find all the details regarding the connected instrument.

	ChemDash Pro	Welcome, temporaryadmin						10		
		く Device 000000001ED 中 ・ Disable measurements download Detable			Network	🗘 Date & Time System				
#1 			FBE8024044364759342E3120FF0812 00000000016D		Serstech 100 Indicator	IND-1001 6.3.1				
ô			- 13/07/2022, 12:29:02		12/05/2022, 13:47:00	Russian, Fren 46:d3:6e:f0:14	:h, Chinese, Vietnami :2a	ise, Korean, S	wedish, Japa	nese,
			Test, Automatic Free 11354/14810 [MB]		99 Free 1496/1497 [MB]	7605 Free 11354/1	1810 [MB]			

8.5. DETAILS

This tab gives information about the instrument and is not editable.

8.6. SCAN

This tab shows the information related to the scanning process. There are some details that can be adjusted for the connected instrument. This can be done by clicking the pencil symbol and then choosing the desired option from the drop-down menu or manually selecting the number of seconds.

	ChemDash Pro	Welcome, temporaryadmin			<u>ې ال</u>	۵
		 C Device 000000000160 ♀ Cotable measurements download Details 	fan	Vetwork	🗘 Date & Time 🗢 Wriff Setup 보 System Rep	iorts
24		Auto Esposure Type: Standard + Scan Time (s): 0.30	Laser Mode: Muclium 👻	Scan Start Delay (s).	•	Edit
â		Users T T Q III				
		Admin	Default		01/01/2099, 02:00:00	
		User	Default		01/01/2099, 02:00:00	

8.7. NETWORK

This is the tab where the user can edit the fields in order to be able to connect the device via Wi-Fi.



	ChemDash Pro	Welcome, temporaryadmin							O	1	ı. ¢
× 8		< Device 0000000016D Oisable measurements dov Details				Network		Date & Time System			
#1			192.168.1.199 8.8.8.8		chemdash.con 8.8.4.4		Default Router: Dns From Dhcp:	192.168.1.1			Edit
â			192.168.137.1-9093								
		Users 🔹 \Xi	- Q III								

8.8. SYSTEM

This is the section where several device settings can be configured.

	ChemDash Pro	Welcome, temporaryadmin		o با، م
		 ✓ Device 0000000015D ♀ ■ ● Disable measurements download Details 	Nesot	및 Date & Time 중 Wi-Fi Setup 호 System Reports
#				
â		Users + 〒 Q III		

The 'Users' section displays the User accounts that are on the instrument. Also, there is the possibility to add some more users to the selected instrument.

Us	ers - - Q III				
	Given name 🔺	Account Domain	Account Lock	Pin Code exp.	
	Admin	Default	ð	01/01/2099, 04:00:00	
	temporaryadmin	NOEMID81C	ô	01/01/2099, 02:00:00	
	User	Default	ĉ	01/01/2099, 04:00:00	

9. DEVICE USERS

This section allows the creation and addition of the users for a device. The options of sorting, searching, and filtering (allowing the user to personalize the view) are there and have the same functionalities as for the other tabs.



The possibility to create and add a new user for the device is available only for **Pro version.** In order to create a new user, the button "Add User" must be clicked. A new window will open.

Welcome temporaryadmin						
च ् Q Ⅲ Filter by device						
Name	Create De	vice User				
User 1	Name			Crea	ite User	
User 2	orAssocia	nted System User				
User 3	Q Searc	h by name				
		Name	Domain	Category		
		(enpointyaonini		3 Uper Admini	Cancel	

There are two options for adding a Device user:

1. Create a Device User – add a name and click on "Create User" button

Create	Device User		
Test Use	er		Create User
or Ass	ociated System User		
Q se	earch by name		
#	Name	Domain	Category
		NOEMID81C-MANUAL	
		NOEMID81C-MANUAL	Admin
	temporaryadmin	NOEMID81C	SuperAdmin
	ss@serstech.com	AzureAD	
	sf@serstech.com	AzureAD	
		AzureAD	
	pb@serstech.com	AzureAD	
		AzureAD	
			> Cancel

The Admin must choose the name for the user to be created together with some privileges that will be given to it and also the device to be associated.

Test user					×
Q Search for device	Name				
	Test user				
1527044E0002	Device PIN				
	1 1 1 1		01/01/2099, 02:00:00		
	Account		Never		
			Number of months		
	Account Locked		Select date		
	Privileges				
	Add Substance 🗸	Remove Measurement		Usb Config 🛛 🗹	1
	Change			Usb Confia	
	Language	Scan Settings 🗸 🗸	I	Write	
	Factory Reset 🗹	Time & Date 🧹	I		
	Scan Settings				
				Са	ncel Create User

A PIN code must be set up in this stage and its expiry date. This one can be set to never or the number of validity months can be chosen. Also, there are some Scan settings that must be decided by checking them or not, so that the user will have/ not have those privileges. After all these details are established, the button "Create User" must be clicked. 2. Choose an "Associated System User" – meaning that for a certain ChemDash user there can be a Device user associated; the Admin doing this operation can choose from the list below the Search bar or search for a specific system user directly. In that list there are the ChemDash users that do not have a device user associated.

