

APPLICATION NOTE

APNUS036 How to Configure Alarms and Events on Acksys Router December 2023

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1. ALARM and Events Glossary and Term

Event -. Notification generated by the system during normal running which need to be sent to Users

Alarm - Notification generated when the system detect a configured event

SNMP - Simple Network Management Protocol, an Internet Standard protocol for collecting and organizing information about managed devices on IP networks.

Trap – a SNMP trap/notification sent when an event occurred.

WaveManager - A monitoring server for monitor, troubleshoot and manage ACKSYS hardware network deployments locally or remotely.

SIM - Subscriber Identity Module.

LTE- Long Term Evolution

PLC- Programmable Logic Controllers

IO- Input Output

GUI: A graphical user interface is a digital interface in which a user interacts with graphical components

2. Introduction

An alarm is a critical part of any process, system or machinery, etc. It can prevent you from an incident and provide information about what is happening.

Traps/Notifications can be used to alerts the user when a specific event occurs (signal strength changes, SIM switch occurs, mobile data limit is reached, etc.).

In this application note, we will learn how to create an Alarm and Event with basics example of configuration.



3. Alarms and Events Architecture

In this application note, we will explain in detail the basic steps required to configure Alarm and receive Notification on Acksys Router.

Example of alarms/events usage:



Before we begin, let's overview the configuration that we are attempting to achieve and the prerequisites that make it possible in this application note :

- Any type of Acksys Router
- A WaveManager Server
- Laptop to configure the router on which Mib Browser is installed



4. Alarms & Events parameters

WaveOs software includes several predefined alarm conditions that are available immediately after you set up. The conditions under which alarms are generated, the actions automatically taken by the system to cope with or recover from the failure, and the maintenance actions appropriate in each situation are discussed for each alarm condition.

The following table described alarm conditions predefined in WaveOs:

4.1 Predefined Alarm Conditions in WaveOs

List of event	Description
Ethernet link	The state is up when the link is up on the physical interface.
Wireless link (AP mode)	The state is up when one client is connected on any of the access points running on the product.
Wireless link (Client mode)	The state is up when the bridge is connected to one Access point.
Cellular Link	The state is up when the cellular link is established
Wireless client assoc	The event can be linked only with the SNMP trap action. It sends a notification when a client associates or dissociates with one access point.
Digital input	The state is 1 when the digital input is active. Some products, such as the Airbox, have several Digital Input.
Input Power	The state is on, when the input power is powered.
Temperature limit	The event is triggered when the temperature exceeds the trigger.
VRRP state change	The event is triggered when VRRP state enters or leaves the given value.
DFS state change	The event is triggered when the DFS status changed
Cold start	The event is triggered when the product has finished booting
Ping Failure	An ICMP ECHO Request (ping) is periodically sent to a remote host. If no ICMP ECHO Response is received for several consecutive periods, the event is triggered.
GNSS state	The event is triggered when the GNSS position stabilizes and can be queried. It deactivates when the position fixing is lost.
SNMP trigger	The event is triggered by the following SNMP OIDs:
	 adminEventEnable enables action for the named alarm
	 adminEventDisable disable action for the named alarm
	 adminEventTrigger execute action for the named one-shot alarm
Security alert	This event is intended to notify the user when the product firmware detects a security threat. Currently only Rogue AP detection service is implemented. This event doesn't need to be disabled; it is fired as often as necessary.
RSSI weak signal	The event is triggered when the Performs when signal strength value (RSSI in dBm) falls below a specified threshold
Mobile data limit	The event is triggered when switch when the SIM card reaches the specified data limit for the designated period
No Network	The event is triggered when the SIM card cannot find an operator to connect to
Network denied	The event is triggered when the when access to a network is denied (usually



	by an operator).
Roaming	The event is triggered when the roaming conditions are detected (i.e., when the SIM card connects to a foreign operator).
Data connection	The event is triggered when the router doesn't receive an ICMP echo from a specified host address

4.2 Types Of Alarm Reactions

There are different type of Alarm reactions available in WaveOs for a specific automated action that happen as a result of an Alarm Reaction described in the following table.

