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# SMM ePlus

## Prepayment support

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Version: 2.0

**Data:** 28/01/2020

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

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## 1. Scope

This document describes prepayment feature in SMMePlus.

## 2. Reference

Document Reference:

Ref 1. SMM ePlus - Requirements - Integration v.2.0

## 3. System configuration

### 3.1. Prepayment support

In SMMePlus settings, prepayment support has to be enabled.

The screenshot shows the 'SMM ePlus - SMART METERS MANAGER' interface. On the left, there's a sidebar with icons for Admin, System, Technical area, Commercial area, and Report. The main area has tabs for Settings, Provisioning, and Service fabric. Under Settings, there's a 'Parameters management' section with a 'Company' dropdown set to 'Collaudo'. Below it is a 'Click to set parameters' button. To the right, under 'Set parameters', there's a 'Autodiscovery configuration' section with several checkboxes. One of the checkboxes, 'PrepaymentSupport', is highlighted with a yellow background. Other checkboxes include 'Spontaneous messages management [not implemented yet]', 'Enable network change for meters commissioned but not reachable', 'Enable network change for meters commissioned and reachable', 'Enable network change for meter not commissioned', and 'Enable automatic re-commissioning for commissioned meters'. There's also a 'Features' section with 'Smartphone support' and 'PrepaymentSupport' checked.

### 3.2. Automatic local activities

In SMMePlus settings, it is possible to enable/disable specific flags related to failed workorders. If a workorder fails for reachability reasons, it can automatically be sent to smartphone for local execution.

The screenshot shows a 'Smartphone' configuration screen with four checkboxes:

- Automatically send to smartphone failed credit charge workorder
- Automatically send to smartphone failed prepay config workorder
- Automatically send to smartphone failed contract change work
- Automatically send to smartphone failed credit read workorder

### 3.3. Prepayment disable

In SMMePlus settings, it is possible to enable/disable a specific flag related to the prepayment disable process.

If the flag “Reset credit to 0 when disabling prepayment” is enabled, when the prepayment mode is disabled on a meter, the credit is reset to 0. This is the suggested behaviour.

#### Prepayment

- Reset credit to 0 when disabling prepayment

## 4. Activities

### 4.1. Prepayment configuration on meter

In technical area of SMMePlus website, it's possibile to generate a Prepay Configuration activity.

The screenshot shows the SMMePlus website interface. The top navigation bar includes the enel logo, the title "SMM ePlus - SMART METERS MANAGER", and three main tabs: "Configuration", "Monitoring", and "Operation". On the left, a sidebar lists "Admin", "System", "Technical area", "Commercial area", and "Report" options. The main content area is titled "Meter operations" and contains several sub-options: "ACM meter", "Send ACM meter commands", "Synchro meter", "Meter outage check", "Meter auto diagnostic", "Set meter DST", "Update meter firmware", "Prepay configuration" (which is highlighted with a yellow background), and "Prepay disable".

This screenshot shows the "Prepay configuration" page. On the left, there are dropdown menus for "Company" (set to "Collaudo") and "concentrator" (set to "VIOLAT01"). A "Serial number" input field and a "Find meters" search button are also present. The main right-hand panel displays a table titled "Selected concentrator: VIOLAT01". The table has columns for Concentrator Name, Serial number, Reachable, Meter type, Versionapp1, Details, and Is prepaid configured. One row is shown, with the "Is prepaid configured" field set to "false". At the bottom of the page, a message states "Total items: 1 (Selected items: 1)". Two blue buttons at the bottom are labeled "Generate remote activity" and "Generate mobile activity".

#### 4.1.1. Configuration

Through this activity, the system configures on meters the following values. They can be changed as needed.

Field	Value	Description
Limit credit	0	Limit of credit before the meter detaches the circuit breaker.
Warning threshold credit	30	Limit of credit that, if reached, generated a warning used to identify when the credit is running out.
Power reduction threshold	30	Limit of credit that, if reached, causes the power reduction.
Power reduction functionality	100%	Percentage of contractual power available when credit goes below "Power reduction threshold". (for this feature, DISI should be enabled in table 13).
Days for relay opening	Everyday	Days of week in which the meter can open the relay.
Start time opening	00:00	Start time of the day in which the meter can open the relay.
End time opening	23:59	End time of the day in which the meter can open the relay.
Relation Wh - credit.	1	Relation between consumed Wh and credit. Now, 1 credit = 1 Wh

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To know which meters have been configured, it is possible to see “Meters in field” report.

Home

**enel** SMM ePlus - SMART METERS MANAGER

Manufacturing      Field      Monitoring      System

 Admin  System  Technical area  Commercial area  Report	 Devices   <b>Company</b> Collaudo   <input checked="" type="checkbox"/> Concentrators in field <input checked="" type="checkbox"/> Meters in field <b>Meters in field</b> <input checked="" type="checkbox"/> Count meters by concentrator <input checked="" type="checkbox"/> Concentrator autodiscovery conflicts <input checked="" type="checkbox"/> Count meters <input checked="" type="checkbox"/> Wake up <input checked="" type="checkbox"/> Concentrator autodiscovery repeater <input checked="" type="checkbox"/> Wake up per day
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

filter by	concentrator.n	value	GIALLO01											
Meters in field														
concentrator	usagepoint	macaddress	serialnumber	type	state	process stat	nrm	is reachable	breakerstate	error instantclosure	row	phase	version app1	version sw fix
GIALLO01	GALLC002	86021406A64	UAAEEDN10100027236	CERM1	Commissioned			1 True		100 False	2	Phase R	3146	3032
GIALLO01	VERDE0013	86021601B178	UAAEEDN11200110971	CERM1	Commissioned			1 True		100 False	3	Phase R	3131	3032
GIALLO01	GALLC005	86051600027	UAAEEDN11300000743	CERM1	Commissioned			1 True		40 False	4	Phase R Invert	3037	3032
GIALLO01	GALLC006	86041601FA98	UAAEEDN11200129688	CERM1	Commissioned			1 True		100 False	5	Phase R	3131	3032
GIALLO01	VIOLA0007	86021406A54	UAAEEDN10100027220	CERM1	Commissioned			0 True		100 False	10	Phase R	3131	3032
GIALLO01	macaddress	86021406A64	UAAEEDN10100027236	CERM1	Commissioned			1 True		100 False	7	Phase R	3131	3032