SERSTECH

After the choice was made, the "Create User" button must be clicked. This will lead to another window where details (Device Pin, Privileges, Pin Code Expiry, Account locked) must be set. It is also possible to select the device for which this user is created.

Test user						×
	Name					
	Test user					
1527044E0002	Device PIN					
	0 0 0		01/01/2099, 02:00:00]		
	Account					
	Account Locked					
	Privileges					
	Add Substance 🖌	Remove Measurement	2	Usb Config Read	~	
	Change 🖌	Scan Settings	2	Usb Config Write		
	Factory Reset 🖌	Time & Date	2			
	Scan Settings					
					Cancel	Update User

After all these details were established and the "Create User" button was clicked, there will be a notification announcing that this new user was created. Then, the device must be synced so the newly created users are transferred to the device.





In the Devices section, one can see all the Device users that were created, even if they have a system user associated or not.

	ChemDash Pro	Welcome tempor	raryadmin									11	ıh
× 0	MEASUREMENTS	Statistics	50 Measurements			0 Libraries			4 Users				
	DEVICES DEVICE USERS LIBRARIES	< Device 14	42A044E0009 中	Scan					Syste	수 Date & Time em	🛓 Syst	em Reports	
ô	ADMIN	IP adress: Netmask: Default router:	192.168.1.199 255.255.255.0 192.168.1.1	DHCP enabled: DNS from DHCP: NTP enabled:			DNS Server 1: DNS Server 2: NTP Servers:	8.8.8.8 8.8.4.4 pool.ntp.org					
		ChemDash Server:	chemdash		9093			time1.google.com					
		Users	→ = Q III								1±1-7	ldd User	
		🗌 🗸 🔛 Given na	ame 🔺 🔡	Family name		Account		User Category		Pin Code exp.			
		Admin	1	Default		ô		N/A		02/01/2099, 10	:00:00		
		PIN te	st	NOEMID81C-MANUAL		ð		Active		13/10/2121, 19	:39:28		
		User		Default		ð		N/A		03/01/2099, 08	:00:00		

In the Admin tab (visible only for **Pro version**), one can see all the System users, even if they have a Device user associated or not

	ChemDash Pro	Welcome, temporaryadmin				9 1	
*		Syste	m Users	Report tem	olates		
8	MEASUREMENTS						
Đ							
21							
Ē	LIBRARIES						
6	ADMIN	NOEMI794A	temporaryadmin		SuperAdmin		

10. LIBRARIES MANAGEMENT

In the library management, user defined libraries are handled. An essential functionality in ChemDash is the ability to build spectral reference libraries and download them to instruments for use in the field. This will allow the users to customize the solution to their specific needs.

The 'Libraries' are available on the left menu and if there are no libraries built yet, the following screen will be displayed:

	ChemDash _{Lite}	Welcome temporaryadmin			© ج <mark>ہ</mark> ۱۱۰
= 0	MEASUREMENTS	Statistics 137 Measurements	0 Libraries	14 Users	
#1 #1	DEVICES DEVICE USERS LIBRARIES	≂ Q Ⅲ			🕒 Add Library
		□ + III Title	11 State	. Version	No of substances
		No Libraries are available at this moment			

10.1. TO ADD A LIBRARY TO THE APPLICATION

The user has two options:

1. To import an already created library – only for ChemDash **Pro** users If there is a library that was previously created and exported to the PC from another ChemDash instance, that library can be imported in the current instance by going to the Libraries section, click on the 'Import' button and a window will show, from which the user can select the desired library.

	ChemDash Pro	Welcome temporaryadmin			<u>©</u> ا،
≍ 03	MEASUREMENTS	≂ Q. Ⅲ			🕑 Import
	DEVICES	Title	🚼 State	II Version	No of substances
24	DEVICE USERS	No Libraries are available at this moment			
e					
â	ADMIN				

2. To create a new library, by clicking on the 'Add Library' button, select a name and a description (optional) for it:





In case that the User had already created some libraries, the following screen would appear:

	ChemDash Pro	Welcome temporaryadmin			(ງ ≓ື	ih.
≍ 0	MEASUREMENTS REPORTS	Statistics 13 Mea	7 surements	4 Libraries	14 Users		
# #	DEVICES DEVICE USERS LIBRARIES	<u></u>			(L) Import	🕒 Add Library]
â	ADMIN	Hazardous	₹ State	:: Version 1	:: No of substances		
		Library 1	Ŧ	2	6		
		Medicines					

In order to see the items and all details, the user must click on one library and the details will be displayed.

By clicking the Edit button, the User can change the description of the library or add substances (from other libraries or from the measurements uploaded to ChemDash).

