



Malima



Orange

Alarm Interface Description

Reference: DVS107-WSDL-SCA-V2.docx S2F20
Date: 16/03/2016

Description of the document

Ownership	
Client	Orange
Project title	Malima
Document title	Alarm Interface Description
Reference	DVS107-WSDL-SCA-V2.docx
Version	S2F20
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Version history

IC Version	GooRooCoo	WSDL version	Operation	Date
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 trigger. -LazyMachine triggers and alarms - CreateTrigger request : Add LazyMachine trigger - UpdateTrigger request : Add LazyMachine trigger - ListTrigger request : Add the showMachineTriggers parameter - ListTrigger response : Add LazyMachine trigger. - GetAlarms request: Add the showMachineAlarms parameter - GetAlarms response: Add the LazyMachine trigger. - SearchAlarms request: Add the showMachineAlarms parameter - 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	25/06/2013
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	<p>Add M2M Subscription Status change Alarm</p> <ul style="list-style-type: none"> - GetAlarms request : Add showSubscriptionStatusChangeAlarms - GetAlarms response : Add subscriptionStatusChangeCriteria - SearchAlarms request : Add showSubscriptionStatusChangeAlarms - SearchAlarms response : Add subscriptionStatusChangeCriteria <p>Add Crazy Machine Trigger and Alarm</p> <ul style="list-style-type: none"> - 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. <ul style="list-style-type: none"> - Change name of Legend Tab to Common Type - Common Type : Add date type 	25/07/2013
S2F11		2.11	<p>Remove M2M Subscription Status change Alarm</p> <ul style="list-style-type: none"> - 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
S2F12		2.12	<p>Add M2M Subscription Status change trigger (M2M_SUBSCRIPTION_STATUS_TRIGGER)</p> <ul style="list-style-type: none"> - 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	<p>Add M2M Subscription Option change trigger (M2M_SUBSCRIPTION_OPTION_TRIGGER)</p> <ul style="list-style-type: none"> - 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	<p>Modify M2M Subscription Option change trigger (M2M_SUBSCRIPTION_OPTION_TRIGGER)</p> <ul style="list-style-type: none"> - CreateTrigger request : add optionChangeType - UpdateTrigger request : add optionChangeType - ListTrigger request : add optionChangeType <p>Rename in all methods : optionCodeService into option</p>	12/09/2013
S2F15		2.13	<p>Modify M2M Subscription Option change trigger (M2M_SUBSCRIPTION_OPTION_TRIGGER)</p> <ul style="list-style-type: none"> - add the change type ALL. 	12/09/2013
S2F16		2.13	<ul style="list-style-type: none"> - 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 	13/09/2013
S2F16		2.14	<p>No modification in the Excel file. Just change the WSDL version -> 2.14</p> <p>Modification done in the xsd : add the triggerType M2M_SUBSCRIPTION_OPTION_TRIGGER</p>	24/09/2013
S2F17	G03R19C00	2.15	<p>Evol BR (Business Rules), add the "businessRules" node on</p> <ul style="list-style-type: none"> - 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 <ul style="list-style-type: none">- 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 : <ul style="list-style-type: none">- CreateTriggerRequest,- UpdateTriggerRequest,- listTriggersResponse,- GetAlarmsResponse,- SearchAlarms Add showTriggerCommunicationWay in : <ul style="list-style-type: none">- listTriggersResponse,- 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 : <ul style="list-style-type: none">• HOUR_PER_DAY• DAY_PER_MONTH
Level	Enumerated type. Values are : <ul style="list-style-type: none">• HIGH• MEDIUM• LOW
TriggerStatus	Enumerated type. Values are : <ul style="list-style-type: none">• ENABLE• DISABLE• ALARM_SENT
TriggerType	Enumerated type. Values are : <ul style="list-style-type: none">• TRAFFIC_TIMESTAMP• TRAFFIC_LOCATION• TRAFFIC_BEARER• TRAFFIC_UNITARY_THRESHOLD• TRAFFIC_GLOBAL_THRESHOLD• UPDATE_IMEI• TRAFFIC_LAZY_MACHINE• TRAFFIC_SILENT_MACHINE• M2M_SUBSCRIPTION_STATUS_TRIGGER• TRAFFIC_CRAZY_MACHINE• M2M_SUBSCRIPTION_OPTION_TRIGGER
OptionChangeType	Possible values are : <ul style="list-style-type: none">• ADD• REMOVE
CallOrigin	Enumerated type. Values are : <ul style="list-style-type: none">• ROAMING• LOCAL• ALL_ORIGIN• UNKNOWN
Bearer	Enumerated type. Values are : <ul style="list-style-type: none">• FIXED_SERVICE_COMPLEMENT• VOICE• WIFI• VALUE_BASED_COMMUNICATION• SMS• MMS• UNKNOWN• MULTIMEDIA_PURCHASE• GPRS_EDGE• UMTS• FAX

CommunicationWay	<div>Enumerated type. Values are :<ul style="list-style-type: none">• IN• OUT• INOUT</div> <div>If this parameter is not provided, it will be filled with the default communication way depending on the bearer :<ul style="list-style-type: none">• FIXED_SERVICE_COMPLEMENT : OUT• VOICE : OUT• WIFI : OUT• VALUE_BASED_COMMUNICATION : OUT• SMS : OUT• MMS : OUT• UNKNOWN : OUT• MULTIMEDIA_PURCHASE : OUT• GPRS_EDGE : INOUT• UMTS : INOUT• FAX : OUT</div>
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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

2. Create Trigger

2.1. Request

XML element	Card	Type	Description
CreateTriggerRequest			
scope			
[c] lineIdentifier	1..1		The line identifiers
[c] subscriptionNumber	1..1	string	Subscription number
[c] simSerialNumber	1..1	string	SIM serial number
[c] deviceImei	1..1	string	Device IMEI
[c] deviceSerialNumber	1..1	string	Device serial number
[c] deviceUniqueld	1..1	string	Device unique id
[c] machineSerialNumber	1..1	string	Machine serial number
[c] msisdVoice	1..1		Voice MSISDN
cc	1..1	string	Country code
sn	1..1	string	Subscriber number
[c] msisdData	1..1		Data MSISDN
cc	1..1	string	Country code
sn	1..1	string	Subscriber number
[c] msisdFax	1..1		Fax MSISDN
cc	1..1	string	Country code
sn	1..1	string	Subscriber number
[c] customerEnvironnementNumber	1..1	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] customGroup	1..1		The group of trigger based on customized fields
customLabel	1..1	string	The label of the group
customValue	1..1	string	The value of the group
triggerCriteria	1..1		The conditions which will be used to check CDRs and raise alarms
[c] trafficTimestampCriteria	1..1		The condition for timestamp alarms
allowedPeriods	1..1		The periods when CDRs are allowed
@scale	1..1	Scale	enum defined hour or day (attribute)
period	1..2		The periods when CDRs are allowed (Bounds are in minutes if scale is hour_per_day or in days if scale is day_per_month)
begin	1..1	integer	The period start
end	1..1	integer	The period end
[c] trafficLocationCriteria	1..1		The condition for location alarms
allowedCountriesAndOperators	1..1		List of countries and operators for which CDRs are allowed (All other will raise an alarm)
country	1..n		The countries set and their operators that are allowed by the trigger
countryCode	1..1	integer	The code of the country
operators	0..1		The operators set found in CDRs that raised the alarm
operatorCode	1..n	string	The code of the operator
[c] trafficGlobalThresholdCriteria	1..1		The condition for global threshold alarms. An alarm will be raised if the accumulated value from CDR of all subscriptions of the customer overtook the threshold value for the defined bearer
[c] roaming	1..1		Restriction for roaming CDR
trafficRestriction	1..1		
value	1..1	positiveLong	The threshold over which an alarm will be raised for this bearer
bearer	1..1	Bearer	The restricted bearer
communicationWay	0..1	CommunicationWay	The direction of traffic to supervise
[c] local	1..1		Restriction for local CDR
trafficRestriction	1..1		
value	1..1	positiveLong	The threshold over which an alarm will be raised for this bearer
bearer	1..1	Bearer	The restricted bearer
communicationWay	0..1	CommunicationWay	The direction of traffic to supervise
[c] allOrigin	1..1		Restriction for allOrigin CDR
trafficRestriction	1..1		
value	1..1	positiveLong	The threshold over which an alarm will be raised for this bearer
bearer	1..1	Bearer	The restricted bearer
communicationWay	0..1	CommunicationWay	The direction of traffic to supervise
[c] trafficUnitaryThresholdCriteria	1..1		The condition for unitary threshold alarms. An alarm will be raised if the accumulated value from CDR of one subscription of the customer overtook the threshold value for the defined bearer
[c] roaming	1..1		Restriction for roaming CDR
trafficRestriction	1..1		
value	1..1	positiveLong	The threshold over which an alarm will be raised for this bearer
bearer	1..1	Bearer	The restricted bearer
communicationWay	0..1	CommunicationWay	The direction of traffic to supervise
[c] local	1..1		Restriction for local CDR
trafficRestriction	1..1		
value	1..1	positiveLong	The threshold over which an alarm will be raised for this bearer
bearer	1..1	Bearer	The restricted bearer

