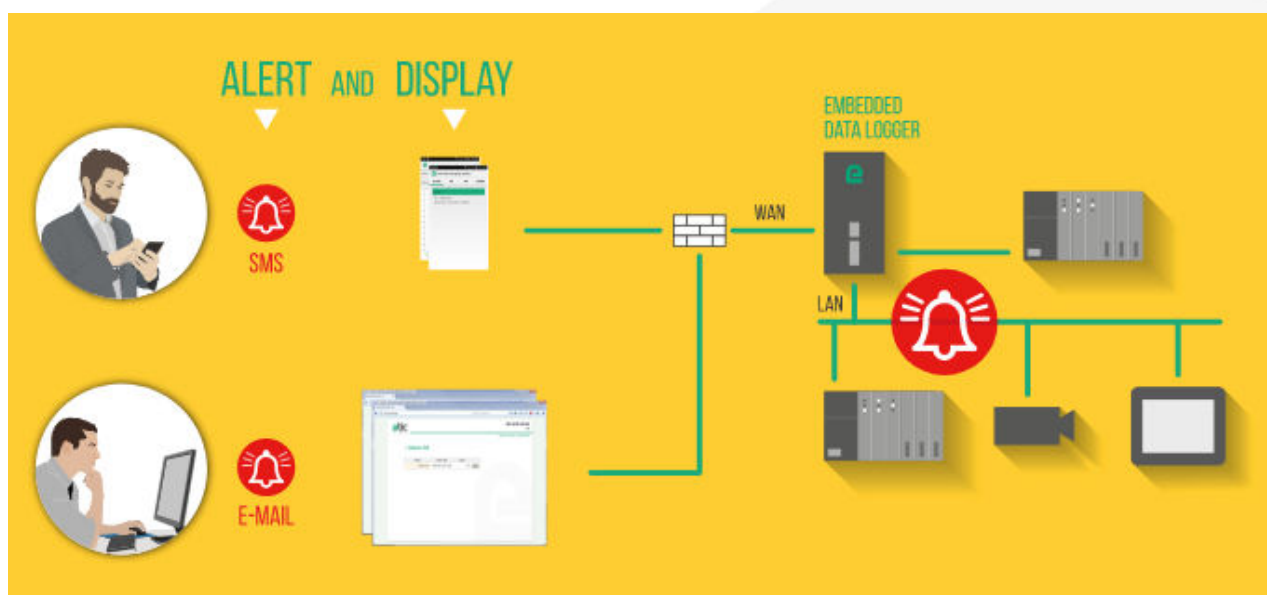


Application note

Starting with Collect & Alert

- The Collect & Alert solution
- Activation of the Collect & Alert option on the Etic Telecom box
- Activation of the Pack SMS option on the Etic Telecom Box
- Configuring variables to query
- Remote user configuration
- Configuring an alert cycle
- Acknowledging alerts
- Configuring the data logger
- Display mode configuration (histogram and dynamic visualization of a variable)
- Hot line support during your tests
- Virtual Showroom

Latest update **24/02/2021**



1) THE COLLECT & ALERT SOLUTION

Collect & Alert solution targets machine or industrial process managers.

It allows recovery of alarms from industrial equipment via SMS, e-mail or the Alphapage network of e*MESSAGE.

The alerted manager can simply and safely view WEB pages (https link) from his PC, Smartphone or Tablet.

The manager can also remotely take control of a PLC or an HMI to deepen his remote management by simply combining Collect & Alert and M2Me solutions.

Collect & Alert allows as well to store and forward CSV file (email or FTP) for further processing.

NB: the Collect & Alert option may appear in some files or on some WEB pages under its old name: Alert & Display.

2) ACTIVATION OF THE COLLECT & ALERT OPTION.

The Collect & Alert option is activated from your customer space of the Etic Telecom WEB site. You need to:

1. Create your customer area
2. Create the remote site corresponding to the box (IPL or RAS) which will carry the option Collect&Alert
3. Add the option to the Etic Telecom box.

- **Creation of your customer area**

Log on to www.etictelecom.com and create your own customer area (click on "sign up now"). Fill out the form (all fields marked in green are mandatory).

THE BENEFITS OF AN ETIC TELECOM ACCOUNT

- Simple visualization of your connected remote sites.
- Access to additional options (SMS alert, M2Me function ...).
- Crediting SMS in the Machine Access Box or the router (RAS / IPL).
- M2Me client activation on the M2Me server.

ACCOUNT CREATION

Company

You are...