	ChemDash Pro	Welcome temporaryadmin				© ₽	×
=×	MEASUREMENTS REPORTS	Statistics 137 Measurement		4 Libraries	14 Users		
11 22 12	DEVICES DEVICE USERS LIBRARIES	Medicines Version 2 Editable Description No of nubrance: 7 Last saved: Language: English	All 16/04/2021, 15:03:44		Add Sobstance *	Discard changes	
	ADAIN	Acetaminophen Acetaminophen Acetaminophen Ethanol in water 50 %	ii CAS list 103-90-2 103-90-2 64-17-5	ID 000-71cf4004-8319-11eb-a70a-927bdfc733a9 000-c216sf76-823c-11eb-b0e4-7a07d0290522 000-afe3ce64-769e-11eb-884b-dd05bd5e92d4	Regulatory Type Narcotic: Marking Agent, Explosive: Clear, To Narcotic: Marking Agent, Explosive: Clear, To Narcotic: Clear, Explosive: Clear, Toxic: Clear.	xi xi	

A list with all available measurements will appear and the User can select the ones that wants to be added to the library.

ita	Add Substances	from measurements				×
gli:		Substance Name	Time	Quality	Device SN	
		No Match	09/04/2021, 14:57:36	0.04	131B03EC0004	
		Ethanol	15/03/2021, 16:16:29	0.8891	131B03EC0004	
		Lactose monohydrate	15/03/2021, 16:13:44	0.08	131B03EC0004	
in		Caffeine	15/03/2021, 16:12:14	0.6040000000000000	131B03EC0004	lg
		No Match	12/03/2021, 11:58:47		131B03EC0004	
in		Potassium chromate	12/03/2021, 11:57:17	0.06	131B03EC0004	l g
		Inconclusive	11/03/2021, 10:10:40	0.1	131B03EC0004	
in		Inconclusive	11/03/2021, 09:43:28	0.02	131B03EC0004	÷×
	—					-
P/ ch_ [_]	Measurement	s per page 10 - 1-10 of 129	< >		Add Cancel	ix

After adding all measurements into the library, the User can edit all substance information. To edit the substance information the User must click on the preferred substance and then click on 'Edit'. The substance window will show up. The data directly below the substance name 'Measurement information', represents information coming from the instrument and is not editable. This part has the information that will be shown to a User on a field analysis.

It is important to mention that ChemDash supports two types of information: GHS and Custom. GHS (Globally Harmonized System of Classification and Labelling of Chemicals) is substance information formatted according to the international GHS standard. ChemDash fully supports GHS, including relevant warning pictograms which are shown to the field officer when using the instruments. The ChemDash input form makes it easy to add GHS- formatted information to Users' library records. For a given substance we refer the user to find substance information in the safety data sheet from the supplier.

The Custom option allows User to add custom information, *e.g.*, specific handling procedures or responder actions to be performed when the substance in question has been identified. Thus, the combination of GHS and Custom information constitutes a very flexible solution which can be adapted to User needs over time. The data on the right side of the screen (below the spectrum plot) is internal information only. It is reference information related to the measurement situation, type of instrument used, etc. This is never displayed on the instrument in the event of a match to this library entry but only visible to ChemDash Users.

Once all changes are made to the library, the User can 'Save' the changes by clicking the correspondent button and the state of the library will be changed into 'Saved'.

□.	Title	State	Wersion	No of substances	
	Miscellaneous	Ŧ	1	8	
	Dangerous		1	0	
	Medicines		1	0	

In order to be able to send a library to a device, the User needs to Publish it first and that can be made by clicking the corresponding button. This change will be visible on the main page too.

. Title	State	# Version	No of substances	
Miscellaneous	₹ DINELSENTD	1	8	
Dangerous		2	3	
Medicines		.1 :	0	
Food		1	0	

Apart from editing a library, a User can also:

10.2. EXPORT IT TO THE PC

The exported library can be transferred to a PC with running another ChemDash installation to which the library can be imported. This action can be done from the main screen of the Libraries section, select the library that needs to be exported and click on "Export" button, as shown below:

	ChemDash ^{Pro}	Welcome temporaryadmin	,							2	
×	MEASUREMENTS	Statistics	137 Measurements		4 Libraries		14 Use				
#	DEVICES DEVICE USERS LIBRARIES	≂ ੨ ■						😫 Impo	rt [🛛 Add Libra	iry.
â	ADMIN	Hazardous		II State		I Version		II No of substances			
		Library 1						3	Edit		
		Library 2						6	Send to device		
		Medicines						10	Remove		

10.3. SEND IT TO THE INSTRUMENT

A library can be sent to a connected device only after it was published. The user must select the desired library from the main page of Libraries section and click on "Send to device" button

	ChemDash Pro	Welcome temporaryadmir	į						0	16	սե
×	MEASUREMENTS	Statistics	137 Measurements		4 Libraries		1 v	4 sers			
# #	DEVICES DEVICE USERS LIBRARIES	<u></u> = Q Ⅲ						timpo	rt	Add Libri	iry.
â	ADMIN	Hazardous		€ State		Version 1		No of substances			
		Library 1						3	Edit Export		
		Library 2						6	Send to devi		
		Medicines						10	Remove		



When building a library, the User is allowed to use his/her own measurements made with the instrument as reference. The User can use measurements made with any of the methods in the instrument. But to ensure maximum data quality we recommend collecting reference data with the Add New Substance method.

10.5. LIBRARY STATUS CHANGES

When working with libraries, the User will notice that the library status changes based on the activity. When the library is newly created, the status is 'Editable'. This indicates that the library has been created and is now being edited by the User. In this state the library cannot be downloaded to instrument and it is accessible only to the specified User.

31

However, if something happens and the user does not have the chance to press the Save button and the application closes (e.g. due to a power outage), the changes that were made in the library will not be lost.

