



BMS platform enablement

Agenda

- Target audience
- Goal of this session
- BMS Hardware
- BMS Platform
- BMS integration in GemOne Cloud platform

Target audience

- Fleet manager •
- Fleet administrator •
- Service manager •
- Service administrator .
- Technical manager •

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Purpose of this presentation

Helping employees gain relevant BMS device and BMS platform knowledge to ensure a basic level of user confidence in the BMS platform.

- Telematics manager
- Telematics admin
- Maintenance manager •
- Technician

BMS Hardware



Two types	Coverage	Positioning	Sensors
- Low Voltage for 24V-60V batteries - <mark>High Voltage</mark> for 60V-96V batteries	Global coverage using 4G LTE Cat 4 with 2G/3G fallback using 3 hardware versions: EUX, AUX and AFX	- GPS - GLONASS - BeiDou	- Temperature: -20°C to 110°C - <mark>Electrolyte level</mark> - Digital inputs: 2 - Current - using Hall sensor - Half & Full Voltage

Link to full installation manual: <u>https://www.gemone.com/install/BMS-EU</u>

Battery Monitoring Solution (BMS) Platform

- Installation prerequisites
- Login page
- Home page
- User management
- Branch management
- How to claim the BMS device

- Remote calibration of BMS device
- Location & geofencing
- Warnings
- Reports
- E-mail notifications
- Battery replacement process

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Installation prerequisites

Before installation, please make sure to:

- Check if the rated battery voltage is **suitable for the BMS version** (low or high voltage).
- Check if the **max. charge or discharge current fits in the range of the hall sensor** (max. 300 or 800A)
- Have the following parameters at your disposal as these need to be entered in the platform during/ after installation for accurate measurements:

• BMS device

- Serial number (SN)
- Pass Code (PC)



Installation prerequisites

Before installation, please make sure to:

- Have the following parameters at your disposal as these need to be entered in the platform during/after installation for accurate measurements:

• Battery

- Model
- Serial number (SN)
- Nominal voltage (eg. 24V, 48V, ...)
- Capacity in Ah
- C rating (C5, C6 or C20)
- Battery number of cells



Login page



Home page



.

User management

Functionality	<mark>Guest role</mark>	General role	Branch role
View home page	X	X	X
View devices	X	X	Х
Add devices		Х	Х
Edit devices		X	X
Delete devices		X	X
View battery configuration		X	Х
Edit battery configuration		X	Х
View reports	X	X	X
View location	X	X	X
Edit geofencing		X	X
View warnings	X	X	Х
View users		 	X
Create users			X
Edit users (+ roles)			Х
Delete users			Х
View branch companies		+	X
Create branch companies			X
Edit branch companies			X
Delete branch companies			X

User management

25 🖪 🖪 °C GemOne 🗸 v1.6.3 A HOME DEVICES Branch structure Company's account A LOCATION Company name: WARNING Owned Company Name Account Email General user Operation REPORT 之前品 No Only visible with **Branch role!** 2 面 品 No Help manual 之前品 No 1.000 之前品 transport. All No 2 前 品 No 1 > Total 5 Add account Company name * Account Password Name Email Mobile Role Role