new1	new2	scw1	scw2	last sw update uts	upload	dailyclosure	energy do profile	energy lp profile	cedata profile	tip	prepaid configured
80D0	809C	0000	0040	10/28/2019 8:07:13 PM	True	False	DailyC_RncFab	FastPload_Energy_Profile	CEDATA_Prepayed_Light	15	False
80CD	809C	0000	0040	10/30/2019 6:52:12 PM	True	True	DailyClosure_Energy_Profile_3	FastPload_Energy_Profile	CEDATA_Prepayed_Light	60	True
80CB	809C	0000	0000	10/28/2019 8:07:13 PM	True	False	DailyClosure_Energy_Profile_3	FastPload_Energy_Profile	CEDATA_MaxPow_VoltVar	60	True
A0CD	809C	0000	0000	10/30/2019 6:52:12 PM	True	True	DailyClosure_Energy_Profile_3	FastPload_Energy_Profile	CEDATA_Prepayed_Light	60	True
80CB	809C	0000	0000	10/30/2019 6:52:50 PM	True	True	DailyClosure_Energy_Profile	PROFILO_FP_2	CEDATA_MaxPow_VoltVar	15	True
ANCR	AN9C	0000	0000	10/17/2019 10:29:44 AM	True	True	DailyC_RncFab	FastPload_RncFab	CEDATA_MaxPow_VoltVar	60	False

## 4.1.2. Remote execution

Pressing the “Generate remote activity” button, the system generates a commercial Workorder that will be sent to technical area for remote execution.



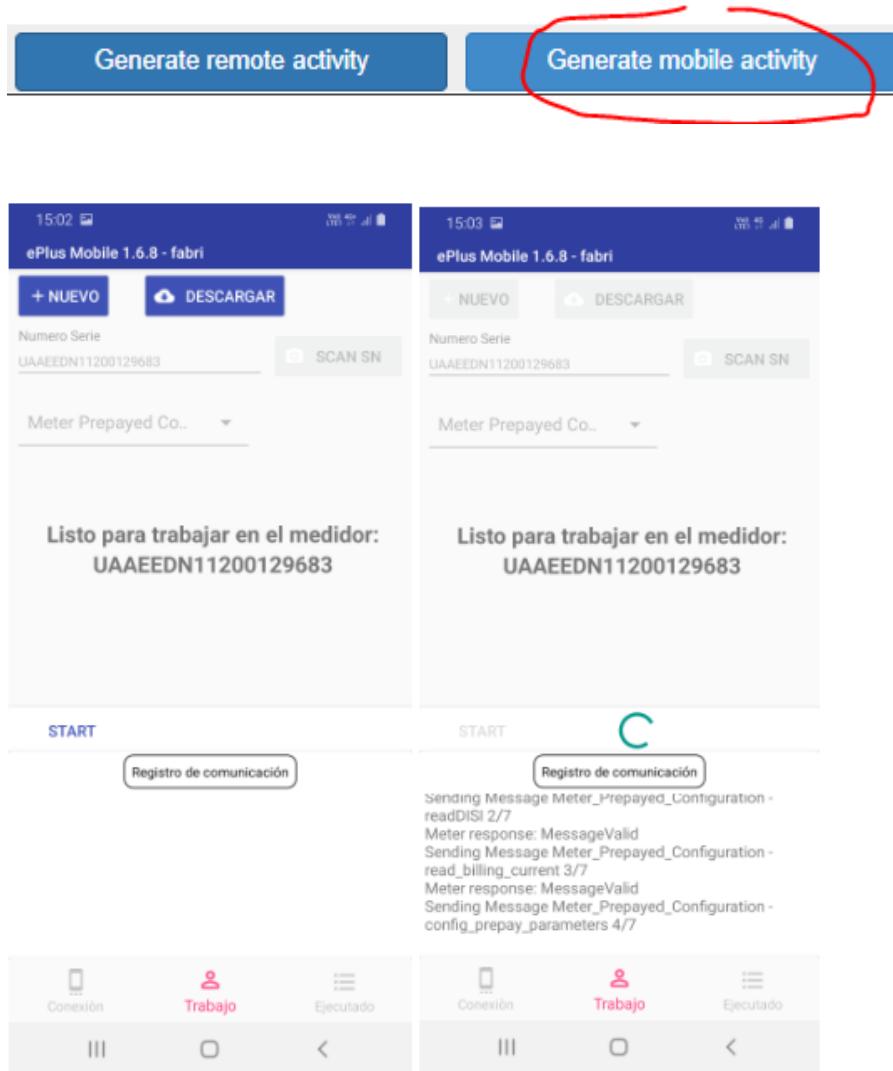
The result of the activity is visible in reports available in Report → Monitoring → Works