	ChemDash Pro	Welcome temporaryadmin	e temporaryadmin				
× 0	MEASUREMENTS	Statistics 137 Measurements	4 Libraries	14 Users			
11 22	DEVICES DEVICE USERS	Hazardous			Add Substance * Discard changes		
		g Version: 1 Editable Description weed No of substance: 0 Last asved: 19/04/2021;101556 Language: English					
-		No Library Items are available at this moment	II CAS list	# D	Regulatory Type		

Once the User has made and saved all changes, then the status changes to 'Saved'. This state shows the library has been edited by someone and then saved.

	ChemDash Pro	Welcome tempora	aryadmin			O	₽	×
×	MEASUREMENTS REPORTS	Statistics	137 Measurements	4 Libraries	14 Users			
8) ** •	DEVICES DEVICE USERS LIBRARIES ADMIN	Library 1 Version: 2 Sa No of substance: 3 Language: En	wel Description: All types substances Last saved 19(04/2021, 10:18:22 rglish		Ŧ	Edit	Publish	
0		Ethanol ISOPROPANOL	E CAS list 64-17-5 67-63-0	000-0a84d6de-8599-11eb-b896-8374b9326d80		Regulatory Type Narcotic: Clear, Explosiv Narcotic: Clear, Explosiv	e: Clear, Toxi e: Clear, Toxi	ic: Clear ic: Clear
		PARACETAMOL	103-90-2	000-945e68da-8598-11eb-9407-8374b9326d80		Narcotic: Clear, Explosiv	e: Clear, Tox	ic: Clear

When the User clicks on 'Publish' then the status changes to 'Published' which means that the library is now ready to be sent to the instrument.

1	ChemDash Pro	Welcome temporaryadn	nin		© ≓ [₽] ×
≍ 0	MEASUREMENTS REPORTS	Statistics	137 Measurements	4 Libraries	14 Users
	DEVICES DEVICE USERS LIBRARIES ADMIN	Medicines Version: 3 Published No of substance: 10 Language: English	Description: All Last saved: 19/04/2021, 10:19:51		🛓 Edit 🗸 Publish
Ô		II Name Acetaminophen Acetaminophen Caffeine	CAS list 103-90-2 103-90-2 771-56-2	ID 000-71cf4004-8319-11eb-a70a-927bdfc733a9 000-c216af76-823c-11eb-b0e4-7a07d0290522 000-c216af76-823c-11eb-b0e4-7a07d0290522 000-7357e684-8598-11eb-8e13-8374b9326d80	Regulatory Type Narcotic: Marking Agent, Explosive: Clear, Toxi Narcotic: Marking Agent, Explosive: Clear, Toxi Narcotic: Marking Agent, Explosive: Clear, Toxic. Narcotic: Clear, Explosive: Clear, Toxic: Clear

The substance which doesn't have a translation for the selected language, will have a visual different sign at the beginning of the row.

- 7723-14-0 000-911d5e74-d803-11ec-be0d-01ec4ca772de Narcotic: Precursor, Explosive: Precursor, Toxi

The user has the option to change the language of the library, by clicking the arrow next to the language. For now, there are 15 options: English, Chinese, German, French, Indonesian, Italian, Japanese, Korean, Polish, Romanian, Spanish, Swedish, Russian, Ukrainian and Vietnamese.

4	ChemDash ^{Lite}	Welcome, noemi	
	MEASUREMENTS REPORTS DEVICES	Substance: A-35 Substance languages: EN, FR Viewing language: English	
#	DEVICE USERS LIBRARIES	Measurement informat German French Indonesian Substance basic info Indonesian Italian Japanese Substance name: Korean	~ ~ ~ 8
		Polish Polish Romanian CAS Number: Spanish Substance class: Swedish Supplemental note: Vietnamese Custom info: Vietnamese	

Once the user has selected the language, he/she will have the possibility to manually add the translation in that language for some fields, Title and Description of the library.

	ChemDash _{Lite}	Welcome				
=			Title			
13		Version: 2 Editable Description: -	LIBRARY 1	English		
B		No of substance: 2 Last saved: 28/03/2022, 14:36:07		Chinese		
22				German		
			Librairie	French		
				Indonesian		
		Fr nom de la substance -	Libreria	Italian	4f78a7b0fca1	
				Japanese	5-3d5e91368f3c	
				Korean		
				Polish		
				Romanian		

There is also the possibility to Import/Export the translations made for a specific library by clicking on the Import/Export buttons; then the desired languages must be selected and the location where to be saved must be chosen. A notification will announce that the operation was successful.

-	ChemDash ^{Pro}	Welcome, noemi										
		Test 1 Version: 2 Published Desc No of substance: 6 Last : Viewing language: English -										
		Export translations Import translations		Select at least one other language					French	×		
		Substance Name CAS list Propylene glycol 57-55-6			Indonesian Polish	Ital	lian manian		Japanese Spanish		Korean Swedish	
		4-phenylbutylamine 13214-66-			Russian	Uk	rainian		Vietnamese		Export	
		Propylene glycol 57-55-6										
		4-phenylbutylamine 13214-66-					000-76	Se62020	0-995d-11ec-8	5a8-7b	6e68283572	

After having edited the details of the library, the user can edit some of the Substance details in the desired language.