User account settings

А НОМЕ	HOME / DEVICES						23 🖾 🖪 °C GemOne 🚬 v1.6	
🚺 KISAE 🗸	Map Satellite						Feedback Account Settings	
11 DEVICES	Account Settings				1 . / 22		Log Out	
LOCATION								
•	Login account	jemey.beilaerteigemone.com				Ollesberget L.		
WARNING	Name	jenneysbendertorgentionesborn				C Has been set modify		
III REPORT	login password	A right-security password can make the account more secure, it is recommended to	nar you change your password regul	any.		C has been set modiny	023 Google Term	
E FEEDBACK	mobile phone number	You have not set a mobile phone number, it is recommended that you set a mobile	phone number			() Not set Set up		Feedback
SETTING	E-Mail	You have set up an email jeffrey.bellaert@gemone.com [All kinds of system and ser	vice notifications sent by the GPD will	II be sent to your email addr	ess.]	Has been set modify		Account Settings
e Help manual	last login time	Sept 22, 2023 11:20						, social county
					<u> </u>			Log Out
	11026A Sept 14, 2023	7 Days ago mateco-Hungary Kft.	V109	SOC Voltag 97% 51.37	e Level Temperature V Normal 27 °C	A Moment Ago		
	O 17853A Sept 11, 2023	11 Days ago matece-Hungary Kit.	V109	SOC Voltag 77% 49.73	e Level Temperature V Normal 26 °C	A Moment Ago	2	
	OP1 Sept 08, 2023	13 Days ago Superior Beverage Group	V109	SOC Voltag 78% 24.19	e Level Temperature V Normal 37 *C	A Moment Ago	2 9 * • 6	
	O 26383 Sept 05, 2023	16 Days ago FilmTec (Dupont)	V868	SOC Voltag	te Level Temperature Normal 39 °C	7 Min. ago	2. 4. * • 6	
	O 17919A Sept 05, 2023	17 Days ago mateco-Hungary Kit.	V109	SOC Voltag	te Level Temperature V Normal 26 °C	6 Min. ago	2 * • 6	
	26381 Sept 02, 2023	20 Days ago FilmTec (Dupont)	V888	SOC Voltag	Level Temperature V Normal 30 °C	A Moment Ago	2	

Branch management

25 🔤 🖪 °C GemOne , v1.6.3 A HOME DEVICES Branch structure Company's account A LOCATION Company name: () WARNING Name Account **Owned Company** Email General user Operation REPORT 2 前 品 Salary Sugar, M. No SETTING **Only visible with** _ **Branch role!** 2 1 8 States - Longer, MI No Help manual 2 1 1 No Matters Paragent, MI 1.00 之前品 And Address of Concession, Name No 2 前 合 No > Total 5 1 Add Branch Company Parent company ••• 0 鱼 * Company name Company info Company address Add Branch Company Company website Edit Company Delete Company

How to claim the BMS device

OME	≡ но	ME / DEVICES							20 🔤 🛷	℃ GemOne 、 v1.6.3	
VICES									×		
CATIC	* SN	Find the SN on the device s	slicker		* MCUID					A	
ARNIP	* Device Name	Please enter a name			* Passcode	Enter passcode(PC)					
ORT	* Model	Select battery			Туре	O C5 O C20) C6			+	
nnc	* Capacity	Please enter the battery ca	pacity(Ah)		* System Voltage	Please select the op	erating voltage				
o ma	* Owned Company	company name		~	Machine Brand	Machine Brand				Terms of Use Report a map error	
	Machine Type	Machine Type		\sim	Machine Model	Machine Model					Only visible
	* Number of cell	1		0	Site name	Site name					or Branch rol
	battery SN	battery SN			Full charge time	30		Min.		Operation 🗄	
	Positioning	disable enable			Remaining availabl	disable 🔵 ena	ble			ਸ਼ •	
	Show ignition	disable anable			Half voltage	dicable and	bla			_	
	onow ignition	disable enable			nun volaige	disable ena	he				
								Cancel	Submit	ਸ਼ •	
	€	Battery 1	Nov 19, 2022	20 Days ago	Company 1	V888	SOC Voltag 89% 49.66	ge Level Temperat SV Normal 8 °C	15 Min. ago	• •	
	€	Battery 2	Nov 18, 2022	21 Days ago	Company 1	V257	SOC Voltar	ge Level Temperat	A Moment Ago	ا	

How to claim the BMS device in the portal

Mandatory input (first time)

Mandatory input (can be changed later)

• SN

- Device Name
- Model
- Capacity
- Owned Company
- (MCUID autofill)
- Passcode
- System Voltage

• Device Name

- Owned Company
- Number of cell

Company specific:

Device Name = Machine Name in GemOne Cloud platform

Essential for integration in Gemone platform later on

Optional (can be added later)

- Machine type
- Battery SN
- Positioning
- Show ignition
- Machine Type
- Machine Brand
- Machine Model
- Site name
- Full charge time
- Remaining available time
- Half voltage