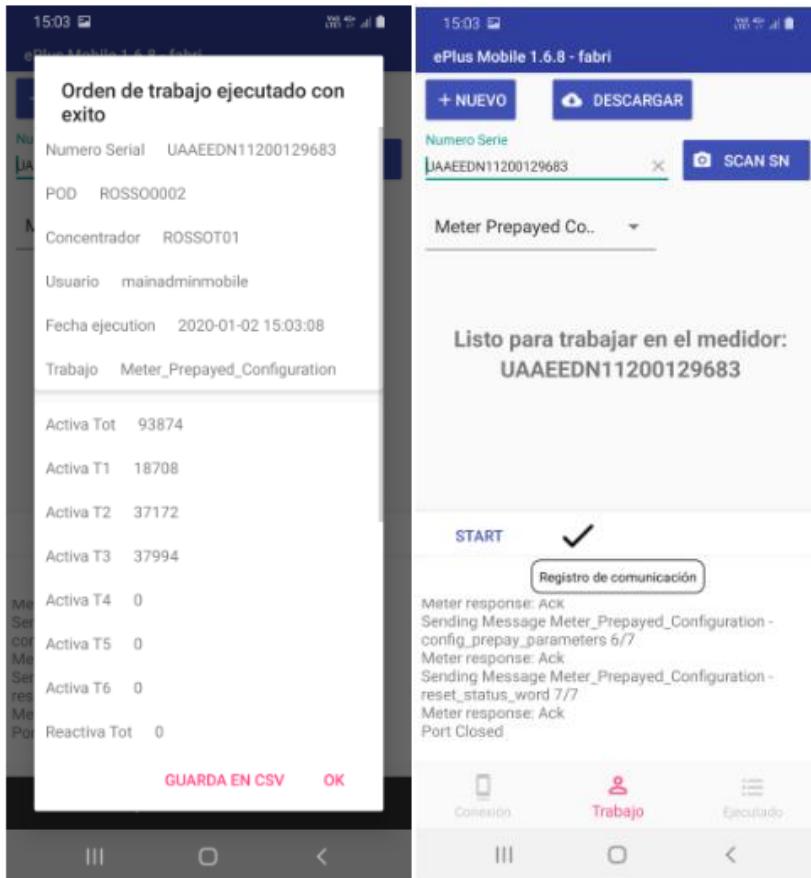
The screenshot shows the SMM ePlus - SMART METERS MANAGER interface. The top navigation bar includes the enel logo, Manufacturing, Field, Monitoring, and System sections. On the left, a sidebar lists Admin, System, Technical area, Commercial area, and Report. The main panel is titled "Works" and shows a "Company" dropdown set to "Collaudo". Below it is a list of filter options, many of which are highlighted in yellow:

- Pending works
- Completed works
- Commercial pending workorder
- Commercial completed workorder
- Technical pending workorder
- Technical completed workorder
- Completed works scheduled
- Pending works scheduled
- ACM concentrator completed
- Provisioning workorder
- ACM meter completed
- Count scheduled completed
- WO mobile pending
- WO mobile completed

### 4.1.3. Local execution

Pressing the “Generate mobile activity” button, the system generates a WorkOrderMobile that will be downloadable from ePlusMobile application





#### 4.1.4. SMMePlus integration (external commercial system)

To send a prepayment configuration request via integration, it's necessary to send an EndDeviceControl request, specifying following code.

Code	Comments
3.20.81.26	Meter Prepay Configuration

The result of the operation uses following codes.

End Device Event Type	End Device Domain	End Device Sub-domain	End Device Event or Action	Description
3.20.81.76	Billing	Prepayment Credit	Enabled	Response Meter Prepay Configuration OK
3.20.81.221	Billing	Prepayment Credit	EnableFailed	Response Meter Prepay Configuration KO

## 4.2. Prepayment disabling on meter

In technical area of SMMePlus website, it's possible to generate a Prepay Disable activity.

The screenshot shows the SMMePlus - SMART METERS MANAGER interface. At the top, there is a navigation bar with the Enel logo, the title "SMM ePlus - SMART METERS MANAGER", and three tabs: "Configuration", "Monitoring", and "Operation". On the left, a sidebar lists several menu items: Admin, System, Technical area, Commercial area, and Report. The "Technical area" item is expanded, showing sub-options: ACM meter, Send ACM meter commands, Synchro meter, Meter outage check, Meter auto diagnostic, Set meter DST, Update meter firmware, Prepay configuration, and Prepay disable. The "Prepay disable" option is highlighted with a yellow box.

### 4.2.1. Configuration

In relation with this process, the system:

- 1- Disable prepayment mode
- 2- Read credit value
  - a. If the credit is equal to 0 the breaker is detached, so the instant closure command is sent in order to connect the customer again
  - b. If the credit is not equal to 0
    - i. If the related setting (see paragraph 3.3) is enabled, the credit is reset to 0

## 4.2.2. Remote execution

Pressing the “Generate remote activity” button, the system generates a commercial Workorder that will be sent to technical area for remote execution.



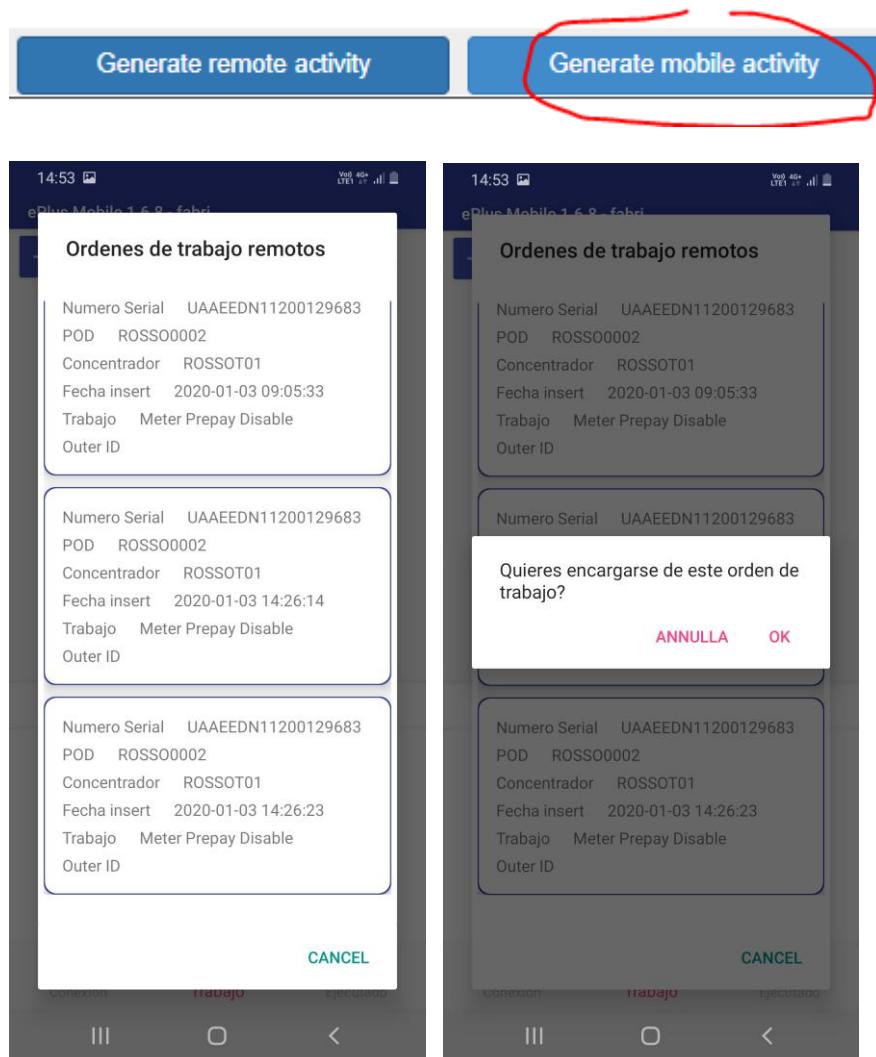
The result of the activity is visible in reports available in Report → Monitoring → Works