<					
Substance: FR Nom de l	a substance				
Substance languages: El	N, FR				
/iewing language: Frend	h 🕶				
Measurement information					~
ubstance basic info					^
				Ľ	
	FR NOM de la substance				
Substance synonym:	•				×
CAS Number	~				
Substance class:	U	_	Class	_	
	Narcotic		Clear		E E
	Toxic	 	Clear	 	
	Hazardous	•	Clear	•	x
	Regulated	•	Clear		x
Supplemental notes:					
Custom info:					

After having done all the editing, the Save symbol must be clicked.

The GHS information can also be edited and translated by opening the GHS section and clicking on the pen symbol.



After having finished all the editing, the user must click on the Save button

. In order to keep all the modifications, the user must click on Save changes button **Save** and the whole library will be saved.

11. ADMINISTRATION

This section is only available for **Pro version** and the Users with administrative rights have access. From here, Users with administrative rights (Admin and the Super-Admin) can manage the ChemDash application User accounts and create new case report templates.

11.1. USER MANAGEMENT

New users to the application are added under the User Management section. The User with administrative rights to the application can either import user accounts from the same Active Directory environment or Add User manually.

	ChemDash Pro	Welcome, noemi				
ĭ ∎	MEASUREMENTS	- User	Aaragement			
8	REPORTS DEVICES DEVICE USERS	₹ Q III		Refresh system users	 dd User	
e	LIBRARIES	Account Domain 🔺		User category		
<u></u>	ADMIN	desktop-Qhdenpo	Name	SuperAdmin		

By clicking on the username in the list of users it is possible to give the user access to ChemDash. Important to mention that the User category should be chosen very carefully as each User will get different access privileges to the application. The available User categories are:

• 'Disabled' – this User's credentials will be de-activated.

- 'Active' normal User with basic access that the Admin will provide.
- 'Admin' this category has special rights: to create a User, to create report templates, to remove and add libraries.
- 'Super-Admin' has the same rights as the Admin and he is the one who gives the first Admin rights to the established users.

User Details Name: noemi	Account Domain: DESKTOP-QHD6NPO	Disabled X Active Admin SuperAdmin
Signed Actions Publish Library Create Report Template Export Report 		Cancel Update

A user not available on the list, and thus without access to ChemDash, can be configured as an instrument user from ChemDash; this can be done by clicking `Add User'. When selecting the option 'Add User' a new window will pop up. One can select to add a User from the Active Directory or from Azure Active Directory. There is also the possibility to search for a specific user in the Search field.



User Management					
≂ Q Ш	Add User Active Directory Control for units	Azure Active Directory	×		Add User
Name	Search to user			category	
temporaryadmin	,	lo users found		verAdmin	
User 1				ive	
User 2				ive	
User 5				ive	
User 3				ive	
User 4				nin	
Test User				ive	

If the Azure Active Directory is chosen, the following screen will appear:

🏧 Sign in to your account		-	×
File Edit View Window Help			
	Microsoft		
	Sign in		
	Email or phone		
	Can't access your account?		
	Next		

After the e-mail account is filled in, the User with administrative rights must fill in the password for this account and to finalize the authentication

process. After all the information is completed, a loading screen will appear:



Then, the whole list of Azure Active Directory will be displayed and the users to be added will be chosen by clicking the 🖬 button. These are the ChemDash users that will have access to the application.

It is also possible to make some changes on the PC, e.g. add a new user; in order to have those changes visible on ChemDash, there is the "Refresh system users" button that can be clicked and the list will be refreshed.

	ChemDash Pro	Welcome,				
≕						
6	REPORTS					
B #	Devices Device Users	≂ Q ₩		Refresh system users		
۶	LIBRARIES	🖁 Account Domain 🔺	H Name	User category		
	ADMIN	DESKTOP-QHD6NPO		SuperAdmin		

12. REPORT TEMPLATES

Another section that is visible only to the Admin and Super-Admin in the **Pro version** is the one related to the Report template creation.

There are many situations that require a specific case or comparisons between measurements and data stored. The user can select which template to use in order to get a report that suits the needs. This can be done from the Reports section on the left menu.

ChemDash comes installed with a default template that can be used to create a report. Also, for **Pro version**, the Admin can create some personalized templates that would better suit the needs.

As mentioned before, only the Users with administrative rights to the application can create report templates under the 'Admin' section and then 'Report Templates'. A report template will allow the user to choose what elements (information) must be shown on a case report based on their specific needs.

	ChemDash Pro	Welco	me			0	۲	11	սե
=<	MEASUREMENTS				Report templates				
B	REPORTS								
8) 22			Q III				Create	Report Temp	plate
٥	LIBRARIES		Name		Date 🔻				
â	ADMIN		Default Template	100	21/03/2022, 11:31:58				

When clicking the 'Create Report Template' button, the user must name the template and choose which elements are to be selected and displayed in the report.



The elements that can be selected are: Last Calibration checked, Measurement Images, Compare Spectra, Signature field(s), Free text, CAS info, GHS info, Label text, Device info, Measurement Meta Data, Measured spectrum, Identified substance name, Header and Logo.