How to claim the BMS device

						×	
* SN	Find the SN on the device sticker		* MCUID	[AUTOFILLED AFTER SN INPUT]			
* Device Name	Please enter a name		* Passcode	Enter passcode(PC)			
* Model	Select battery ~		Туре	C5 C20 C6			
* Capacity	Please enter the battery capacity(Ah)		* System Voltage	Please select the operating voltage			
Owned Company	company name 🔗 🗸		Machine Brand	Machine Brand			
Machine Type	Machine Type		Machine Model	Machine Model			
* Number of cell	1	0	Site name	Site name			
battery SN	battery SN		Full charge time	30	Min.		
Positioning of	disable enable		Remaining availabl	disable enable		Ľ	nput is mandatory
			e time			Γ	Input is mandatory, but can be
Show ignition	disable enable		Half voltage	disable enable			changed later
					Cancel Submit		Input is optional
						15	Input is autofilled
						١.	

Remote calibration of the BMS device

Why is a (remote) calibration needed?

Without a calibration, it is more likely to experience:

- Inaccurate and erratic battery percentage readings (SOH, SOC, etc)
- Possible quicker battery drain
- Possible shorter total lifespan of the battery

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Remote calibration of the BMS device



Location & geofencing

А НОМЕ	HOME / LOCATION	🔀 🛯 🖪 °C GemOne 🗸 v1.6.3
DEVICES		
A LOCATION	Setup Time 🗧 - Device Name Search device name/Setal number 立 Owned Company	
LEASE	Sept 14, 2023 22:51:31 t. geotencing disable 🕕 enable	
WARNING	Sept 11, 2023 20:56:46 geofencing disable 🕕 enable	
III REPORT	Sept 09, 2023 06:27:27	
E FFEDDANY		
А НОМЕ	E HON IG	💱 🕅 🚿 °C GemOne 🖕 v1.6.3
DEVICES		
M LOCATION	Battery name 1 OTHER / OTHER / Common / 700 Ah / 48 V Firmware Version: V259	
LEASE	ber Mang	
WARNING	geofencing disable C enable at as Paich Skipag	
	Set fance EGN	
III REPORT	I returnes a control of existing boundary to more control of the c	
FEEDBACK	around Klung Kung Kung Kung	
SETTING	valid time 🕐 service 64 - see 664 -	
Help manual	Remark Plasse enter Part Raje Company Rengam Rengam Rengam Rengam Karono Rengam Kar	
	Warn Info	
	warningtyour device is out of boundary	
	Pesolved May 25, 2022 11-32 List may List may List may have been been been been been been been be	
	Resolved Apr 05,0222 Apr 0,522	
	▲ wamingtyour device is out of boundary	
	Resolved Mar 14, 2022 03:24 Johor Bahru so	
	A warringsyster severe is out of boundary Besolved Mar 11, 2022 0507	
	A warning/your device is out of boundary	
	Received Mar 02.2021001 Sindpore Court	
	Baak Baak Baak Baak Baak Baak Baak Baak	
	Autori Padro Maria Aparti Linko Autoria Aparti Autoria	Sli