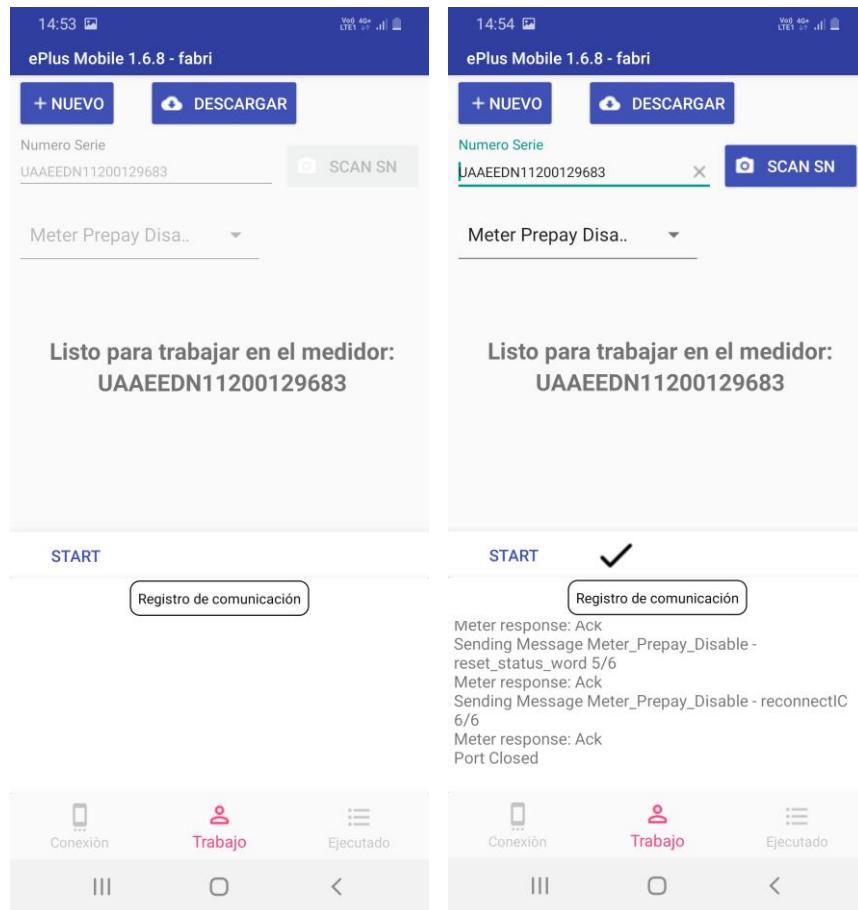
The screenshot shows the SMM ePlus - SMART METERS MANAGER interface. The top navigation bar includes the enel logo, Manufacturing, Field, Monitoring, and System tabs. The left sidebar has links for Admin, System, Technical area, Commercial area, and Report. The main content area is titled "Works" and shows a "Company" dropdown set to "Collaudo". Below it is a list of filter options, many of which are highlighted with yellow boxes:

- Pending works
- Completed works
- Commercial pending workorder
- Commercial completed workorder
- Technical pending workorder
- Technical completed workorder
- Completed works scheduled
- Pending works scheduled
- ACM concentrator completed
- Provisioning workorder
- ACM meter completed
- Count scheduled completed
- WO mobile pending
- WO mobile completed

## 4.2.3. Local execution

Pressing the “Generate mobile activity” button, the system generates a WorkOrderMobile that will be downloadable from ePlusMobile application





#### 4.2.4. SMMePlus integration (external commercial system)

To send a prepayment disable request via integration, it's necessary to send an EndDeviceControl request, specifying following code.

Code	Comments
3.20.81.22	Meter Prepay Disable

The result of the operation uses following codes.

End Device Event Type	End Device Domain	End Device Sub-domain	End Device Event or Action	Description
3.20.81.66	Billing	Prepayment Credit	Disabled	Response Meter Prepay Disable OK
3.20.81.220	Billing	Prepayment Credit	DisableFailed	Response Meter Prepay Disable KO

