

Malima



Orange

Alarm Interface Description

Reference: DVS107-WSDL-SCA-V2.docx S2F20

Date: 16/03/2016

Description of the document

Ownership						
Client	Prange					
Project title	alima					
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Version history

IC Version	GooRooCoo WSDL version Operation					
2.2			From v1.0: - Alarm thresholds extended to 64 bits, - ManageAlarms operation added.	06/09/2012		
2.3			- Alarm traffic on ALL_ORIGIN (unitary and global threshold trigger) - CreateTrigger request: Add All_Origin field for unitary and global threshold trigger UpdateTrigger request: Add All_Origin field for unitary and global threshold trigger ListTrigger request: Add the showAllOriginTrafficTriggers parameter - ListTrigger response: Add All_Origin field for unitary and global threshold trigger GetAlarms request: Add the showAllOriginTrafficAlarms parameter - GetAlarms response: Add the callOrigin field for unitary and global threshold trigger SearchAlarms request: Add the showAllOriginTrafficAlarms parameter - SearchAlarms response: Add the callOrigin field for unitary and global threshold triggerLazyMachine triggers and alarms - CreateTrigger request: Add LazyMachine trigger - UpdateTrigger request: Add LazyMachine trigger - ListTrigger response: Add LazyMachine trigger ListTrigger response: Add the showMachineTriggers parameter - ListTrigger response: Add the showMachine trigger GetAlarms request: Add the showMachine trigger GetAlarms response: Add the LazyMachine trigger SearchAlarms response: Add the LazyMachine trigger.	04/04/2013		
2.4			Add lazyMachine value in the TriggerType enumeration	17/04/2013		
2.5			Notification by Mail - CreateTrigger request : Add boolean notificationByMail - UpdateTrigger request : Add boolean notificationByMail - ListTrigger request : Add boolean showExtendedTriggers - ListTrigger response : Add boolean notificationByMail - GetAlarms request : Add boolean showExtendedAlarms - GetAlarms response : Add mailNotificationAdress, mailNotificationDate, mailNotificationResultCode, mailNotificationResultMessage - SearchAlarms request : Add boolean showExtendedAlarms - SearchAlarms response : Add mailNotificationAdress, mailNotificationDate, mailNotificationResultCode, mailNotificationResultMessage	30/04/2013		
2.6			Silent Machine - CreateTrigger request : Add SilentMachine trigger - UpdateTrigger request : Add SilentMachine trigger - ListTrigger response : Add SilentMachine trigger - GetAlarms response : Add the SilentMachine alarm - SearchAlarms response : Add the SilentMachine alarm	17/05/2013		
S2F7		2.7	Add TRAFFIC_SILENT_MACHINE value in the TriggerType enumeration	23/05/2013		
S2F8		2.8	No modification in the Excel file. Just change the WSDL version -> 2.8 Modification done in the xsd : Correct the choice in the listTriggerRequest. Booleans must not be a part of the choice			
S2F9		2.8	Update List trigger (shift in the column of types). Remove highlighting. Fix mistakes in CallOrigin fields descriptions,	02/07/2013		
S2F9		2.9	Add M2M Subscription Status change trigger (M2M_SUBSCRIPTION_STATUS_TRIGGER) - CreateTrigger request : Add SubscriptionStatusChangeCriteria - UpdateTrigger request : Add SubscriptionStatusChangeCriteria - ListTrigger response : Add SubscriptionStatusChangeCriteria and showSubscriptionStatusChangeTriggers	08/07/2013		



S2F10		2.10	Add M2M Subscription Status change Alarm - GetAlarms request : Add showSubscriptionStatusChangeAlarms - GetAlarms response : Add subscriptionStatusChangeCriteria - SearchAlarms request : Add showSubscriptionStatusChangeAlarms - SearchAlarms response : Add subscriptionStatusChangeCriteria Add Crazy Machine Trigger and Alarm - CreateTrigger request : Add CrazyMachine trigger - UpdateTrigger request : Add CrazyMachine trigger - ListTrigger response : Add CrazyMachine trigger. - GetAlarms response: Add the CrazyMachine trigger. - SearchAlarms request: Add the TRAFFIC_CRAZY_MACHINE trigger type. - SearchAlarms response: Add the CrazyMachine trigger. - Change name of Legend Tab to Common Type - Common Type : Add date type	25/07/2013
S2F11		2.11	Remove M2M Subscription Status change Alarm - CreateTrigger request : Add SubscriptionStatusChangeCriteria - UpdateTrigger request : Add SubscriptionStatusChangeCriteria - ListTrigger request : Add SubscriptionStatusChangeCriteria - ListTrigger response : Add SubscriptionStatusChangeCriteria and showSubscriptionStatusChangeTriggers - GetAlarms request : Add showSubscriptionStatusChangeAlarms - GetAlarms response : Add subscriptionStatusChangeCriteria - SearchAlarms request : Add showSubscriptionStatusChangeAlarms - SearchAlarms response : Add subscriptionStatusChangeCriteria	14/08/2013
\$2F12		2.12	Add M2M Subscription Status change trigger (M2M_SUBSCRIPTION_STATUS_TRIGGER) - CreateTrigger request : Add SubscriptionStatusChangeCriteria - UpdateTrigger request : Add SubscriptionStatusChangeCriteria - ListTrigger response : Add SubscriptionStatusChangeCriteria and showSubscriptionStatusChangeTriggers - GetAlarms request : Add showSubscriptionStatusChangeAlarms - GetAlarms response : Add subscriptionStatusChangeCriteria - SearchAlarms request : Add showSubscriptionStatusChangeAlarms - SearchAlarms response : Add subscriptionStatusChangeCriteria	14/08/2013
S2F13		na	Add M2M Subscription Option change trigger (M2M_SUBSCRIPTION_OPTION_TRIGGER) - CreateTrigger request : Add SubscriptionOptionChangeCriteria - UpdateTrigger request : Add SubscriptionOptionChangeCriteria - ListTrigger response : Add SubscriptionOptionChangeCriteria and showSubscriptionOptionChangeTriggers - GetAlarms request : Add showSubscriptionOptionChangeAlarms - GetAlarms response : Add subscriptionOptionChangeCriteria - SearchAlarms request : Add showSubscriptionOptionChangeAlarms - SearchAlarms response : Add subscriptionOptionChangeCriteria	28/08/2013
S2F14		2.13	Modify M2M Subscription Option change trigger (M2M_SUBSCRIPTION_OPTION_TRIGGER) - CreateTrigger request : add optionChangeType - UpdateTrigger request : add optionChangeType - ListTrigger request : add optionChangeType Rename in all methods : optionCodeService into option	12/09/2013
S2F15		2.13	Modify M2M Subscription Option change trigger (M2M_SUBSCRIPTION_OPTION_TRIGGER) - add the change type ALL.	12/09/2013
S2F16		2.13	 remove the change type ALL. Modify M2M Subscription Option change trigger (M2M_SUBSCRIPTION_OPTION_TRIGGER) CreateTrigger request: add optionChangeTypes to store the list of optionChangeType UpdateTrigger request: add optionChangeTypes to store the list of optionChangeType ListTrigger request: add optionChangeTypes to store the list of optionChangeType No modification in the Excel file. Just change the WSDL version -> 2.14 	13/09/2013
S2F16		2.14	Modification done in the xsd : add the triggerType M2M_SUBSCRIPTION_OPTION_TRIGGER	
S2F17	G03R19C00	2.15	Evol BR (Business Rules), add the "businessRules" node on - CreateTrigger request - UpdateTrigger request - ListTrigger response - GetAlarms response - SearchAlarms response	21/08/2014
S2F18	G03R20C00	2.15	Add missing fields in GetAlarm request and SearchAlarm response	13/11/2014



S2F19	G03R25C00	2.16	Evol TOG (Trigger On Group), add the group scope on - CreateTrigger request - UpdateTrigger request - ListTrigger request and response - GetAlarms request and response - SearchAlarms request and response	12/03/2015 30/09/2015
S2F20	G03R28C00	2.17	Evol IN AND OUT Add «communicationWay» (direction of traffic) in : - CreateTriggerRequest, - UpdateTriggerRequest, - listTriggersResponse, - GetAlarmsResponse, - SearchAlarms Add showTriggerCommunicationWay in : - listTriggersResponse, - GetAlarmsResponse, - GetAlarmsResponse, - SearchAlarms	16/03/2016



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1. Introduction

1.1. Subject of the document

The purpose of this document is to define the Alarm web service.

1.2. Legend

Abbreviation	Definition					
[C]	Choice: only one element among the elements marked with this abbreviation is allowed.					
@	Attribute: an element marked with this abbreviation is an XML attribute.					
SCA	Service Customer Alarm					
Scale	Enumerated type. Values are: • HOUR_PER_DAY • DAY_PER_MONTH					
Level	Enumerated type. Values are: HIGH MEDIUM LOW					
TriggerStatus	Enumerated type. Values are: • ENABLE • DISABLE • ALARM_SENT					
TriggerType	Enumerated type. Values are: TRAFFIC_TIMESTAMP TRAFFIC_LOCATION TRAFFIC_BEARER TRAFFIC_BEARER TRAFFIC_UNITARY_THRESHOLD TRAFFIC_GLOBAL_THRESHOLD UPDATE_IMEI TRAFFIC_LAZY_MACHINE TRAFFIC_SILENT_MACHINE TRAFFIC_SILENT_MACHINE TRAFFIC_CRAZY_MACHINE M2M_SUBSCRIPTION_STATUS_TRIGGER TRAFFIC_CRAZY_MACHINE					
OptionChangeType	Possible values are : • ADD • REMOVE					
CallOrigin	Enumerated type. Values are: ROAMING LOCAL ALL_ORIGIN UNKNOWN					
Bearer	Enumerated type. Values are: FIXED_SERVICE_COMPLEMENT VOICE WIFI VALUE_BASED_COMMUNICATION SMS MMS UNKNOWN MULTIMEDIA_PURCHASE GPRS_EDGE UMTS FAX					



Enumerated type.

