ChemDash ONE

User Manual

Version 5.14.5

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1. Introduction to ChemDash

ChemDash is a software developed by Serstech AB. The ChemDash system integrates with all Indicator 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 and update one or many instruments.

The ChemDash system currently consists of the ChemDash ONE application. ChemDash ONE is a stand-alone version of ChemDash. If the User is offline or have restrictions for sharing, ChemDash ONE is the right software.

1.1 Introduction to ChemDash ONE – the stand-alone solution

ChemDash ONE is an application designed for one User, one PC, one device (Serstech 100 Indicator) and to operate without Internet connection. ChemDash ONE offers to the User the following main features:

- USB cable connection for Indicator and PC for fast and local management of measurement data.
- User can manage its Indicators, monitor their status and manage instrument Users.
- User can manage all measurements made with the Serstech 100 Indicator which will be automatically uploaded to the computer as soon as the Indicator is connected. The measured spectra will be visible in the Data section for further work.
- User can manage and tailor the solution according to its needs. User can also build its own spectral reference libraries and download them for use with selected Indicator devices. Libraries can be built from any combination of individual data (Indicator measurements).

2. ChemDash ONE

2.1 How to connect a Serstech 100 Indicator to ChemDash ONE

ChemDash ONE and the Indicator communicate over the supplied USB cable. The best way to connect the two is to respect the following order:

- 1. Connect the Indicator and the computer via the USB cable.
- 2. Start the software ChemDash ONE.
- 3. Click on the Admin Unlock and type in your personal password.
- 4. Start the Indicator.

Please note, that the Indicator and the ChemDash ONE communicate via port 9093 and some firewalls need to be configured to allow traffic on this port. If there are any error messages about communication via port 9093 then its most likely that the computer firewall needs to be configured to allow traffic via port 9093.



The Indicator status in ChemDash will change as soon as a User with the "ChemDash Connection Privilege" has logged in on the Device, please see picture below.

SERSTECH ChemI) Jash	Home Devices	Data 🗸 55	Case Reports Adr	min •			Help 🕶				
Home / Device	es											
	Window Snip											
Device N	Device Management											
								Search				
	Device Tag	Device	Connection	Status	Last Seen ↓	Model	Software Version	Calibration Date				
		Q	Q	(All) 👻	۹ 🖬	Q	Q	۹ 🖬				
Device 🗸		130803E90005	Disconnected	ОК	5/7/2019, 11:56	Serstech 100 Indicator	5.2.8	5/6/2019, 11:33				
Device 🗸		130803E90010	Disconnected	ОК	5/6/2019, 14:34	Serstech 100 Indicator	5.2.8	5/6/2019, 11:10				
Device 🗸		0000000007E	Connected	ОК	5/8/2019, 11:46	Serstech 100 Indicator	5.2.8	5/3/2019, 07:37				
Device 🔻		0000000016D	Disconnected	Rebooting	4/17/2019, 15:02	Serstech 100 Indicator	5.2.8	4/9/2019, 15:06				
Device 🔻		000000000071	Disconnected	Rebooting	4/17/2019, 14:51	Serstech 100 Indicator	5.2.8	3/12/2019, 10:29				
Device 🔻		0000000016E	Disconnected	ОК	4/17/2019, 10:34	Serstech 100 Indicator	5.2.8	2/25/2019, 08:48				

In order to get full connectivity with a "ChemDash ONE Connection Privilege" the User needs to log into the Indicator as an Admin while being connected to ChemDash ONE. Thus, any User logged in the Indicator can connect the Indicator to ChemDash ONE and upload new measurements.

If the User tries to change an Indicator from ChemDash ONE on one computer to ChemDash ONE on another computer, ChemDash ONE will notice and notifies the User with the status "Moved device", please see picture below.

