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SMM ePlus
Last Gasp support

Version: 2.0

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Compiled by: Enel Global Infrastructure and Networks Srl - Infrastructure and Networks Digital Hub

CONTENTS

1. Scope

This document describes Last Gasp feature in SMMePlus.

2. Reference

Document Reference:
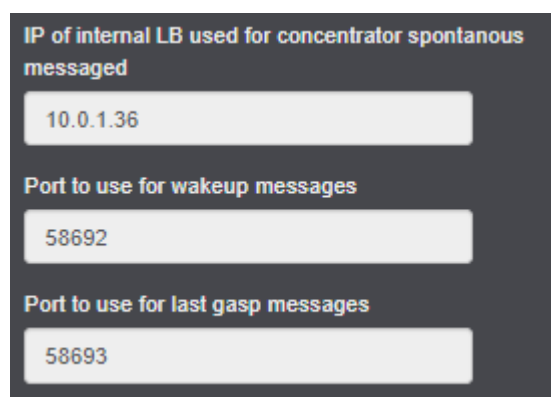
Ref 1. SMM ePlus - Requirements - Integration v.2.4

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3. System configuration

3.1. Last Gasp support

In SMMePlus settings, Last Gasp port has to be configured.
The parameters below must be already evaluated by system administrator, because they refer to SMMePlus Listener service configuration.

IP of internal LB used for concentrator spontanous messaged

10.0.1.36

Port to use for wakeup messages

58692

Port to use for last gasp messages

58693

3.2. Last Gasp configuration on concentrator

3.2.1. Spontaneous profile

It is needed to create a spontaneous profile having Last Gasp feature enabled.
It's possible to configure:
- Last Gasp spontaneous messages related to concentrators power on/off
- Last Gasp spontaneous messages related to meters reachability
-

The ip address and ports are taken from the settings of SMMePlus environments and cannot be changed.

3.2.2.   Concentrator configuration

During configuration process, it is needed to select the new spontaneous profile in order to write the configuration on the concentrator.
It's important to select a profile having Last Gasp enabled only if the firmware of concentrators support it.

☑ Select spontaneous profile

	Name ⌄	Wakeup enabled ⌄	Ipaddress ⌄	Wakeup period min ⌄	Last Gasp enabled⌄.	Last Gasp port⌄
✓	TestNoGaspEnabled	false	10.0.1.36	0	false	0
✓	testGaspEnabled	true	10.0.1.36	60	true	58693
✓	testGaspnoEnabled	false		0	false	0
✔	Last_Gasp_and_Wake_Up	true	10.0.1.36	60	true	58693

Total items: 7 (Selected items: 1)

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3.3. Last Gasp Events

3.3.1. Report

In "Spontaneous msgs" report, in "Field" category, it is possible to see and download the report about Last Gasp messages received from concentrators.
In "Spontaneous Meter msgs" report, in "Field" category, it is possible to see and download the report about Last Gasp messages received from concentrators.
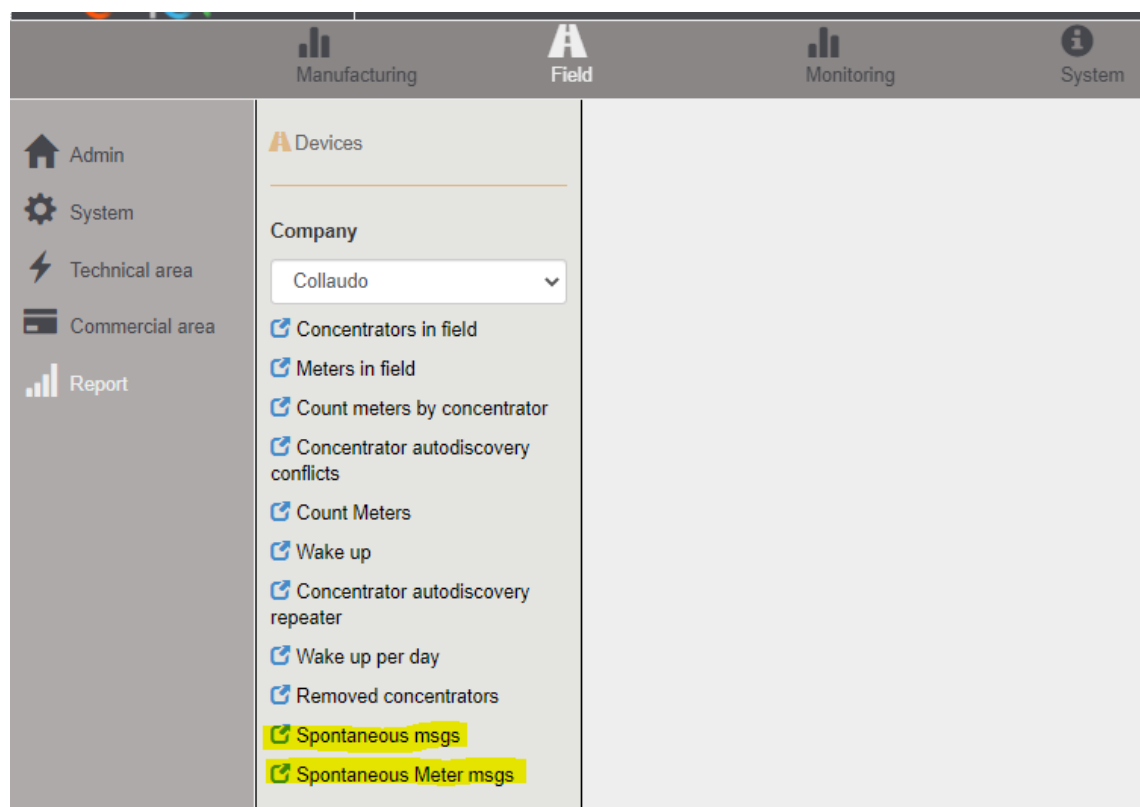
Concentrator spontaneous messages report