Web site

Last name

First name

Function

E-mail address

Phone number


Password

Password

At least 8 characters

☒ I want to receive the last information concerning the Etic Telecom products

☐ I'm not a robot

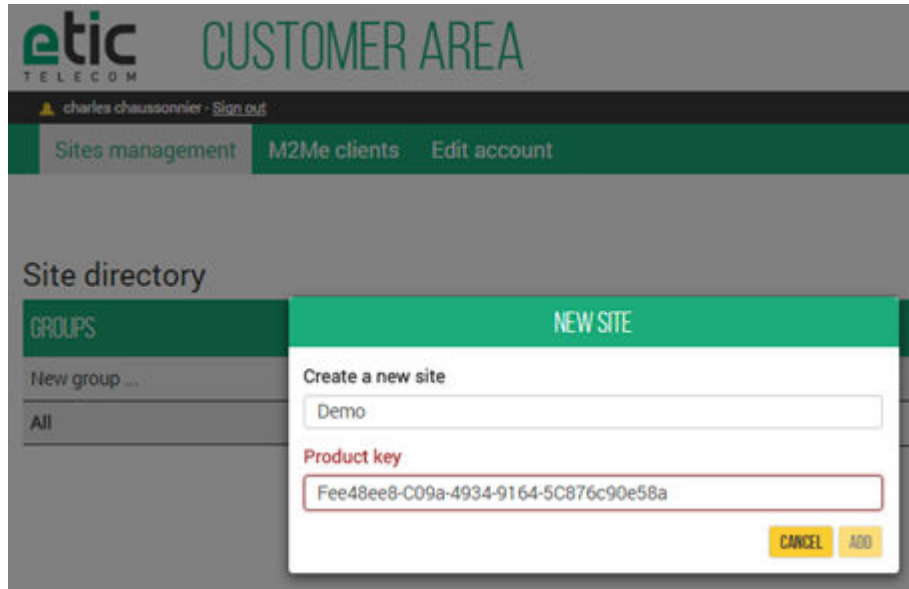
 reCAPTCHA

Sign up

A message will be sent to the registered email address to finalize the creation of your account.

- **Creation of a remote site**

From your customer area (Site Management section), create a remote site by naming it and enter the product key of the Machine Access Box (RAS). The product key is visible from the "About" section of the configuration menu of the Etic Telecom box (RAS or IPL).



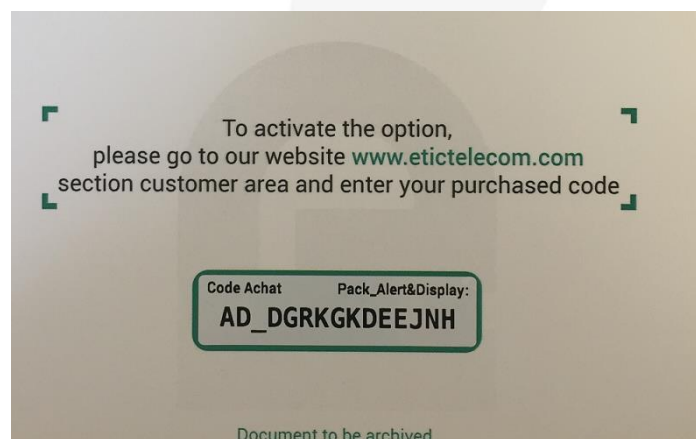
- **Activation of the Collect & Alert option on the Etic Telecom box**

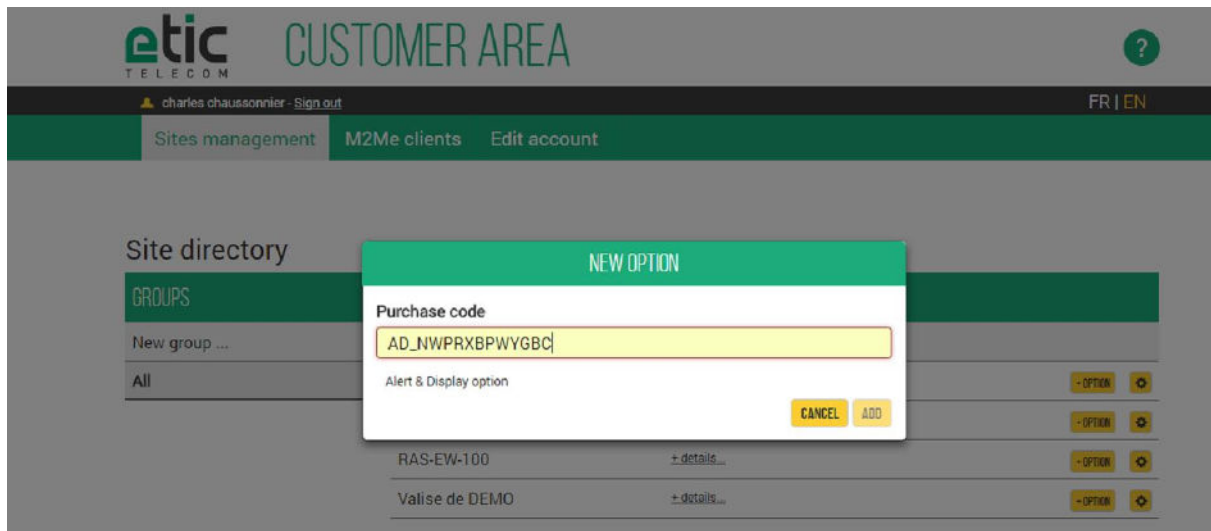
Choose from the site directory of your customer area the site that will have the option Collect & Alert and click on "+OPTION".

Site directory

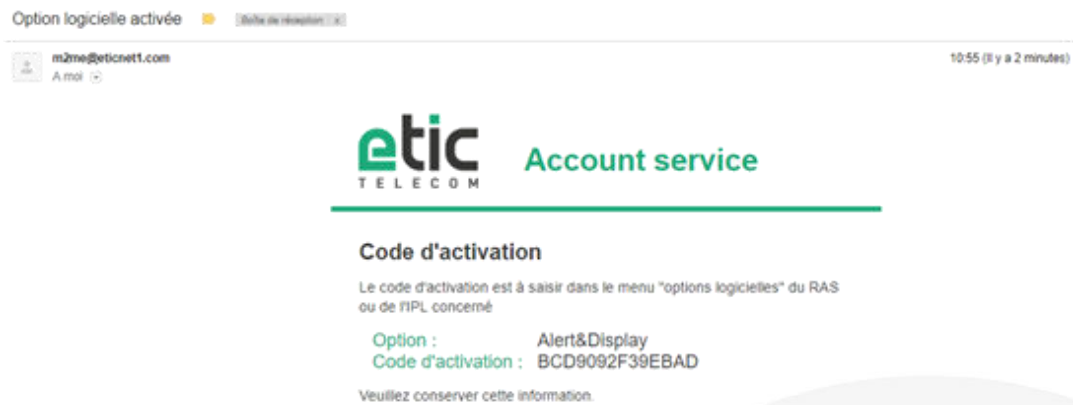
GROUPS	ALL SITES
New group ...	New site ...
All	Demo + details... - OPTION
	démo GPS + details... - OPTION
	RAS-EW-100 + details... - OPTION
	Valise de DEMO + details... - OPTION

Enter the purchase code corresponding to the option you bought. (See diagram below).