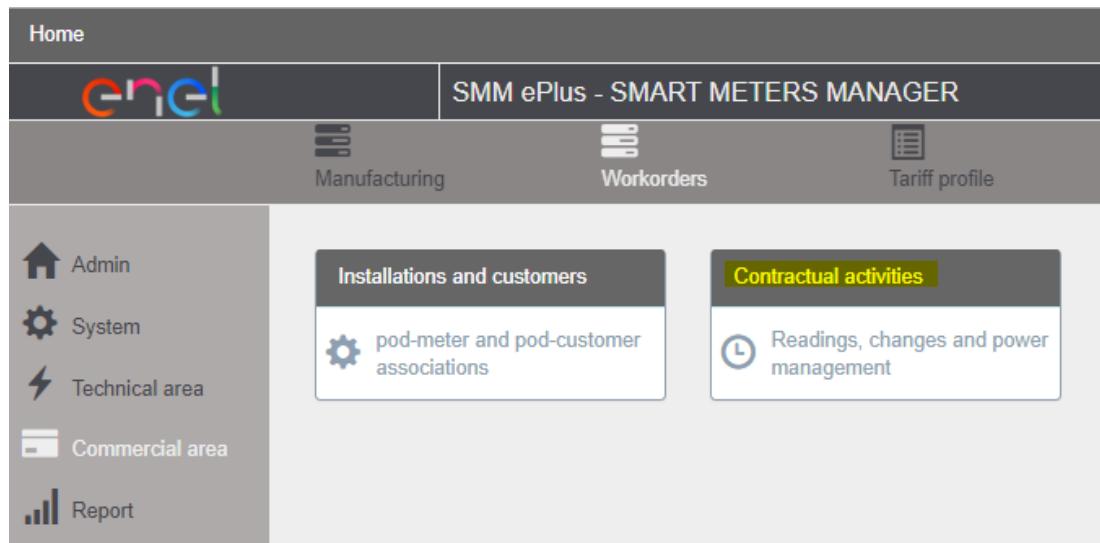
## 4.3. Credit charge/reduction

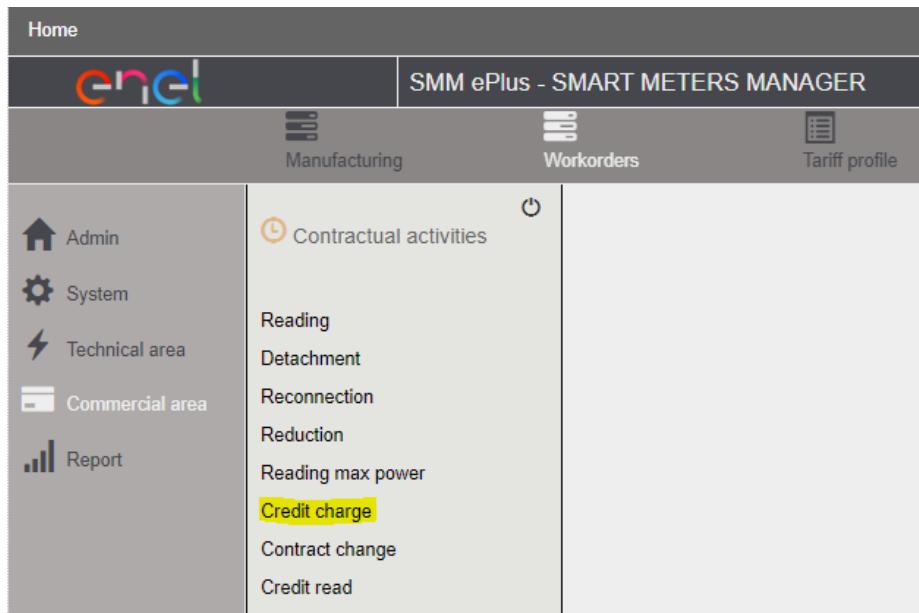
The credit charge and the credit reduction activities can be generated through commercial area for SMMePlus website or can be sent via integration.

### 4.3.1. SMMePlus commercial area

#### Credit charge

In Commercial Area → Workorders → Contractual activities it's possible to generate a credit charge request.





It's necessary to:

1. Select a commissioned meter
2. Insert the credit charge value expressed in Wh
3. Generate an activity: remote or mobile

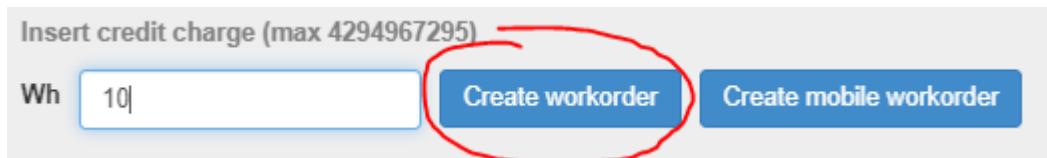
POD name ..	Serial number	State	Contract state ..	Concentrator ..	Breaker state ..	Contract profile	Tariff profile	WO pending	Details
VIOLA0021	UAAEEDN101000272...	Commission... activated	activated	GIALLOT01	connected (100)	Default contract - CER...	Default tariff -CER...	true	

Total items: 1 (Selected items: 1)

Insert credit charge (max 4294967295)  
Wh [redacted] Create workorder Create mobile workorder

## 4.3.1.1.1 Remote execution

Pressing the “Create workorder” button, the system generates a commercial Workorder that will be sent to technical area for remote execution.



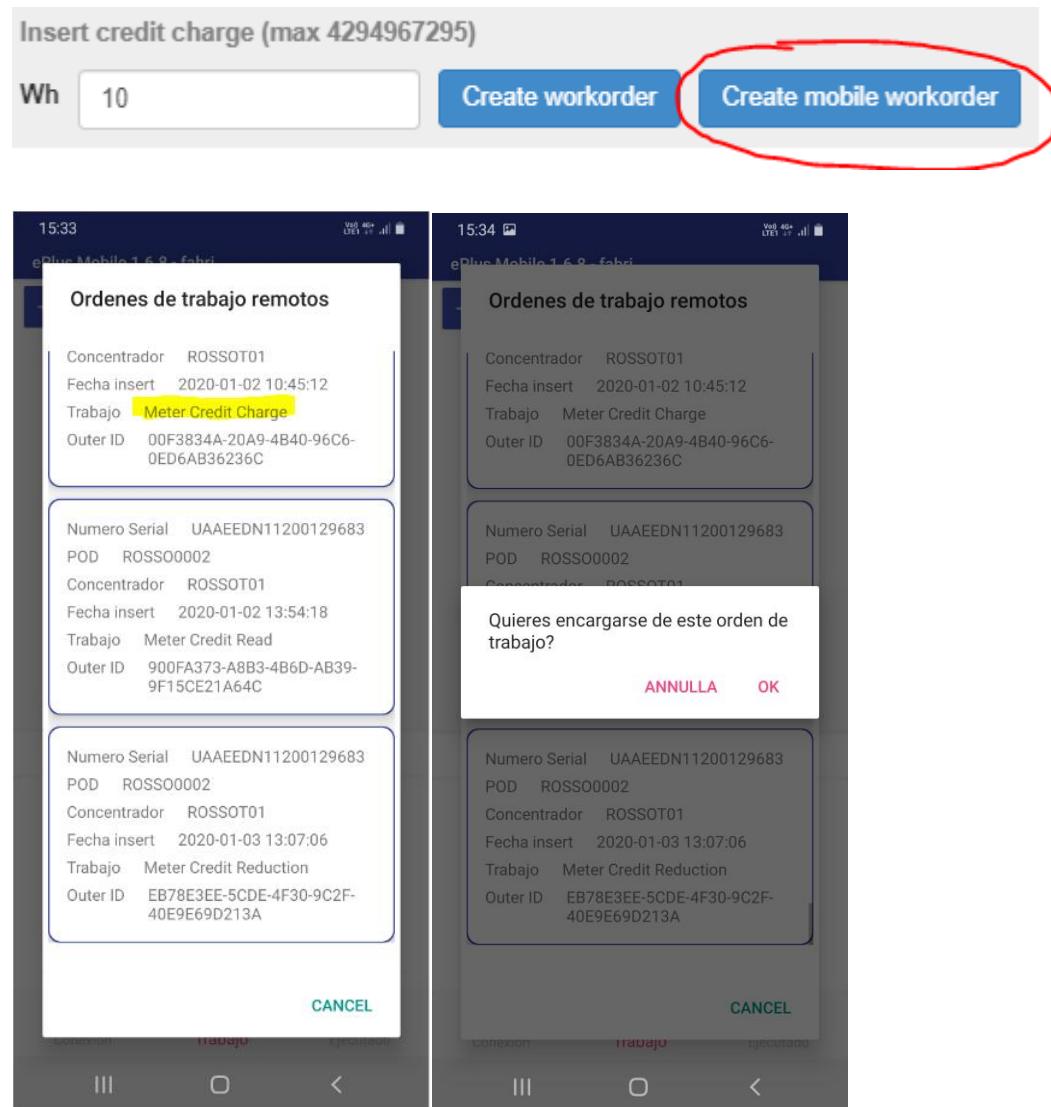
The result of the activity is visible in reports available in Report → Monitoring → Works