USERSTECH	Dash	Home	Devices	Data 👻 🕻	Case Reports	Admin -							Help▼
Home / Devi	ices												
Device	Manage	emer	nt										
	5									Ð	Q, 9	Search	
	Device Tag	Device		Connection	n Status		Last Seen	\downarrow	Model	Software Version	C	Calibration D	ate
		Q		Q	(All)	•	Q	Ċ.	Q	Q	C	2	Ē
Device 🗸		000000	000092	Moved device	e OK		5/8/2019, 13:29		Serstech 100 Indicator	5.2.7	4	4/29/2019, 09) :44
Device 🔻		130803	8E9000E	Disconnected	в ОК		5/8/2019, 12:51		Serstech 100 Indicator	5.2.8	4	l/19/2019, 08	B:24
Device 🗸		130803	8E90005	Disconnected	a Rebooting		5/8/2019, 12:50		Serstech 100 Indicator	5.2.8	5	5/7/2019, 09:	.58
Device 🗸		000000	000016E	Disconnected	Processing		5/8/2019, 12:50		Serstech 100 Indicator	5.2.8	5	5/3/2019, 07:	17

In this particular case, so as to connect to a new instance of ChemDash ONE, the User needs to disconnect the Indicator from the old instance of ChemDash ONE. In order to disconnect the indicator, please do the following:

- 1. Log in the Indicator as Admin.
- 2. Press the Quick Menu button and select Settings.
- 3. After, select Administration and Unpair Device.
- 4. Once the device is unpaired, it will restart.

5. After the Indicator has unpaired a User with the "ChemDash ONE Connection Privilege" needs to log in the Indicator again, while it is connected to the new instance of ChemDash to allow data to be uploaded.

2.2 Manage Device

The "Device Management" page will show a list of all Indicators in Users' organisation and their current connection (connected/disconnected).

	Dash	Home Devices	Data 👻 221	Case Reports Ac	dmin v			Help -			
Home / Dev	ices										
Device Management											
								Search			
	Device Tag	Device	Connection	Status	Last Seen	Model 4	Software Version	Calibration Date			
		Q	Q	(All) 👻	۹ 🖬	Q	Q	۹ 🖬			
Device 🗸		00000000092	Connected	Processing	5/8/2019, 13:34	Serstech 100 Indicator	5.2.7	4/29/2019, 09:44			
Device 🗸		0000000007E	Disconnected	ОК	5/8/2019, 12:42	Serstech 100 Indicator	5.2.8	5/3/2019, 07:37			
Device 🗸		130803E90005	Disconnected	Rebooting	5/8/2019, 12:50	Serstech 100 Indicator	5.2.8	5/7/2019, 09:58			
Device 🔻		0000000016E	Disconnected	Processing	5/8/2019, 12:50	Serstech 100 Indicator	5.2.8	5/3/2019, 07:17			
Device 🔻		00000000071	Disconnected	Rebooting	4/17/2019, 14:51	Serstech 100 Indicator	5.2.8	3/12/2019, 10:29			
Device 🔻		130803E9000E	Disconnected	ОК	5/8/2019, 12:51	Serstech 100 Indicator	5.2.8	4/19/2019, 08:24			

In Device Management, you can view basic facts about the device, such as serial number, connection and when the device was last logged into ChemDash ONE. You can also review the software version running on the Indicator and when the device was last calibrated.

By clicking on the "Device" button to the left in the device table, a submenu shows the actions you can perform with your Indicator, please see picture below.

Home / Devices	◆SERSTECH ChemDash	Home	Devices	Data 🗸 565	Case Reports	Admin v	Help v
	Home / Devices						

Device Management

								Search
	Device Tag	Device	Connection	Status	Last Seen	Model 4	Software Version	Calibration Date
		Q	Q	(All) 👻	۹.	Q	Q	Q 🕻
Device 🗸		00000000092	Connected	Processing	5/8/2019, 13:36	Serstech 100 Indicator	5.2.7	4/29/2019, 09:44
View Detai	ls	0000000007E	Disconnected	ОК	5/8/2019, 12:42	Serstech 100 Indicator	5.2.8	5/3/2019, 07:37
View Comr	mands	130803E90005	Disconnected	Rebooting	5/8/2019, 12:50	Serstech 100 Indicator	5.2.8	5/7/2019, 09:58
Restart		0000000016E	Disconnected	Processing	5/8/2019, 12:50	Serstech 100 Indicator	5.2.8	5/3/2019, 07:17
Device 🔻		00000000071	Disconnected	Rebooting	4/17/2019, 14:51	Serstech 100 Indicator	5.2.8	3/12/2019, 10:29
Device 🔻		130803E9000E	Disconnected	ОК	5/8/2019, 12:51	Serstech 100 Indicator	5.2.8	4/19/2019, 08:24

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

1. View Details

This option will launch into a more detailed view of the device where you also can edit the settings of your Indicator, manage embedded spectral reference libraries etc.

2. View Logs

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

3. View Commands

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

4. Restart

This option will restart the Indicator.