Last Calibration Check	
Measurement Images	
Compare Spectra	
Signature field(s)	
Free text	
CAS info	
GHS info	
Label text	
Device info	

Measurement meta data	
Measured spectrum	
Identified substance name	
Header	
Logo	

These sections can be arranged in the desired order so that they appear on the report according to the User's needs by using the specific option, the user must grab this symbol and move up/down the element that needs to be moved.

After creating the template as per one's needs, it must be saved; then there will be a pop-up saying that the report template was created.

By selecting "Create report" the measurement is included in a report. To include several spectra, follow the procedure for batch export.

Once the Admin has finished adding elements, click on 'Save', so the case report template will be saved and be available for further use.

The Admin has also the ability to remove a template from the ChemDash application, by clicking the expandable menu at the end of the row, then Remove.

After creating the template, the User can now create a case report.

13. LICENSING

Based on the type of license that the user has on the device, the ChemDash will be one of these variants:

- ChemDash Lite
- ChemDash Pro
- ChemDash Pro+ (that is described in a separate guide)



Has the following particularities:

- a Lite instrument connects, ChemDash becomes ChemDash Lite and will not accept connection from any other instrument
- Connectivity only through USB
- Standard reports (default template)
- View measurements
- Measurement export
- Device update (FW)
- Manage custom libraries, but not import/export
- Number of total devices: 1

Since AD integration is not available in Lite, only local Windows users should be allowed, i.e. there is only one user of ChemDash and that is the Windows user logged in.

13.1. CHEMDASH PRO

In addition, the Admin tab appears and also it has the following features:

- Connectivity through USB and WiFi
- Import/export custom libraries
- Customized reports/report templates
- Customized device settings
- Advanced user management
- Report template creation
- Number of total devices: several, with no upper limit
- Active directory integration
- Backup and restore functionality

14. APPENDIX

14.1. HOW TO IMPORT USERS TO CHEMDASH

In order to import users in the application, the Admin must go to the Admin tab and click the "Add User" button; after having logged in again with the Microsoft credentials, there is the possibility to select the desired users to be imported by clicking on the button. After the import is done, there will be a notification displaying that the users were added and the screen will be refreshed automatically.

14.2. HOW TO SET DIFFERENT HIERARCHY LEVELS AND PRIVILEGES TO IMPORTED USERS

The hierarchy levels of the users is the following:

- 'Super-Admin' has the same rights as the Admin and he is the one who gives the first Admin rights to the established users.
- 'Admin' this category has special rights: to create a user, to create report templates, to remove and add libraries.

- 'Active' normal user with basic access that the Admin will provide.
- 'Disabled' this user's credentials will be de-activated.

The Admin and the Super-Admin have the right to set privileges and establish rights for the users. In order to do so, they must go to the Admin tab, click on Users Management section and select the user they want to work on.

				Report templates
च Q Ш	User Details			
🗮 Account Domain 🛛 📥			Disabled	
AzureAD	Testing	DESKTOP-QHD6NPO-MANUAL	Active	Active
AzureAD	Signed Actions		SuperAdmin	Active
DESKTOP-QHD6NPO	Export Report			SuperAdmin
DESKTOP-QHD6NPO-MANUAL				Active
DESKTOP-QHD6NPO-MANUAL				Active
DESKTOP-QHD6NPO-MANUAL				Active
		Γ	Cancel Update	

The Admin must select the different details to be changed (User category – level of access, Privileges).

14.3. HOW TO CREATE AND EDIT CASE REPORTS

A report can be created by clicking the' Create Report' button. The User can now choose a report template and add a substance or substances that will be shown on the report and then click on 'Generate'.

Create Report								
Choose report template:	Test 2							
	Template 1	Template 1						
Measurements	Default Temp	plate						
٩								
Name	Sequence	Device S.N.	Time A	dd				
2,2-DIMETHYLBUTANE	195	131B03EC0004	11/01/2021, 09:32:24	2				
SUCROSE	193	131B03EC0004	11/01/2021, 09:12:56	-				
Sodiumhydrogen carbonate	192	131B03EC0004	11/01/2021, 09:10:37	3				
Polyethylene	188	131B03EC0004	11/01/2021, 09:05:06	2				
PARACETAMOL	187	131B03EC0004	11/01/2021, 09:04:01	3				
			He bbA]				
Measurements to Report								
			Cancel Generate	e				

The case report is now saved in the Reports section.

The user will also have the option to download the report to the PC in a PDF format.

14.4.HOW TO CREATE CASE REPORT TEMPLATES

To create a report template, please go under the 'Admin' section and then 'Report Templates'. A report template will allow the user to choose what elements (information) must be shown on a case report based on their specific needs.



The Admin can now select one or more Elements for the case report.

	ChemDash Pro	Welcome, noemi			S	۲	п	ih
=								
B								en traspina
11) 24								
۵								
a								
			Template name:					
			+ Element					
			Created: Not created yet Cancel	Save				

<u>ChemDash User Manual</u>



10				
		Last Calibration Ovek		
13		Measurement Images		
ß		Compare Spectra		
6		Signature field(s)		
		Free text		
		CAS info		
		GHS Info		
		Label text		
		Device info		
		Measurement meta data		

		Free text		
8		CAS info		
11 24		GHS info		
Ø		Label text		
e		Device info		
		Massurement meta data		
		Measured spectrum		
		Identified substance name		
		Hesder		
		Logo		
		Cancel		

Once the Admin has finished adding elements, click on 'Save', so the case report template will be saved and be available for further use.