		communicationWay	0..1	CommunicationWay	The direction of traffic to supervise
		^[C] allOrigin	1..1		Restriction for allOrigin CDR
		trafficRestriction	1..1		
		value	1..1	positiveLong	The threshold over which an alarm will be raised for this bearer
		bearer	1..1	Bearer	The restricted bearer
		communicationWay	0..1	CommunicationWay	The direction of traffic to supervise
		^[C] trafficBearerCriteria	1..1		The condition for bearer alarms
		allowedBearers	1..1		List of allowed bearers
		bearer	1..n	Bearer	An allowed bearer
		^[C] updateImeiCriteria	1..1		Active a trigger which raises alarms on IMEI update
		^[C] trafficLazyMachineCriteria	1..1		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	1..1	CallOrigin	enum defined the CallOrigin list
		bearer	1..1	Bearer	enum defined the bearer list
		communicationWay	0..1	CommunicationWay	The direction of traffic to supervise
		value	1..1	positiveLong	The threshold under which an alarm will be raised for this call origin, bearer type and period
		period	1..1	integer	The last number of days for which if the 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
		^[C] trafficCrazyMachineCriteria	1..1		Conditions for crazy machine alarms. An alarm will be raised if the cumulated traffic for given call origin and bearer type exceeds the given threshold for the given period
		callOrigin	1..1	CallOrigin	Enum. Defines the call origin
		bearer	1..1	Bearer	Enum. Defines the bearer type
		communicationWay	0..1	CommunicationWay	The direction of traffic to supervise
		value	1..1	positiveLong	The threshold above which an alarm will be raised for this call origin, bearer type and period
		period	1..1	integer	The number of days along which traffic is cumulated for given call origin and bearer type
		^[C] trafficSilentMachineCriteria	1..1		The condition for silent machine alarms. Alarms will be raised for lines that have no outgoing communications in the last period defined
		period	1..1	integer	The last number of days for which if there is no outgoing communications for a line, an alarm will be raised
		^[C] subscriptionStatusChangeCriteria	1..1		The condition for subscription status change alarms. Alarms will be raised if M2M subscription status change (Sim status in Malima)
		watchedM2MSubscriptionStatuses	1..1		The list of M2M subscription status to detect
		status	1..n	string	M2M subscription status (Sim Status in Malima)
		^[C] subscriptionOptionChangeCriteria	1..1		The condition for subscription option change alarms. Alarms will be raised when subscription options are added or deleted,
		watchedSubscriptionOptions	1..1		The list of option code services to detect
		option	1..n	string	Option code service (ofr_services_catalog in Malima)
		optionChangeTypes	1..1		The list of option change type to detect
		optionChangeType	1..n	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
		notification	1..1	boolean	Flag to ask a notification at the customer URL
		notificationByMail	0..1	boolean	Flag to ask a notification at the customer email address
		level	1..1	Level	Alarm priority level
		groupId	0..1	integer	Used to group several triggers
		comment	0..1	string	Comment/description for this trigger
		businessRules	0..1		
		slmBusinessRule	0..1		Business rule dedicated to SLM
		requestedStatus	1..1	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	Type	Description
CreateTriggerResponse			
triggerIdentifier	1..1	integer	trigger unique identifier

2.3. SOAP faults

2.3.1. MalimaErrorFault

XML element		Card	Type	Description
faultcode		1..1	string	Soap fault code
faultstring		1..1	string	Soap fault error string
MalimaError		1..1		
	code	1..1	string	Malima error code
	message	1..1	string	Malima error message

faultstring values : A Malima plateforme error has occurred.
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.
MLM_SOAP_HEADER_ERROR	<soap header error specific message>
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>.
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>

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

2.3.2. UnknownLineIdentifierFault

XML element		Card	Type	Description
faultcode		1..1	string	Soap fault code
faultstring		1..1	string	Soap fault error string
UnknownLineIdentifierError		1..1		
	lineIdentifier	1..1	string	The unknown line identifier

2.3.3. UnknownCustomerEnvironnementNumberFault

XML element		Card	Type	Description
faultcode		1..1	string	Soap fault code
faultstring		1..1	string	Soap fault error string
unknownCustomerEnvironnementNumberError		1..1		
	customerEnvironnementNumber	1..1	string	The unknown customer environnement identifier

2.3.4. UnknownCustomGroupFault

XML element		Card	Type	Description
faultcode		1..1	string	Soap fault code
faultstring		1..1	string	Soap fault error string
unknownCustomGroupError		1..1		
	customGroup	1..1		The unknown custom group
	customLabel	1..1	string	The label of the group
	customValue	1..1	string	The value of the group

2.3.5. TriggerFault

XML element		Card	Type	Description
faultcode		1..1	string	Soap fault code
faultstring		1..1	string	Soap fault error string
TriggerError		1..1		
	message	1..1	string	Trigger error message

2.3.6. TriggerLimitExceededFault

XML element		Card	Type	Description
faultcode		1..1	string	Soap fault code
faultstring		1..1	string	Soap fault error string
TriggerLimitExceededError		1..1		

	triggerLimit	1..1	string	The limit of triggers per day
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3. Delete Trigger

3.1. Request

XML element		Card	Type	Description
DeleteTriggerRequest				
	triggerIdentifier	1..1	integer	trigger unique identifier

3.2. Response

XML element		Card	Type	Description
DeleteTriggerResponse				
	deletedTriggerIdentifier	1..1	integer	trigger identifier deleted

3.3. SOAP faults

3.3.1. MalimaErrorFault

XML element		Card	Type	Description
faultcode		1..1	string	Soap fault code
faultstring		1..1	string	Soap fault error string
MalimaError		1..1		
	code	1..1	string	Malima error code
	message	1..1	string	Malima error message

faultstring values : A Malima plateforme error has occurred.
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.
MLM_SOAP_HEADER_ERROR	<soap header error specific message>
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 header error specific message>
Paramètres manquant : <paramètre manquant>
Paramètres du Header Soap invalides.