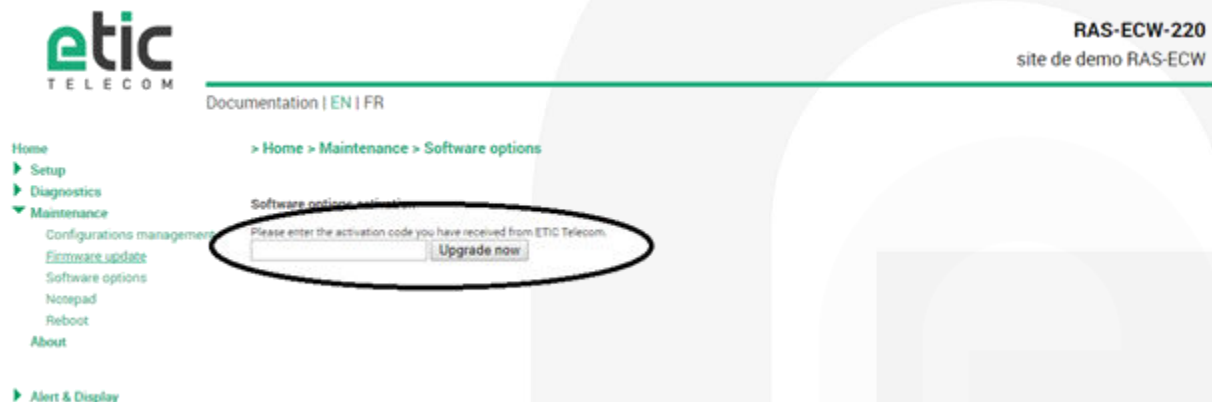




After validation, you will receive an email (at the email address used to access your customer area) with the procedure to follow to activate the option on the Etic Telecom box.



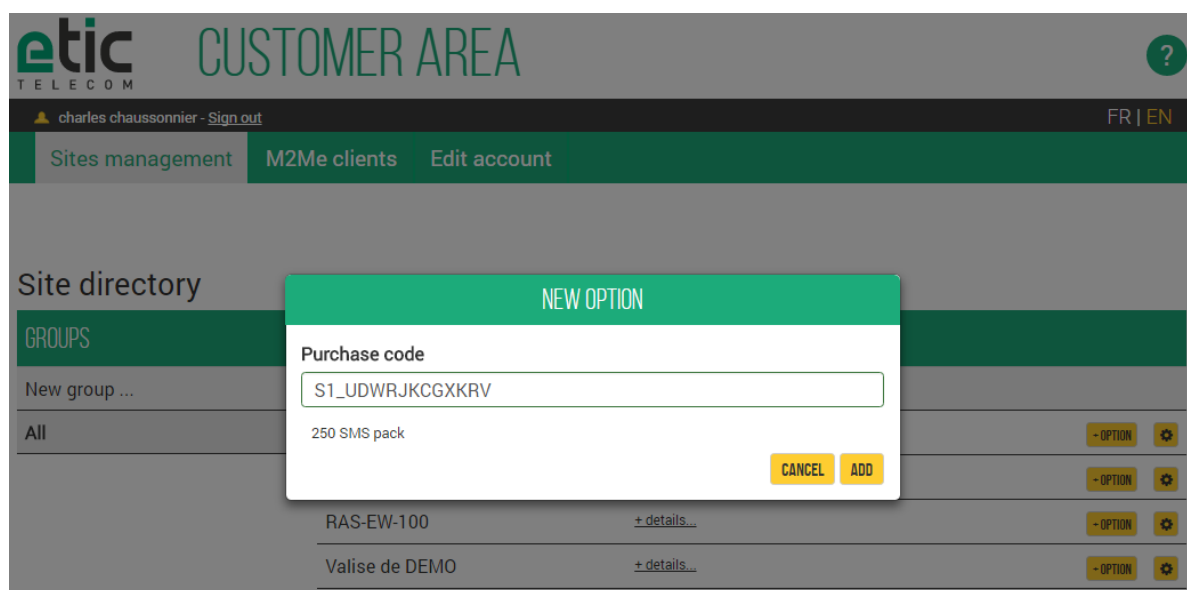
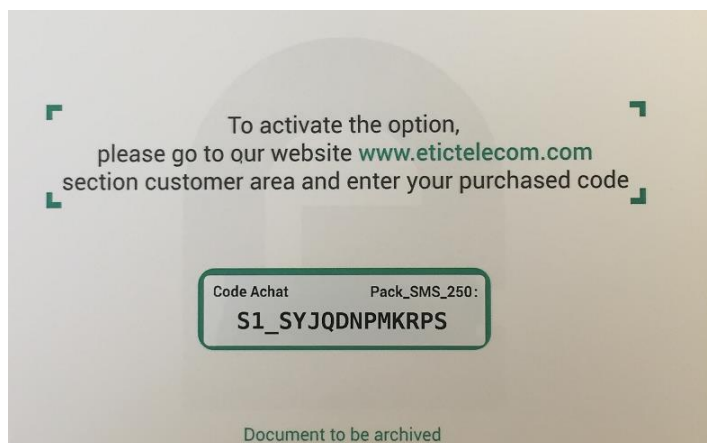
Access the WEB pages of the configuration menu of your Etic Telecom box (see diagram below). Enter the activation code received by e-mail. Clicking on "Upgrade now" will activate the option on your box.