2.3 Manage Device Details

The Detail view will display more in-depth information about the Indicator. The tabs contain configurable parameters, instrument User settings, reference libraries etc, all of which can be managed by the User, please see picture below.

Device Details					
Connected Synchronize	ed				Device 👻
Tag			Contact Info		
Product Model Serial Number Software Version	Serstech 100 Indic 00000000092 5.2.7 / 405	ator Libraries Latest Calibration Latest Factory Reset	NEH 4/29/2019, 09:44 Never	Free Space Battery Level	11183 [MB] 61%
Settings					Last Updated: 5/8/2019, 14:06
Scan		Network	System	1	Libraries
Auto Exposure Laser Power Scan Time (s) Scan Delay (s) Screen Method Type Add Substance Repeats	Standard Medium 12.688 0 Narcotics Explo 3	osives			

The Basic Info section includes some pieces of information which may be of interest.

Product Model

The model of device, e.g. Serstech 100 Indicator.

Serial number

This shows the variant within a specific product type.

Embedded Software Version

This shows the version of the Indicators' embedded software

Libraries

This shows the Libraries that have been sent from the ChemDash ONE to the connected devices-Indicators.

Latest Calibration

When the device was latest calibrated.

Latest Factory Reset

The User is allowed to reset the Indicator to factory default settings and erase all resident measurements.

Free Space

The last known status of the device.

Battery Level

The last known status of the device.

2.4 Manage ChemDash Users

ChemDash ONE has currently only one User level activated, that is the Admin mode which gives fully functionality of the ChemDash ONE.

2.5 Edit Settings

By selecting the "Edit" button in the top right section of the browser window the User can enter the "Edit mode". This will enable the User to modify all instrument parameter settings from the various tabs. The new settings can then be sent to the Indicator by clicking on first "Save" and then "Send to Indicator". The settings will be downloaded to the Indicator when it is connected, and the device will be automatically restarted to make the new settings take effect.

At the top, there is the "Tag" field where User can add its own note for easy identification of the Indicator throughout the ChemDash ONE list. It worth to mention that the Tag information is used in ChemDash ONE only and thus not downloaded to the Indicator, please see picture below.

Home / Devices / Details	3				
Device Details	3				
Connected Synchro	onized			Save Save	As Import Cancel Edit
Tag	Team 5	Team 5 Indicator		Ent	ter new value
Product Model Serial Number	Serstech 100 Indicator 00000000092 5.2.7./405	Libraries Latest Calibration Latest Factory Reset	NEH 4/29/2019, 09:44 Never	Free Space Battery Level	11183 [MB] 62%

Regarding the indicators' default values, Serstech AB does not recommend changing any parameters unless the User is very familiar with the Indicator. There is no danger of damaging the instrument by suboptimal settings, but measurement performance may be adversely affected. Please go through the Indicator manual for more in-depth information on the available parameters and how to use the instrument.

Herstech ChemDash	Home	Devices	Data 🗸 657	Case Reports	Admin v			Help▼
Home / Devices / Details								
Device Details	nized					Save	re As Import Cancel Edit	
Tag			Enter new value	2	Contact Info	E	nter new value	
Product Model Serial Number Software Version	Serste 00000 5.2.7	ech 100 India 00000092 / 405	cator Li La La	braries itest Calibration itest Factory Reset	NEH 4/29/2019, 09:44 Never	Free Space Battery Level	11184 [MB] 94%	

2.6 Adding instrument Users

One of the tabs on the Device Details page deserves special attention. The "Users" tab will show the local Indicator Users who can login to the instrument and perform measurements. Important to mention that the Indicator Users shown and managed here are local and unique to a specific Indicator. The Username configured here will be attached to all measurements and actions done when the User is logged into the instrument. This will make it possible to track instrument data and actions from ChemDash when new data arrives. Please note the password must be a PIN code sequence of exactly four digits in the range [0...9]. To add and give privileges or delete a user, please see picture below.

Scan		Network	System	1	Users	Librarie
Given Name	Family Name		User Info			
Q	Q		Given Name		Password	
Admin	Default	Delete	orten nume	Admin	T doomond	****
User	Default	<u>Delete</u>	Family Name	Default		
		Add user	User Privileges			
			Modify Scan Settings	\checkmark	Mount USB-drive (read-only)	\checkmark
			Add Substance Remove	>	USB-drive Write Access	\checkmark
			Measurements		Pair with	\checkmark
			Change Date/Time	\checkmark	ChemDash	

There are several privileges which can be set for each instrument User. Privileges control what the instrument User is allowed to do locally in the Indicator only.