Slides created by GemOne

Warnings

角 НОМЕ	HOME / WARNING							X 🗛 🔺	°C GemOne v1.6
	2023-09-16 to	2023-09-22 Owned Compan	y V Site name						
				Remain 💼 Added today 🔳	Solved today				
C LEASE	100			_		-			
WARNING	80								
III REPORT	60								
📋 FEEDBACK	20								
SETTING	0	Sept 16	Sept 17	Sept 18		Sept 19		Sept 20	
e Help manual	Туре		Search device name/serial numb	or Q					*
	Happened 🗘	Device Name	Content	Status	Sovled at 🗘	Owned Company	Alarm duration	Working status	Operation
	Sept 22 14:29	-	SOC is as low as 30%, please charge.	Unsolved		matters Hungary 83.	25 Min.	Discharging	e.
	Sept 22 13:58	-	SOC is as low as 28%, please charge.	Resolved	Sept 22 14:13	materics Hungary ML	14 Min.	Idle	e.
	Sept 22 13:40	Caller Team on	Temperature has reached 55°C, please cool down before use. (Level 2 war ning)	Unsolved		Industrial Access Controls	1 Hr. 15 Min.	Discharging	٤.
	Sept 22 12:20	000 her m	Temperature has reached 50°C, please cool down before use. (Level 1 war ning)	Resolved	Sept 22 13:40	Industrial Access Cardinia	1 Hr. 20 Min.	Discharging	e.
	Sept 22 11:55	Caller Team Cal	Temperature has reached 50°C, please cool down before use. (Level 1 war ning)	Resolved	Sept 22 12:06	Industrial Access Controls	11 Min.	Discharging	e.
	Sept 22 11:13	5250 Text-10	Temperature has reached 50°C, please cool down before use. (Level 1 war ning)	Resolved	Sept 22 11:23	Industrial Access Controls	9 Min.	Discharging	e.
	Sept 22 06:16	CEDE Taxa de	Temperature has reached 54°C, please cool down before use. (Level 1 war ning)	Resolved	Sept 22 10:55	Industrial Access Controls	4 Hr. 39 Min.	Idle	e.
	Sept 22 05:20	Galler Trans and	Temperature has reached 55°C, please cool down before use. (Level 2 war ning)	Resolved	Sept 22 06:16	Industrial Access Controls	55 Min.	Charging	e.
	Sept 22 04:17	ODM Two of	Temperature has reached 55°C, please cool down before use. (Level 1 war ning)	Resolved	Sept 22 05:20	Industrial Access Controls	1 Hr. 2 Min.	Idle	2
	Sept 22 04:17 Total 125 10/page V	< 1 2 3 4 5 6 …	ring) 13 > Go to 1	Hesolved	Sept 22 05:20	vibilities for our controls	1 Hr. 2 Min.	Idle	Z

Warnings

	ARNING							X 🖾 🔺	°C GemOne , v1.6
2023-09	-16 to 2023-09-22		Site name						
				Remain 💼 Added today	Solved today				
100									
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40				_				_	
20						_			
o 🖵	Sopt 16		Sept 17	Sept 18		Sopt 19		Sept 20	
Туре			Search device name/serial numb	er Q					*
Нарре	ened 🗘 Device N	lame	Content	Status	Sovied at $\hat{\downarrow}$	Owned Company	Alarm duration	Working status	Operation
Sept 2	22 14:29	×:	SOC is as low as 30%, please charge.	Unsolved	1000	matters mungary 401.	25 Min.	Discharging	2
Sept 2	22 13:58		SOC is as low as 28%, please charge.	Resolved	Sept 22 14:13	matters murgary 40.	14 Min.	Idle	<i>4</i> ,
Sept 2	22 13:40	Temperature h	as reached 55°C, please cool down before use. (Level 2 war ning)	Unsolved		Industrial Access Carifolia	1 Hr. 15 Min.	Discharging	e.
Sept 2	22 12:20	Temperature h	as reached 50°C, please cool down before use. (Level 1 war ning)	Resolved	Sept 22 13:40	Industrial Access Cardinals	1 Hr. 20 Min.	Discharging	2
Sept 2	22 11:55	Temperature h	as reached 50°C, please cool down before use. (Level 1 war ning)	Resolved	Sept 22 12:06	Industrial Access Controls	11 Min.	Discharging	e.
Sept 2	22 11:13	Temperature h	as reached 50°C, please cool down before use. (Level 1 war ning)	Resolved	Sept 22 11:23	Industrial Access Controls	9 Min.	Discharging	e.
Sept 2	22 06:16	Temperature h	as reached 54°C, please cool down before use. (Level 1 war ning)	Resolved	Sept 22 10:55	Industrial Access Controls	4 Hr. 39 Min.	Idle	2
Sept 2	22 05:20	Temperature h	as reached 55°C, please cool down before use. (Level 2 war ning)	Resolved	Sept 22 06:16	Industrial Access Controls	55 Min.	Charging	R,
Sept 2	22 04:17	Temperature h	as reached 55°C, please cool down before use. (Level 1 war	Resolved	Sept 22 05:20	Industrial Access Controls	1 Hr. 2 Min.	Idle	4