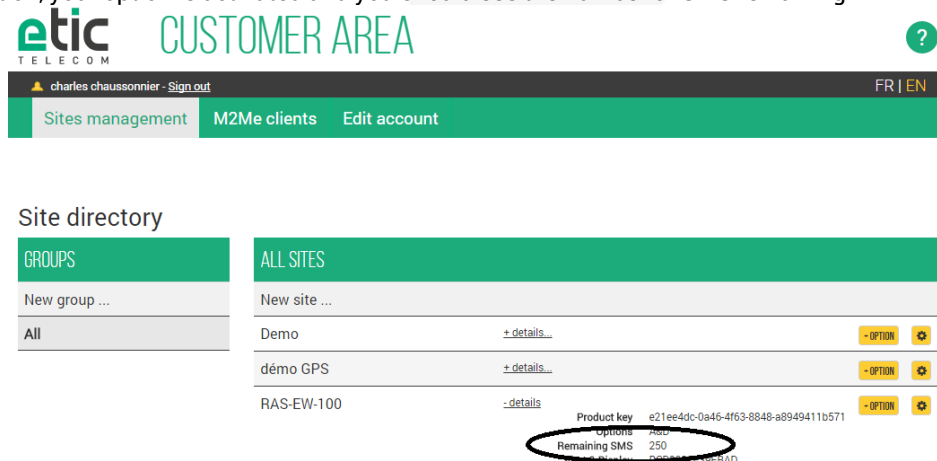
3) ACTIVATION OF THE PACK SMS OPTION

The SMS Pack option is used to send an SMS alert from an Etic Telecom box that does not have an integrated cellular module (WAN: Ethernet, ADSL or Wi-Fi).

Select the site which will carry the option and enter the purchase code corresponding to the option you bought. (See diagrams below).



After validation, your option is activated and you should see the number of SMS remaining.



4) CONFIGURING VARIABLES TO QUERY

The Etic Telecom box interrogates in ModBus (TCP, RTU), Unitelway or OPC UA an equipment called data source. This equipment will provide the values of several variables.

- **Creating a data source**

Click on "Data Sources" and provide a name for the data source and a sampling period.
Choose the data source type (OPC UA or Modbus TCP) and type the data source IP address.

Home > Collect&Alert > Data sources > Data source settings

Home
▶ Setup
▶ Diagnostics
▶ Maintenance
About

▼ Collect&Alert
Data sources
Variables
Alert cycles
Synoptics

Servers state
Alert status
Alert log

Enabled	<input checked="" type="checkbox"/>
Data source name	OpcSource
Data source type	OPC UA
Sampling period (seconds)	10 (1 to 600, step 1)
IP adress of the OPC UA server	192.168.0.203
Server port	48010

Save Cancel Back

- **Creating a variable**

Click on "Variables" and "Add" in the variables table. Fill in the fields (see diagram below):

1st variable: unsigned 16bit integer with alarm triggering

> Home > Alert & Display > Variables > Variables

Name	Niveau_cuve
------	-------------

Acquisition

Variable type	Modbus
Data source	Mon_Automate
Register address	0

Calibration

Type	Unsigned 16bit integer
Decimal places	0 (0 to 10, step 1)
Gain	0.0040816326
Offset	0
Unit	%

Alarm triggering

Alarm trigger	Trigger if var > high threshold
High threshold	100
Acknowledge required	<input checked="" type="checkbox"/>
Failure description	Alerte inondation

Note: filling the field "failure description" is optional

2nd variable: unsigned 16 bit integer without alarm triggering

> Home > Alert & Display > Variables > Variables

Name	Incrementation	
Acquisition		
Variable type	Modbus ▼	
Data source	Mon_Automate ▼	
Register address	1	
Calibration		
Type	Unsigned 16bit integer ▼	
Decimal places	0	(0 to 10, step 1)
Gain	1	
Offset	0	
Unit		
Alarm triggering		
Alarm trigger	No alarm triggering ▼	
Failure description		

3rd variable: bit in word

> Home > Alert & Display > Variables > Variables

Name	Interrupteur_0	
Acquisition		
Variable type	Modbus ▼	
Data source	Mon_Automate ▼	
Register address	3	
Calibration		
Type	Bit in word ▼	
Value when 0	off	
Value when 1	on	
Bit index on word	0	
Alarm triggering		
Alarm trigger	No alarm triggering ▼	
Failure description		

Note: the bit index on word is counted from 0 to 15

1st system variable: status of system variable

> Home > Alert & Display > Variables > Add/edit a System variable

Name	pollerr
System event	Polling error
Trigger on any data source	Yes
Failed polling attempts	3
Alarm trigger	Yes

Table of created variables:

Variables table

	Name ▼	Data source	Register address	Unit	Alarm trigger
+	Incrementation	Mon_Automate	1		No alarm triggering
○	Interupteur_0	Mon_Automate	3		No alarm triggering
○	Niveau_cuve	Mon_Automate	0	%	Trigger if var > high threshold

Show Edit Delete Add ... Copy and edit < >

System variables table

	Name ▼	System event	Alarm trigger
+	pollerr	Polling error	Yes

Show Edit Delete Add ... Copy and edit < >

5) REMOTE USER CONFIGURATION

The implementation of the Collect & Alert option assumes the existence of remote users receiving alarms and who might take remotely control of the industrial process that triggered the alert.
Click in the menu "remote access" then "Users List"

Home

- Setup
 - WAN interfaces
 - LAN interface
 - Remote access
 - Users List
 - Remote access servers
 - Network
 - Security
 - Serial gateways
 - System
- Diagnostics
- Maintenance
- About

> Home > Setup > Remote access > Users List

Authorized certificate list

This table is useful if you select the user authentication by login / password + certificate. A certificate will only be accepted if its common name (CN) is present in this table.