3.3.2. UnknownTriggerIdentifierFault

XML element		Card	Type	Description
faultcode		1..1	string	Soap fault code
faultstring		1..1	string	Soap fault error string
UnknownTriggerIdentifierError		1..1		
	triggerIdentifier	1..1	int	The unknown trigger identifier

4. Update Trigger

4.1. Request

XML element	Card	Type	Description
UpdateTriggerRequest			
triggerIdentifier	1..1	integer	unique trigger identifier
triggerCriteria	1..1		The conditions which will be used to check CDRs and raise alarms
[c] trafficTimestampCriteria	1..1		The condition for timestamp alarms
allowedPeriods	1..1		The periods when CDRs are allowed
@scale	1..1	Scale	enum defined hour or day (attribute)
period	1..2		The periods when CDRs are allowed (Bounds are in minutes if scale is hour_per_day or in days if scale is day_per_month)
begin	1..1	integer	The period start
end	1..1	integer	The period end
[c] trafficLocationCriteria	1..1		The condition for location alarms
allowedCountriesAndOperators	1..1		List of countries and operators for which CDRs are allowed (All other will raise an alarm)
country	1..n		The countries set and their operators that are allowed by the trigger
countryCode	1..1	integer	The code of the country
operators	0..1		The operators set found in CDRs that raised the alarm
operatorCode	1..n	string	The code of the operator
[c] trafficGlobalThresholdCriteria	1..1		The condition for global threshold alarms. An alarm will be raised if the accumulated value from CDR of all subscriptions of the customer overtook the threshold value for the defined bearer
[c] roaming	1..1		Restriction for roaming CDR
trafficRestriction	1..1		
value	1..1	positiveLong	The threshold over which an alarm will be raised for this bearer
bearer	1..1	Bearer	The restricted bearer
communicationWay	0..1	CommunicationWay	The direction of traffic to supervise
[c] local	1..1		Restriction for local CDR
trafficRestriction	1..1		
value	1..1	positiveLong	The threshold over which an alarm will be raised for this bearer
bearer	1..1	Bearer	The restricted bearer
communicationWay	0..1	CommunicationWay	The direction of traffic to supervise
[c] allOrigin	1..1		Restriction for allOrigin CDR
trafficRestriction	1..1		
value	1..1	positiveLong	The threshold over which an alarm will be raised for this bearer
bearer	1..1	Bearer	The restricted bearer
communicationWay	0..1	CommunicationWay	The direction of traffic to supervise
[c] trafficUnitaryThresholdCriteria	1..1		The condition for unitary threshold alarms. An alarm will be raised if the accumulated value from CDR of one subscription of the customer overtook the threshold value for the defined bearer
[c] roaming	1..1		Restriction for roaming CDR
trafficRestriction	1..1		
value	1..1	positiveLong	The threshold over which an alarm will be raised for this bearer
bearer	1..1	Bearer	The restricted bearer
communicationWay	0..1	CommunicationWay	The direction of traffic to supervise
[c] local	1..1		Restriction for local CDR
trafficRestriction	1..1		
value	1..1	positiveLong	The threshold over which an alarm will be raised for this bearer
bearer	1..1	Bearer	The restricted bearer
communicationWay	0..1	CommunicationWay	The direction of traffic to supervise
[c] allOrigin	1..1		Restriction for allOrigin CDR
trafficRestriction	1..1		
value	1..1	positiveLong	The threshold over which an alarm will be raised for this bearer
bearer	1..1	Bearer	The restricted bearer
communicationWay	0..1	CommunicationWay	The direction of traffic to supervise
[c] trafficBearerCriteria	1..1		The condition for bearer alarms
allowedBearers	1..1		List of allowed bearers
bearer	1..n	Bearer	The restricted bearer
[c] updateImeiCriteria	1..1		Active a trigger which raises alarms on IMEI update
[c] trafficLazyMachineCriteria	1..1		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	1..1	CallOrigin	enum defined the CallOrigin list
bearer	1..1	Bearer	The restricted bearer
communicationWay	0..1	CommunicationWay	The direction of traffic to supervise
value	1..1	positiveLong	The threshold under which an alarm will be raised for this call origin, bearer type and period
period	1..1	integer	The last number of days for which if the 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
[c] trafficCrazyMachineCriteria	1..1		Conditions for crazy machine alarms. An alarm will be raised if the cumulated traffic for given call origin and bearer type exceeds the given threshold for the given period

		callOrigin	1..1	CallOrigin	Enum. Defines the call origin
		bearer	1..1	Bearer	Enum. Defines the bearer type
		communicationWay	0..1	CommunicationWay	The direction of traffic to supervise
		value	1..1	positiveLong	The threshold above which an alarm will be raised for this call origin, bearer type and period
		period	1..1	integer	The number of days along which traffic is cumulated for given call origin and bearer type
	[C]	trafficSilentMachineCriteria	1..1		The condition for silent machine alarms. Alarms will be raised for lines that have no outgoing communications in the last period defined
		period	1..1	integer	The last number of days for which if there is no outgoing communications for a line, an alarm will be raised
	[C]	subscriptionStatusChangeCriteria	1..1		The condition for subscription status change alarms. Alarms will be raised if M2M subscription status change (Sim status in Malima)
		watchedM2MSubscriptionStatuses	1..1		The list of M2M subscription status to detect
		status	1..n	string	M2M subscription status (Sim Status in Malima)
	[C]	subscriptionOptionChangeCriteria	1..1		The condition for subscription option change alarms. Alarms will be raised when subscription options are added or deleted,
		watchedSubscriptionOptions	1..1		The list of option code services to detect
		option	1..n	string	Option code service (ofr_services_catalog in Malima)
		optionChangeTypes	1..1		The list of option change type to detect
		optionChangeType	1..n	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
		notification	1..1	boolean	Flag to ask a notification at the customer URL
		notificationByMail	0..1	boolean	Flag to ask a notification at the customer email
		level	1..1	Level	Alarm priority level
		status	1..1	TriggerStatus	The status in which the trigger must be set
		groupId	0..1	integer	Used to group several triggers
		comment	0..1	string	Comment/description for this trigger
		businessRules	0..1		WARNING: If empty, all business rules of any type are removed from database
		slmBusinessRule	0..1		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	1..1	string	The SIM requested status.

4.2. Response

XML element	Card	Type	Description
UpdateTriggerResponse			
updatedTriggerIdentifier	1..1	integer	unique trigger identifier

4.3. SOAP faults

4.3.1. MalimaErrorFault

XML element	Card	Type	Description
faultcode	1..1	string	Soap fault code
faultstring	1..1	string	Soap fault error string
MalimaError	1..1		
code	1..1	string	Malima error code
message	1..1	string	Malima error message

faultstring values : A Malima plateforme error has occurred.

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.
MLM_SOAP_HEADER_ERROR	<soap header error specific message>
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>.
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>

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

4.3.2. TriggerFault

XML element		Card	Type	Description
faultcode		1..1	string	Soap fault code
faultstring		1..1	string	Soap fault error string
TriggerError		1..1		
	message	1..1	string	Trigger error message

4.3.3. UnknownTriggerIdentifierFault

XML element		Card	Type	Description
faultcode		1..1	string	Soap fault code
faultstring		1..1	string	Soap fault error string
UnknownTriggerIdentifierError		1..1		
	triggerIdentifier	1..1	int	The unknown trigger identifier

5. List Triggers

5.1. Request

XML element	Card	Type	Description
ListTriggersRequest			
triggerIdentifiers	1..1		
triggerIdentifier	1..n	integer	unique trigger identifier
lineIdentifiers	1..1		Line identifier
subscriptionNumber	1..n	string	Subscription numbers
simSerialNumber	1..n	string	SIM serial number
deviceImei	1..n	string	Device IMEI
deviceSerialNumber	1..n	string	Device serial number
deviceUniqueid	1..n	string	Device unique ids
machineSerialNumber	1..n	string	Machine serial numbers
msisdVoice	1..n		Voice MSISDN
cc	1..1	string	Country code
sn	1..1	string	Subscriber number
msisdData	1..n		Data MSISDN
cc	1..1	string	Country code
sn	1..1	string	Subscriber number
msisdFax	1..n		Fax MSISDN
cc	1..1	string	Country code
sn	1..1	string	Subscriber number
customerEnvironnementNumber	1..1	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.
customGroups	1..1		List of groups base on customized fields
customGroup	1..n		The list of custom group of trigger
customLabel	1..1	string	The label of custom group
customValue	1..1	string	The value of custom group
showAllOriginTrafficTriggers	0..1	boolean	if true then Triggers on ALL_ORIGIN traffic will be returned
showMachineTriggers	0..1	boolean	if true then Triggers on Machine traffic will be returned
showExtendedTriggers	0..1	boolean	if true then extended fields will be returned
showSubscriptionStatusChangeTriggers	0..1	boolean	if true then Trigger on M2M subscription status change will be returned
showSubscriptionOptionChangeTriggers	0..1	boolean	if true then Trigger on M2M subscription option code service change will be returned
showBusinessRules	0..1	boolean	If true then the business rules linked to triggers are displayed in response. Default is <i>false</i> .
showCustomGroupTriggers	0..1	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 <i>false</i> .
showTriggerCommunicationWay	0..1	boolean	If true then the "communicationWay" value is returned. If false then no "communicationWay" value is returned. Default is <i>false</i> .