Values are:

- IN
- OUT
- INOUT

CommunicationWay

• FIXED_SERVICE_COMPLEMENT : OUT

VOICE : OUTWIFI : OUT

• VALUE_BASED_COMMUNICATION: OUT

SMS: OUTMMS: OUTUNKNOWN: OUT

• MULTIMEDIA_PURCHASE : OUT

GPRS_EDGE : INOUT UMTS : INOUT FAX : OUT

1.3. BearerType - unit mapping

Bearer type	Unit
Consumption_Tracking	number
Fax	number
GPRS	byte
UMTS	byte
MMS	number
Multimedia_purchase	number
SMS	number
Unknown	number
Value_based_communication	number
Voice	second
Wifi	second

1.4. Reference documents

N°	Title	Reference	Version





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2. Create Trigger

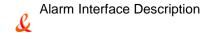
2.1. Request

ateTriage	XML element erRequest	Card	Туре	Description
	rrequest			
cope	neldentifier	11		The line identifiers
1111	leideritilei leideritilei subscriptionNumber	11	string	Subscription number
	[C] simSerialNumber	11	string	SIM serial number
	^[C] devicelmei	11	string	Device IMEI
	[C] deviceSerialNumber	11	string	Device serial number
	lcl deviceUniqueId	11	string	Device serial number Device unique id
	[C] machineSerialNumber	11		Machine serial number
	[C] msisdnVoice	11	string	Voice MSISDN
			atrin a	
	CC	11	string	Country code
	Sn [C] majoda Data	11	string	Subscriber number
	THSISUIDAIA	11		Data MSISDN
	СС	11	string	Country code
	sn	11	string	Subscriber number
	^[C] msisdnFax	11		Fax MSISDN
	cc	11	string	Country code
1001	sn	11	string	Subscriber number
ici cr	ustomerEnvironnementNumber	11	string	The identifier for the customer hierarchy level 2 node (the node_LVL2). If this field is filled, its value is overwritten by the node_ui coming from the authentication header.
[C] CL	ustomGroup	11		The group of trigger based on customized fields
	customLabel	11	string	The label of the group
			-	
	customValue	11	string	The value of the group
iggerCrite	eria	11		The conditions which will be used to check CDRs and raise alar
[C] tra	afficTimestampCriteria	11		The condition for timestamp alarms
	allowedPeriods	11		The periods when CDRs are allowed
	@scale	11	Scale	enum defined hour or day (attribute)
	period	12	Coale	The periods when CDRs are allowed (Bounds are in minutes if s
			into non	is hour_per_day or in days if scale is day_per_month)
	begin	11	integer	The period start
ICI 4	end	11	integer	The period end
tra	afficLocationCriteria	11		The condition for location alarms
	allowedCountriesAndOperators	11		List of countries and operators for which CDRs are allowed (All will raise an alarm)
	country	1n	into a a	The countries set and their operators that are allowed by the trig
	countryCode	11	integer	The code of the country
	operators	01		The operators set found in CDRs that raised the alarm
101	operatorCode	1n	string	The code of the operator
lej tra	afficGlobalThresholdCriteria	11		The condition for global threshold alarms. An alarm will be raise the accumulated value from CDR of all subscriptions of the custo overtook the threshold value for the defined bearer
	^[C] roaming	11		Restriction for roaming CDR
	trafficRestriction	11		
	value	11	positiveLong	The threshold over which an alarm will be raised for this bearer
	bearer	11	Bearer	The restricted bearer
	communicationWay	01	CommunicationWay	The direction of traffic to supervise
	^[C] local	11		Restriction for local CDR
	trafficRestriction	11		
	value	11	positiveLong	The threshold over which an alarm will be raised for this bearer
	bearer	11	Bearer	The restricted bearer
	communicationWay	01	CommunicationWay	The direction of traffic to supervise
	allOrigin	11	22	Restriction for allOrigin CDR
	trafficRestriction	11		
	value	11	positiveLong	The threshold over which an alarm will be raised for this bearer
	bearer	11	Bearer	The restricted bearer
	communicationWay	01	CommunicationWay	The direction of traffic to supervise
[C] tra	afficUnitaryThresholdCriteria	11		The condition for unitary threshold alarms. An alarm will be raise
				the accumulated value from CDR of one subscription of the cust overtook the threshold value for the defined bearer
	^[C] roaming	11		Restriction for roaming CDR
	trafficRestriction	11		
	value	11	positiveLong	The threshold over which an alarm will be raised for this bearer
	bearer	11	Bearer	The restricted bearer
	communicationWay	01	CommunicationWay	The direction of traffic to supervise
	- John Marioution Vay		2 3 Gallottvay	Restriction for local CDR
	[C] local	1 1 1		
	local trafficRestriction	11		TCStriction for local ODIC
	trafficRestriction	11	positival and	
			positiveLong Bearer	The threshold over which an alarm will be raised for this bearer The restricted bearer

communicationWay	01	CommunicationWay	The direction of traffic to supervise
allOrigin	11		Restriction for allOrigin CDR
trafficRestriction	11	***	
value bearer	11	positiveLong Bearer	The threshold over which an alarm will be raised for this bearer The restricted bearer
communicationWay	01	CommunicationWay	The direction of traffic to supervise
rafficBearerCriteria	11	,	The condition for bearer alarms
allowedBearers	11		List of allowed bearers
bearer	1n	Bearer	An allowed bearer
updateImeiCriteria ICI trafficLazyMachineCriteria	11		Active a trigger which raises alarms on IMEI update The condition for lazy machine alarms. An alarm will be raised if th accumulated value from CDR of the subscription in the last period defined is less than the threshold value for the defined callOrigin, bearer type and period
callOrigin	11	CallOrigin	enum defined the CallOrigin list
bearer	11	Bearer	enum defined the bearer list
communicationWay	01	CommunicationWay	The direction of traffic to supervise
value	11	positiveLong	The threshold under which an alarm will be raised for this call ori bearer type and period
period	11	integer	The last number of days for which if the accumulated value from C of the subscription is less than the threshold value for this call or and bearer type ,an alarm will be raised
^[C] trafficCrazyMachineCriteria	11		Conditions for crazy machine alarms. An alarm will be raised if cumulated traffic for given call origin and bearer type exceeds given threshold for the given period
callOrigin	11	CallOrigin	Enum. Defines the call origin
bearer	11	Bearer	Enum. Defines the bearer type
communicationWay	01	CommunicationWay	The direction of traffic to supervise
value	11	positiveLong	The threshold above which an alarm will be raised for this call ori bearer type and period
period	11	integer	The number of days along which traffic is cumulated for given origin and bearer type
^[C] trafficSilentMachineCriteria	11		The condition for silent machine alarms. Alarms will be raised for lines that have no outgoing communications in the last period defin
period	11	integer	The last number of days for which if there is no outgoing communications for a line, an alarm will be raised
^[C] subscriptionStatusChangeCriteria	11		The condition for subscription status change alarms. Alarms will raised if M2M subscription status change (Sim status in Malima)
watchedM2MSubscriptionStatuses	11		The list of M2M subscription status to detect
status	1n	string	M2M subscription status (Sim Status in Malima)
[C] subscriptionOptionChangeCriteria	11		The condition for subscription option change alarms. Alarms will raised when subscription options are added or deleted,
watchedSubscriptionOptions	11		The list of option code services to detect
option	1n	string	Option code service (ofr_services_catalog in Malima)
optionChangeTypes	11		The list of option change type to detect
optionChangeType	1n	String	The option change type defined in trigger criteria. WARNING: The content of the string must match one of the constants defined in the chapter 1.2
cation	11	boolean	Flag to ask a notification at the customer URL
cationByMail	01	boolean	Flag to ask a notification at the customer email address
old.	11	Level	Alarm priority level
old nent	01	integer string	Used to group several triggers Comment/description for this trigger
iessRules	01	Sung	Commonit accompliant for this trigger
slmBusinessRule	01		Business rule dedicated to SLM
requestedStatus	11	String	The SIM requested status that will be applied to all lines linked to raised alarms for this trigger.

2.2. Response

XML element	Card	Туре	Description
CreateTriggerResponse			
triggerldentifier	11	integer	trigger unique identifier





2.3. SOAP faults

2.3.1. MalimaErrorFault

	XML element	Card	Type	Description
faultcode	faultcode		string	Soap fault code
faultstring	faultstring		string	Soap fault error string
MalimaEr	MalimaError			
	code	11	string	Malima error code
	message	11	string	Malima error message

faultstring values: A Malima plateform error has occured.

faultcode value: SOAP-ENV:Client or SOAP-ENV:Server following the problem comes from server or customer message.