List of event	Description
Alarm output	This action only exists in some products. Some products, such as the Airbox, have several digital outputs that can be programmed as alarms. When triggered, the alarm contact will be activated as specified in the product
SNMP trap	The SNMP Trap action, when triggered, will send the relevant trap to the specified manager address using the specified community
Wlan shutdown	the Wlan shutdown action, when triggered, will shut down the associated radio interface
Layer 3 network switching	switch the specified network up or down
Alter VRRP	This action allows priority of a VRRP group to be changed, by applying the offset parameter to the current priority of the VRRP group, and then can be used to causes a switch over from the MASTER to the BACKUP. It is in principle triggered by an SNMP trigger
SIM Switch	This action allows to switch the SIM card in use to the secondary SIM card when the event trigger is reached



5. Alarm & Events Configuration scenarios

In this Application note, we will provide some Alarms/Event usage examples configuration in the hopes of helping you finding an example that you can use.

5.1 Configuring Alarms via Web GUI

WaveOs software includes several predefined alarm conditions that are available immediately after you set up. The conditions under which alarms are generated, the actions automatically taken by the system to cope with or recover from the failure, and the maintenance actions appropriate in each situation are discussed for each alarm condition

5.2 Configuring Temperatures limit and Reaction

In this example, we will monitor the Router temperature with alarms by integrating the data in SNMP Trap MIB Browser.

- Log in to GUI.
 - Setup > Service > Alarm/Events
 - o Navigate to the Action parameters syntax and click Temperature limit in order to check the syntax
 - o Navigate to the Events trigger syntax and click "SNMP trap" in order to check the syntax
 - Enter the following information for the new Event:
- a. Enter the symbolic name for your event (alphanumeric string, no spaces allowed) : Temperature_limit
- b. Click on add to Make sure that reaction created
- c. From the **Event Type** drop-down list, select **SNMP Trigger**.
- d. From the Events Trigger configure the expected temperature to send the trap: 20 in our example.
- e. From the Actions Type drop-down list, select SNMP Trap
- f. Configure the Extra Parameters : 192.168.0.220, public
- g. Click on save and apply to enable this Event

To transmit the content of an alarm message to an SNMP-compliant third-party NMS, the Management Layer converts that information into an SNMP trap.MIB Browser.

EVENTS SETTINGS	5											
The keywords appe	earing in the parameters are not case	e sensitive.										
			Eve	ents trigger	syntax							
Ethernet link SNMP trigger	Vireless link Wireless client assoc Security alert	c. Digital input	Input pow	/er Temp	erature limit	VRRP state	e change	DFS sta	ate change	Cold start	Ping fai	ilure
Lan link												
Syntax: <up down<br="" or="">Example: down, LAN</up>	n>, <lan1 lan2="" or=""></lan1>											
Alarm output	Action parameters syntax Alarm output SNMP trap Wlan shutdown L3 network toggle Alter VRRP											
The clore output of	taua anan (activa) udila anu attacha	d avent is active										
Parameter #1: Alarm numb	ber to act upon.	a event is active.										
NAMES	EVENTS	EVENTS TRIGGER	ON DELAY	OFF DELAY	ACTIO	NS F	Param.#1	PARAM.#2	EXT	RA PARAMS		
Temperature limit	Temperature limit	20	0	0	SNMP tran	~			192 168 0	220 public	-	×
. cmperature_mm	remperature innic	20	<u>v</u>	<u> </u>	onine uap	·			192.100.0	.zzo,publiq		

NOTE: Note that you must have SNMP functionality in your environment to monitor SNMP variables.



Temperature events are for products supporting this feature.