A screenshot of the SMM ePlus - SMART METERS MANAGER interface. The top navigation bar includes the enel logo, a search bar, and tabs for Manufacturing, Field, Monitoring, and System. On the left, a sidebar lists Admin, System, Technical area, Commercial area, and Report. The main content area is titled "Works" and shows a "Company" dropdown set to "Collaudo". Below it is a list of report categories, many of which are highlighted with yellow boxes:

- Pending works
- Completed works
- Commercial pending workorder
- Commercial completed workorder
- Technical pending workorder
- Technical completed workorder
- Completed works scheduled
- Pending works scheduled
- ACM concentrator completed
- Provisioning workorder
- ACM meter completed
- Count scheduled completed
- WO mobile pending
- WO mobile completed

## 4.3.1.1.2 Local execution

Pressing the “Create mobile workorder” button, the system generates a commercial Workorder and a WorkOrderMobile that will be downloadable from ePlusMobile application



# e-distribuzione

## Credit reduction

The credit reduction activity can be generated through commercial area for SMMePlus website or can be sent via integration.

In Commercial Area → Workorders → Contractual activities it's possible to generate a credit reduction request.

This screenshot shows the main navigation menu of the SMM ePlus - SMART METERS MANAGER. The left sidebar includes links for Admin, System, Technical area, Commercial area (which is selected), and Report. The top right features icons for Manufacturing, Workorders, and Tariff profile. The central area has two main sections: 'Installations and customers' (containing 'pod-meter and pod-customer associations') and 'Contractual activities' (containing 'Readings, changes and power management'). The 'Contractual activities' section is highlighted with a yellow background.

This screenshot shows the 'Contractual activities' section expanded. It lists several options: Reading, Detachment, Reconnection, Reduction, Reading max power, Credit charge, Contract change, Credit read, and Credit reduction. The 'Credit reduction' option is highlighted with a yellow background.

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It's necessary to:

1. Select a commissioned meter
2. Insert the credit reduction value expressed in Wh
3. Generate an activity: remote or mobile

Meter list

POD name ..	Serial number	State	Contract state ..	Concentrator ..	Breaker state ..	Contract profile	Tariff profile	WO pending	Details
VIOLA0021	UAAEEDN101000272...	Commission...	activated	GIALLOT01	connected (100)	Default contract - CER...	Default tariff -CER...	true	

Total items: 1 (Selected items: 1)

Insert credit reduction (max 4294967295)

Wh

Create workorder Create mobile workorder

If the value of credit to reduce is higher than the available credit on meter, the system will set the available credit to 0.

### 4.3.1.1.3 Remote execution

Pressing the “Create workorder” button, the system generates a commercial Workorder that will be sent to technical area for remote execution.