Malima code and message values listing:

Code	Message
MALIMA_INTERNAL_ERROR	Une erreur Malima est survenue.
MLM_UNKNOWN_USER	L'utilisateur <username> est inconnu de Malima.</username>
MLM_SOAP_HEADER_ERROR	<soap error="" header="" message="" specific=""></soap>
MLM_QUOTA_EXCEEDED	Il vous reste {quotaRestant}/{quotaTotal} sollicitations autorisées pour ce service.
CANNOT_CONNECT_TO_DATABASE	Accès impossible à la base de données.
MLM_BAD_M2MSUB_LIST	The input M2M subscription status list is empty or contains incorrect status that could not be triggered.
MLM_BAD_OPTION_LIST	The input subscription option list is empty or contains option that could not be triggered.
MLM_DUPLICATE_CODE_OPTION	The trigger could not be created, the following option code are in double : <option code="">.</option>
MLM_BAD_OPTION_TYPE_EVENT	The input option change type could not be triggered.
MLM_DUPLICATE_OPTION_TYPE_EVENT	The trigger could not be created, the following option change type event are in double: <option code=""></option>

<soap error="" header="" message="" specific=""></soap>	<soap er<="" header="" th=""></soap>
Paramètres manquant : <paramètre manquant=""></paramètre>	Paramètres man
Paramètres du Header Soap invalides.	Paramètres du H

2.3.2. UnknownLineIdentifierFault

	XML element	Card	Туре	Description
faulto	ode	11	string	Soap fault code
faults	tring	11	string	Soap fault error string
Unkn	ownLineldentifierError	11		
	lineldentifier	11	string	The unknown line identifier

2.3.3. UnknownCustomerEnvironnementNumberFault

	XML element	Card	Туре	Description
faultco	de	11	string	Soap fault code
faultsti	ing	11	string	Soap fault error string
unkno	unknownCustomerEnvironnementNumberError			
customerEnvironnementNumber 11 stri		string	The unknown customer environnement identifier	

2.3.4. UnknownCustomGroupFault

	XML element	Card	Type	Description
faulto	code	11	string	Soap fault code
faults	string	11	string	Soap fault error string
unkn	ownCustomGroupError	11		
	customGroup	11		The unknown custom group
	customLabel	11	string	The label of the group
	customValue	11	string	The value of the group

2.3.5. TriggerFault

	XML element	Card	Туре	Description
faultcode	Э	11	string	Soap fault code
faultstrin	g	11	string	Soap fault error string
TriggerE	rror	11		
n	nessage	11	string	Trigger error message

2.3.6. TriggerLimitExceededFault

XML element	Card	Type	Description
faultcode	11	string	Soap fault code
faultstring	11	string	Soap fault error string
TriggerLimitExceededError	11		



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triggerLimit	11	string	The limit of triggers per day

3. Delete Trigger

3.1. Request

XML element	Card	Туре	Description
DeleteTriggerRequest			
triggerldentifier	11	integer	trigger unique identifier

3.2. Response

	XML element	Card	Туре	Description
De	eteTriggerResponse			
	deletedTriggerldentifier	11	integer	trigger identifier deleted

3.3. SOAP faults

3.3.1. MalimaErrorFault

	XML element	Card	Type	Description
faultcode		11	string	Soap fault code
faultstring		11	string	Soap fault error string
MalimaEr	ror	11		
	code	11	string	Malima error code
	message	11	string	Malima error message

faultstring values : A Malima plateform error has occured.

faultcode value: SOAP-ENV:Client or SOAP-ENV:Server following the problem comes from server or customer message.

Malima code and message values listing:

Code	Message
MALIMA_INTERNAL_ERROR	Une erreur Malima est survenue.
MLM_UNKNOWN_USER	L'utilisateur <username> est inconnu de Malima.</username>
MLM_SOAP_HEADER_ERROR	<soap error="" header="" message="" specific=""></soap>
MLM_QUOTA_EXCEEDED	Il vous reste {quotaRestant}/{quotaTotal} sollicitations autorisées pour ce service.
CANNOT_CONNECT_TO_DATABASE	Accès impossible à la base de données.

<soap error="" header="" message="" specific=""></soap>
Paramètres manquant : <paramètre manquant=""></paramètre>
Paramètres du Header Soap invalides.

3.3.2. UnknownTriggerldentifierFault

XML element	Card Type		Description		
faultcode 11 string Soap fault code		Soap fault code			
faultstring	11	string	Soap fault error string		
UnknownTriggerIdentifierError					
triggerldentifier 11		int	The unknown trigger identifier		



4. Update Trigger

4.1. Request

teTriggerl	XML element	Card	Туре	Description
		1 1	intoger	unique trigger identifier
ggerldenti		11	integer	unique trigger identifier
ggerCriter	ria fficTimestampCriteria	11		The conditions which will be used to check CDRs and raise alarms
··trai				The condition for timestamp alarms
	allowedPeriods	11	Overla	The periods when CDRs are allowed
	@scale	11	Scale	enum defined hour or day (attribute)
	period	12		The periods when CDRs are allowed (Bounds are in minutes if sca
	begin	11	integer	hour_per_day or in days if scale is day_per_month) The period start
	end	11		The period start The period end
[C] +ro1	fficLocationCriteria		integer	The condition for location alarms
liai	allowedCountriesAndOper	11 ators 11		
	country			List of countries and operators for which CDRs are allowed (All oth will raise an alarm)
		1n	intogor	The countries set and their operators that are allowed by the trigge
	countryCode	11	integer	The code of the country The operators set found in CDRs that raised the alarm
	operators	01	atuin a	· ·
ICI 4	operatorCode	1n	string	The code of the operator
trai	fficGlobalThresholdCriteria	11		The condition for global threshold alarms. An alarm will be raised if accumulated value from CDR of all subscriptions of the customer overtook the threshold value for the defined bearer
	[C] roaming	11		Restriction for roaming CDR
	trafficRestriction	11		<u> </u>
	value	11	positiveLong	The threshold over which an alarm will be raised for this bearer
	bearer	11	Bearer	The restricted bearer
	communicationWay		CommunicationWay	The direction of traffic to supervise
	[C] local	11	J	Restriction for local CDR
	trafficRestriction	11		1.00.00.00.101.00.00.00.00.00.00.00.00.0
	value	11	positiveLong	The threshold over which an alarm will be raised for this bearer
	bearer	11	Bearer	The restricted bearer
	communicationWay		CommunicationWay	The direction of traffic to supervise
	[C] allOrigin	11	Communicationvay	Restriction for allOrigin CDR
	trafficRestriction	11		restriction anongment
	value	11	positiveLong	The threshold over which an alarm will be raised for this bearer
	bearer	11	Bearer	The restricted bearer
	communicationWay	01	CommunicationWay	The direction of traffic to supervise
^[C] traf	fficUnitaryThresholdCriteria	11		The condition for unitary threshold alarms. An alarm will be raised i accumulated value from CDR of one subscription of the customer overtook the threshold value for the defined bearer
	[c] roaming			Restriction for roaming CDR
	trafficRestriction	11		The state of the s
	value	11	positiveLong	The threshold over which an alarm will be raised for this bearer
	bearer	11	Bearer	The restricted bearer
	communicationWay		CommunicationWay	The direction of traffic to supervise
	[C] local	11	- Communication (Capacitation)	Restriction for local CDR
	trafficRestriction	11		Treathead To Todal CET
	value	11	positiveLong	The threshold over which an alarm will be raised for this bearer
	bearer	11	Bearer	The restricted bearer
	communicationWay		CommunicationWay	The direction of traffic to supervise
	[C] allOrigin	11	Johnnamoulonvay	Restriction for allOrigin CDR
	trafficRestriction	11		1.00.00.00 for all of the first
	value	11	positiveLong	The threshold over which an alarm will be raised for this bearer
	bearer	11	Bearer	The restricted bearer
	communicationWay		CommunicationWay	The direction of traffic to supervise
[c] traf	fficBearerCriteria	11		The condition for bearer alarms
	allowedBearers	11		List of allowed bearers
	bearer	1n	Bearer	The restricted bearer
Icl upo	datelmeiCriteria	11		Active a trigger which raises alarms on IMEI update
	fficLazyMachineCriteria	11		The condition for lazy machine alarms. An alarm will be raised if the accumulated value from CDR of the subscription in the last period defined is less than the threshold value for the defined callOrigin, bearer type and period
	callOrigin	11	CallOrigin	enum defined the CallOrigin list
	bearer	11	Bearer	The restricted bearer
	communicationWay	01	CommunicationWay	The direction of traffic to supervise The threshold under which an alarm will be raised for this call origin
	value	11	positiveLong	bearer type and period The last number of days for which if the accumulated value from Cl of the subscription is less than the threshold value for this call origin
1 1	period	11	integer	and bearer type ,an alarm will be raised
	fficCrazyMachineCriteria			Conditions for crazy machine alarms. An alarm will be raised cumulated traffic for given call origin and bearer type exceeds the

	callOrigin	11	CallOrigin	Enum. Defines the call origin		
	bearer	11	Bearer	Enum. Defines the bearer type		
	communicationWay	01	CommunicationWay	The direction of traffic to supervise		
	,		·	The threshold above which an alarm will be raised for this call origin,		
	value	11	positiveLong	bearer type and period		
	period		integer	The number of days along which traffic is cumulated for given call origin and bearer type		
נס	trafficSilentMachineCriteria	11	Ŭ	The condition for silent machine alarms. Alarms will be raised for lines that have no outgoing communications in the last period defined		
	period	11	integer	The last number of days for which if there is no outgoing communications for a line, an alarm will be raised		
<u>ר</u> כ	SubscriptionStatusChangeCriteria	11		The condition for subscription status change alarms. Alarms will be raised if M2M subscription status change (Sim status in Malima)		
	watchedM2MSubscriptionStatuse s	11		The list of M2M subscription status to detect		
	status	1n	string	M2M subscription status (Sim Status in Malima)		
[C	SubscriptionOptionChangeCriteria	11		The condition for subscription option change alarms. Alarms will be raised when subscription options are added or deleted,		
	watchedSubscriptionOptions option option optionChangeTypes			The list of option code services to detect		
			string	Option code service (ofr_services_catalog in Malima)		
				The list of option change type to detect		
	optionChangeType	1n	String	The option change type defined in trigger criteria. WARNING: The content of the string must match one of the constants defined in the chapter 1.2		
notificat	tion	11	boolean	Flag to ask a notification at the customer URL		
notificat	tionByMail	01	boolean	Flag to ask a notification at the customer email		
level		11	Level	Alarm priority level		
status		11	TriggerStatus	The status in which the trigger must be set		
groupld		01	integer	Used to group several triggers		
comme	nt	01	string	Comment/description for this trigger		
busines	ssRules	01		WARNING : If empty, all business rules of any type are removed from database		
S	lmBusinessRule	01		SLM business rule that will be applied to all lines linked to raised alarms for this trigger. WARNING: If empty, the SLM business rule is removed from database.		
	requestedStatus	11	string	The SIM requested status.		