This report shows the information about last Last Gasp message received for each concentrator.

There are two records for each concentrator, one for LVC_POWER_OFF event and one for LVC_POWER_ON event.

Meter spontaneous messages report

Spontaneous meter messages

concentrator name	meter	ipaddress	spontmessagetype	port	last date local	last update utc	last update local	message
GIALLOT01	UAAEEDN11200129684	127.0.0.1	METER_REACHABILITY_KO	58692	2/23/2021 1:37:22 PM	2/23/2021 5:48:51 PM	2/23/2021 7:48:51 PM	01130018CFDI
GIALLOT01	UAAEEDN11200129684	127.0.0.1	METER_REACHABILITY_OK	58692	2/23/2021 1:37:22 PM	2/23/2021 5:51:11 PM	2/23/2021 7:51:11 PM	01130018CFDI

This report shows the information about last Last Gasp message received for each meter.

There are two records for each meter, one for METER_POWER_OFF and one for METER_POWER_ON event.

For each event, it is possible to see last time the message has been received.

3.3.2. CSV

Last Gasp events are appended to Low Priority Event csv file, named LPE_yyyy-mm-dd.csv.

A different file for each day is created.

The LPE files includes all events having a no-high priority, such as meter commissioning or meter reachability events.

Last Gasp event types are described in section **3.3.4 Cim Code**

```
LPE_2020-09-23.csv
1   concentrator;meter;pod;type;date;correlationid;severity;description;externalrequest;breakerstate
2   Concentrator0001541;;;10.26.17.16;2020-09-23 15:11:46.000;;0;LVC_POWER_ON;-;-
3   ROSSOT01;;;10.26.17.16;2020-09-23 15:12:46.000;;0;LVC_POWER_ON;-;-
4   ROSSOT01;;;10.26.17.16;2020-09-23 15:13:46.000;;0;LVC_POWER_ON;-;-
5   ROSSOT01;;;10.26.17.85;2020-09-23 15:17:31.000;;0;LVC_POWER_OFF;-;-
6   ROSSOT01;;;10.26.17.85;2020-09-23 15:20:31.000;;0;LVC_POWER_OFF;-;-
7
```

```
LPE_2021-03-29.csv
1   concentrator;meter;pod;type;date;correlationid;severity;description;externalrequest;breakerstate
2   GIALLOT01;UAAEEDN10100027382;POD007;3.26.17.85;2021-03-29 17:43:49.220;;0;METER_REACHABILITY_KO;-;-
3   GIALLOT01;UAAEEDN10100005616;POD024;3.26.17.85;2021-03-29 17:43:49.204;;0;METER_REACHABILITY_KO;-;-
4   GIALLOT01;UAAEEDN10100027220;POD004;3.26.17.16;2021-03-29 17:43:49.235;;0;METER_REACHABILITY_OK;-;-
```

3.3.3. SMMePlus integration (external system)

When Last Gasp spontaneous messages are received by SMMePlus, specific events are generated and pushed on Event Hub queue dedicated to Low Priority Events (for production environment of San Paolo: we-eplus-sapro-integration-event-lp-saopaolo-eh).
Last Gasp event types are described in section **3.3.4 Cim Code**

3.3.4.   CIM Code

These are the message codes for each event.

Event Type				
End Device Event Type	**End Device Domain**	**End Device Sub-domain**	**End Device Event or Action**	**Description**
10.26.17.85	Collector	Power	Failed	Concentrator Power OFF (Last Gasp spontaneous)
10.26.17.16	Collector	Power	Closed	Concentrator Power ON (Last Gasp spontaneous)
3.26.17.85	Power	Status	Failed	Meter Reachability KO (Last Gasp spontaneous)
3.26.17.16	Power	Status	Closed	Meter reachability OK (Last Gasp spontaneous)