Malima

Orange

Connectivity Directory Interface
Description

Reference: DVS107-WSDL-CD.docx S1F30
Date: 06/07/2016

Description of the document

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Client	Orange
Project title	Malima
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Version history

IC Version	GooRooCoo	WSDL version	Operation	Date
S0F1	-		Creation	20/11/2009
S1F0	-		Orange model Add UpdateCustomerDeviceData in Connectivity Directory service	23/11/2009
S1F1	-		Update for V1 sprint 3	08/12/2009
S1F2	-		PO feedbacks application	17/12/2009
S1F3	-		Delete Geoloc Informations	05/01/2010
	-		Add informations in UpCD - Req	07/01/2009
S1F4	-		Rectifications in the faults description	22/01/2010
S1F5	-		Cardinality changes	15/02/2010
S1F6	-		MLM_QUOTA_EXCEEDED error code added	21/05/2010
S1F7	-		MLM_SOAP_HEADER_ERROR error code added	18/03/2011
S1F8	-	1.1	Add the SimStatusDistribution on Search in CD.	26/07/2012
S1F9	-	1.4	GetCD response : Machine serialNumber and device Unique identifier are now 0..1 SearchInCD response : Machine serialNumber and device Unique identifier are now 0..1 UpdateCD request ; Machine serialNumber and device Unique identifier are now 0..1	17/06/2013
S1F10	-	1.6	harmonization with IOSW	17/06/2013
S1F11	-	1.6	GetCDResp & SearchCDResp : management of subscription-description-service field	08/07/2013
S1F12	-	1.7	GetCDReq & GetCDResp : in get request, imsi transmitted, in order to copy it in response	30/09/2013
S1F13	-	1.7	GetCDReq & GetCDResp : in get request, imsi transmitted, in order to copy it in response. Change implementation of IMSI field	15/10/2013
S1F14	-	1.7	Correction of QC1203 and unknowsImsi node	16/10/2013
S1F15	-	1.8	In node unknownsImsi : change choice to sequence	29/10/2013
S1F16	-	1.9	Change the cardinality of GetConnectivityDirectory request. Imsi and lineIdentifier minimum occurrences is set to 1.	18/11/2013
S1F17	G03R11C02	1.10	Convert document to WORD format. Add Device Info geolocation data to CD	23/01/2014
S1F18	G03R14C00	1.11	Evol CDDYN S1F7 : - add user/userRef as search criteria for SearchInCd - add subConnectionDate and subCreationDate as sort criteria in searchInCd - add the ICCID in GetCd response - add hierarchy details in GetCd/SearchInCd response - add imsi in GetCd/SearchInCd response	03/04/2014
S1F19	G03R14C00	1.11	Evol CDDYN S1F7 + move the imsi element under "connectivityDirectory" in the SearchInCD response + adapt comments for showHierarchyDetail, showIccid and showImsi to showDeviceInfo comment	08/04/2014
S1F20	G03R14C00	1.11	Evol CDDYN S1F7 + add precisions on the "showXX" flags (true/false/absent cases)	10/04/2014

S1F21	-	1.11	Evol CDDYN S1F7 + move the ICCID element under "connectivityDirectory" in the GetCD response	17/04/2014
S1F22	-	1.11	Modification of message for MLM_QUOTA_EXCEEDED SoapFault	05/05/2014
S1F23	G03R15C00	1.13	Fields order change in the GetCD request and searchCD request	11/06/2014
S1F24	G03R19C00	1.14	Update Get/Search/Update CD methods to add customized fields. Add CRUD methods to manage customized fields.	29/09/2014
S1F25	G03R21C00	1.14	Modify the description of the "deviceInfoCompatibility" field of the response of getCD and searchCD Remove enum UpdateConnectivityDirectoryError, replace by a String	30/01/2015
S1F26	G03R22C00	1.14	Modify "rangeSize" field description of the request of SearchInCD	03/04/2015
S1F27	G03R22C00	1.15	Use portal merged WSDL	17/04/2015
S1F28	G03R23C00	1.16	Add ShowIccid to SearchInCD	09/06/2015
S1F29	G03R25C00	1.17	Add submitConnectivityDirectoryExport and getConnectivityDirectoryExport	02/11/2015
			Add a malima error code returned by updateCD (MLM_TOO_MANY_LINE_IDS) cf.§4.3.1	25/11/2015
S1F30	G03R30C00	1.18	Add ICCID and VERSION in search and get CD	06/07/2016

Table of contents

1. Introduction

1.1. Subject of the document

The purpose of this document is to define the Connectivity Directory 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.
DIS	Device Info Service
STS	Smart Sim Service
CD	Connectivity Directory
SimStatus	String Possible values are : • PRE_ACTIVATED • ACTIVATED_FOR_TEST • ACTIVATED • SLEEPING • SUSPENDED • CANCELLED
SortOrder	Enumerated type. Values are : • ASC • DESC
SortAttribute	Enumerated type. Values are : • SIM_STATUS • STATUS_CHANGE_DATE • SIM_SSN • CONTACT • DEVICE_UNIQUE_IDENTIFIER • SUB_CONNECTION_DATE • SUB_CREATION_DATE
SimStatusStatistic	Int with extension attribute SimStatus
string30	String limited to 30 characters
string150	String limited to 150 characters
TicketStatusType	Enumerated type. Values are : WAITING WORK_IN_PROGRESS TERMINATED ERROR