Notification: Temperature Limit Alarms via SNMP Trap

We will use The IReasoning MIB browser to check SNMP requests to retrieve SNMP agents' data, or make changes to agents but in this test, we will use Trap Receiver for Alarm notification.

File Edit	Operations Tools Bookmarks Help								
Address: 192	.168.0.150 V Advanced OID: .1.3.6.1.4.1.280	7.11					Opera	tions: Walk	 Go
SNMP MIBs		Result	Table	Trap Receiver ×					
iso.org	.dod.internet.private.enterprises.acksys	Opera	ations To	pols					
🕀 🔄 net	work-product	O) 🕅 🏹	*					
ad ad	sysProductID	Descrip	tion		Sour	ce	Time	Severity	v
Aler management A		temp3	CreededAlarm		192.1	48.0.150	2823-18-25 11-01-54		
		Source Trap C Varial	e: DID: ele Bindings	192.168.0.150 .iso.org.dod.internet.priva	Timestamp: ite.enterprises.acksys.noti	2 hours 45 m fication.tempExceeded/	ninutes 50 seconds Alarm	SNMP Version: Community:	2 public
DID	notification .1.3.6.1.4.1.28097.11	- ^ Name		13.6.1.2.1.1.3.0					
MIB	ACKSYS-MIB	Value		[TimeTicks] 2 hours 45 r	ninutes 50 seconds (9950	08)			
Syntax									
Status		- Name:		snmpTrapOID					
DefVal		Value		[OID] tempExceededAlar	m				
Indexes		Name: Value		.iso.org.dod.internet.priva [OctetString] Temperatur	ite.enterprises.acksys.noti e_limit	fication.notificationBind	fings.nbEventName.0		
Descr		~ Descri	ption:	Temperature alarm. The t	emperature exceeds the g	iven trigger [FW:E2148	AC.1:2.8.0.1]		

5.3 Configuring Wireless client association, disconnection Alarms and Reaction

In this example, we will configure the router in Client role to send a Trap notification when a client associates or dissociates with an access point.

- Log in to GUI if required.
- Setup > Service > Alarm/Events
- Navigate to the Action parameters syntax and click Wireless client association in order to check the syntax
- Navigate to the Events trigger syntax and click "SNMP trap" in order to check the syntax
- Enter the following information for the new Event:
- a. Enter the symbolic name for your event (alphanumeric string, no spaces allowed) : Wireless_client_association
- b. Click on add to Make sure that reaction created
- c. From the Event Type drop-down list, select Wireless client association .
- d. From the **Events Trigger: Connect**
- e. From the Actions Type drop-down list, select SNMP Trap
- f. Configure the Extra Parameters : **192.168.0.220, public**
- g. Click on save and apply to enable this Event

Wireless_client_association	Wireless client assoc. 🗸	•	connect	0	0	SNMP trap	~	192.168.0.220,public	×
Wireless_client_disconnect	Wireless client assoc. V	•	disconnect	0	0	SNMP trap	×	192.168.0.220,public	×

To transmit the content of an alarm message to an SNMP-compliant third-party NMS, the Management Layer converts that information into an SNMP trap.MIB Browser.



				Eve	ents trigger	syntax							
Ethernet link V SNMP trigger	Vireless link Wireless Security alert	s client assoc.	Digital input	Input pow	rer Temp	erature limit	VRRP stat	te change	DFS sta	te change	Cold start	Ping fa	ílure
Lan link													
<up dow<br="" or="">xample: down, LAN</up>	n>, <lan1 lan2="" or=""></lan1>												
	SNMP trap Wan shu	tdown L3 n	etwork toggle	Action	n paramete	rs syntax							
Alarm output			33										
Alarm output	tays open (active) while	any attached e	event is active.										
Alarm output	tays open (active) while per to act upon.	any atlached e	event is active.										
Alarm output 4 Alarm output 4 Alarm output s Parameter #1: Alarm numb Alarm numb	tays open (active) while per to act upon. EVENTS	any attached e	event is active.	ON DELAY	OFF DELAY	ACTIC	NS	PARAM.#1	PARAM.#2	EXT	TRA PARAMS		

NOTE: Note that you must have SNMP functionality in your environment to monitor SNMP variables.