5.2. Response

XML element	Card	Type	Description
listTriggersResponse			
triggers	0..1		
trigger	1..n		
scope	1..1		
subscriptionNumber	1..1	string	Subscription identifier
customerEnvironnementNumber	1..1	string	The identifier for the customer hierarchy level 2 node (the node_uid LVL2)
customGroups	1..1		The list of group of trigger based on customized fields
customGroup	1..n		The group of trigger based on customized fields
customLabel	1..1	string	The label of group
customValue	1..1	string	The value of group
triggerIdentifier	1..1	integer	The trigger identifier
triggerType	1..1	TriggerType	Type of the trigger that threw the alarm
triggerCriteria	1..1		The conditions which will be used to check CDRs and raise alarms
trafficTimestampCriteria	1..1		The condition for timestamp alarms
allowedPeriods	1..1		The periods when CDRs are allowed
@scale	1..1	Scale	enum defined hour or day (attribute)
period	1..2		The periods when CDRs are allowed (Bounds are in minutes if scale is hour_per_day or in days if scale is day_per_month)

		begin	1..1	integer	The period start
		end	1..1	integer	The period end
[C]		trafficLocationCriteria	1..1		The condition for location alarms
		allowedCountriesAndOperators	1..1		List of countries and operators for which CDRs are allowed (All other will raise an alarm)
		country	1..n		The countries set and their operators that are allowed by the trigger
		countryCode	1..1	integer	The code of the country
		operators	0..1		The operators set found in CDRs that raised the alarm
		operatorCode	1..n	string	The code of the operator
[C]		trafficGlobalThresholdCriteria	1..1		The condition for global threshold alarms. An alarm will be raised if the accumulated value from CDR of all subscriptions of the customer overtook the threshold value for the defined bearer
	[C]	roaming	1..1		Restriction for roaming CDR
		trafficRestriction	1..1		
		value	1..1	positiveLong	The threshold over which an alarm will be raised for this bearer
		bearer	1..1	Bearer	The restricted bearer
		communicationWay	0..1	CommunicationWay	The direction of traffic to supervise ONLY showed If showTriggerCommunicationWay is set to true in the request.
	[C]	local	1..1		Restriction for local CDR
		trafficRestriction	1..1		
		value	1..1	positiveLong	The threshold over which an alarm will be raised for this bearer
		bearer	1..1	Bearer	The restricted bearer
		communicationWay	0..1	CommunicationWay	The direction of traffic to supervise ONLY showed If showTriggerCommunicationWay is set to true in the request.
	[C]	allOrigin	1..1		Restriction for all origin CDR. (Local + Roaming). ONLY showed If showAllOriginTrafficTriggers is set to true in the request.
		trafficRestriction	1..1		
		value	1..1	positiveLong	The threshold over which an alarm will be raised for this bearer
		bearer	1..1	Bearer	The restricted bearer
		communicationWay	0..1	CommunicationWay	The direction of traffic to supervise ONLY showed If showTriggerCommunicationWay is set to true in the request.
[C]		trafficUnitaryThresholdCriteria	1..1		The condition for unitary threshold alarms. An alarm will be raised if the accumulated value from CDR of one subscription of the customer overtook the threshold value for the defined bearer
	[C]	roaming	1..1		Restriction for roaming CDR
		trafficRestriction	1..1		
		value	1..1	positiveLong	The threshold over which an alarm will be raised for this bearer
		bearer	1..1	Bearer	The restricted bearer
		communicationWay	0..1	CommunicationWay	The direction of traffic to supervise ONLY showed If showTriggerCommunicationWay is set to true in the request.
	[C]	local	1..1		Restriction for local CDR
		trafficRestriction	1..1		
		value	1..1	positiveLong	The threshold over which an alarm will be raised for this bearer
		bearer	1..1	Bearer	The restricted bearer
		communicationWay	0..1	CommunicationWay	The direction of traffic to supervise ONLY showed If showTriggerCommunicationWay is set to true in the request.
	[C]	allOrigin	1..1		Restriction for all origin CDR. (Local + Roaming). ONLY showed If showAllOriginTrafficTriggers is set to true in the request.
		trafficRestriction	1..1		
		value	1..1	positiveLong	The threshold over which an alarm will be raised for this bearer
		bearer	1..1	Bearer	The restricted bearer
		communicationWay	0..1	CommunicationWay	The direction of traffic to supervise ONLY showed If showTriggerCommunicationWay is set to true in the request.
[C]		trafficBearerCriteria	1..1		The condition for bearer alarms
		allowedBearers	1..1		List of allowed bearers
		bearer	1..n	Bearer	The restricted bearer
[C]		updateImeiCriteria	1..1		Type for trigger which raises alarms on IMEI update
[C]		trafficLazyMachineCriteria	1..1		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	1..1	CallOrigin	enum defined the CallOrigin list
		bearer	1..1	Bearer	The restricted bearer
		communicationWay	0..1	CommunicationWay	The direction of traffic to supervise ONLY showed If showTriggerCommunicationWay is set to true in the request.

			value	1..1	positiveLong	The threshold under which an alarm will be raised for this call origin, bearer type and period		
			period	1..1	integer	The last number of days for which if the 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		
		[c] trafficCrazyMachineCriteria			1..1		Conditions for crazy machine alarms. An alarm will be raised if the cumulated traffic for given call origin and bearer type exceeds the given threshold for the given period	
			callOrigin	1..1	CallOrigin	Enum. Defines the call origin		
			bearer	1..1	Bearer	Enum. Defines the bearer type		
			communicationWay	0..1	CommunicationWay	The direction of traffic to supervise ONLY showed If showTriggerCommunicationWay is set to true in the request.		
			value	1..1	positiveLong	The threshold above which an alarm will be raised for this call origin, bearer type and period		
			period	1..1	integer	The number of days along which traffic is cumulated for given call origin and bearer type		
		[c] trafficSilentMachineCriteria			1..1		The condition for silent machine alarms. Alarms will be raised for lines that have no outgoing communications in the last period defined	
			period	1..1	integer	The last number of days for which if there is no outgoing communications for a line, an alarm will be raised		
		[c] subscriptionStatusChangeCriteria			1..1		The condition for subscription status change alarms. Alarms will be raised if M2M subscription status change (Sim status in Malima)	
			watchedM2MSubscriptionStatuses		1..1		The list of M2M subscription status to detect	
				status	1..n	string	M2M subscription status (Sim Status in Malima)	
		[c] subscriptionOptionChangeCriteria			1..1		The condition for subscription option change alarms. Alarms will be raised when subscription options are added or deleted,	
				watchedSubscriptionOptions		1..1		The list of option code services to detect
					option	1..n	string	Option code service (ofr_services_catalog in Malima)
				optionChangeTypes		1..1		The list of option change type to detect
	optionChangeType			1..n	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		
	notification			1..1	boolean	Flag to ask a notification at the customer URL		
	notificationByMail			1..0	boolean	Flag to ask a notification at the customer email		
	level			1..1	Level	Alarm priority level		
	status			1..1	TriggerStatus	The current status of the trigger		
	groupId			0..1	integer	Used to group several triggers		
	comment			0..1	string	Comment/description for this trigger		
	businessRules			0..1				
		slmBusinessRule		0..1		Business rule dedicated to SLM		
			requestedStatus	1..1	string	The SIM requested status that is applied to all lines linked to raised alarms for this trigger.		
	unknownTriggers			0..1		List of unknown given trigger identifiers		
	triggerIdentifier			1..n	integer			
unknownLineIdentifiers			0..1		List of unknown given line identifiers			
		[c] subscriptionNumber			1..n	string	subscription Number	
		[c] simSerialNumber			1..n	string	SIM serial number	
		[c] deviceImei			1..n	string	Device IMEI	
		[c] deviceSerialNumber			1..n	string	Device serial number	
		[c] deviceUniqueid			1..n	string	Device unique ids	
		[c] machineSerialNumber			1..n	string	Machine serial numbers	
		[c] msisdVoice			1..n		Voice MSISDN	
			cc	1..1	string	Country code		
			sn	1..1	string	Subscriber number		
		[c] msisdData			1..n		Data MSISDN	
			cc	1..1	string	Country code		
			sn	1..1	string	Subscriber number		
		[c] msisdFax			1..n		Fax MSISDN	
			cc	1..1	string	Country code		
			sn	1..1	string	Subscriber number		
unknownCustomGroups			0..1		List of unknown provided custom group.			
	customGroup			1..n		The unknown groups of trigger based on customized fields		
		customLabel	1..1	string	The custom group label			
		customValue	1..1	string	The custom group value			