Warnings

А НОМЕ	HOME / WARN	NG			X 🛛 🗸	°C GemOne , v1.6.3
DEVICES	2023-09-16	to 2023-09-22: Owned Company Site name Q				
A LOCATION		🔲 Remain 💷 Addeet today 💷 Solved today				
C LEASE	100				_	
WARNING	80					
III REPORT	40					
E FEEDBACK	20					
SETTING			×		Sept 20	
Help manual	Sovled at					*
				Alarm duration	Working status	Operation
	Owned Company			25 Min	Discharolog	
	Device Name			14 Min.	Idle	é.
	Content	SOC is as low as 30%, please charge.		1 Hr. 15 Min.	Discharging	2
				1 Hr. 20 Min.	Discharging	2
	Status	Unsoved		11 Min.	Discharging	2
	Remark	Unsolved			125100000	_
		Resolved		9 Min.	Discharging	2
		<i>h</i>		4 Hr. 39 Min.	Idle	e.
				55 Min.	Charging	2
			Cancel Submit	1 Hr. 2 Min.	Idle	R.
	Total 125 10/pa	ya ∨ < 1 2 3 4 5 6 ··· 13 > Genta 1				

Warnings - warning settings



Warnings - warning settings

А НОМЕ	HOME / WARNING / SETTING	🔀 🖪 🚿 "C GemOne 🗸 v1.6.3
	110264 (000000000)	
# LOCATION	11020A (01224333964)	
 LEASE WARNING II REPORT 	Warning settings Alarm on/off	orr 💽 on
📋 FEEDBACK	soc	Off C On Low value : 30 0 96 Recovery value: 80 0 96
 SETTING Help manual 	Temperature	Off On Low temperature: 50 °C Level 1 high temp.: 55 °C Level 3 high temp.: 60 °C Temp. abnormal : 101 °C °C <t< th=""></t<>
	Voltage	Voltage warning of Voltage warning on Low voltage protection off Low voltage protection off Low voltage protection off Level 1 low voltage 35.00 V Level 2 low voltage 41.25 V Level 3 low voltage 37.92 V Recovery: 48.00 V High voltage 71.04 V duration 15 Second V Level 3 low voltage 41.25 V Level 3 low voltage 37.92 V
	Half voltage	Off D On Half voltage threshold 100 0 mV duration 90 0 Second
	Level	Off Con duration: 30 © Min.
	Network abnormality	Off 💽 On Warning value is greater than: 168 0 Hr.
	Current	Charging overcurrent off Charging overcurrent off Charging overcurrent off Charging overcurrent: 225 A Discharge overcurrent: 450 A duration 15
	Temporary overcharging warning	Off C Number of times: 10
	Charge-discharge ratio warning	Off Con Charge-discharge ratio warning threshold(%): 200 0
	Vehicle periodic maintenance	Off Con every month 1 - Day
	Battery	De Materiaria entitat Prévide médicience reny mont à Day

Warnings - notification recipients

А НОМЕ	10 MM * 10000000000000000000000000000000000								
	11026A (01224333984)	GENIE / GS-4069A / Common / 225 Ah / 48 V Firmware Version:	: V109						
C LEASE	Temporary overcharging warning	Off On Number of times: 10 3							
FEEDBACK	Charge-discharge ratio warning	Off Con Charge-discharge ratio warning threshold(%): 200 ©							
 SETTING Help manual 	Vehicle periodic Off D On every month 1 Dey maintenance								
	Battery Of On Maintenance method Periodic maintenance every month 1 Day maintenance								
	Subscribe to news								
	Message recipient	Message recipient Kaster David O Brogs Cube O Toth Bombas O							
	Warning message duality all								
		Content	Status	Sovied at ‡	Remark	Operation			
	The	charge-discharge ratio is abnormal, please use the battery reasonably	Unsolved			e.			
	Total 1 10/page V								