We will use The iReasoning MIB browser to check SNMP requests to retrieve SNMP agents' data, or make changes to agents but in this test, we will use Traper Receiver for Alarm notification.

5.4 Configuring Alarm for RSSI Weak Signal alert

In this test, an Airbox Cellular Router is configured with all the necessary information to receive a good RSSI signal. We will check if we receive Notification from SNMP Manager as trap if the signal strength value (RSSI in dBm) falls below a specified threshold with a fail delay.

First of all let monitoring the Cellular RSSI status in **Status → Cellular**

DEVICE INFO	CELLI	AD STATUS							
NETWORK	CELLOI	LAR STATUS							
SECURITY	Warning: s	canning will break established	d connection:	s which use t	hat radio.				
WIRELESS	Cellula	r interfaces							
CELLULAR			-		-		INFRACTOLICTURE		
SERVICES	RADIO	MODEM INFORMATIONS	ATTACHED	OPERATOR	BASE STATION	ACCESS	BAND	SSI BER	SCAN
LOGS				MCCIMINC	LACICID	TECHNOLOGY	CHANNELS		
	Cellular	Password accepted IMSI: 208150018415031 IMEI: 866758042298527 model: EC25 fev A6.3 EMEA band: LTEFDD: B1/B3/B5 /B7/B8/B20 LTETDD: B3/B40/B41 WCDMA: B1/B5/B8 GSM: B3/B8	home	Free Free 208/15	3040 / 108964119	gsm WCDMA	UMTS WCDMA 900 ARFCN: 3037	€	Scan

As seen on the screenshot above, the Cellular RSSI is -97dBm before performing our notification test after for the Event WEAK RSSI.

The **Create alert** on RSSI weak available for SIM switch for router in dual SIM Card , in this example, let connect in GUI in (**Tools** \rightarrow **Services** \rightarrow **Alarms /Event** \rightarrow **Services** \rightarrow **RSSI**.



NAMES	EVENTS	EVENTS TRIGGER	ON DELAY	OFF	ACTIONS	PARAM.#1 PARAM.#2	EXTRA PARAMS	
testrssi	Rssi weak sign 🗸	6,-104	0	0	SNMP trap v		192.168.1.46,public	1

Field	Syntax Value Des	scription
On RSSI weak signal	<fail delay="">, <limit> Ex: 6,-104</limit></fail>	<fail delay="">: Fail delay in seconds before siwtching, <limit>:Minimum signal limit in dBm</limit></fail>

NOTE: The Router Cellular configuration is not part of this application note and the RSSI Weak alarm feature is only available on WaveOS 4.22.0.X release.

Notification: RSSI Weak via SNMP Trap

The SNMP service acts as an internal alarm listener and sends traps (or notifications) to any registered SNMP trap listener.

The SNMP Trap action when triggered, , the SNMP managed devices actively notify the NMS (Network Management System: MIB Browser, IReasoning in this Test), instead of waiting for the polling of NMS.

To Simulate a weak RSSI, in this test we pull out the Cellular Main antenna on the router to obtain an RSSI limit. As soon as the limit is reached, let check if a trap is sent to MIB browser as notification in cellMetricsAlarm.