4.2. Response

_	XML element	Card	Туре	Description
Up	dateTriggerResponse			
	updatedTriggerIdentifier		integer	unique trigger identifier

4.3. SOAP faults

4.3.1. MalimaErrorFault

	XML element		Туре	Description
faultcode	faultcode		string	Soap fault code
faultstring	faultstring		string	Soap fault error string
MalimaEı	rror	11		
	code	11	string	Malima error code
	message	11	string	Malima error message

faultstring values : A Malima plateform error has occured.

faultcode value: SOAP-ENV:Client or SOAP-ENV:Server following the problem comes from server or customer message.

$\label{eq:main} \textbf{Malima code and message values listing:}$

Code	Message
MALIMA_INTERNAL_ERROR	Une erreur Malima est survenue.
MLM_UNKNOWN_USER	L'utilisateur <username> est inconnu de Malima.</username>
MLM_SOAP_HEADER_ERROR	<soap error="" header="" message="" specific=""></soap>
MLM_QUOTA_EXCEEDED	Il vous reste {quotaRestant}/{quotaTotal} sollicitations autorisées pour ce service.
CANNOT_CONNECT_TO_DATABASE	Accès impossible à la base de données.
MLM_UNKNOWN_BEARER	The bearer is unknown in the Malima configuration.
MLM_BAD_M2MSUB_LIST	The input M2M subscription status list is empty or contains incorrect status that could not be triggered.
MLM_BAD_OPTION_LIST	The input subscription option list is empty or contains option that could not be triggered.
MLM_DUPLICATE_CODE_OPTION	The trigger could not be created, the following option code are in double: <option code="">.</option>
MLM_BAD_OPTION_TYPE_EVENT	The input option change type could not be triggered.
MLM_DUPLICATE_OPTION_TYPE_EVENT	The trigger could not be created, the following option change type event are in double : <option code=""></option>

<soap error="" header="" message="" specific=""></soap>
Paramètres manquant : <paramètre manquant=""></paramètre>
Paramètres du Header Soap invalides.



Business Services



4.3.2. TriggerFault

	XML element	Card	Туре	Description
faultco	ode	11	string	Soap fault code
faultst	ring	11	string	Soap fault error string
Trigge	erError	11		
	message	11	string	Trigger error message

4.3.3. UnknownTriggerldentifierFault

XML element	Card	Туре	Description		
faultcode	11	string	Soap fault code		
faultstring	11	string	Soap fault error string		
UnknownTriggerIdentifierError	11				
triggerldentifier 11 int		int	The unknown trigger identifier		

5. List Triggers

5.1. Request

XML element	Card	Туре	Description	
riggersRequest				
triggerldentifiers				
triggerldentifier		integer	unique trigger identifier	
lineldentifiers			Line identifier	
lcj subscriptionNumber lcj simSerialNumber		string	Subscription numbers	
		string	SIM serial number	
^[C] devicelmei	1n	string	Device IMEI	
^[C] deviceSerialNumber	1n	string	Device serial number	
^[C] deviceUniqueId	1n	string	Device unique ids	
^[C] machineSerialNumber	1n	string	Machine serial numbers	
^[C] msisdnVoice	1n	_	Voice MSISDN	
СС	11	string	Country code	
sn	11	string	Subscriber number	
^[C] msisdnData	1n		Data MSISDN	
CC	11	string	Country code	
sn	11	string	Subscriber number	
^[C] msisdnFax	1n		Fax MSISDN	
CC	11	string	Country code	
sn	11	string	Subscriber number	
^[C] customerEnvironnementNumber		string	The identifier for the customer hierarchy level 2 node (the node_uid LVL2). If this field is filled, its value is overwritten by the node_uid coming from the authentication header.	
^[C] customGroups	11		List of groups base on customized fields	
customGroup	1n		The list of custom group of trigger	
customLabel	11	string	The label of custom group	
customValue	11	string	The value of custom group	
showAllOriginTrafficTriggers	01	boolean	if true then Triggers on ALL_ORIGIN traffic will be returned	
showMachineTriggers	01	boolean	if true then Triggers on Machine traffic will be returned	
showExtendedTriggers	01	boolean	if true then extended fields will be returned	
showSubscriptionStatusChangeTriggers	01	boolean	if true then Trigger on M2M subscription status change will be returned	
showSubscriptionOptionChangeTriggers	01	boolean	if true then Trigger on M2M subscription option code service change will be returned	
showBusinessRules showCustomGroupTriggers showTriggerCommunicationWay		boolean	If true then the business rules linked to triggers are displayed in response. Default is false.	
		boolean	If true then the triggers associated to custom group are returned. If false, then the triggers associated to custom group are NOT returned and they are put in list of unknownTriggers when the list is realized on list of trigger identifiers. Default is false.	
		boolean	If true then the "communicationWay" value is returned. If false then no "communicationWay" value is returned. Default is false.	

5.2. Response

		XML element	Card	Туре	Description
tTri	ggersResponse				
triç	ggers	01			
	trigger		1n		
	scope		11		
		iptionNumber	11	string	Subscription identifier
	[^{C]} custom	nerEnvironnementNumber	11	string	The identifier for the customer hierarchy level 2 node (the node_uid LVL2)
	^[C] custom	nGroups	11		The list of group of trigger based on customized fields
		customGroup	1n		The group of trigger based on customized fields
		customLabel	11	string	The label of group
		customValue	11	string	The value of group
	triggerldentifier	11	integer	The trigger identifier	
	triggerType	11	TriggerType	Type of the trigger that threw the alarm	
	triggerCriteria		11		The conditions which will be used to check CDR and raise alarms
	^[C] trafficT	11		The condition for timestamp alarms	
		allowedPeriods	11		The periods when CDRs are allowed
		@scale	11	Scale	enum defined hour or day (attribute)
		period	12		The periods when CDRs are allowed (Bounds are minutes if scale is hour_per_day or in days if scale is day_per_month)

		begin	11	integer	The period start
		end	11	integer	The period start The period end
^[C] traffi	cLocatio	onCriteria	11	- 9	The condition for location alarms
	allowe	edCountriesAndOperators	11		List of countries and operators for which CDRs are
		Number 4			allowed (All other will raise an alarm)
	CC	puntry	1n		The countries set and their operators that are allowed by the trigger
		countryCode	11	integer	The code of the country
		operators	01		The operators set found in CDRs that raised the
		onaratarCada	1n	etring	alarm The code of the operator
[C] traffi	operatorCode trafficGlobalThresholdCriteria		1n 11	string	The condition for global threshold alarms. An alarm
adiii			11		will be raised if the accumulated value from CDR of
					all subscriptions of the customer overtook the
	[c] roa	ming	11		threshold value for the defined bearer Restriction for roaming CDR
		afficRestriction	11		
		value	11	positiveLong	The threshold over which an alarm will be raised for
		hoorer		Bearer	this bearer
		bearer communicationWay	11 01	Bearer Communicati	The restricted bearer The direction of traffic to supervise
			0	onWay	ONLY showed If showTriggerCommunicationWay is
	[C] loca		A A		set to true in the request. Restriction for local CDR
		al afficRestriction	11		NESTRICTION TO TOCAL CUR
	110	value	11	positiveLong	The threshold over which an alarm will be raised for
				-	this bearer
		bearer	11	Bearer	The direction of treffic to cupervise
		communicationWay	01	Communicati onWay	The direction of traffic to supervise ONLY showed If showTriggerCommunicationWay is
				J 4	set to true in the request.
	[C] allC	Origin	11		Restriction for all origin CDR. (Local + Roaming).
					ONLY showed If showAllOriginTrafficTriggers is set to true in the request.
	tra	afficRestriction	11		
		value	11	positiveLong	The threshold over which an alarm will be raised for
		bearer	11	Bearer	this bearer The restricted bearer
		communicationWay	01	Communicati	The direction of traffic to supervise
				onWay	ONLY showed If showTriggerCommunicationWay is
[C] traffi	cUnitary	ThresholdCriteria	11		set to true in the request. The condition for unitary threshold alarms. An alarm
	y				will be raised if the accumulated value from CDR of
					one subscription of the customer overtook the threshold value for the defined bearer
	[c] roa	ming	11		Restriction for roaming CDR
		afficRestriction	11		<u> </u>
		value	11	positiveLong	The threshold over which an alarm will be raised for
		bearer	11	Bearer	this bearer The restricted bearer
		communicationWay	01	Communicati	The direction of traffic to supervise
		_		onWay	ONLY showed If showTriggerCommunicationWay is
	[C] loca	 al	11		set to true in the request. Restriction for local CDR
		afficRestriction	11		ACCURAGE TO TOTAL ODE
		value	11	positiveLong	The threshold over which an alarm will be raised for
		Leave			this bearer
		bearer communicationWay	11 01	Bearer Communicati	The restricted bearer The direction of traffic to supervise
		- communicationivvay	U I	onWay	ONLY showed If showTriggerCommunicationWay is
	101	<u> </u>		-	set to true in the request.
	^[C] all C	Drigin	11		Restriction for all origin CDR. (Local + Roaming). ONLY showed If showAllOriginTrafficTriggers is set
					to true in the request.
	tra	afficRestriction	11		
		value	11	positiveLong	The threshold over which an alarm will be raised for this bearer
		bearer	11	Bearer	The restricted bearer
		communicationWay	01	Communicati	The direction of traffic to supervise
				onWay	ONLY showed If showTriggerCommunicationWay is
[c] traffi	cBearer	ı Criteria	11		set to true in the request. The condition for bearer alarms
	1	edBearers	11		List of allowed bearers
(C)		earer	1n	Bearer	The restricted bearer
	atelmeiC		11		Type for trigger which raises alarms on IMEI update
traffi	c∟azyM	achineCriteria	11		The condition for lazy machine alarms. An alarm will be raised if the accumulated value from CDR of the
					subscription in the last period defined is less than
					the threshold value for the defined callOrigin, bearer
	callOr	igin	11	CallOrigin	type and period enum defined the CallOrigin list
	beare	•	11	Bearer	The restricted bearer
		unicationWay	01	Communicati	The direction of traffic to supervise
				onWay	ONLY showed If showTriggerCommunicationWay is set to true in the request.
I				<u> </u>	oot to trac in the request.