	Active	Authorized CN
--	--------	---------------

Show Edit Delete Add ... Copy and edit ^ v < >

Users list

	Active	Full name	E-mail address	Company	Phone number (International format : +33611223344)
+	Yes	charles chaussonnier	charles.chaussonnier@etictelecom.com	ETIC TELECOM	+33643961116
○	Yes	Chaussonnier PC	charles.chaussonnier@etictelecom.com	ETIC TELECOM	+33643961116

Show Edit Delete Add ... Copy and edit ^ v < >

Fill in the fields and select access rights for this user:

> Home > Setup > Remote access > Users List > User Configuration

User information

Active	<input checked="" type="checkbox"/>
Full name	charles chaussonnier
Company	ETIC TELECOM
E-mail address	charles.chaussonnier@etic
Phone number (International format : +33611223344)	+33643961116
User name	Chaussonnier
Password	*****
Password strength	medium

***** Passwords match

For security reasons, choose a password longer than 8 characters with uppercase and lowercase letters, numbers and special characters

Access rights

Select on the table below the devices and services the user will be authorized to access.

Authorize	Device	Services
<input checked="" type="checkbox"/>	All the devices	+ All
<input type="checkbox"/>	All devices on the LAN	+ All
<input type="checkbox"/>	All devices on the additional LAN	+ All
<input type="checkbox"/>	This device	+ All
<input checked="" type="checkbox"/>	Pages_Web_S7-1200	+ Page_Web_S7-1200
<input checked="" type="checkbox"/>	RAS-ECW	+ All

6) CONFIGURING AN ALERT CYCLE

Since the variables and remote users are known, you can create an alert scenario (alert cycle). A cycle is characterized by the variables triggering it, the alert recipients and the transmission mode (email, SMS, e * MESSAGE) and the broadcast frequency.

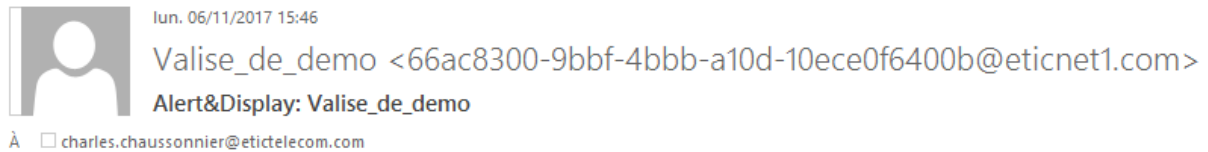
Click on "Alert cycles" and fill in the fields (see diagram below):

> Home > Alert & Display > Alert cycles > Add/Edit an alert cycle

Name	Alarmes_Urgentes
Variables triggering the alert cycle	<input type="checkbox"/> Incrementation <input type="checkbox"/> Interrupteur_0 <input checked="" type="checkbox"/> Niveau_cuve
System variables triggering the alert cycle	<input type="checkbox"/> pollerr
Recipients of the alert messages	<input checked="" type="checkbox"/> charles chaussonnier <input type="checkbox"/> Chaussonnier PC
Type	Email and SMS
Reminder count	1 (0 to 20, step 1)
Reminder period (minutes)	30 (1 to 2880, step 1)

7) ACKNOWLEDGING ALERTS

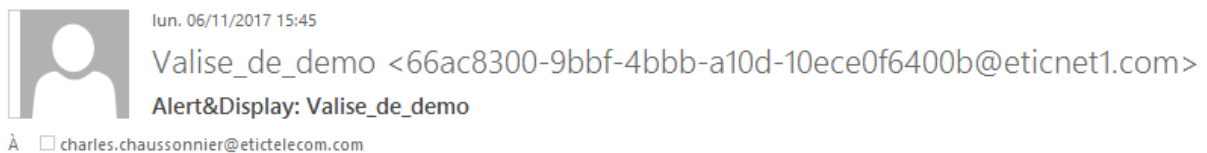
- **visualizing an alert received by e-mail ...**



From : Valise_de_demo
Date : 2017-11-06 15:46:18
Alarm id : JZZC
Variable : Niveau_cuve

Alarm Acked by Chaussonnier PC

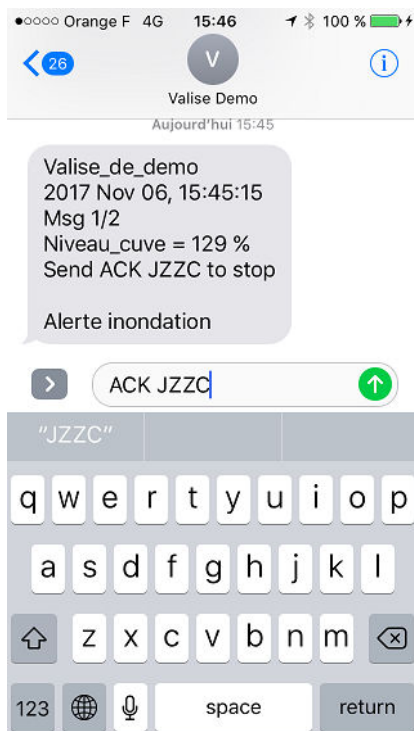
- **... and its acknowledgment**



From : Valise_de_demo
Date : 2017 Nov 06, 15:45:15
Alarm id : JZZC
Reminder : 1/2
Variable : Niveau_cuve = 129 %

Alerte inondation

- **Visualization of an alert received by SMS and ... its acknowledgment by SMS**