5.3. SOAP faults

5.3.1. MalimaErrorFault

XML element	Card	Type	Description
faultcode	1..1	string	Soap fault code

faultstring	1..1	string	Soap fault error string
MalimaError	1..1		
code	1..1	string	Malima error code
message	1..1	string	Malima error message

faultstring values : A Malima plateforme error has occurred.
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.
MLM_SOAP_HEADER_ERROR	<soap header error specific message>
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 header error specific message>
Paramètres manquant : <paramètre manquant>
Paramètres du Header Soap invalides.

5.3.2. UnknownCustomerEnvironnementNumberFault

XML element	Card	Type	Description
faultcode	1..1	string	Soap fault code
faultstring	1..1	string	Soap fault error string
UnknownCustomerEnvironnementNumberError	1..1		
customerEnvironnementNumber	1..1	string	The unknown customer environnement identifier

5.3.3. TooManyResultsFault

XML element	Card	Type	Description
faultcode	1..1	string	Soap fault code
faultstring	1..1	string	Soap fault error string
tooManyResultsError	1..1		
maxAllowedResults	1..1	int	the maximum of allowed results in the response

6. Get Alarms

6.1. Request

XML element	Card	Type	Description
GetAlarmsRequest			
alarmIdentifiers	1..1		
alarmIdentifier	1..n	integer	The alarm unique identifier
showAlarmStatus	0..1	boolean	if true then "alarmStatus" and "alarmStatusComment" fields will be returned
showAllOriginTrafficAlarms	0..1	boolean	if true then Alarms on ALL_ORIGIN traffic will be returned
showMachineAlarms	0..1	boolean	if true then Alarms on Machine will be returned
showExtendedAlarms	0..1	boolean	if true then extended fields will be returned
showSubscriptionStatusChangeAlarms	0..1	boolean	if true then Alarms on M2M subscription status change will be returned
showSubscriptionOptionChangeAlarms	0..1	boolean	if true then Alarms on M2M subscription option change will be returned
showBusinessRules	0..1	boolean	If true then the business rules linked to alarms are displayed in response. Default is <i>false</i> .
showTriggerScope	0..1	boolean	If true then the scope of trigger linked to alarms is displayed in response. Default is <i>false</i> .
showTriggerCommunicationWay	0..1	boolean	If true then the "communicationWay" value is returned. If false then no "communicationWay" value is returned. Default is <i>false</i> .

6.2. Response

XML element	Card	Type	Description
GetAlarmsResponse			
unknownAlarmIdentifiers	0..1		The list of alarm identifiers for which no alarm exists or does not belong to customer
unknownAlarmIdentifier	1..n	string	An alarm identifier for which no alarm exists or does not belong to customer
alarms	0..1		
alarm	1..n		
alarmIdentifier	1..1	integer	The alarm unique identifier
creationDate	1..1	date	The date when the alarm was created
level	1..1	Level	The priority level defined in the trigger which raised the alarm
alarmStatus	0..1	string	The status of the alarm
alarmStatusComment	0..1	string	The comment linked to the status of the alarm
customerEnvironmentNumber	1..1	string	The identifier for the customer hierarchy level 2 node (the node_uid LVL2)
subscriptionNumber	0..1	string	The subscription identifier
notificationDate	0..1	date	The date when notification occurred (if occurred)
notificationResultCode	0..1	integer	The result code of the notification (if occurred)
notifiedUrl	0..1	string	The URL used to notify
mailNotificationAddress	0..1	string	The destination email of the mail notification.ONLY showed If showExtendedAlarms is set to true in the request.
mailNotificationDate	0..1	date	The date of the mail notification.ONLY showed If showExtendedAlarms is set to true in the request.
mailNotificationResultCode	0..1	integer	The result code of the mail notification.ONLY showed If showExtendedAlarms is set to true in the request.
mailNotificationResultMessage	0..1	string	The result message of the mail notification.ONLY showed If showExtendedAlarms is set to true in the request.
notificationResultMessage	0..1	string	The result message of the notification (if occurred)
^[C] nbAlarmExceeded	1..1		Alarm that was raised when the quota is exceeded
quota	1..1	integer	The maximum number of alarms
triggerIdentifier	1..1	integer	Identifier of the trigger that threw the alarm
^[C] triggeredAlarm	1..1		Alarm that was raised by a trigger
notificationRequired	1..1	boolean	true if the alarm required notification when the alarm is raised
notificationByMailRequired	0..1	boolean	True if the alarm required notification by mail.ONLY showed If showExtendedAlarms is set to true in the request.
triggerIdentifier	1..1	integer	The identifier of the trigger which raised the alarm
triggerComment	0..1	string	The comment of the trigger when it raises the alarm
triggerGroupId	0..1	integer	The identifier of the trigger group when it raises the alarm
triggerType	1..1	TriggerType	The trigger type
triggerScope	0..1		The scope of trigger
^[C] subscriptionNumber	1..1	string	Subscription identifier
^[C] customerEnvironmentNumber	1..1	string	The identifier for the customer hierarchy level 2 node (the node_uid LVL2)
^[C] customGroups	1..1		The list of group of trigger based on customized fields
customGroup	1..n		The group of trigger based on customized fields