		value	1 1	positiveLong	The threshold under which an alarm will be raised for this call origin, bearer type and period
		value	11	Positiverolly	for this call origin, bearer type and period The last number of days for which if the
		period	11	integer	accumulated value from CDR of the subscription is less than the threshold value for this call origin and bearer type, an alarm will be raised
		trafficCrazyMachineCriteria	11	miegei	Conditions for crazy machine alarms. An alarm to be raised if the cumulated traffic for given call original bearer type exceeds the given threshold for the same type.
			11		given period
		callOrigin	11	CallOrigin	Enum. Defines the boards type
		bearer communicationWay	11 01	Bearer Communicati	Enum. Defines the bearer type The direction of traffic to supervise
			5	onWay	ONLY showed If showTriggerCommunicationWay set to true in the request.
		value	11	positiveLong	The threshold above which an alarm will be rais for this call origin, bearer type and period The number of days along which traffic is cumulat
		period	11	integer	for given call origin and bearer type
		trafficSilentMachineCriteria	11		The condition for silent machine alarms. Alarms w be raised for lines that have no outgoing communications in the last period defined
		period	11	integer	The last number of days for which if there is no outgoing communications for a line, an alarm will traised
		subscriptionStatusChangeCriteria	11		The condition for subscription status change alarn Alarms will be raised if M2M subscription stat change (Sim status in Malima)
		watchedM2MSubscriptionStatuses	11		The list of M2M subscription status to detect
		status	1n	string	M2M subscription status (Sim Status in Malima) The condition for subscription option change alarm Alarms will be raised when subscription options a
		subscriptionOptionChangeCriteria	11		added or deleted,
		watchedSubscriptionOptions	11		The list of option code services to detect Option code service (ofr_services_catalog
		option	1n	string	Malima)
		optionChangeTypes	11		The list of option change type to detect
		optionChangeType	1n	String	The option change type defined in trigger criter WARNING: The content of the string must man one of the constants defined in the chapter 1.2
	notific		11	boolean	Flag to ask a notification at the customer URL
	notific	ationByMail	10 11	boolean Level	Flag to ask a notification at the customer email Alarm priority level
	status		11	TriggerStatus	The current status of the trigger
	group	d	01	integer	Used to group several triggers
	comm		01	string	Comment/description for this trigger
	busine	essRules	01		Dunings wile dedicated to CLM
		slmBusinessRule requestedStatus	01 11	string	Business rule dedicated to SLM The SIM requested status that is applied to all line linked to raised alarms for this trigger.
	ownTrigg		01	•	List of unknown given trigger identifiers
	ggerlden ownLinel	tifier dentifiers	1n 01	integer	List of unknown given line identifiers
UTIKITI		scriptionNumber	1n	string	subscription Number
		SerialNumber	1n	string	SIM serial number
	I	icelmei	1n	string	Device IMEI
		iceSerialNumber	1n	string	Device serial number
		iceUniqueId chineSerialNumber	1n 1n	string	Device unique ids Machine serial numbers
	I	sdnVoice	1n	string	Voice MSISDN
		CC	11	string	Country code
	ICI	sn	11	string	Subscriber number
	msi I ^{LU}	sdnData	1n	otric -	Data MSISDN
		cc sn	11	string string	Country code Subscriber number
	[C] msi	sdnFax	1n	Juniy	Fax MSISDN
		CC	11	string	Country code
\perp		sn	11	string	Subscriber number
unkn		omGroups	01		List of unknown provided custom group.
	custo	mGroup customLabel	1n 11	string	The unknown groups of trigger based on customized fields The custom group label
		customValue	11	string	The custom group value
		custom value	11	string	The custom group value

5.3. SOAP faults

5.3.1. MalimaErrorFault

XML element	Card	Туре	Description
faultcode	11	string	Soap fault code

Orange

faultstring		11	string	Soap fault error string		
MalimaEr	MalimaError					
	code	11	string	Malima error code		
	message	11	string	Malima error message		

faultstring values: A Malima plateform error has occured.

faultcode value: SOAP-ENV:Client or SOAP-ENV:Server following the problem comes from server or customer message.

Malima code and message values listing:

Code	Message
MALIMA_INTERNAL_ERROR	Une erreur Malima est survenue.
MLM_UNKNOWN_USER	L'utilisateur <username> est inconnu de Malima.</username>
MLM_SOAP_HEADER_ERROR	<soap error="" header="" message="" specific=""></soap>
MLM_QUOTA_EXCEEDED	Il vous reste {quotaRestant}/{quotaTotal} sollicitations autorisées pour ce service.
CANNOT_CONNECT_TO_DATABASE	Accès impossible à la base de données.

<soap error="" header="" message="" specific=""></soap>
Paramètres manquant : <paramètre manquant=""></paramètre>
Paramètres du Header Soap invalides.

5.3.2. UnknownCustomerEnvironnementNumberFault

	XML element		Туре	Description
faultco	faultcode		string	Soap fault code
faultstr	faultstring		string	Soap fault error string
Unkno	UnknownCustomerEnvironnementNumberError			
	customerEnvironnementNumber		string	The unknown customer environnement identifier

5.3.3. TooManyResultsFault

	XML element		ard Type Description				
faultcode		11	string	Soap fault code			
faultstı	faultstring		string	Soap fault error string			
tooMa	tooManyResultsError						
maxAllowedResults		11	int	the maximum of allowed results in the response			



6. Get Alarms

6.1. Request

XML element	Card	Туре	Description
SetAlarmsRequest			
alarmIdentifiers	11		
alarmIdentifier	1n	integer	The alarm unique identifier
showAlarmStatus	01	boolean	if true then "alarmStatus" and "alarmStatusComment" fields will be returned
showAllOriginTrafficAlarms	01	boolean	if true then Alarms on ALL_ORIGIN traffic will be returned
showMachineAlarms	01	boolean	if true then Alarms on Machine will be returned
showExtendedAlarms	01	boolean	if true then extended fields will be returned
showSubscriptionStatusChangeAlarms	01	boolean	if true then Alarms on M2M subscription status change will be returned
showSubscriptionOptionChangeAlarms	01	boolean	if true then Alarms on M2M subscription option change will be returned
showBusinessRules	01	boolean	If true then the business rules linked to alarms are displayed in response. Default is false.
showTriggerScope	01	boolean	If true then the scope of trigger linked to alarms is displayed in response. Default is false.
showTriggerCommunicationWay	01	boolean	If true then the "communicationWay" value is returned. If false then no "communicationWay" value is returned. Default is false.

6.2. Response

XML element	Card	Туре	Description	
tAlarmsResponse				
unknownAlarmIdentifiers			The list of alarm identifiers for which no alarm exists or does not belong to customer	
unknownAlarmIdentifier	1n	string	An alarm identifier for which no alarm exists or does not belong customer	
alarms	01			
alarm	1n			
alarmIdentifier	11	integer	The alarm unique identifier	
creationDate	11	date	The date when the alarm was created	
level	11	Level	The priority level defined in the trigger which raised the alarm	
alarmStatus	01	string	The status of the alarm	
alarmStatusComment	01	string	The comment linked to the status of the alarm	
customerEnvironmentNumber	11	string	The identifier for the customer hierarchy level 2 node (the node_uid LVL2)	
subscriptionNumber	01	string	The subscription identifier	
notificationDate	01	date	The date when notification occured (if occured)	
notificationResultCode	01	integer	The result code of the notification (if occured)	
notifiedUrl	01	string	The URL used to notify	
mailNotificationAddress	01	string	The destination email of the mail notification.ONLY showed If showExtendedAlarms is set to true in the request.	
mailNotificationDate	01	date	The date of the mail notification.ONLY showed If showExtendedAlarms is set to true in the request.	
mailNotificationResultCode	01	integer	The result code of the mail notification.ONLY showed If showExtendedAlarms is set to true in the request.	
mailNotificationResultMessage	01	string	The result message of the mail notification. ONLY showed If showExtendedAlarms is set to true in the request.	
notificationResultMessage	01	string	The result message of the notification (if occured)	
^[C] nbAlarmExceeded	11	String	Alarm that was raised when the quota is exceeded	
quota	11	integer	The maximum number of alarms	
triggerldentifier	11	integer	Identifier of the trigger that threw the alarm	
IriggeredAlarm	11	intoger	Alarm that was raised by a trigger	
notificationRequired	11	boolean	true if the alarm required notification when the alarm is raised	
notificationByMailRequired	01	boolean	True if the alarm required notification by mail.ONLY showed showExtendedAlarms is set to true in the request.	
triggerIdentifier	11	integer	The identifier of the trigger which raised the alarm	
triggerComment	01	string	The comment of the trigger when it raises the alarm	
triggerGroupId	01	integer	The identifier of the trigger group when it raises the alarm	
triggerType	11	TriggerType	The trigger type	
triggerScope	01		The scope of trigger	
C subscriptionNumber	11	string	Subscription identifier	
^[C] customerEnvironmentNumber	11	string	The identifier for the customer hierarchy level 2 node (the node_uid LVL2)	
^[C] customGroups	11		The list of group of trigger based on customized fields	
customGroup	1n		The group of trigger based on customized fields	