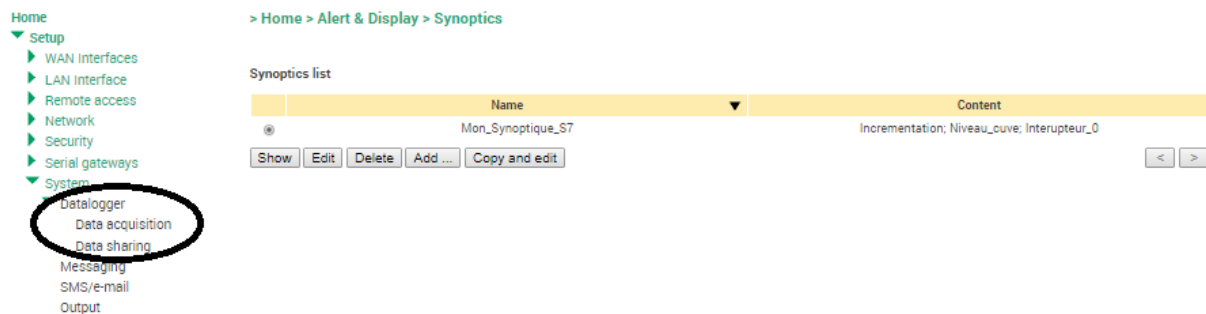


The alert can also be acknowledged locally when the Etic Telecom product has a digital input (dry contact). The digital input is available on all RAS / IPLs except the RAS-E-100, IPL-E-100, RAS-C-100, IPL-C-100, RAS-EW-100, IPL-EW -100. You can also acknowledge an alarm from the operating menu of the Etic Telecom box (see chapter 9).

8) CONFIGURING THE DATA LOGGER

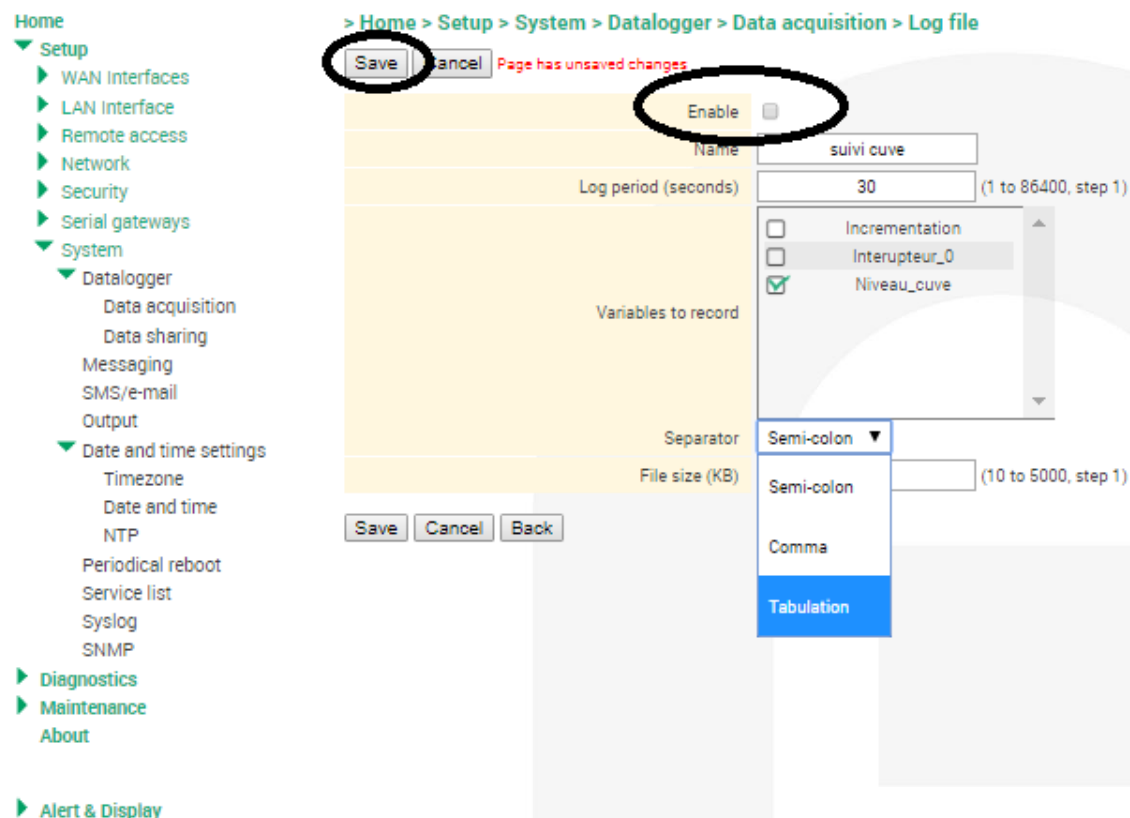
- **Creating an archive file**

Find data Logger setup in « System menu ».



Click "Data Acquisition" to create an archive file. You can then define the variables to be archived, the recording period, the column separator (; in the example below) and the maximum file size.