The Admin has also the ability to remove a template from the ChemDash application, by clicking the expandable menu at the end of the row, then Remove.

After creating the template, the User can now create a case report. A report can be created by clicking the 'Create Report' button from the Reports section on the left menu. The User can now choose a report template, for **Pro version** or the Default template for Lite, and add a substance or substances that will be shown on the report and then click on 'Generate'.

Create Report			
Choose report template:	Test 2		
	Template 1		
Measurements	Default Temp	plate	
۹			
Name	Sequence	Device S.N.	Time Add
			11/01/2021, 09:32:24 +
			11/01/2021, 09:12:56 +
			11/01/2021, 09:10:37 +
			11/01/2021, 09:05:06
			11/01/2021, 09:04:01 +
			Add all
Measurements to Report			
		_	
			Cancel Generate

The case report is now saved in the Reports section.

The user will also have the option to download the report to the PC in a PDF format.

14.5. HOW TO CONNECT THE DEVICE TO CHEMDASH VIA USB

If the User wishes to connect the device to the ChemDash application using the USB cable the following procedure must be kept in order:

- Make sure that the instrument is switched off and that the ChemDash software is not running
- Connect the instrument and the PC via the USB cable
- Start the software ChemDash software
- Start the instrument and log in as Admin using your own credentials.

Please note, that the instrument and ChemDash communicate via port 9093 and some fire walls need to be configured to allow traffic on this port. If you get any error messages about communication via port 9093 then it's most likely that your PC firewall needs to be configured to allow traffic via port 9093.

14.6. HOW TO CONNECT THE DEVICE TO CHEMDASH VIA WI-FI

To connect the instrument using a WiFi connection:

- 1. Start ChemDash.
- 2. Connect the instrument via the USB cable, turn it on and log in as admin.

3. Go to Settings on the device and then to Wi-Fi and activate it.

3. Go to Devices section, select the instrument you have connected and click on it so that the details are displayed.

	ChemDash Pro	Welcome, temporaryadmin				©
	MEASUREMENTS REPORTS DEVICES	Device 00000000 Disable measurements Details		Scan	Network	Q Date & Time
1			F8E8024044364759342E3120FF0812		Serstech 100 Indicator	IND-1001
			0000000016D		Demo	
â					12/05/2022, 13:47:00	Russian, French, Chinese, Vietnamese, Korean, Swedish, Japanese,
			13/07/2022, 12:29:02			46id3i6e:f0:14:2a
			Test, Automatic			
			Free 11354/14810 [MB]		Free 1496/1497 [MB]	Free 11354/14810 [MB]

- 4. Click on the "Wi-Fi setup" button.
- 5. Fill in the Wi-Fi name and password

WiFi Setup				
	WiFi Name:			
	Password:			
			Dk	Cancel

7. After the setup it is done, the information needs to be sent to the instrument. Sync the instrument with ChemDash, by clicking on the Sync icon.

9. The instrument will now automatically restart. Remove the USB cable and insert the Wi-Fi adaptor. A message pops up and shows that the device was connected.

WiFi Setup	
1	
Syncing device configuration, please wait for the device to restart	
	Cancel

Important to note that when the instrument goes into sleep mode, the wireless connection is lost.

14.7. HOW TO SYNCHRONIZE THE DEVICE

Sync the instrument with ChemDash, by clicking on the Sync icon. If the instrument is connected via USB cable or WiFi, the synchronization will take place immediately, causing a restart of the device. If the instrument is not connected, the synchronization will happen when the device will be connected to the app.

	ChemDash _{Pro+}	Welcome temporaryadmin						ւհ
=× 13	MEASUREMENTS REPORTS			DEVICE 131803EC0004		11		
	DEVICES					Sync		
**	DEVICE USERS	반 Serstech 100 Indicator	5.4.9	IND-1001-NEHP	1311			
â	ADMIN							

14.8. HOW TO MANAGE THE DEVICE THROUGH CHEMDASH

The instrument can be handled via the application by entering the Devices section; there the User can see all connected devices to the app. By clicking the expandable dots, he/she can see all the commands given to the device, the Logs, update the Firmware or restart the device. By clicking on a specific device, several sections will appear: Details, Scan, Network and System. By connecting any instrument to the application, it will automatically pair with ChemDash.

14.9. HOW TO ADD DEVICE USERS THROUGH CHEMDASH

In order to add some users to the selected device, the Admin must enter the Device details tab and then from the Users section, he/she must click on 'Add Users' button. Another window will open displaying all the available users that can be added. The ones that are already there, are greyed out so they cannot be selected anymore.