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Navigation method 1

- Via devices tab in navigation bar
 - Reports per BMS device



Navigation method 2

- Via report tab in navigation bar
 - Overview of BMS devices
 - Report per BMS device



- Charge and discharge cycles (bar chart)
- Charge and discharge cycles (table)
- Warning messages

- Daily statistics (table)
 - Date
 - Daily work hour
 - Machine used duration
 - Discharged (Ah)
 - Discharged (kWh)
 - Charged duration
 - Charged (Ah)
 - Charged (kWh)
 - Minimum SOC
 - Minimum Voltage
 - Maximum temperature

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					n w r c s	Em-Waregenr 🖡
DEVICES	Owned Company ~	Search device name/serial number Q				
LOCATION	Battery Monitor Lithium Battery					
WARNING	Device Name	Time selection	Total charged	Total discharged	Added warning	Operation
REPORT	GEM-Test-02	Week50: Dec 04, 2022-Dec 11, 2022	-	-	-	
SETTING	GEM-Test-06	Week50: Dec 04, 2022-Dec 11, 2022	-	-	-	View detai
Help manual	GEM-Test-05	Week50: Dec 04, 2022-Dec 11, 2022	-	-		Ø
	GEM-Test-03	Week50: Dec 04, 2022-Dec 11, 2022	-			Ø
	GEM-Test-01	Week50: Dec 04, 2022-Dec 11, 2022	-	1775		•
	Total 5 10/page < < 1 >	Go to 1				



E-mail notifications

General

- Any user of a branch company, regardless of role, can add or remove existing platform users as recipients in the specific warning settings page of the device within the own branch company
- Any user of a parent company, regardless of role, can add or remove existing platform users as recipients in the specific warning settings page of the device for all its branch companies
- Recipients of alerts from branch company A can be added as recipients of alerts in branch company B

E-mail notifications

Warnings

- Warning settings can be adjusted by navigating to the device page and clicking on the warning settings button (see slide 23)
- For every individual alert, an email notification is sent to one or more recipients (1 alert from 1 device = 1 email notification)
- The email notification stops when the warning has been resolved

Reports

• Currently, the BMS platform does not have the functionality to send a global, single report for one or more devices



Battery replacement process

А НОМЕ		TAIL					20	A °C GemOne 🗸 v1.6.3	
LOCATION LEASE WARNING ILEASE WARNING ILEASE FEEDBACK	Common/Flooded 225	Ah SOH Excellent	All KWH Charged Dischurged	76.56	18.56	11026A SN:01224333984 GENE/Scissor/GS-4069A Svetem Voltane: 48 V Setup Time: Sept 14, 2023 Monitored duration: 7 Days Ignition ON-Time: 1 Hr. 38 Min, (98 Min.) Hour Meter ON-Time: 34 Min. (34 Min.)			
 SETTING Help manual 	🕒 A Moment Ago						ra 1.		
		* SN	01204600739		* Device Name	GEM-Test-02		Overdischarge	
		Model	Common/Flooded		System Voltage	24		Hardware malfunction	
	GPS Only	Capacity	200		Owned Company	GEM-Waregem			
	Map	Machine Brand	OTHER		Λ	3			
		Machine Model	OTHER		Setup Time	Feb 17, 2021	0		
	Wee Duna-Ipoly Nemzeti Park	* Number of cell	12		Site name	GEM-HQ			
) TA	battery SN	battery SN		Full charge time	15	Min.		
	X	Positioning	disable onable		Remaining available time	disable enable			0
	Cough	Show ignition	disable enable		Half voltage	disable enable			
							Cancel Submit		