Result Table	Trap Receiver ×										
Operations	Tools										
🔘 🙆 🎦 🏹	1 %										
	Description	Source	Time	se Se		erity					
Source: Trap OID: Variable Bind	192.168.1.253 Timestamp: cellMetricsAlarm lings:	2 hours 38 minute	s 2.32 seconds	SNMP Ve Commun	ersion: uity:	2 public					
Name: Value:	.1.3.6.1.2.1.1.3.0 [TimeTicks] 2 hours 38 minutes 2.32 seconds (948232)										
Name: Value:	snmpTrapOID [OID] cellMetricsAlarm										
Name: Value:	nbMetricsType.0 [Gauge] nonetwork (3)										
Name: Value:	nbEventName.0 [OctetString] testnetw										
D			0.041				ï				

Description: Cellular metrics related alarm [FW:E2148.AC.1:4.22.01]

NOTE: These traps are automatically generated by the SNMP agent when certain predefined conditions occur (if the agent is enabled).





5.5 Creating Ethernet Link alert

In this test, we will configure The router in AP role to ping 172.24.4.1 and 172.24.4.17 every second. If there is no response for 5 consecutive pings (i.e. 5 seconds with no responses), the AP sends an SNMP trap to 172.20.2.129.

This will allow you to be notified very quickly on both sides when a problem arises.

The **Create alert** on Ethernet Link to be notify when the link is up on the physical interface. let connect in GUI in (**Tools** \rightarrow **Services** \rightarrow **Alarms /Event** \rightarrow **Ethernet Link** and respect the instruction provided below in our test.

EVENTS SETTI	NGS								
The keywords	appearing in the parameters are not case	e sensitive.							
			Eve	nts trigger syntax					
Ethernet link Security aler	Wireless link Wireless client assoc	. Digital input Inp	ut power Tem	perature limit VRRP st	ate change	DFS state of	change	Cold start Ping failure SNMP	trigger
Lan link									
Syntax: <up or<br="">Example: down,</up>	down>, <lan> LAN</lan>								
Alarm output	SNMP trap Wian shutdown L3 i	network toggle Alter	Action	ı parameters syntax					
The alarm out	put stays open (active) while any attached	t event is active							
Parameter #1 Alarm I	number to act upon.								
NAMES	EVENTS	EVENTS TRIGGER	ON DELAY OFF	DELAY ACTION	IS	PARAM.#1	PARAM.#2	EXTRA PARAMS	
PingClient	Ping failure 🗸	192.168.1.209,1,!	0	SNMP trap	~			192.168.1.209,public	×
		Add							
Enter a symbol	lic name for your event (alphanumeric strino, no space	es allowed)							

Field	Syntax Value Des	scription	
Ethernet Link	<up down="" or="">, <lan1 lan2="" or=""></lan1></up>	Monitor LAN1 or LAN2 physica performing a ping	al Interface by
	Ex: Down,LAN1		

5.6 Creating Wireless Association alert

In this test, we will configure The router in AP role to ping 172.24.4.1 and 172.24.4.17 every second. If there is no response for 5 consecutive pings (i.e. 5 seconds with no responses), the AP sends an SNMP trap to 172.20.2.129.

This will allow you to be notified very quickly on both sides when a problem arises.

The **Create alert** on Ethernet Link to be notify when the link is up on the physical interface. let connect in GUI in (**Tools** \rightarrow **Services** \rightarrow **Alarms /Event** \rightarrow **Wireless Association** and respect the instruction provided below in our test.



1	EVENTS SETTINGS												
Γ	The keywords appearing in th	e parameters are not case sensitive.											
				Ever	nts trigger	syntax							
	Ethernet link Wireless line Security alert	Wireless client assoc. Digital	input Input pow	er Temp	perature limi	VRRP state chang	ge	DFS state	change	Cold start	Ping failure	SNMP trig	ger
	Wireless client association												
	Syntax:												
	<connect> or <disconn< th=""><th>nect></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></disconn<></connect>	nect>											
	connect												
				Action	narameter	s syntax							
				, Action	parameter	a ayntax							
	Alarm output	vian shutdown L3 network tog	gie Aiter VRRP	l									
	Alarmoutput												
	The alarm output stays open	(active) while any attached event is a	ictive.										
	Parameter #1:												
	Alami number to act u	pon.											
	NAMES	EVENTS	EVENTS TRIGGER	ON DELAY	OFF DELAY	ACTIONS		PARAM.#1	PARAM.	#2	EXTRA PARA	MS	
	PingClient	Ping failure v	192.168.1.209,	0	0	SNMP trap	~			192	.168.1.209,put	olic	×
	Wireless link	Wireless link	down WiFi	0	0	13 network toggle	×	un v	PUBLIC	~			×
		WINCIGSS IIIIN	uomi, min	<u> </u>		LS NOLWOIK LOGGIE	_	up *					
1	Wireless_client_association	Wireless client assoc.	connect	0	0	Wlan shutdown	~	WiFi 🗸					*