Welc	ome temporaryadmin				⊙ ⊕ ^{en} ≓		
< De	vice 131B03EC0004						
= Q III							
	Family NameFamily name		User CategoryUser Category	Chemdash User IdID	Given NameGiven name		
Ø	Default		N/A	N/A	Admin		
	S	â	SuperAdmin	S-1-5-21-3157838925-2358588427-846330340-1000	N		
	DESKTOP-BJE5IQ3		N/A	N/A	Noemi		
<u>i</u>	Default		N/A	N/A	User		
ũ	AzureAD	â	Disabled	a678df8f-9bb6-4c53-99c6-6311026766ed	ChemDash.support@serstech.com		
	AzureAD	۵	Disabled	f94c3fc4-5e11-42ba-bd64-bdc2e69cb0e4	Emergency.user@serstech.com		

After having selected the desired users, we click on "Add to Device" button and the action is done.

14.10. HOW TO USE CHEMDASH ONE AND CHEMDASH IN PARALLEL? If there is an older version of ChemDash, like 1.0, and there is also this newest version of ChemDash, the two applications can run on the same computer, but not at the same time, as they are both listening to port 9093.

In order to start ChemDash, the user must follow the normal installation steps. Then, to start the service for ChemDash, the user must access the Services app (write in the start bar "Services")



After opening the Services, a list with all available services will be displayed.

The user must select ChemDash from the list and right-click on it

🔍 Services								-	×
File Action View	Help								
♦ ♦	🗟 🛛 🖬 🕨 🗉 🕪								
Services (Local)	Services (Local)								
	ChemDash	Name	Description	Statu	s	Startup Type	Log On As		^
	<u>Start</u> the service	Application Layer Gateway S. AppX Deployment Service (A. Auto Time Zone Updater Auto Time Zone Updater AvtCTP service Background Intelligent Tran. Base Filtering Engine BitLocker Drive Encryption S. Block Level Backup Engine S. Block Level Backup Engine S. Bluetooth Audio Gateway Se. Bluetooth Support Service	Provides sup Provides infr Automaticall This is Audio Transfers file Windows inf BDESVC hos The WBENGL Service supp The Bluetoo	Runn Runn Runn Runn Runn	ing ing ing ing ing	Manual (Trigg Disabled Manual (Trigg Automatic (De Automatic Automatic Manual (Trigg Manual (Trigg Manual (Trigg	Local Service Local System Local Service Local Service Local System Local System Local System Local System Local System Local Service Local Service		
		Bluetooth User Support Serv. Capability Access Manager S. Capability Access Manager S. CaptureService_DSea3 Cellular Time Certificate Propagation ChemDash Client License Service (Clip Clipboard User Service (Dip Clipboard User Service D5 CNG Kev Isolation	The Bluetoo Provides faci Enables opti This service Copies user Start Stop Pauce	Runn Runn	ing ing ing	Manual (Trigg Manual Manual (Trigg Manual (Trigg Automatic Manual (Trigg Manual Manual (Trigg	Local System Local System Local System Local System Local System Local System Local System Local System		
	Extended / Standard /	COM+ Event System	Resume Restart		ing	Automatic	Local Service		~
			All Tasks Refresh	>					
			Properties						
			Help						

After the service is started, ChemDash will run.

If the user wants to run again ChemDash One, all that needs to be done is to enter again Services, as previously shown, find ChemDash service and Stop it (right-click it and then "Stop"). After that, the older version of ChemDash will start as usual.

15. LEGAL INFORMATION

© 2024 Serstech AB. All rights reserved.

All trademarks are the property of their respective owners. This manual is provided "as is" without any warranty. Serstech AB shall not be liable for any incidental or consequential damages in connection with the use of this material.

16. INTELLECTUAL PROPERTY RIGHTS

SERSTECH AB has intellectual property rights relating to technology embodied in the product described in this document. In particular, and without limitation, these intellectual property rights may include patents or pending patent applications in the US and other countries. This product contains third-party software.

17. TRADEMARK ACKNOWLEDGMENTS

◆SERSTECH is a trademark of SERSTECH AB. All other company names and products are trademarks or registered trademarks of their respective companies. Ethernet, Internet Explorer, Linux, Microsoft, Mozilla, UNIX, Windows and WWW are registered trademarks of the respective holders. Java and all Java-based trademarks and logos are trademarks or registered trademarks of Oracle and/ or its affiliates. UPnP [™] is a certification mark of the UPnP [™] Implementers Corporation. SD, SDHC, SDXC, miniSD, microSD, miniSDHC, microSDHC and microSDXC are trademarks or registered trademarks of SD-3C, LLC in the United States, other countries or both.

18. EQUIPMENT MODIFICATIONS

This equipment must be installed and used in strict accordance with the instructions given in the user documentation. This equipment contains no user-serviceable components. Unauthorized equipment changes or

modifications will invalidate all applicable regulatory certifications and approvals.

19. DISPOSAL AND RECYCLING (EUROPE)



This symbol means that the product shall not be disposed of together with household or commercial waste. Directive 2012/19/ EU on waste electrical and electronic equipment (WEEE) is applicable in the European Union member states. To prevent potential harm to human health and the environment, the product must be disposed of in an approved and environmentally safe recycling process. For information about your nearest designated collection point, contact your local

authority responsible for waste disposal. Businesses should contact the product supplier for information about how to dispose of this product correctly.

20. SUPPORT

For technical assistance, please contact your SERSTECH reseller. If your questions cannot be answered immediately, the reseller will forward your queries to ensure a rapid response. For more information, please visit our Support or check our FAQ page: <u>www.serstech.com/support</u>