		tomLabel tomValue	11	string string	The label of group The value of group
	riteria		11		The condition which was used to raise alarm
[C]	trafficTime	stampCriteria	11		The timestamp condition which was used to raise the alarm at data about the timestamp alarm
	firstEven	tDate	11	date	The date of the first CDR (the oldest) which involved the alarm
	lastEvent		11	date	The date of the last CDR (the earliest) which involved the alar
	eventCot allowedP		11	integer	The number of CDRs which involved the alarm The trigger period condition when CDRs are allowed (that me CDRs which involved the alarm, were sent out of this period)
	@scale		11	Scale	The scale of the period : hours or days
	per	iod	12	Coalo	The scale of the police in leafe of days
		begin	11	integer	the period start bound when the alarm is raised
[C]	troffiel coef	end ionCriteria	11	integer	the period end bound when the alarm is raised
	ranicLocat	ionCriteria	11		The location condition which was used to raise the alarm and data about the location alarm
	firstEven	tDate	11	date	The date of the first CDR (the oldest) which involved the alarn
	lastEvent		11	date	The date of the last CDR (the earliest) which involved the alar
	eventCou		11	integer	The number of CDRs which involved the alarm
		nCountriesAndOperators	11		The list of countries and operators found in CDRs that raised alarm
	Cou	ntry	1n		The countries set and their operators found in CDRs that invo
		countryCode	11	integer	The code of the country
		operators	01	otrin a	The operators set found in CDRs that raised the alarm
	allowedC	operatorCode CountriesAndOperators	1n 11	string	The code of the operator The list of countries and operators that were allowed by the
	anoweuc	очнителниоренация	11		trigger when it raises the alarm (So there is no match betweer forbiddenCountriesAndOperators and AllowedCountriesAndOperators)
	cou	ntry	1n		The countries set and their operators that were allowed by the trigger
		countryCode	11	integer	The code of the country
		operators	01		The operators set found in CDRs that raised the alarm
[C]	traffial laite	operatorCode	1n 11	string	The code of the operator
2 - 2		afficUnitaryThresholdCriteria			The unitary threshold condition which was used to raise the a and data about the unitary threshold alarm
		bearertype communicationWay		Bearer CommunicationWay	The bearertype of the CDRs monitored by the trigger The direction of traffic to supervise ONLY showed If showTriggerCommunicationWay is set to truthe request.
	roaming		11	boolean	True for roaming traffic, false for local traffic
	callOrigin	callOrigin		CallOrigin	Enum defined the CallOrigin list. ONLY showed showAllOriginTrafficAlarms is set to true in the request. IF field is filled, whatever the value, then the field roaming mus ignored.
	threshold	IValue	11	positiveLong	The threshold value defined in the trigger for one subscription the customer and matching with bearer type and roaming
	triggering	yValue	11	positiveLong	The value computed from CDRs from one subscription of the customer and matching with bearer type and roaming, that
[C]	trafficGloba	alThresholdCriteria	11		overtook the threshold The global threshold condition which was used to raise the ala and data about the global threshold alarm
	bearertyp	De .	11	Bearer	The bearertype of the CDRs monitored by the trigger
		icationWay	01	CommunicationWay	The direction of traffic to supervise ONLY showed If showTriggerCommunicationWay is set to tru the request.
	roaming		11	boolean	True for roaming traffic, false for local traffic
	callOrigir	1	01	CallOrigin	Enum defined the CallOrigin list. ONLY showed showAllOriginTrafficAlarms is set to true in the request. IF field is filled, whatever the value, then the field roaming mus ignored.
	threshold	Value	11	positiveLong	The threshold value defined in the trigger for all subscriptions the customer and matching with bearer type and roaming
	triggering	yValue	11	positiveLong	The value computed from CDRs from all subscriptions of the customer and matching with bearer type and roaming, that
	trafficBeare		11		overtook the threshold The bearer condition which was used to raise the alarm and dabout the bearer alarm
[C]			11	date	The date of the first CDR (the oldest) which involved the alarm
[C]	firstEven		11	date	The date of the last CDR (the earliest) which involved the alar The number of CDRs which involved the alarm
[C]	lastEven	int	11	integer	The number of CDRs which involved the alarm The bearer types found in CDRs that involved the alarm
[C]	lastEvent eventCou				r no bearer types toutiu iii ODNS tiiat iiivoiveti tiie alaiiii
[C]	lastEvent eventCou forbidder bea	nBearerTypes urertype	11 1n	Bearer	the bearer type
[C]	lastEvent eventCou forbidder bea allowedB	nBearerTypes arertype searerTypes	11 1n 11		the bearer type The bearer types that were allowed by the trigger when it raise the alarm
	lastEvent eventCou forbidder bea allowedB	nBearerTypes arertype searerTypes arertype	11 1n 11	Bearer Bearer	the bearer type The bearer types that were allowed by the trigger when it raise
	lastEvent eventCou forbidder bea allowedB	nBearerTypes arertype searerTypes arertype	11 1n 11		the bearer type The bearer types that were allowed by the trigger when it raise the alarm the bearer type

	newlmei	11	string	New imei
	firstNewImeiDate	11	date	The date of the first CDR with the new imei
	^[C] trafficLazyMachineCriteria	11		The lazy machine condition which was used to raise the alarm and data about the lazy machine alarm.ONLY showed If showMachineAlarms is set to true in the request
	bearerType	11	Bearer	enum defined the bearer list
	communicationWay	01	CommunicationWay	The direction of traffic to supervise ONLY showed If showTriggerCommunicationWay is set to true i the request.
	callOrigin	01	CallOrigin	enum defined the CallOrigin list.
	thresholdValue	11	positiveLong	The threshold value defined in the trigger for the subscription and matching with defined bearer type, call origin, and period
	triggeringValue	11	positiveLong	The value computed from CDRs from the subscription and matching with defined bearer type, call origin, and period that is less than the threshold
	period	11	integer	The last number of days for which the accumulated value from CDR of the subscription is less than the threshold value for this bearer type and call origin
	trafficSilentMachineCriteria	11		The silent machine condition which was used to raise the alarm and data about the silent machine alarm. ONLY showed If showMachineAlarms is set to true in the request.
	period	11	integer	The last number of days for which there where no outgoing communications for lines
	trafficCrazyMachineCriteria	11		The crazy machine conditions which raise the alarm and related trigger criteria. Only shown if showMachineAlarms is set to true in the request.
	bearertype	11	Bearer	Enum. The bearer type defined in trigger criteria
	communicationWay	01	CommunicationWay	The direction of traffic to supervise ONLY showed If showTriggerCommunicationWay is set to true the request.
	callOrigin	11	CallOrigin	Enum. The call origin defined in trigger criteria
	thresholdValue	11		The threshold value defined in trigger criteria, over which a
	triggeringValue	11	positiveLong positiveLong	alarm is raised The cumulated value of the traffic for given bearer type, call original and period which raises the alarm.
	period	11	integer	The period along which the traffic is cumulated, as defined trigger criteria
	subscriptionStatusChangeCriteria	11		The M2M subscription status change condition which was used raise the alarm and data about the M2M subscription stat change alarm.ONLY showed showSubscriptionStatusChangeAlarms is set to true in trequest.
	detectedTargetStatus			The detected M2M subscription target status that has raised the
	data Otatua Data	11	string	alarm.
	updateStatusDate [C] subscriptionOptionChangeCriteria	11	dateTime	The date of the M2M subscription status update in Malima. The M2M subscription option code service change conditi which was used to raise the alarm and data about the M2 subscription option change alarm.ONLY showed showSubscriptionOptionChangeAlarms is set to true in t request.
	option	11	string	The detected M2M subscription target option that has raised the alarm.
	description	11	string	The description of the detected M2M subscription target opti that has raised the alarm. The option change type defined in trigger criter
	optionChangeType	11	string	WARNING: The content of the string must match one of constants defined in the legend section on the right
 	updateOptionDate	11	dateTime	The date of the M2M subscription option update in Malima.
	essRules geredSlmBusinessRule	01 01		The SLM business rule triggered on the line for this alarm
uig	geredSimBusinessRule requestedStatus	11	string	The SIM requested status
	taskStatus	01	string	The SLM task status
	errorCode	01	string	The error code if an error occurred during SLM ticket processin
	errorMessage	01	string	The error message if an error occurred during SLM tic processing

6.3. SOAP faults

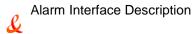
6.3.1. MalimaErrorFault

	XML element	Card	Type	Description
faultcode		11	string	Soap fault code
faultstring		11	string	Soap fault error string
MalimaEr	MalimaError			
	code	11	string	Malima error code
	message	11	string	Malima error message

 $\begin{picture}(60,0) \put(0,0){$ \end{picture}$} \put(0,0){$ \end{pictu$

faultcode value: SOAP-ENV:Client or SOAP-ENV:Server following the problem comes from server or customer message.

Malima code and message values listing:





Orange

Code	Message
MALIMA_INTERNAL_ERROR	Une erreur Malima est survenue.
MLM_UNKNOWN_USER	L'utilisateur <username> est inconnu de Malima.</username>
MLM_SOAP_HEADER_ERROR	<soap error="" header="" message="" specific=""></soap>
MLM_QUOTA_EXCEEDED	Il vous reste {quotaRestant}/{quotaTotal} sollicitations autorisées pour ce service.
CANNOT CONNECT TO DATABASE	Accès impossible à la base de données.

<soap error="" header="" message="" specific=""></soap>
Paramètres manquant : <paramètre manquant=""></paramètre>
Paramètres du Header Soap invalides.