Battery replacement process

角 НОМЕ	E HOME / DEVICES		👬 🖾 🚀 °C GemOne 🗸 v1.6
DEVICES LOCATION LEASE WARNING ML REPORT FEEDBACK	Map Satellite Device Provide the Provide t	Nettoberger Nettob	Percel Natural Margina Manage Bodge Margi Bodge Hegtaar Jahritus Maa dati \$2020 Googi Termi: Report a map error
SETTING			×
Help manual	Advance Calibrate		
	SN 01224333964	Device Name 11028A	Operation \oplus
	Model Common/Flooded in	Туре 3 С5 С20 С6	
	* Capacity 225	System Voltage 48	
	CAN 0 YHUB	Level sensor S Yes O No	L 18 \$ 6
	APN m2mintpr/k proximus.bs	RS485 communication 🕓 Off 🔹 On	
	Aux current acquisition Off On	Aux voltage acquisition Off On	2 0 0 0
	Remote control O No Yes	Hardware voltage level O High voltage version Non-high voltage version	
	Baud rate 0 125K 0 250K 0 500K	Node ID - 85 +	
	LED indicator O Yes O No	reset function start reset	
	Sensor type SHUNT O HALL O Forward Reverse 300A V		
	Track O Off On		2 3 4 6
	Sampling algorithm O Dynamic sampling 300 O mV Static sampling		
	GPS function O Fully turn on GPS Turn off GPS completely Start GPS every 2h		
	Network features Fully open the network Start the network once a day Start the network every 2h		
			Cancel Submit

Battery replacement process

А НОМЕ	■ HOME / DEVICES									💱 🕅 🚿 °C GemOne 🗸 v1.6.3
		an sha		Buk	ki Dark					
	Map Satellite	and	A CAR	O CONTRACTOR OF CONTRACTOR	And A					
	FUT.	1061	Danube	Buna-tpoly lemzeti Park	9			M	Arcul Natural Munții aramureșului Parcul	A A A A A A A A A A A A A A A A A A A
WARNING	Graphical Description	N VZ			Hortobágyi- Nemzeti Park				National Muntil Rodnei	
III REPORT	2 abnormal		No did							- Marker
FEEDBACK	Coogia					52m				Keyboard shortcuts Map data @2023 Google Terms Report a map error
									×	+
Help manual	Advance Calibrate									
			Aux voltage acqu Aux current acqu	SOC: 97 % Ertep istition: 25.66 V Ertep istition: 0.00 A Sit zero			Voltage : 51.5	7 V Set up Current	Calibration value recet : 0 A Set zero	Operation 🖄
	() 17653A	Sept 11, 2023	11 Days ago	mateco-Hungary Kft.	V109	SOC 77%	Voltage Level 49.73V Normal	Temperature 26 °C	A Mome (Ago	2 0 0 0
	OP1	Sept 08, 2023	13 Days ago	Superior Beverage Group	V109	SOC 78%	Voltage Level 24.19V Normal	Temperature 37 °C	A Moment Ago	2000
	⊕ 26383	Sept 05, 2023	16 Days ago	FilmTec (Dupont)	V888	SOC 77%	Voltage Level 36.92V Normal	Temperature 39 °C	7 Min. ago	
	⊕ 17919A	Sept 05, 2023	17 Days ago	matec	V109	SOC 95%	Voltage Level 51.06V Normal	Temperature 26 °C	6 Min. ago	£ U Ø Ø Ć
	⊕ 26381	Sept 02, 2023	20 Days ago	FilmTec (Dupont)	V888	SOC 59%	Voltage Level 36.8V Normal	Temperature 30 °C	A Moment Ago	2 8 0 6

Slidelesenteteloby Germ@nee

Integration of BMS devices in GemOne Cloud platform

• Why?

Integration of BMS telematics data allows users to view basic telematics data from BMS, eliminating the need to navigate to multiple platforms to view the data.







Q&A

Slides created by GemOne



What happens when we move device from one branch to another? Is there migration of data?

When moving a BMS device from one branch to another, the historical data will be moved along with it as well.

What roles do my colleagues and I have currently?

User Name	User Role
	General



What is the process for claiming a device on another asset?

Step 1:Unbind ('unclaim') the BMS device by navigating to Devices > Operation > Unbind deviceATTENTION: this will also remove all historical data!



Step 2: Claim the device again as demonstrated on page 13, 14 and 15



Are there limitations on how many users can be created per parent company / branch company?

There are no limitations on the number of users that can be created.

Do you have to calibrate immediately after the installation or can you calibrate at any given time?

Calibration can be done at any given time, but preferably, this happens soon after the BMS device is installed.