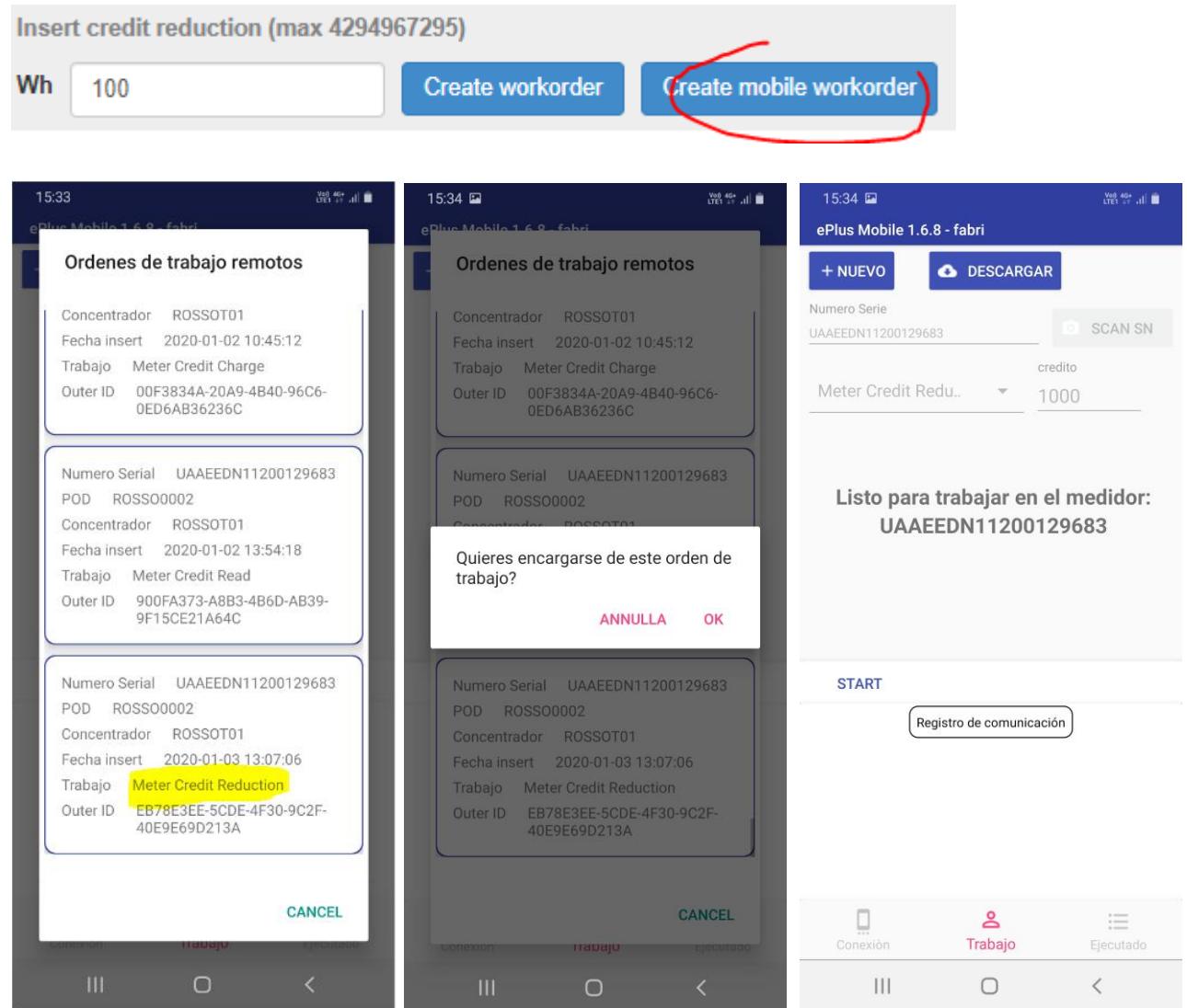


The result of the activity is visible in reports available in Report → Monitoring → Works

A screenshot of the SMM ePlus - SMART METERS MANAGER interface. The top navigation bar includes links for Home, enel, Manufacturing, Field, Monitoring, and System. On the left, a sidebar menu lists Admin, System, Technical area, Commercial area, and Report. The main content area is titled "Works" and shows a list of reports under "Company Collaudo". The list includes: Pending works, Completed works, Commercial pending workorder, Commercial completed workorder, Technical pending workorder, Technical completed workorder, Completed works scheduled, Pending works scheduled, ACM concentrator completed, Provisioning workorder, ACM meter completed, Count scheduled completed, WO mobile pending, and WO mobile completed. The first four items in the list are highlighted with yellow boxes.

#### 4.3.1.1.4 Local execution

Pressing the “Create mobile workorder” button, the system generates a commercial Workorder and a WorkOrderMobile that will be downloadable from ePlusMobile application



#### 4.3.2. SMMePlus integration (external commercial system)

To send a **credit charge** or **credit reduction** request via integration, it's necessary to send an EndDeviceControl request, specifying following code.

Code	Comments
3.20.81.30	Electric meter prepayment credit charge/reduction request

SMMePlus integration generates a credit charge or a credit reconnection request based of the credit value (Wh) in "eventOrAction" field.

FIELD	REQ	DESCRIPTION
EndDeviceControls.EndDeviceControlType[n].eventOrAction	M	Integer value: Credit value → Value of charge or reduction (Wh)

If the credit value is **higher than 0**, the generated activity will be a **credit charge**.

If the credit value is **lower than 0**, the generated activity will be a **credit reduction**.

The value 0 is not accepted. If this value is received, an error is generated.

Code	Comments
1.8	Format of request does not validate against schema

The result of the operation uses following codes.

End Device Event Type	End Device Domain	End Device Sub-domain	End Device Event or Action	Description
3.20.81.15	Billing	Prepayment Credit	Charged	Meter Credit Charged/Reduced Succesfully
3.20.81.85	Billing	Prepayment Credit	Failed	Meter Credit Charge/Reduction Failed

## 4.4. Credit and alarm collection

The collection of information from meters is made in two ways:

- Scheduled (CEData procedure)
- On demand (Credit Read workorder)

### 4.4.1. CEData procedure

CEData is an internal procedure of the concentrator that collects automatically information from meters.

During the concentrator configuration activity, the system configures on the concentrators how many times the procedure runs and the profiles for the collection of data.

The procedure is usually configured to run between 2 and 4 times per day inside concentrator.

The profile that is configured collects following data:

- Meter status words (alarms)
- Current credit
- Datetime of the meter
- Voltage variations

The system usually collects this information from concentrator with an interval between 6 and 12 hours.

## 4.4.2. Credit read workorder

In Commercial Area → Workorders → Contractual activities it's possible to generate a credit read request.

The image consists of two vertically stacked screenshots of the SMM ePlus - SMART METERS MANAGER application interface.

**Screenshot 1:** This shows the main navigation menu on the left and several functional modules in the center.

- Left Navigation:** Admin, System, Technical area, Commercial area, Report.
- Center Modules:**
  - Installations and customers:** pod-meter and pod-customer associations
  - Contractual activities:** (highlighted in yellow)
  - Tariff profile:**

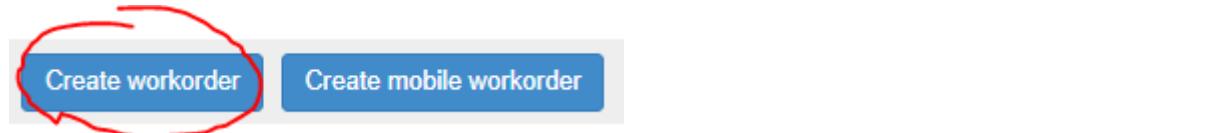
**Screenshot 2:** This shows a more detailed view of the Contractual activities module.