Available privileges are summarized below:

Factory reset

The User is allowed to reset the Indicator to factory default settings and erase all resident measurements.

Modify scan settings

The User is allowed to change scan settings such as scan times etc..

Add substance

The User is allowed to use the Add New Substance method.

Change time/date

The User is allowed to modify the instrument time settings.

Change Language

The User is allowed to set the Indicator GUI language.

USB configuration (read)

The User is allowed to activate the USB mass storage function for read-only access.

USB configuration (write)

The User is allowed to activate the USB mass storage function for read/write access.

Connect to ChemDash

The User is allowed to pair an Indicator to either ChemDash Anywhere or ChemDash ONE.

Remove Measurement

The User is allowed to remove measurement from the Indicator.

Important to clarify that all measurements previously uploaded to ChemDash will be retained there even after an instrument reset.

2.7 Device Upgrade

ChemDash ONE User Manual

ChemDash ONE offers to its Users the opportunity to upgrade their devices (Serstech 100 Indicator) to the latest software developed by Serstech AB. A User can upgrade its device by clicking on the "Device" button and then "Upgrade". The list of devices will be shown, and the User must choose in which device should the upgrade send. Upgrade will be sent to the device as soon as the device is connected to the ChemDash, please see pictures below.

Home / Devices / Details					
Device Details					
Connected Synchroniz	ed				Edit Device -
Tag			Contact Info		View Logs View Commands
					Restart
Product Model Serial Number Software Version	Serstech 100 Indicator 00000000092 5.2.7 / 405	Libraries Latest Calibration Latest Factory Reset	NEH 4/29/2019, 09:44 Never	Free Space Battery Level	Upgrade 1'ויטט נעסט ו 99%
Settings					
Scan	Net	vork	System	Users	Last Updated: 5/9/2019, 10:1 Libraries
Scan Delay (s) Screen Method Type Add Substance Repeats	0 Narcotics Explosive 3	s		~	
	Select the y	grade	the device 000000000092	,	Edit Device *
Tag	Version	Date	Release Notes		
Product Model Serial Number Software Version	Serst 0000 5.2.7	2015 05 0510			
Auto Expositio					

3.0 Manage Data

3.1 Manage measurements

Measurements uploaded to ChemDash ONE from all Indicators in the Users' organization are available from the "Data->Measurements" menu in the top row.

Home Devices	Data - Case Reports Admin-	Help -
Home / Data: Measurements	Measurements	
	Libraries	
Data: Measurements		Selection 🔻

This option will open a (searchable) list of measurements.

) (Serstech ChemDash							- o
Home / D	ata: Measurem	nents									
Data:	Measu	rements									Selection *
Data.	vicasui	remento									Jelection -
									Ē	Q, Search	ı
		Tag	Substance	Туре	Sequence No	Time	Ť	Quality	Device		
		Q	Q	(All) •	٩,	۹	Ċ	Q	۹		
	View		POLYSTYRENE	Calibrate	28	8/23/2018, 10:	02		0000000007F		
	View		Cyclohexane	Identify	29	8/23/2018, 10:	28		0000000007F		
	View		Cyclohexane	Identify	30	8/23/2018, 10:	31		0000000007F		
	View		Cyclohexane	Identify	31	8/23/2018, 10:	36		0000000007F		
	View		Cyclohexane	Identify	32	8/23/2018, 10;	\$ 1		0000000007F		
	View		Cyclohexane	Identify	33	8/23/2018, 10;	46		0000000007F		
	View			Identify	34	8/23/2018, 10:	51		0000000007F		
	View		Cyclohexane	Identify	35	8/23/2018, 10:	56		0000000007F		
	View		Cyclohexane	Identify	36	8/23/2018, 11:	01		0000000007F		
	View		Cyclohexane	Identify	37	8/23/2018, 11:	06		0000000007F		
	View		Cyclohexane	Identify	38	8/23/2018, 11:	11		0000000007F		
	View		Cyclohexane	Identify	39	8/23/2018, 11:	18		0000000007F		
	View		Cyclohexane	Identify	40	8/23/2018, 11:	21		0000000007F		
	View		Cyclohexane	Identify	41	8/23/2018, 11:	26		0000000007F		
	View		Cyclohexane	Identify	42	8/23/2018, 11:	31		0000000007F		
	View		Cyclohexane	Identify	43	8/23/2018, 11:	36		0000000007F		
	View		Cyclohexane	Identify	44	8/23/2018, 11:	\$1		0000000007F		

The User can sort the table according to e.g. measurement method used in the Indicator to acquire the data, Indicator measurement sequence number, Substance name, device ID, spectrum quality, or data time stamp. Clicking the "View" button will open a summary of your measurement as shown in the picture below.