		customLabel	1..1	string	The label of group
		customValue	1..1	string	The value of group
		triggerCriteria	1..1		The condition which was used to raise alarm
		^[C] trafficTimestampCriteria	1..1		The timestamp condition which was used to raise the alarm and data about the timestamp alarm
		firstEventDate	1..1	date	The date of the first CDR (the oldest) which involved the alarm
		lastEventDate	1..1	date	The date of the last CDR (the earliest) which involved the alarm
		eventCount	1..1	integer	The number of CDRs which involved the alarm
		allowedPeriods	1..1		The trigger period condition when CDRs are allowed (that means CDRs which involved the alarm, were sent out of this period)
		@scale	1..1	Scale	The scale of the period : hours or days
		period	1..2		
		begin	1..1	integer	the period start bound when the alarm is raised
		end	1..1	integer	the period end bound when the alarm is raised
		^[C] trafficLocationCriteria	1..1		The location condition which was used to raise the alarm and data about the location alarm
		firstEventDate	1..1	date	The date of the first CDR (the oldest) which involved the alarm
		lastEventDate	1..1	date	The date of the last CDR (the earliest) which involved the alarm
		eventCount	1..1	integer	The number of CDRs which involved the alarm
		forbiddenCountriesAndOperators	1..1		The list of countries and operators found in CDRs that raised the alarm
		country	1..n		The countries set and their operators found in CDRs that involved the alarm
		countryCode	1..1	integer	The code of the country
		operators	0..1		The operators set found in CDRs that raised the alarm
		operatorCode	1..n	string	The code of the operator
		allowedCountriesAndOperators	1..1		The list of countries and operators that were allowed by the trigger when it raises the alarm (So there is no match between forbiddenCountriesAndOperators and AllowedCountriesAndOperators)
		country	1..n		The countries set and their operators that were allowed by the trigger
		countryCode	1..1	integer	The code of the country
		operators	0..1		The operators set found in CDRs that raised the alarm
		operatorCode	1..n	string	The code of the operator
		^[C] trafficUnitaryThresholdCriteria	1..1		The unitary threshold condition which was used to raise the alarm and data about the unitary threshold alarm
		bearertype	1..1	Bearer	The bearertype of the CDRs monitored by the trigger
		communicationWay	0..1	CommunicationWay	The direction of traffic to supervise ONLY showed If showTriggerCommunicationWay is set to true in the request.
		roaming	1..1	boolean	True for roaming traffic, false for local traffic
		callOrigin	0..1	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	1..1	positiveLong	The threshold value defined in the trigger for one subscription of the customer and matching with bearer type and roaming
		triggeringValue	1..1	positiveLong	The value computed from CDRs from one subscription of the customer and matching with bearer type and roaming, that overtook the threshold
		^[C] trafficGlobalThresholdCriteria	1..1		The global threshold condition which was used to raise the alarm and data about the global threshold alarm
		bearertype	1..1	Bearer	The bearertype of the CDRs monitored by the trigger
		communicationWay	0..1	CommunicationWay	The direction of traffic to supervise ONLY showed If showTriggerCommunicationWay is set to true in the request.
		roaming	1..1	boolean	True for roaming traffic, false for local traffic
		callOrigin	0..1	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	1..1	positiveLong	The threshold value defined in the trigger for all subscriptions of the customer and matching with bearer type and roaming
		triggeringValue	1..1	positiveLong	The value computed from CDRs from all subscriptions of the customer and matching with bearer type and roaming, that overtook the threshold
		^[C] trafficBearerCriteria	1..1		The bearer condition which was used to raise the alarm and data about the bearer alarm
		firstEventDate	1..1	date	The date of the first CDR (the oldest) which involved the alarm
		lastEventDate	1..1	date	The date of the last CDR (the earliest) which involved the alarm
		eventCount	1..1	integer	The number of CDRs which involved the alarm
		forbiddenBearerTypes	1..1		The bearer types found in CDRs that involved the alarm
		bearertype	1..n	Bearer	the bearer type
		allowedBearerTypes	1..1		The bearer types that were allowed by the trigger when it raises the alarm
		bearertype	1..n	Bearer	the bearer type
		^[C] updateImeiCriteria	1..1		Data about the imei alarm
		oldImei	1..1	string	The former imei
		lastOldImeiDate	1..1	date	The date of the last CDR with the old imei

					newImei	1..1	string	New imei
					firstNewImeiDate	1..1	date	The date of the first CDR with the new imei
					^[C] trafficLazyMachineCriteria	1..1		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	1..1	Bearer	enum defined the bearer list
					communicationWay	0..1	CommunicationWay	The direction of traffic to supervise ONLY showed If showTriggerCommunicationWay is set to true in the request.
					callOrigin	0..1	CallOrigin	enum defined the CallOrigin list.
					thresholdValue	1..1	positiveLong	The threshold value defined in the trigger for the subscription and matching with defined bearer type, call origin, and period
					triggeringValue	1..1	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	1..1	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
					^[C] trafficSilentMachineCriteria	1..1		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	1..1	integer	The last number of days for which there where no outgoing communications for lines
					^[C] trafficCrazyMachineCriteria	1..1		The crazy machine conditions which raise the alarm and related trigger criteria. Only shown if showMachineAlarms is set to true in the request.
					bearertype	1..1	Bearer	Enum. The bearer type defined in trigger criteria
					communicationWay	0..1	CommunicationWay	The direction of traffic to supervise ONLY showed If showTriggerCommunicationWay is set to true in the request.
					callOrigin	1..1	CallOrigin	Enum. The call origin defined in trigger criteria
					thresholdValue	1..1	positiveLong	The threshold value defined in trigger criteria, over which an alarm is raised
					triggeringValue	1..1	positiveLong	The cumulated value of the traffic for given bearer type, call origin and period which raises the alarm.
					period	1..1	integer	The period along which the traffic is cumulated, as defined in trigger criteria
					^[C] subscriptionStatusChangeCriteria			The M2M subscription status change condition which was used to raise the alarm and data about the M2M subscription status change alarm.ONLY showed if showSubscriptionStatusChangeAlarms is set to true in the request.
					detectedTargetStatus	1..1	string	The detected M2M subscription target status that has raised the alarm.
					updateStatusDate	1..1	dateTime	The date of the M2M subscription status update in Malima.
					^[C] subscriptionOptionChangeCriteria	1..1		The M2M subscription option code service change condition which was used to raise the alarm and data about the M2M subscription option change alarm.ONLY showed if showSubscriptionOptionChangeAlarms is set to true in the request.
					option	1..1	string	The detected M2M subscription target option that has raised the alarm.
					description	1..1	string	The description of the detected M2M subscription target option that has raised the alarm.
					optionChangeType	1..1	string	The option change type defined in trigger criteria. WARNING: The content of the string must match one of the constants defined in the legend section on the right
					updateOptionDate	1..1	dateTime	The date of the M2M subscription option update in Malima.
					businessRules	0..1		
					triggeredSimBusinessRule	0..1		The SLM business rule triggered on the line for this alarm
					requestedStatus	1..1	string	The SIM requested status
					taskStatus	0..1	string	The SLM task status
					errorCode	0..1	string	The error code if an error occurred during SLM ticket processing
					errorMessage	0..1	string	The error message if an error occurred during SLM ticket processing

6.3. SOAP faults

6.3.1. MalimaErrorFault

XML element		Card	Type	Description
faultcode		1..1	string	Soap fault code
faultstring		1..1	string	Soap fault error string
MalimaError		1..1		
	code	1..1	string	Malima error code
	message	1..1	string	Malima error message

faultstring values : A Malima platform error has occurred.

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

6.3.2. TooManyAlarmIdentifiersFault

XML element	Card	Type	Description
faultstring	1..1	string	Soap fault error string
TooManyAlarmIdentifiersError	1..1		
maxAllowedAlarmIdentifiersNumber	1..1	int	Maximum allowed alarm identifiers number