6.3.2. TooManyAlarmIdentifiersFault

XML elem	ent	Card	Туре	Description
faultstring		11	string	Soap fault error string
TooManyAlarmIdentifiersError		11		
maxAllowedAlar	mldentifiersNumber	11	int	Maximum allowed alarm identifiers number

faultstring value: Too many alarm identifiers

7. Search Alarms

7.1. Request

			lement	Card	Туре	Description
archA	AlarmsRed	•				
	search	ByTargets		11		
		lineldentifie		11		List of line identifiers
			criptionNumber	1n	string	Subscription numbers
			SerialNumber	1n	string	SIM serial number
		^[C] devi		1n	string	Device IMEI
			ceSerialNumber	1n	string	Device serial number
			ceUniqueId	1n	string	Device unique ids
	^[C] machineSerialNumber			1n 1n	string	Machine serial numbers
		red msisdnVoice cc				Voice MSISDN
					string	Country code
		sn		11	string	Subscriber number
		^[C] msis	dnData	1n		Data MSISDN
		cc	:	11	string	Country code
		sn		11	string	Subscriber number
		^[C] msis		1n		Fax MSISDN
		cc	;	11	string	Country code
		sn		11	string	Subscriber number
			nvironnementNumber	11	string	Account identifier, . If this field is filled, its value is overwritte by the node_uid coming from the authentication header.
		^[C] customGro	<u> </u>	11		
		custom	Group	1n		List of custom groups to find
		cu	stomLabel	11	string	The label of group
		cu	stomValue	11	string	The value of group
	grou	pld		01	integer	Group of triggers identifier
	trigg	erType		01	TriggerType	Trigger type
	level			01	Level	Minimum priority level of the alarms
	triggerIdentifiers		11			
			11		List of trigger identifiers	
		triggerldentifie	er	1n	integer	Trigger unique identifier
begir	nDate			01	date	First date when the alarms were triggered
endD	Date			01	date	Last date when the alarms were triggered
range	eSize			01	integer	Maximum number of results to retrieve per response * Must be >= 1
	eStart			01	integer	Index of the first result to retrieve * Must be >= 0
show	vAlarmSta	tus		01	boolean	if true then "alarmStatus" and "alarmStatusComment" fields be returned
		TrafficAlarms		01	boolean	if true then Alarms on ALL_ORIGIN traffic will be returned
	vMachine/			01	boolean	if true then Alarms on Machine traffic will be returned
show	vExtended	IAlarms		01	boolean	if true then extended fields will be returned
chou	vQuboorio:	tion Status Chan	ae Alarme	01	boolean	if true then Alarms on M2M subscription status change will returned
SHOW	voupscrib)	tionStatusChan	yeniaiiiis	U I	DUUIEAN	returned if true then Alarms on M2M subscription option change wil
show	vSubscript	tionOptionChan	ngeAlarms	01	boolean	returned
	vBusiness		go, ilaimo	01	boolean	If true then the business rules linked to alarms are displayed response. Default is <i>false</i> .
show	vTriggerSo	cope		01	boolean	If true then the scope of trigger linked to alarms is displayed response. Default is <i>false</i> .
show	vTriggerC	ommunicationV	Vay	01	boolean	If true then the "communicationWay" value is returned. If false then no "communicationWay" value is returned. Default is <i>false</i> .

7.2. Response

	XML element	Card	Туре	Description
arch/	Alarms			
alarn	ns	01		
	alarm	1n		
	alarmIdentifier	11	integer	The alarm unique identifier
	creationDate	11	date	The date when the alarm was created
	level	11	Level	The priority level defined in the trigger which raised the alarm
	alarmStatus	01	string	The status of the alarm WARNING: The content of the string must match one of the constants defined in the chapter Erreur! Source du renvoi introuvable. paragraph "Alarm Status".
	alarmStatusComment	01	string	The comment linked to the status of the alarm

Alarm Interface Description

Business Services orange

ustomerEnvironmentNumber	11	string	The identifier for the customer hierarchy level 2 node (the node_uid LVL2)
ubscriptionNumber	01	string	The subscription identifier
otificationDate	01	date	The date when notification occured (if occured)
otificationResultCode	01	integer	The result code of the notification (if occured)
otifiedUrl	01	string	The URL used to notify
			The destination email of the mail notification.ONLY show
ailNotificationAddress	01	string	showExtendedAlarms is set to true in the request. The date of the mail notification.ONLY showed If
ailNotificationDate	01	date	showExtendedAlarms is set to true in the request.
ailNotificationResultCode	01	integer	The result code of the mail notification. ONLY showed If showExtendedAlarms is set to true in the request.
ailNotificationResultMessage	01	string	The result message of the mail notification.ONLY showed showExtendedAlarms is set to true in the request.
otificationResultMessage	01	string	The result message of the notification (if occured)
nbAlarmExceeded	11		Alarm that was raised when the quota is exceeded
quota	11	integer	The maximum number of alarms
triggerldentifier	11	integer	Identifier of the trigger that threw the alarm
triggeredAlarm	11		Alarm that was raised by a trigger
notificationRequired	11	boolean	true if the alarm required notification when the alarm is raised
			True if the alarm required notification by mail.ONLY show
notificationByMailRequired	01	boolean	If showExtendedAlarms is set to true in the request.
triggerldentifier	11	integer	The identifier of the trigger which raised the alarm
triggerComment	01	string	The comment of the trigger when it raises the alarm
triggerGroupId	01	integer	The identifier of the trigger group when it raises the alarm
triggerType	11	TriggerType	The trigger type
triggerScope	01		The scope of trigger
[C] subscriptionNumber	11	string	Subscription identifier
^[C] customerEnvironmentNumber	11	string	The identifier for the customer hierarchy level 2 node (the
		_	node_uid LVL2)
^[C] customGroups	11		The list of group of trigger based on customized fields
customGroup	1n		The group of trigger based on customized fields
customLabel	11	string	The label of group
customValue	11	string	The value of group
triggerCriteria	11		The condition which was used to raise alarm
trafficTimestampCriteria	11		The timestamp condition which was used to raise the ala
·			and data about the timestamp alarm
firstEventDate	11	date	The date of the first CDR (the oldest) which involved the
lastEventDate	11	date	alarm The date of the last CDR (the earliest) which involved the alarm
eventCount	11	integer	The number of CDRs which involved the alarm
allowedPeriods	11	3	The trigger period condition when CDRs are allowed (that means CDRs which involved the alarm, were sent out of
			this period)
@scale	11	Scale	The scale of the period : hours or days
period	12		
begin	11	integer	the period start bound when the alarm is raised
end	11	integer	the period end bound when the alarm is raised
trafficLocationCriteria	11		The location condition which was used to raise the alarm
EnglE 11 Dell		-lat:	and data about the location alarm
firstEventDate	11	date	The date of the first CDR (the oldest) which involved the
lastEventDate	11	date	alarm The date of the last CDR (the earliest) which involved the
			alarm
eventCount	11	integer	The number of CDRs which involved the alarm
forbiddenCountriesAndOperators	11		The list of countries and operators found in CDRs that raised the alarm
country	1n		The countries set and their operators found in CDRs that involved the alarm
animti Cada	A A	integer	
countryCode	11	integer	The code of the country
operators	01	atula a	The operators set found in CDRs that raised the alarm
operatorCode	1n	string	The code of the operator
allowedCountriesAndOperators	11		The list of countries and operators that were allowed by trigger when it raises the alarm (So there is no match between forbiddenCountriesAndOperators and
country	1n		AllowedCountriesAndOperators) The countries set and their operators that were allowed by
			the trigger
countryCode	11	integer	The code of the country
operators	01		The operators set found in CDRs that raised the alarm
operatorCode	1n	string	The code of the operator
trafficUnitaryThresholdCriteria	11		The unitary threshold condition which was used to raise alarm and data about the unitary threshold alarm
bearertype	11	string	The bearertype of the CDRs monitored by the trigger WARNING: The content of the string must match one of
			constants defined in the chapter Erreur! Source du rei introuvable. paragraph "Bearer Type".