Home / Data: Measurements / Details			
Identify Measurement 16:09) ™	1243 (3/26/2019,		View Report Export Edit
Result		Spectrum	
Single Matches (2) A-1240 (80%) A-869 (13%) Substance basic information Substance Name Substance synonym names CAS numbers Substance class	A-1240 201-000-a7780270-4fd3-11e9-9793- e46f13f3d6fb Uncategorized	50000 50000 50000 20000 20000 10000	■ Measurement ■ A-1240
References		600 900 1200 1	1500 1800 2100

Any substance information linked to the measurement result(s) will be attached to the data and thus displayed as part of the ChemDash report. Clicking on the "Edit" button in the top right section allows the User to edit basic data related to the measurement and save for later. User can also add a Tag identifier of your choice to the measurement to make it easier to find later, e.g. when building your own spectrum reference library. Click on the "Save" or "Cancel Edit" buttons to exit edit mode. By clicking the "Export" button in the top right section, the User can export the measurement data. Currently we support export to the JCAMP and CSV format, please see picture bellow.

Home / Data: Measurements / Details	3		
Identify Measurem 15:01) ™	ent 1544 (3/14/2019,		View Report Export Edit processed as Jcamp processed as CSV
Result		Spectrum	
Single Matches (1) ACETONE (97%)		Spectru	m
Substance basic information		45000	Measurement ACETONE
Substance Name Substance synonym names CAS numbers Substance class	ACETONE 67-64-1 Hazardous, Narcotic precursor, Explosive precursor, Toxic clear, Regulated clear	30000 30000 25000 0 20000 15000 15000	
Supplemental notes References			
Globally Harmonized System of	f Classification and Labelling of	600 900 1200	1500 1800 2100

3.1.1 Create measurement report

So as to create a measurement report the User must click in the "View Report" button in the top right section which gives the possibility to print the summary of the measurement report. User can print to a PDF and/or on paper. It is possible to add companys' own logo to report, this is done via the admin menu, and choose System Settings. In systems settings, the User can upload a logo in PNG-format that will show on top of the report, please see pictures below.



Please see below for an example of a case report with the Serstech Logo.



Moreover, ChemDash ONE offers to the Users the ability to sort the information by choosing which columns want to be shown while others can be hidden. User can hide and restore columns by clicking in the column button and drag into all chosen columns, please see image below.

	Serster Cher	сн nDa	ISh Home	Devices D	ata 👻	Case Reports	Admin -					Help •
	Home / Da	ata: Meas	surements									
l	Data: I	Meas	surements	S								Selection 💌
									Column Chooser	×	Ē	Q Search
			Туре			Se	equence No	Time	Quality		ag	
			(All)	•	Q			Q	Quanty			
		View	Identify				167	1/4/2019, 13				
		View	Identify				1243	3/26/2019, 1				
		View	Identify				296	7/9/2018, 11				
		View	Identify				284	7/9/2018, 09				
		View	Identify				290	7/9/2018, 10				
		View	Identify				483	7/17/2018, 1				

3.2 Manage libraries

A core functionality in ChemDash ONE is the ability to build spectral reference libraries and download them to the Serstech instruments for use in the field. This will enable the User to customize the solution to its specific needs. In case of further help, Serstech also offers a service to assist this process. Please contact Serstech for more information. Every library has a name, state and language. The status is the most critical step. Library status can be as following

Published

This indicates that the library is available for the ChemDash ONE Users and can be downloaded to the Indicator.

Checked out by [User]

This indicates that the library has been checked out for editing by a User. In this state the library cannot be downloaded to Indicators and it is accessible only to the specified User.

Draft

This state shows the library has been edited by someone and then checked in. Other ChemDash ONE Users can now view and further edit the library but it cannot be downloaded to any device until set to the Published state.