faultstring value: Too many alarm identifiers

7. Search Alarms

7.1. Request

XML element	Card	Type	Description
SearchAlarmsRequest			
searchByTargets	1..1		
lineIdentifiers	1..1		List of line identifiers
subscriptionNumber	1..n	string	Subscription numbers
simSerialNumber	1..n	string	SIM serial number
deviceImei	1..n	string	Device IMEI
deviceSerialNumber	1..n	string	Device serial number
deviceUniqueld	1..n	string	Device unique ids
machineSerialNumber	1..n	string	Machine serial numbers
msisdnVoice	1..n		Voice MSISDN
cc	1..1	string	Country code
sn	1..1	string	Subscriber number
msisdnData	1..n		Data MSISDN
cc	1..1	string	Country code
sn	1..1	string	Subscriber number
msisdnFax	1..n		Fax MSISDN
cc	1..1	string	Country code
sn	1..1	string	Subscriber number
customerEnvironnementNumber	1..1	string	Account identifier, . If this field is filled, its value is overwritten by the node_uid coming from the authentication header.
customGroups	1..1		
customGroup	1..n		List of custom groups to find
customLabel	1..1	string	The label of group
customValue	1..1	string	The value of group
groupId	0..1	integer	Group of triggers identifier
triggerType	0..1	TriggerType	Trigger type
level	0..1	Level	Minimum priority level of the alarms
searchByTriggers	1..1		
triggerIdentifiers	1..1		List of trigger identifiers
triggerIdentifier	1..n	integer	Trigger unique identifier
beginDate	0..1	date	First date when the alarms were triggered
endDate	0..1	date	Last date when the alarms were triggered
rangeSize	0..1	integer	Maximum number of results to retrieve per response * <i>Must be >= 1</i>
rangeStart	0..1	integer	Index of the first result to retrieve * <i>Must be >= 0</i>
showAlarmStatus	0..1	boolean	if true then "alarmStatus" and "alarmStatusComment" fields will be returned
showAllOriginTrafficAlarms	0..1	boolean	if true then Alarms on ALL_ORIGIN traffic will be returned
showMachineAlarms	0..1	boolean	if true then Alarms on Machine traffic will be returned
showExtendedAlarms	0..1	boolean	if true then extended fields will be returned
showSubscriptionStatusChangeAlarms	0..1	boolean	if true then Alarms on M2M subscription status change will be returned
showSubscriptionOptionChangeAlarms	0..1	boolean	if true then Alarms on M2M subscription option change will be returned
showBusinessRules	0..1	boolean	If true then the business rules linked to alarms are displayed in response. Default is <i>false</i> .
showTriggerScope	0..1	boolean	If true then the scope of trigger linked to alarms is displayed in response. Default is <i>false</i> .
showTriggerCommunicationWay	0..1	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	Type	Description
SearchAlarms			
alarms	0..1		
alarm	1..n		
alarmIdentifier	1..1	integer	The alarm unique identifier
creationDate	1..1	date	The date when the alarm was created
level	1..1	Level	The priority level defined in the trigger which raised the alarm
alarmStatus	0..1	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	0..1	string	The comment linked to the status of the alarm

customerEnvironmentNumber	1..1	string	The identifier for the customer hierarchy level 2 node (the node_uid LVL2)
subscriptionNumber	0..1	string	The subscription identifier
notificationDate	0..1	date	The date when notification occurred (if occurred)
notificationResultCode	0..1	integer	The result code of the notification (if occurred)
notifiedUrl	0..1	string	The URL used to notify
mailNotificationAddress	0..1	string	The destination email of the mail notification.ONLY showed If showExtendedAlarms is set to true in the request.
mailNotificationDate	0..1	date	The date of the mail notification.ONLY showed If showExtendedAlarms is set to true in the request.
mailNotificationResultCode	0..1	integer	The result code of the mail notification.ONLY showed If showExtendedAlarms is set to true in the request.
mailNotificationResultMessage	0..1	string	The result message of the mail notification.ONLY showed If showExtendedAlarms is set to true in the request.
notificationResultMessage	0..1	string	The result message of the notification (if occurred)
^[C] nbAlarmExceeded	1..1		Alarm that was raised when the quota is exceeded
quota	1..1	integer	The maximum number of alarms
triggerIdentifier	1..1	integer	Identifier of the trigger that threw the alarm
^[C] triggeredAlarm	1..1		Alarm that was raised by a trigger
notificationRequired	1..1	boolean	true if the alarm required notification when the alarm is raised
notificationByMailRequired	0..1	boolean	True if the alarm required notification by mail.ONLY showed If showExtendedAlarms is set to true in the request.
triggerIdentifier	1..1	integer	The identifier of the trigger which raised the alarm
triggerComment	0..1	string	The comment of the trigger when it raises the alarm
triggerGroupId	0..1	integer	The identifier of the trigger group when it raises the alarm
triggerType	1..1	TriggerType	The trigger type
triggerScope	0..1		The scope of trigger
^[C] subscriptionNumber	1..1	string	Subscription identifier
^[C] customerEnvironmentNumber	1..1	string	The identifier for the customer hierarchy level 2 node (the node_uid LVL2)
^[C] customGroups	1..1		The list of group of trigger based on customized fields
customGroup	1..n		The group of trigger based on customized fields
customLabel	1..1	string	The label of group
customValue	1..1	string	The value of group
triggerCriteria	1..1		The condition which was used to raise alarm
^[C] trafficTimestampCriteria	1..1		The timestamp condition which was used to raise the alarm and data about the timestamp alarm
firstEventDate	1..1	date	The date of the first CDR (the oldest) which involved the alarm
lastEventDate	1..1	date	The date of the last CDR (the earliest) which involved the alarm
eventCount	1..1	integer	The number of CDRs which involved the alarm
allowedPeriods	1..1		The trigger period condition when CDRs are allowed (that means CDRs which involved the alarm, were sent out of this period)
@scale	1..1	Scale	The scale of the period : hours or days
period	1..2		
begin	1..1	integer	the period start bound when the alarm is raised
end	1..1	integer	the period end bound when the alarm is raised
^[C] trafficLocationCriteria	1..1		The location condition which was used to raise the alarm and data about the location alarm
firstEventDate	1..1	date	The date of the first CDR (the oldest) which involved the alarm
lastEventDate	1..1	date	The date of the last CDR (the earliest) which involved the alarm
eventCount	1..1	integer	The number of CDRs which involved the alarm
forbiddenCountriesAndOperators	1..1		The list of countries and operators found in CDRs that raised the alarm
country	1..n		The countries set and their operators found in CDRs that involved the alarm
countryCode	1..1	integer	The code of the country
operators	0..1		The operators set found in CDRs that raised the alarm
operatorCode	1..n	string	The code of the operator
allowedCountriesAndOperators	1..1		The list of countries and operators that were allowed by the trigger when it raises the alarm (So there is no match between forbiddenCountriesAndOperators and AllowedCountriesAndOperators)
country	1..n		The countries set and their operators that were allowed by the trigger
countryCode	1..1	integer	The code of the country
operators	0..1		The operators set found in CDRs that raised the alarm
operatorCode	1..n	string	The code of the operator
^[C] trafficUnitaryThresholdCriteria	1..1		The unitary threshold condition which was used to raise the alarm and data about the unitary threshold alarm
bearerType	1..1	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 renvoi introuvable. paragraph "Bearer Type".

	communicationWay	0..1	CommunicationWay	The direction of traffic to supervise ONLY showed If showTriggerCommunicationWay is set to true in the request.
	roaming	1..1	boolean	Roaming
	callOrigin	0..1	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	1..1	positiveLong	The threshold value defined in the trigger for one subscription of the customer and matching with bearer type and roaming
	triggeringValue	1..1	positiveLong	The value computed from CDRs from one subscription of the customer and matching with bearer type and roaming, that overtook the threshold
	^[C] trafficGlobalThresholdCriteria	1..1		The global threshold condition which was used to raise the alarm and data about the global threshold alarm
	bearerType	1..1	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 renvoi introuvable. paragraph "Bearer Type".
	communicationWay	0..1	CommunicationWay	The direction of traffic to supervise ONLY showed If showTriggerCommunicationWay is set to true in the request.
	roaming	1..1	boolean	Roaming
	callOrigin	0..1	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	1..1	positiveLong	The threshold value defined in the trigger for all subscriptions of the customer and matching with bearer type and roaming
	triggeringValue	1..1	positiveLong	The value computed from CDRs from all subscriptions of the customer and matching with bearer type and roaming, that overtook the threshold
	^[C] trafficBearerCriteria	1..1		The bearer condition which was used to raise the alarm and data about the bearer alarm
	firstEventDate	1..1	date	The date of the first CDR (the oldest) which involved the alarm
	lastEventDate	1..1	date	The date of the last CDR (the earliest) which involved the alarm
	eventCount	1..1	integer	The number of CDRs which involved the alarm
	forbiddenBearerTypes	1..1		The bearer types found in CDRs that involved the alarm
	bearerType	1..n	string	the bearer type WARNING: The content of the string must match one of the constants defined in the chapter Erreur ! Source du renvoi introuvable. paragraph "Bearer Type".
	allowedBearerTypes	1..1		The bearer types that were allowed by the trigger when it raises the alarm
	bearerType	1..n	string	the bearer type WARNING: The content of the string must match one of the constants defined in the chapter Erreur ! Source du renvoi introuvable. paragraph "Bearer Type".
	^[C] updateImeiCriteria	1..1		Data about the imei alarm
	oldImei	1..1	string	The former imei
	lastOldImeiDate	1..1	date	The date of the last CDR with the old imei
	newImei	1..1	string	New imei
	firstNewImeiDate	1..1	date	The date of the first CDR with the new imei
	^[C] trafficLazyMachineCriteria	1..1		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	1..1	Bearer	enum defined the bearer list
	communicationWay	0..1	CommunicationWay	The direction of traffic to supervise ONLY showed If showTriggerCommunicationWay is set to true in the request.
	callOrigin	0..1	CallOrigin	enum defined the CallOrigin list.
	thresholdValue	1..1	positiveLong	The threshold value defined in the trigger for the subscription and matching with defined bearer type, call origin, and period
	triggeringValue	1..1	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	1..1	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
	^[C] trafficSilentMachineCriteria	1..1		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	1..1	integer	The last number of days for which there were no outgoing communications for lines
	^[C] trafficCrazyMachineCriteria	1..1		The crazy machine conditions which raise the alarm and related trigger criteria. Only shown if showMachineAlarms is set to true in the request.
	bearerType	1..1	Bearer	Enum. The bearer type defined in trigger criteria