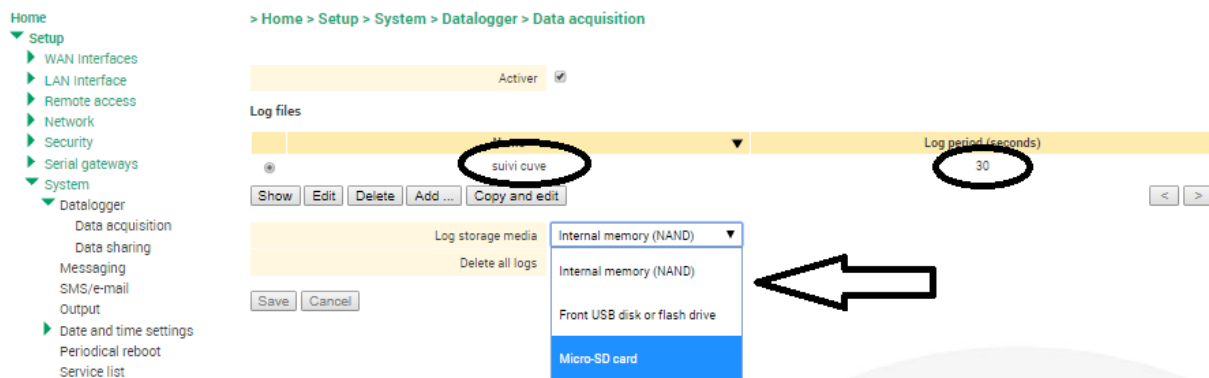
NB: to create the file, do not forget to click on "Enable" and "Save".



- **Extract from a CSV file (separator retained: ";")**

```
Time;Niveau_cuve (%)
2017-11-06 16:43:00;134
2017-11-06 16:43:30;134
2017-11-06 16:44:00;134
2017-11-06 16:44:30;134
2017-11-06 16:45:00;134
2017-11-06 16:45:30;134
2017-11-06 16:46:00;134
2017-11-06 16:46:30;5
2017-11-06 16:47:00;0
```

You can also choose the archive file location (internal memory, USB flash drive, microSD card).



- **How to share an archive file**

You can send the file as an e-mail attachment or FTP.

By clicking on "data sharing" you can choose how to send the data.

> Home > Setup > System > Datalogger > Data sharing

Save Cancel Page has unsaved changes Page has invalid input

FTP Server

A FTP server can be enabled on the device.

Enable the FTP server ☒

FTP server username

FTP server password Passwords match

FTP server security

FTP transmits the password in cleartext over the network. Anyone listening will see it and can use it to access your server. It is therefore recommended to use TLS to encrypt your FTP sessions. The WinSCP client can be used to establish secured FTP connections. To enable the FTP server on the WAN interface, you have to enable TLS.

Enable TLS ☒

Enable on WAN interface ☐

FTP Client

The device can put files on an FTP server every day.

Enable the FTP client ☐

Synchronize now

E-mail log sending

The device can send variables log files by e-mail every day.

Enable ☒

Address

Hour of the day when to send e-mail (0 to 23, step 1)

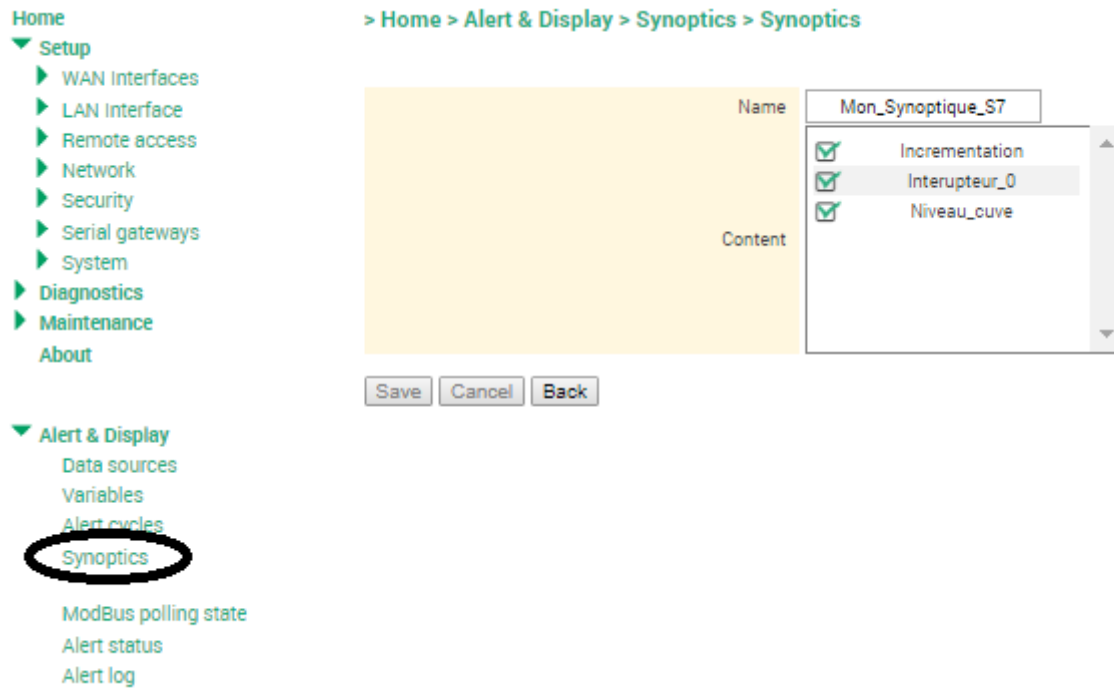
Send now

Save Cancel

9) DISPLAY MODE CONFIGURATION (HISTOGRAM AND DYNAMIC VISUALIZATION OF A VARIABLE)

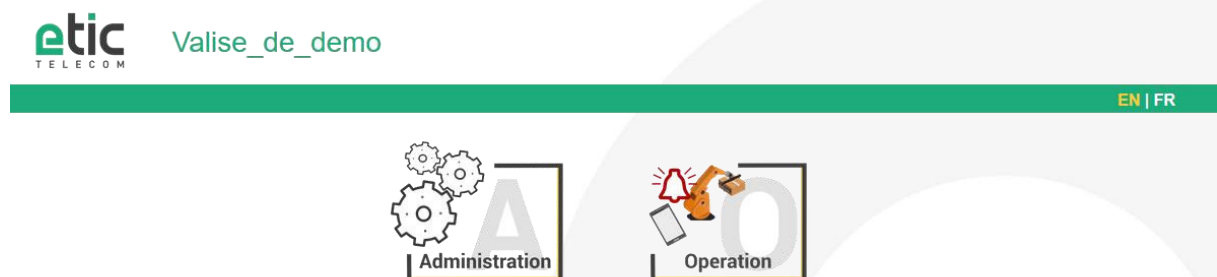
To create a viewable histogram, you first need to create a synoptic by choosing variables that should be displayed.