5.7 Digital alert

These alarms are triggered when the associated digital input changes state.

You can configure the alarm to be active when the digital input is on or off, depending on the alarm's purpose.

For example, if you used a digital input to monitor a breaker that is always supposed to be on, you would set the alarm to be active when the breaker has tripped.

NOTE: To stop a digital alarm from being displayed, set the alarm priority to Info Only. Disabling the digital alarm will disable all alarming functions of the associated digital input.

You must configure nominal voltage for these alarms to function.

The Threshold setup register in the Transient module defines what voltage disturbance magnitude should be considered as transient activity. Threshold is interpreted as a percentage of the nominal system voltage, plus 100. For example, if you want transients recorded when voltage deviates from nominal by 20%, enter 120 into the Threshold setup register.



6. Managing Alarms via SNMP

The purpose of using SNMP Traps for alerting alarms is that they trigger automatically rather than waiting for a status request from the manager.

The table below lists the available ACKSYS SNMP traps under the OID .1.3.6.1.4.1.28097.11 (notification).

Event name	Notification name	OID
LAN link	linkAlarm	.1.3.6.1.4.1.28097.11.1
Wireless link	linkAlarm	.1.3.6.1.4.1.28097.11.1
Input power	powerAlarm	.1.3.6.1.4.1.28097.11.3
Digital input	digitalInput	.1.3.6.1.4.1.28097.11.4
Temperature limit	tempExceededAlarm	.1.3.6.1.4.1.28097.11.5
Wireless client assoc.	clientLinkAlarm	.1.3.6.1.4.1.28097.11.6
VRRP state change	vrrpAlarm	.1.3.6.1.4.1.28097.11.7
SIM Switch	CellMetricAlarm	.1.3.6.1.4.1.28097.

7. Predefined Alarms in WaveManager

WaveManager Server includes several predefined alarm conditions that are available immediately for pro-active monitoring. These alarms are not generated by the router but by policies defined in the WaveManager:

List of Alarm	Description
Not Reachable	The alarm will be triggered when a product is no longer accessible for a time greater than the defined value
High or Low threshold	This alarm is only applicable to devices in client mode, and is triggered when the signal level goes above or below the predefined threshold.
Configuration change	Triggered following a modification of the configuration of a product
Firmware change	Triggered when the version of WaveOS installed on a product has changed
New product	Triggered upon detection of a new product
Telemetry down	This alarm is triggered when a product has not sent telemetry messages for a time greater than the value defined
Roaming	This alarm is triggered when a product has not roamed to another AP



7.1 Configuring Alarms via WaveManager

• Log ≡	in to Wa	aveMa	nager if r	equired					🕚 🌲 🛞 All	support 🔋
	*	New 0	\$	On line 1		New config	Warr 0	ning st	Unreachable 16	
Select All	⊁ → Mod	el 🕶		٩	State : On line 🗙		5	0 per page 🔻 (0-1/1 ≪ < >	≫ Ⅲ
	Group	Model		Serial	Product Id	Firmware	Version	IP Address	Description	Roles
•			AirWan/17	2114201d	00001D33B03B	E2148.AC.1	4.16.9.1	192.168.1.253	B User-definable	⁽ ጽ ⁾ 1