Users can edit an existing library by clicking the "View" button on the Data: Libraries page and then the "Check out" button in the top right section of the library window. As may be expected, the library will then enter the Checked-out state.

3.2.1 Create a new library

In order to create a new library the User should select the "New Library" icon in the top right section of the Data: Libraries page. This will open a dialog where information like name, language and description can be added, please see image below.

						English -
Data: Li	braries					
		New Library		×		
		Name:	First Responder			
		Description:	First Responder Library			
		Default Language:	English	•		
				Create library Cancel		

Once the User edits all information should click on the "Create library" button. This will take to an overview of the new library in edit mode, please see image bellow.

<pre> serstech Chem </pre>	ash Home Devices	Data	 Case Reports 	Admin	Ŧ					Help 🕶
Home / Data:	Libraries / Library							Vi	ew Librai	ry in English 🔹
First Responder L First Responder L Version:1 (Check Number of Subs	ibrary ed out by you) tances:0					Upload substance info	Publish Library Add Substance	Check in Ch	anges on 💌	Discard Changes
You can drop	columns here								Q	Search
	Substance Name	↑ Sub	tance CAS		Class		Substance Info	Tag		
	Q	Q		(Q,		Q	Q		
					No da	ta				

After creating the new library, the User can add spectrum reference data from several different sources. By clicking on the "Add Substance" button in the library windowuse can view two sources of data to choose either for Measurements or Library:

Measurements

This allows the User to use its own measurements made with the Serstech 100 Indicator as reference. The User can use measurements made with any of the methods in the instrument. But in order to ensure maximum data quality we recommend collecting reference data with the Add New Substance method.

Library

This allows User to copy reference records from another earlier created library ,please see image bellow.

SERSTECH Chem	Dash Home D	Devices I	Data - Case Reports	Admin -					Help -
Home / Data	: Libraries / Library						Vie	w Library ir	n English 💌
First Responder First Responder Version:1 (Chec Number of Subs	Sponder Library ked out by you) stances:0				Upload substance info	Publish Library	Check in Cha	nges	Discard Changes
You can drop	columns here					From Measurements From Library		Q Se	earch
	Substance Name	Ť	Substance CAS	Class		Substance Info	Tag		
	Q		Q	Q		Q	Q		
				No (data				

3.2.2 Add data from measurements

The User can choose the "From Measurements" option to add references taken from measurements made with Indicators within the organization. This will redirect the User to the data window where you can see all measurements, please see picture bellow.

Serste Cher	сн nDa	sh	Home	Devices	Data 👻	Case Reports	Admin -						Help -
Home / D	ata: Meas	urements											
Data:	Data: Measurements Select the substances or substances to add. Only substances uploaded to ChemDash are available. OK Cancel												
available.													
											É	Q Search	
		Tag			Туре		5	Sequence No	Time		↓ Quality	Device	
		Q			(All)	•	Q		Q		Q	Q	
\checkmark	View				Identify			167	1/4/2019, 13:01			00000000071	
~	View				Identify			1243	3/26/2019, 15:0)9		0000000007E	
~	View				Identify			296	7/9/2018, 11:58	3		00000000092	
~	View				Identify			284	7/9/2018, 09:25	5		00000000092	
	View				Identify			290	7/9/2018, 10:10)		00000000092	
	View				Identify			483	7/17/2018, 13:0	06		00000000092	

The User can choose all wanted measurements in the new library and then click "Done". This will allow User to will be returned to the new library and view the chosen spectra, please see picture bellow.

SERSTE	кн mDa	sh	Home	Devices	Data 👻	Case Reports	Adr	nin -				Help*
Home / D	Data: Librai	ries / Libr	rary								View Librar	y in English 👻
First F	Respo	onde	r					Upload substance info	Publish Library	Check	t in Changes	Discard Changes
First Respon	der Library	/										
Version:1 (C Number of S	hecked ou Substance	it by you) s:5							Add Substan	ce •	election 👻	Library Properties
You can d	trop colum	ins here									Q	Search
		Tag			Substan	ce Name	Ť	Substance CAS	Class		Substance In	nfo
		Q			Q			Q	Q		Q	
	View				2-METH	YLCYCLOHEXANOI	NE	583-60-8	Hazardous, Narcot	c clear, Exp	Custom, GH	S
	View				A-1240			201-000-a7780270-4fd3-11e9	Uncategorized			
	View				ACETON	IE		67-64-1	Hazardous, Narcot	c precursor	Custom, GH	s
	View				Polyethy	lene		9002-88-4	Narcotic clear, Expl	osive clear,	Custom, GH	S
	View				Sacchari	in		81-07-2	Narcotic clear, Expl	osive clear,	Custom, GH	s

3.2.3 Edit new library

The User can click on the "View" button for a library entry to inspect the spectrum itself as well as the associated substance information. In order to enter the edit mode, the User can click on the "Edit" button. This will enable the User to update all information in the library record (except the spectrum data itself), please see picture bellow.