- **Creating a synoptic**



- Access to the operating mode (variable monitoring and histogram display)

Return to the home page of the configuration menu and click on “operation”



Enter the login and password that you have been assigned as a remote user and click on "Log in".

Please identify yourself

This area provides remote users access to the web portal and to Alert&Display if the option is available.

Only remote users registered in this device are allowed in this area

Username

CCH

Password

Log in

Your credentials and your data are protected by SSLv3/TLSv1

Click on the "Collect & Alert" icon.

By clicking on "Datalogger" you can download (.zip file) the file to attach to your e-mail for exploitation by a third party or display the histogram of values.

Alarm

Datalogger

Download all variables

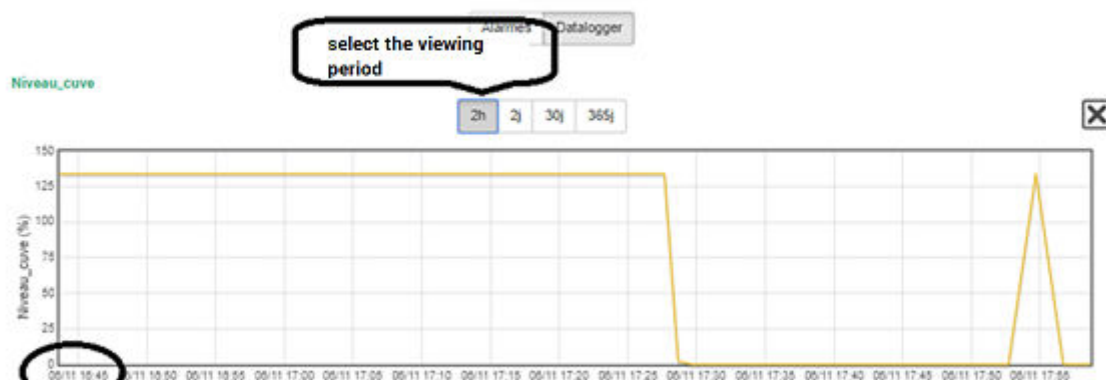
suivi cuve

Niveau_cuve

click here and generate a zip file

click here and generate a histogram

- Visualization of the histogram



Date and time display

By clicking on "Alarms", you can simply monitor your industrial process by:

1. visualizing in real time the values of the variables
2. acknowledging a triggered alarm
3. visualizing the alarm log.

- **Dynamic visualization of variables**

Alarms Datalogger

Viewer Alarms Log

Mon_Synoptique_S7	
Incrementation	35
Interupteur_0	on
Niveau_cuve	0%

- **Alarms to acknowledge.**

Alarms Datalogger

Viewer Alarms Log

Niveau_cuve

Current value 0%

Date 2017-11-13 17:29:47

Acknowledge

by clicking here, you have the possibility to acknowledge an alarm received

- **Log file**

Alarms Datalogger

Viewer Alarms Log

Niveau_cuve	
Alarm time:	2017-11-13 17:29:47
Acked on:	2017-11-13 17:34:47
Acked by:	Chaussonnier PC

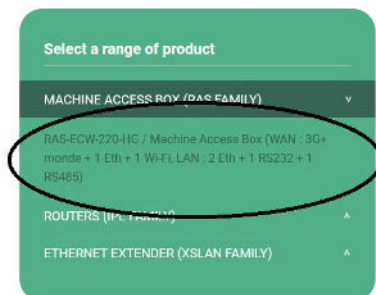
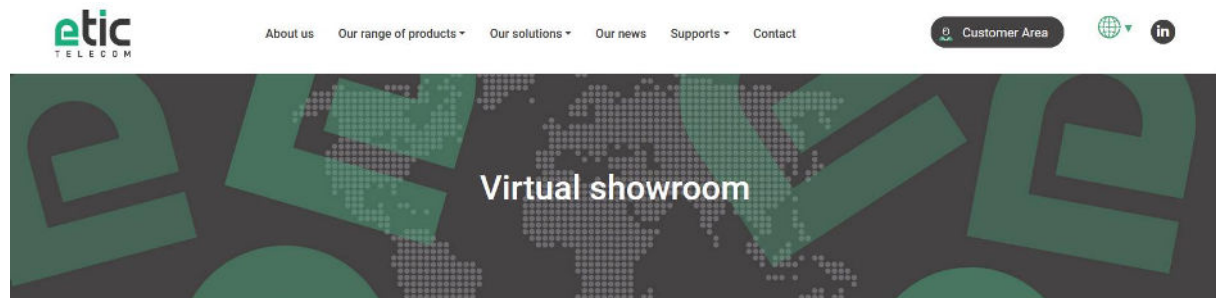
pollerr	
Alarm time:	2017-11-09 09:18:24
Acked on:	2017-11-13 17:29:36
Acked by:	Chaussonnier PC

10) HOT LINE SUPPORT DURING YOUR TEST

Feel free to contact +33 4 76 04 20 05 or hotline@etictelecom.com.

11) VIRTUAL SHOWROOM (AVAILABLE FROM THE HOME PAGE)

By surfing on our WEB site www.etictelecom.com (Support/Virtual Showroom) you can learn how to configure a Machine Access Box (namely a RAS product).



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38240 Meylan

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