• Setting > Alarm > Create

- o Redirection to Section " Create a new alarm setting"
- Enter the following information for the new Alarm:
 - a. From the Applied to Type drop-down list, select A product
 - b. From the Product Id : drop-down list, select .192.168.1.253 -AirWan
 - c. From the Actions Type drop-down list, select Not reachable
 - d. Configure Unreachable time for: 0
 - e. Click on save and apply to enable this Event

=					O	🌲 🔏 All	support 🛔
Settings							
NETWORK INTERFACES	Applied Te	Create a new alarm setting	×	Value	Active	Create	Remove All
Preferences		Create a new alarm setting					
Groups/Zones Dashboards		Applied to : A product Product Id : 192.168.1.253 - AirWan/17	v				
Syslogs		Type : Not reachable	~				
Alarms							
Notifications		Save					
Users							
Database							

A Popup to confirm the success of the creation



=				0 🔺	\lambda All support 🖠
Settings					
Network				Cre	Remove All
Operational	Applied To	Туре	Value	Active	
Preferences	00001E87EB44	Not reachable	For 2 mn		***
Groups/Zones					
Dashboards					
Syslogs					
Alarms					
Notifications					
Users					
Database			SUCCESS A new alarm setting has	been created.	×

7.2 Alarm Notification (Popup)

To perform the test, let disconnect the Router AirWan (**192.168.1.253**) on which the Alarm is configured in order to check if there is any event during 2mn.

- Disconnect Ethernet Wire on the AirWan connect to WaveManager Server
- Wait for 2 Mn
- Reconnect Ethernet Wire on the AirWan connect to WaveManager Server
- Click on Alarm Icone Wait for 2 Mn

After 2Mn disconnection, a Pop-up is shown for the Alarm create and a new notification is shown on the Alarm icone

=				G Å ¹	🗞 All support 🖠
Settings					
Network Nterfaces				Cr	eate Remove All
Operational	Applied To	Туре	Value	Active	
REFERENCES	00001D33B03B	Not reachable	For 2 mn		***
Groups/Zones					
Dashboards					
Syslogs					
Alarms					
Notifications					
Jsers					
Database			NOT REACHAB	LE	x
		Warning! You must select a network			t reachable for



7.3 Notification Reports

≜1

In WaveManager, **Click on Alarm Icon** on the Main products view page to be redirected to the Notification Report page. This page help you to manage notifications if any alarm trigger is raised.

≡				🕚 🌲 🌲 All support 🖠
Notificatio	N REPORTS			🍄 Alarm settings
🖋 🔹 Product Id 👻	Search by keywords	۹	50 per page 🔻 0 - 1 /1 《 < >	Mark all as read Remove all
Select All	Product Id	Alarm type	Trigger date	Occurrences number
	00001D33B03B	NotReachable	26/10/2023 13:19:50	1

The same notification could be sent to via Email by SMTP (SNMP configuration is not part of this application):

To receive Alarm notification Via Email, please follow this step to perform the SMTP configuration: For this configuration, let connect on WaveManager in GUI after authentication in Setting \rightarrow Notification- \rightarrow Enable receipt of email alarm notifications \rightarrow Fill the necessary information with your custom Mail server \rightarrow Click Save

- Setting > Notification > Alarm Notifications
- Click on "Enable receipt of email alarm notifications"
- Enter your custom Mail Server complete following information :
- Click Save

larm r	otificatio	ons				
] Enal	ole desktop	alarm notifications				
Enal	ole receipt c	f email alarm notifications				
rom	acksysever	it@acksys.fr				
	wavemana	ger@acksys.fr				
tp C	onfigura	tion				
mtp S	erver	snmp.acksys.fr				
ntp F	ort	465				
Conr	ection Test					
Use	a secure SS	_ connection				
Req	uire authent	ication				
Userna	me notific	ation				
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Support : https://support.acksys.fr