ΙΓ	communicationWay	01	CommunicationWay	The direction of traffic to supervise
				ONLY showed If showTriggerCommunicationWay is set to true in the request.
l ⊢	roaming	11	boolean	Roaming
	callOrigin	01	CallOrigin	Enum defined the CallOrigin list. ONLY showed If showAllOriginTrafficAlarms is set to true in the request. IF the field is filled, whatever the value, then the field roaming must be ignored.
	thresholdValue	11	positiveLong	The threshold value defined in the trigger for one subscription of the customer and matching with bearer type and roaming
	triggeringValue	11	positiveLong	The value computed from CDRs from one subscription of the customer and matching with bearer type and roaming, that overtook the threshold
	rafficGlobalThresholdCriteria	11		The global threshold condition which was used to raise the alarm and data about the global threshold alarm
	bearertype	11	string	The bearertype of the CDRs monitored by the trigger WARNING: The content of the string must match one of the constants defined in the chapter Erreur! Source du renvo- introuvable. paragraph "Bearer Type".
	communicationWay	01	CommunicationWay	The direction of traffic to supervise ONLY showed If showTriggerCommunicationWay is set to true in the request.
l <u>-</u>	roaming	11	boolean	Roaming
	callOrigin	01	CallOrigin	Enum defined the CallOrigin list. ONLY showed If showAllOriginTrafficAlarms is set to true in the request. IF the field is filled, whatever the value, then the field roaming must be ignored.
	thresholdValue	11	positiveLong	The threshold value defined in the trigger for all subscriptions of the customer and matching with bearer type and roaming
	triggeringValue	11	positiveLong	The value computed from CDRs from all subscriptions of the customer and matching with bearer type and roaming, that overtook the threshold
ti	rafficBearerCriteria	11		The bearer condition which was used to raise the alarm and
	firstEventDate	11	date	data about the bearer alarm The date of the first CDR (the oldest) which involved the alarm
	lastEventDate	11	date	The date of the last CDR (the earliest) which involved the alarm
	eventCount	11	integer	The number of CDRs which involved the alarm
L	forbiddenBearerTypes	11		The bearer types found in CDRs that involved the alarm
	bearertype	1n	string	the bearer type WARNING: The content of the string must match one of the constants defined in the chapter Erreur! Source du renvo- introuvable. paragraph "Bearer Type".
	allowedBearerTypes	11		The bearer types that were allowed by the trigger when it raises the alarm
	bearertype	1n	string	the bearer type WARNING: The content of the string must match one of the constants defined in the chapter Erreur! Source du renvo introuvable. paragraph "Bearer Type".
[C]	updateImeiCriteria	11		Data about the imei alarm
	oldImei	11	string	The former imei
	lastOldImeiDate	11	date	The date of the last CDR with the old imei
<u> </u>	newlmei	11	string	New imei
	firstNewImeiDate	11	date	The date of the first CDR with the new imei
	rafficLazyMachineCriteria	11	Bearer	The lazy machine condition which was used to raise the alarm and data about the lazy machine alarm.ONLY showed If showMachineAlarms is set to true in the request enum defined the bearer list
	bearerType communicationWay	01	CommunicationWay	The direction of traffic to supervise ONLY showed If showTriggerCommunicationWay is set to true in the request.
,	callOrigin	01	CallOrigin	enum defined the CallOrigin list.
	thresholdValue	11	positiveLong	The threshold value defined in the trigger for the subscription and matching with defined bearer type, call origin, and period
1	triggeringValue	11	positiveLong	The value computed from CDRs from the subscription and matching with defined bearer type, call origin, and period that is less than the threshold
L	period	11	integer	The last number of days for which the accumulated value from CDR of the subscription is less than the threshold
	•			value for this bearer type and call origin
·	rafficSilentMachineCriteria	11		The silent machine condition which was used to raise the alarm and data about the silent machine alarm.ONLY
ici ti	rafficSilentMachineCriteria period	11	integer	The silent machine condition which was used to raise the alarm and data about the silent machine alarm.ONLY showed If showMachineAlarms is set to true in the request. The last number of days for which there were no outgoing communications for lines
[C] ti	rafficSilentMachineCriteria		integer	The silent machine condition which was used to raise the alarm and data about the silent machine alarm.ONLY showed If showMachineAlarms is set to true in the request. The last number of days for which there were no outgoing

	communicationWay	01	CommunicationWay	The direction of traffic to supervise ONLY showed If showTriggerCommunicationWay is se true in the request.
	callOrigin	11	CallOrigin	Enum. The call origin defined in trigger criteria
	thresholdValue	11		The threshold value defined in trigger criteria, over which
	triggeringValue	11	positiveLong	alarm is raised The cumulated value of the traffic for given bearer type,
	period	11	positiveLong	origin and period which raises the alarm. The period along which the traffic is cumulated, as defi
	subscriptionStatusChangeCriteria		integer	in trigger criteria The M2M subscription status change condition which
	Subscription Status on angeomena	11		used to raise the alarm and data about the N subscription status change alarm.ONLY showed showSubscriptionStatusChangeAlarms is set to true in request.
	detectedTargetStatus	11	string	The detected M2M subscription target status that has rai the alarm.
	updateStatusDate	11	dateTime	The date of the M2M subscription status update in Malin
	subscriptionOptionChangeCriteria	11		The M2M subscription option code service change condi which was used to raise the alarm and data about the N subscription option change alarm.ONLY showed showSubscriptionOptionChangeAlarms is set to true in request.
	option	11	string	The detected M2M subscription target option that raised the alarm.
	description	11	string	The description of the detected M2M subscription ta option that has raised the alarm.
	optionChangeType	11	string	The option change type defined in trigger crite WARNING: The content of the string must match one of constants defined in the legend section on the right
	updateOptionDate	11	dateTime	The date of the M2M subscription option update in Malin
busin	essRules	01		TI OLIVI II
	triggeredSImBusinessRule	01	etring	The SLM requested status
	requestedStatus taskStatus	11 01	string string	The SIM requested status The SLM task status
	errorCode	01	string	The error code if an error occurred during SLM ti processing
	errorMessage		string	The error message if an error occurred during SLM tiprocessing
^[C] unknowr	nLineIdentifiers	01		The list of line identifiers for which no subscription exists does not belong to customer
	^{C]} subscriptionNumber	1n	string	subscription Number
	^{C]} simSerialNumber	1n	string	SIM serial number
1 1	^(C) devicelmei	1n	string	Device IMEI
[^{C]} deviceSerialNumber	1n	string	Device serial number
[^{C]} deviceUniqueId	1n	string	Device unique ids
	[©] machineSerialNumber	1n	string	Machine serial numbers
	^{C]} msisdnVoice	1n		Voice MSISDN
	СС	11	string	Country code
	sn	11	string	Subscriber number
[^{C]} msisdnData	1n		Data MSISDN
	СС	11	string	Country code
	sn	11	string	Subscriber number
[^{C]} msisdnFax	1n		Fax MSISDN
	СС	11	string	Country code
	sn	11	string	Subscriber number
unknowr		01		The list of trigger identifiers for which no trigger exists or does not belong to customer
	erldentifier	1n	integer	A trigger identifier for which no alarm exists or does not belong to customer
	nCustomGroups	01		The list of unknown provided custom group.
custo	mGroup	1n	4:	The unknown groups of trigger based on customized fiel
	customLabel	11	string	The custom group label
sultsNumberE	customValue	11	string boolean	The custom group value True if the number of results is greater than the "rangeSi
alResultsNun	phor	11	integer	request parameter False by default Total number of results

7.3. SOAP faults

7.3.1. MalimaErrorFault

	XML element	Card	Туре	Description
faultcode		11	string	Soap fault code
faultstring]	11	string	Soap fault error string
MalimaEr	MalimaError			
	code	11	string	Malima error code
	message	11	string	Malima error message

faultstring values: A Malima plateform error has occured.

faultcode value: SOAP-ENV:Client or SOAP-ENV:Server following the problem comes from server or customer message.

Malima code and message values listing:

Code	Message
MALIMA_INTERNAL_ERROR	Une erreur Malima est survenue.
MLM_UNKNOWN_USER	L'utilisateur <username> est inconnu de Malima.</username>
MLM_SOAP_HEADER_ERROR	<soap error="" header="" message="" specific=""></soap>
MLM_QUOTA_EXCEEDED	Il vous reste {quotaRestant}/{quotaTotal} sollicitations autorisées pour ce service.
CANNOT_CONNECT_TO_DATABASE	Accès impossible à la base de données.

<soap error="" header="" message="" specific=""></soap>	
Paramètres manquant : <paramètre manquant=""></paramètre>	
Paramètres du Header Soap invalides.	

7.3.2. UnknownCustomerEnvironnementNumberFault

	XML element	Card	Туре	Description
faultco	de	11	string	Soap fault code
faultstring		11	string	Soap fault error string
UnknownCustomerEnvironnementNumberError		11		
	customerEnvironnementNumber	11	string	The unknown customer environnement identifier

7.3.3. TooManyResultsFault

XML element	Card	Туре	Description
faultcode	11	string	Soap fault code
faultstring	11	string	Soap fault error string
tooManyResultsError	11		
maxAllowedResults	11	int	the maximum of allowed results in the response



8. Manage Alarms

8.1. Request

	XML element		Type	Description
ManageAlarmsRequest				
ala	alarmInformations			
6	alarmInformation	1n		
	alarmIdentifier	11	integer	The alarm unique identifier
	alarmStatus	11	string	The alarm status WARNING: The content of the string must match one of the constants defined in alarm.properties file.
	alarmStatusComment	01	string	The alarm comment

8.2. Response

	XML element		Туре	Description
Mar	ManageAlarmsResponse			
а	alarmIdentifiers			The list of alarm identifiers for which input data are correct
	alarmIdentifier	1n	integer	An alarm identifier for which input data are correct
ι	unknownAlarmIdentifiers			The list of alarm identifiers for which no alarm exists or does not belong to customer
	alarmIdentifier	1n	integer	An alarm identifier for which the process is successful
а	alarmIdentifiersWithUnknownStatus			The list of alarm identifiers for which the status is unknown
	alarmIdentifier	1n	integer	An alarm identifier for which the status is unknown

8.3. SOAP faults

8.3.1. MalimaErrorFault

	XML element	Card	Type	Description
faultcode		11	string	Soap fault code
faultstring	9	11	string	Soap fault error string
MalimaEr	MalimaError			
	code	11	string	Malima error code
	message	11	string	Malima error message

faultstring values: A Malima plateform error has occured.

faultcode value: SOAP-ENV:Client or SOAP-ENV:Server following the problem comes from server or customer message.

$\label{eq:main} \textbf{Malima code and message values listing:}$

Code	Message
MALIMA_INTERNAL_ERROR	Une erreur Malima est survenue.
MLM_UNKNOWN_USER	L'utilisateur <username> est inconnu de Malima.</username>
MLM_SOAP_HEADER_ERROR	<soap error="" header="" message="" specific=""></soap>
MLM_QUOTA_EXCEEDED	Il vous reste {quotaRestant}/{quotaTotal} sollicitations autorisées pour ce service.
CANNOT_CONNECT_TO_DATABASE	Accès impossible à la base de données.

<soap error="" header="" message="" specific=""></soap>						
Paramètres manquant : <paramètre manquant=""></paramètre>						
Paramètres du Header Soap invalides.						

8.3.2. TooManyAlarmIdentifiersFault

XML element	Card	Туре	Description
faultstring	11	string	Soap fault error string
TooManyAlarmIdentifiersError	11		
maxAllowedAlarmIdentifiersNumber	11	int	Maximum allowed alarm identifiers number

faultstring value: Too many alarm identifiers



