

# 11 SMS sender

## General

SMS sender is a service that lets user configure WCC Lite to send SMS on a set tag triggers.

 SMS sender functionality is available since firmware version v1.5.4, of WCC Lite.

## Configuring SMS sender

To configure WCC Lite to use SMS sender user must fill in the needed parameters in Excel configuration. These parameters are shown in the tables below.

*SMS sender parameters for Devices tab:*

Parameter	Type	Description	Required	Default value (when not specified)	Range	
					Min	Max
name	string	User-friendly device name	Yes			
description	string	Description of the device	No			
device_alias	string	Device alias to be used in configuration	Yes			
enable	boolean	Enabling/disabling of a device	No	1	0	1
protocol	string	Selection of protocol	Yes		<b>SMS sender</b>	
host	array	List of phone numbers to send SMS to, separated by space.	Yes			

name	description	device_alias	enable	protocol	host	id	scan_rate_ms	poll_delay_ms	timeout_ms	port	ip
Sample Device	Modbus tcp	Sample_device	1	Modbus TCP		1	2000	200	1000	502	192.168.1.2
SMS Sender	Service to send SMS	SMS_Sender	1	SMS sender	860123456 +37060123456						

*SMS sender parameters for Signals tab:*

Parameter	Type	Description	Required	Default value (when not specified)	Range	
					Min	Max
signal_name	string	User-friendly signal name	Yes			
device_alias	string	Device alias from a Devices tab	Yes			
signal_alias	string	Unique signal name to be used	Yes			
source_device_alias	string	device_alias of the source device	No			
source_signal_aliases	string	source_alias of the source signal	No			

enable	boolean	Enabling/disabling of a signal	No	1	0	1
log	integer	Enable logging in event log	No	0	0	
job_todo	string	Specific SMS sender tag type	Yes		send-sms, device-control, device-status	
tag_job_todo	string	SMS sender tag for <b>send-sms</b> : <i>text message</i>	Yes			
trigger	string	Trigger expression for the SMS to be sent	No (Only for send_sms)	value!=0		

To configure SMS sender, 3 types of signals are mandatory. These values should be written inside the `job_todo` field for each signal:

- **send-sms** - This signal takes value from the provided `source_signal_alias` field and checks if the value evaluates as true against the `trigger` field. If its true, the SMS sender will send the text from the `tag_job_todo` field to the specified phone numbers.
- **device-control** - This signal controls if the SMS sender is enabled or disabled. Its `tag_job_todo` parameter should be set to enable. It takes value from the `source_signal_alias` field and evaluates it against the `trigger` field. If the `trigger` is evaluated as true, the SMS sender will be enabled, otherwise it will disable the SMS sender.
- **device-status** - This signal indicates if the service is enabled or not. Its `tag_job_todo` parameter should be set to `enabled`.

Trigger expressions can be configured with basic comparison operators:

- Less than <
- Greater than >
- Less than or equal to <=
- Greater than or equal to >=
- Equal ==
- Not equal !=

Example configuration of SMS sender (Signals tab):

signal_name	device_alias	signal_alias	source_device_alias	source_signal_alias	enable	tag_type	job_todo	tag_job_todo	trigger	number_type
Sample measurement	Sample_device	Sample_data			1	Normal	3;0;1	3;0;1		UNSIGNED16
SMS sender enable/disable command	Sample_device	sms_switch			1	Normal	2;0;1	2;0;1		UNSIGNED16
SMS send	SMS_sender	sms_send	Sample_device	Sample_data	1	Normal	send-sms	SMS text	value>100	
SMS switch	SMS_sender	sms_control	Sample_device	sms_switch	1	Normal	device-control	enable	value!=0	
SMS status	SMS_sender	sms_status			1	Normal	device-status	enabled		

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**Note:** SMS Sender can only send messages that contain less than 160 characters.

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