- Left Navigation:** Admin, System, Technical area, Commercial area, Report.
- Contractual activities Sub-module:**
  - Reading
  - Detachment
  - Reconnection
  - Reduction
  - Reading max power
  - Credit charge
  - Contract change
  - Credit read:** (highlighted in yellow)

The screenshot shows the SMM ePlus - SMART METERS MANAGER interface. On the left, there is a sidebar with various navigation options: Admin, System, Technical area, Commercial area, and Report. The main panel displays a table titled "Commissioned meters". The table has columns for POD name, Serial number, Contract state, Concentrator, Breaker state, Contract profile, Tariff profile, and WO pending. One row is selected, showing "VIOLA0001" and "UAAEEDN10100027566" under Serial number, and "closed" under Contract state. At the bottom of the main panel, there are buttons for "Create workorder" and "Create mobile workorder".

## Remote execution

Pressing the “Create workorder” button, the system generates a commercial Workorder that will be sent to technical area for remote execution.



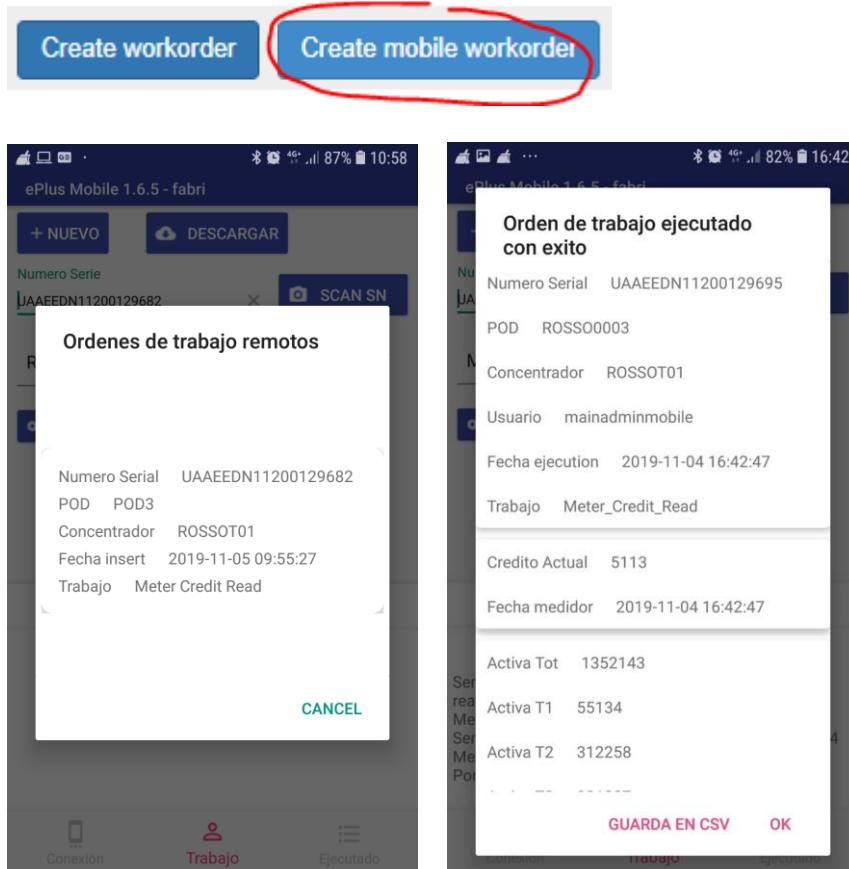
The result of the activity is visible in reports available in Report → Monitoring → Works

The screenshot shows the Monitoring → Works report interface. On the left, there is a sidebar with options: Admin, System, Technical area, Commercial area, and Report. The main panel displays a section titled "Works" with a "Company" dropdown set to "Collaudo". Below this, there is a list of items, some of which are highlighted with yellow boxes:

- Pending works
- Completed works
- Commercial pending workorder
- Commercial completed workorder
- Technical pending workorder
- Technical completed workorder

## Local execution

Pressing the “Create mobile workorder” button, the system generates a commercial Workorder and a WorkOrderMobile that will be downloadable from ePlusMobile application



#### 4.4.3. SMMePlus integration (external commercial system)

To send a credit read request via integration, it's necessary to send an OnDemandReading request, specifying following code 0.0.15.13.1.1.3.0.0.0.0.0.0.0.0.0.80.0 (Credit available for Pre-Paid meter) as reading type:

Code	Comments
0.0.15.13.1.1.3.0.0.0.0.0.0.0.0.0.80.0	Credit available for Pre-Paid meter

The result of the operation uses following codes.

End Device Event Type	End Device Domain	End Device Sub-domain	End Device Event or Action	Description
3.21.87.30	Metrology	Readings	Execute	Meter Reading Response
3.21.87.85	Metrology	Readings	Failed	Meter Reading Response

#### 4.4.4. Collected data

##### Credit

Code	Comments
0.0.15.13.1.1.3.0.0.0.0.0.0.0.0.0.80.0	Credit available for Pre-Paid meter

##### Credit available for Pre-Paid meter

This value is used to refer the credit of the meter

In SMMePlus website, it's possible to see prepayment data (available credit, last credit charge activity) for each meter.

##### Last prepayed credit reading for meters

concentrator	usagepoint	macaddress	serialnumber	version app1	state	process state	available credit
GIALLOT01	GIALLO006	86041601FA98	UAAEEDN11200129688	3131	Commissioned		1255

Offset minutes from UTC: 60

available currency credit	last trans id	local date	last credit charge local	last update local
1255	18	11/4/2019 2:41:28 AM	8/10/2019 11:13:48 AM	11/4/2019 3:32:1

##### Alarms

End Device Event Type	End Device Domain	End Device Sub-domain	End Device Event or Action	Description
3.20.81.286	Billing	Prepayment Credit	Limit Reached	Meter Credit Limit Reached (Warning threshold active)
3.20.81.150	Billing	Prepayment Credit	Limit Reached	Min Limit Reached (Debt limit threshold reached)

##### Meter Credit Limit Reached (Warning threshold active)

This alarm is fired when the “**Warning threshold credit**” is reached (see 4.1.1 Configuration)

##### Min Limit Reached (Debt limit threshold reached)

This alarm is fired when the credit is below “**Limit credit**” (see 4.1.1 Configuration).