Home / Data: Libraries / Library / Substance	e						View Library in	English	•
Substance: ACETONE							Save	Cancel E	ldit
Substance basic information				Spectrum	1				
Substance Name Substance synonym names CAS numbers	ACETONE + 67-64-1 +		×	45000 40000 35000 30000					
Substance class	Toxic ▼ Regulated ▼ Narcotic ▼ Explosive ▼ Hazardous ▼ ↓ Ø	clear • clear • precursor • precursor • hazardous •	× × × ×	2000 2000 1500 500					
Supplemental notes					600	900 1200 cm-1	1500 1800	2100	

The data directly below the substance name heading, represent information shown to the instrument User when a match to this substance is found in the field. ChemDash ONE 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 ONE fully supports GHS, including relevant warning pictograms which are shown to the field officer when using the Serstech 100 Indicator product. The ChemDash ONE input form makes it easy to add GHS- formatted information to Users' library records.

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 makes for a very flexible solution which can adapt 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 in the instrument in the event of a match to this library entry but only visible to ChemDash ONE Users.

3.2.4 Send the new library to a Serstech 100 Indicator

In case the User wants to download in the indicator the created library has to first go back to the Data: Libraries section. This is done by first selecting the relevant libraries and then click on the "Selection" button in the top right section of the page. From there it is possible to choose the "Send to Indicator" option. This will open a dialog where User can choose the Indicator(s) which should receive the new reference library, please see picture bellow.

	ECH C			es. Data ≁ C						
Home /	Data: Libra	aries	Send Lib	oraries to Devic	e			×		English
Data:	Libra	aries	Select the d	evice or devices to se	end the library to.			Q, Search	Nev	Selection 👻
				Device	Device Tag	Conne †	Model	Software Version		
				Q		Q	aec	Q		
		First Respo		0000000007E		Disconnected	Serstech 100 Indicator	5.2.8		
				130803E90005		Disconnected	Serstech 100 Indicator	5.2.8		
				0000000016E		Disconnected	Serstech 100 Indicator	5.2.8		
				00000000071		Disconnected	Serstech 100 Indicator	5.2.8		
				130803E9000E		Disconnected	Serstech 100 Indicator	5.2.8		
								Send Cancel		

User can then click on "Send" to initiate the download. From the Data: Libraries section User can now review the number of Indicators which have a particular library loaded, please see picture bellow.

SERST	есн () mDa	sh Home	Devices	s Data 🕶	Case Reports	Admin -			Help -
Home /	Data: Libra	ries						Vie	w Library in English
Data:	Libra	ries					U	pload substance info	ew Library Selection 👻
								Ð	Q Search
		Name	Ŷ	State	L	anguage	Version	Number of Substances	Published On
		Q		(All)	•		Q	Q	Q
	View	First Responder		Published	E	inglish	1	5	1 device

4.0 Create System Reports

There are many support situations that requires the system logs both from Serstech and the Indicator in order give quick and efficient support. In ChemDash ONE, the standalone version, all the data and logs are stored locally. Therefore, a system report function has been implemented. The User can reach this function through: Help: System report, please see picture bellow.



Export data
Print reports

Selecting the System Report options. The User can choose what logs to collect:

- Indicator logs (requires connected device),
- Data from ChemDash ONE (device configuration, measurements, libraries).



Selecting OK, ChemDash ONE will create a .zip fil, with a timestamp in the filename. This .zip file contains the logs and data that the User wants to extract. The created .zip should then be sent to Serstech support email (support@serstech.com).

In case the User faces critical errors on the Indicator, should try to extract system reports before do anything else with the device. Just because the display does not work, it does not mean that ChemDash ONE cannot extract crucial log from the Indicator.

For information regarding how to use the Serstech 100 Indicator, please read the corresponding manual.

ChemDash ONE User Manual

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