				communicationWay	0..1	CommunicationWay	The direction of traffic to supervise ONLY showed If showTriggerCommunicationWay is set to true in the request.
				callOrigin	1..1	CallOrigin	Enum. The call origin defined in trigger criteria
				thresholdValue	1..1	positiveLong	The threshold value defined in trigger criteria, over which an alarm is raised
				triggeringValue	1..1	positiveLong	The cumulated value of the traffic for given bearer type, call origin and period which raises the alarm.
				period	1..1	integer	The period along which the traffic is cumulated, as defined in trigger criteria
				[C] subscriptionStatusChangeCriteria			The M2M subscription status change condition which was used to raise the alarm and data about the M2M subscription status change alarm.ONLY showed if showSubscriptionStatusChangeAlarms is set to true in the request.
					1..1		
				detectedTargetStatus	1..1	string	The detected M2M subscription target status that has raised the alarm.
				updateStatusDate	1..1	dateTime	The date of the M2M subscription status update in Malima.
				[C] subscriptionOptionChangeCriteria	1..1		The M2M subscription option code service change condition which was used to raise the alarm and data about the M2M subscription option change alarm.ONLY showed if showSubscriptionOptionChangeAlarms is set to true in the request.
				option	1..1	string	The detected M2M subscription target option that has raised the alarm.
				description	1..1	string	The description of the detected M2M subscription target option that has raised the alarm.
				optionChangeType	1..1	string	The option change type defined in trigger criteria. WARNING: The content of the string must match one of the constants defined in the legend section on the right
				updateOptionDate	1..1	dateTime	The date of the M2M subscription option update in Malima.
				businessRules	0..1		
				triggeredSImBusinessRule	0..1		The SLM business rule triggered on the line for this alarm
				requestedStatus	1..1	string	The SIM requested status
				taskStatus	0..1	string	The SLM task status
				errorCode	0..1	string	The error code if an error occurred during SLM ticket processing
				errorMessage	0..1	string	The error message if an error occurred during SLM ticket processing
				[C] unknownLineIdentifiers	0..1		The list of line identifiers for which no subscription exists or does not belong to customer
				[C] subscriptionNumber	1..n	string	subscription Number
				[C] simSerialNumber	1..n	string	SIM serial number
				[C] deviceImei	1..n	string	Device IMEI
				[C] deviceSerialNumber	1..n	string	Device serial number
				[C] deviceUniqueld	1..n	string	Device unique ids
				[C] machineSerialNumber	1..n	string	Machine serial numbers
				[C] msisdVoice	1..n		Voice MSISDN
				cc	1..1	string	Country code
				sn	1..1	string	Subscriber number
				[C] msisdData	1..n		Data MSISDN
				cc	1..1	string	Country code
				sn	1..1	string	Subscriber number
				[C] msisdFax	1..n		Fax MSISDN
				cc	1..1	string	Country code
				sn	1..1	string	Subscriber number
				[C] unknownTriggers	0..1		The list of trigger identifiers for which no trigger exists or does not belong to customer
				triggerIdentifier	1..n	integer	A trigger identifier for which no alarm exists or does not belong to customer
				[C] unknownCustomGroups	0..1		The list of unknown provided custom group.
				customGroup	1..n		The unknown groups of trigger based on customized fields
				customLabel	1..1	string	The custom group label
				customValue	1..1	string	The custom group value
				resultsNumberExceeded	1..1	boolean	True if the number of results is greater than the "rangeSize" request parameter False by default
				totalResultsNumber	1..1	integer	Total number of results

7.3. SOAP faults

7.3.1. MalimaErrorFault

XML element		Card	Type	Description
faultcode		1..1	string	Soap fault code
faultstring		1..1	string	Soap fault error string
MalimaError		1..1		
	code	1..1	string	Malima error code
	message	1..1	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.
MLM_SOAP_HEADER_ERROR	<soap header error specific message>
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 header error specific message>
Paramètres manquant : <paramètre manquant>
Paramètres du Header Soap invalides.

7.3.2. UnknownCustomerEnvironnementNumberFault

XML element	Card	Type	Description
faultcode	1..1	string	Soap fault code
faultstring	1..1	string	Soap fault error string
UnknownCustomerEnvironnementNumberError	1..1		
customerEnvironnementNumber	1..1	string	The unknown customer environnement identifier

7.3.3. TooManyResultsFault

XML element	Card	Type	Description
faultcode	1..1	string	Soap fault code
faultstring	1..1	string	Soap fault error string
tooManyResultsError	1..1		
maxAllowedResults	1..1	int	the maximum of allowed results in the response

8. Manage Alarms

8.1. Request

XML element		Card	Type	Description
ManageAlarmsRequest				
	alarmInformations	1..1		
	alarmInformation	1..n		
	alarmIdentifier	1..1	integer	The alarm unique identifier
	alarmStatus	1..1	string	The alarm status WARNING: The content of the string must match one of the constants defined in <i>alarm.properties</i> file.
	alarmStatusComment	0..1	string	The alarm comment

8.2. Response

XML element		Card	Type	Description
ManageAlarmsResponse				
	alarmIdentifiers	0..1		The list of alarm identifiers for which input data are correct
	alarmIdentifier	1..n	integer	An alarm identifier for which input data are correct
	unknownAlarmIdentifiers	0..1		The list of alarm identifiers for which no alarm exists or does not belong to customer
	alarmIdentifier	1..n	integer	An alarm identifier for which the process is successful
	alarmIdentifiersWithUnknownStatus	0..1		The list of alarm identifiers for which the status is unknown
	alarmIdentifier	1..n	integer	An alarm identifier for which the status is unknown

8.3. SOAP faults

8.3.1. MalimaErrorFault

XML element		Card	Type	Description
faultcode		1..1	string	Soap fault code
faultstring		1..1	string	Soap fault error string
MalimaError		1..1		
	code	1..1	string	Malima error code
	message	1..1	string	Malima error message

faultstring values : A Malima plateforme error has occurred.
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.
MLM_SOAP_HEADER_ERROR	<soap header error specific message>
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 header error specific message>
Paramètres manquant : <paramètre manquant>
Paramètres du Header Soap invalides.

8.3.2. TooManyAlarmIdentifiersFault

XML element		Card	Type	Description
faultstring		1..1	string	Soap fault error string
TooManyAlarmIdentifiersError		1..1		
	maxAllowedAlarmIdentifiersNumber	1..1	int	Maximum allowed alarm identifiers number

faultstring value: Too many alarm identifiers