1.3. Reference documents

N°	Title	Reference	Version

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2. GetConnectivityDirectory

2.1. Request

XML element	Card	Type	Deprecated since	Introduced in	Description
GetConnectivityDirectory					
version	0..1			1.18	Since version 1.18, the notion of version is added: • "deprecated since" : the element is no longer used since the indicated version • "introduced in" : the element is taken into account since the indicated version
[C] lineIdentifiers	1..1				Collection of line identifiers *The number of identifiers must not exceed 100 identifiers*
[C] subscriptionNumber	1..n	string			List of subscription numbers
[C] simSerialNumber	1..n	string			List of SIM serial Numbers
[C] deviceImei	1..n	string			List of device IMEI
[C] deviceSerialNumber	1..n	string			List of device Serial Numbers
[C] deviceUniqueId	1..n	string			Liste of device unique identifiers
[C] machineSerialNumber	1..n	string			List of machine serial numbers
[C] iccid	1..n	string			List of Integrated Circuit Card IDentifier
[C] msisdnVoice	1..n				Voice MSISDN
cc	1..1	string			country code
sn	1..1	string			subscriber number
[C] msisdnData	1..n				Data MSISDN
cc	1..1	string			country code
sn	1..1	string			subscriber number
[C] msisdnFax	1..n				Fax MSISDN
cc	1..1	string			country code
sn	1..1	string			subscriber number
[C] imsi	1..n	string			List of imsi numbers
showAttachmentNode	0..1	boolean			**Not applicable**
showStatusReason	0..1	boolean			**Not applicable**
showHierarchyDetail	0..1	boolean	1.18		**Deprecated if the field "version" is present otherwise** If true, return the customer environment name in the response. If false or not present, do not return it.
showDetailedTariffPlansAndOptions	0..1	boolean	1.18		**Deprecated if the field "version" is present Otherwise :** If true then the tariff plans and options will be returned. If not present then defaults to 'false'
showDeviceInfo	0..1	boolean	1.18		**Deprecated if the field "version" is present Otherwise :** If true the DIS data (last location and compatibility) will be returned. If false or not present, DIS data are not displayed.
showCustomInformations	0..1	boolean	1.18		**Deprecated if the field "version" is present Otherwise :** If true then customizable fields will be returned. If not present then defaults to 'false'
showIccid	0..1	boolean	1.18		**Deprecated if the field "version" is present Otherwise :** If true, return the ICCID in the response. If false or not present, do not return it.
showImsi	0..1	boolean	1.18		**Deprecated if the field "version" is present Otherwise :** If true, return the imsi in the response. If false or not present, do not return it.

2.2. Response

XML element	Card	Type	Deprecated since	Introduced in	Description
getConnectivityDirectoryResponse					
connectivityDirectory	0..n				Connectivity directory linked to one line
customerEnvironmentIdentifier	1..1	string			Customer environnement identifier
customerEnvironmentName	0..1	string			The name of the customer environment
customerEnvironmentFiscalNumber	0..1	string			**Not applicable**

imsi		0..1	string			Current imsi
iccid		0..1	string			ICCID
sim		0..1				Sim card data
	serialNumber	0..1	string			Sim serial number
	puk1	0..1	string			PUK code 1
	puk2	0..1	string			PUK code 2
	imei	0..1	string			Device IMEI
	status	0..1	string			SIM status
	statusReason	0..1	string			**Not applicable**
	suspensionReason	0..1	string			SIM suspension reason
	lastStatusRefreshDate	0..1	dateTime			Last SIM status refresh (recalculation) date. *The service must only use the known data contained in the connectivity directory of the Malima platform (no call to the country IS). So the field may be different to the current date (but equals to the last date where the subscription data have been updated).*
	lastStatusChangeDate	0..1	dateTime			Last SIM status change date
	requestedStatus	0..1	string			New SIM status requested
	statusChangeRequestDate	0..1	dateTime			Date of the SIM status change request
subscription		1..1				Subscription data
	identifier	1..1	string			Subscription identifier
	description	0..1				Subscription description
		value	0..1	string	1.18	Subscription label : ONLY PRESENT if showDetailedTariffPlansAndOptions input param is false
		user	0..1	string		Malima user that own the subscription
		userRef	0..1	string		Reference to the Malima user that own the subscription
		service	0..n	string	1.18	List of the services linked to the subscription. If the label of the service is not null, it's displayed, otherwise it's the code of service. ONLY PRESENT if showDetailedTariffPlansAndOptions input param is false
		customInformation	0..n			List of customizable fields
			customLabel	1..1	string	Label of the customizable field
			customValue	0..1	string	Value of the customizable field
	nodeIdentifier	0..1	string			**Not applicable**
	creationDate	0..1	dateTime			Subscription creation date
	connectionDate	0..1	dateTime			First network connection date
	msisdnData	0..1				Data MSISDN
		cc	1..1	string		country code
		sn	1..1	string		subscriber number
	msisdnVoice	0..1				Voice MSISDN
		cc	1..1	string		country code
		sn	1..1	string		subscriber number
	msisdnFax	0..1				Fax MSISDN
		cc	1..1	string		country code
		sn	1..1	string		subscriber number
	tariffPlans	0..1				list of tariff plans : ONLY PRESENT if showDetailedTariffPlansAndOptions input param is true
		requestedTariffPlan	0..1			**Not applicable**
			@codeAlias	1..1	string	**Not applicable**
			@label	1..1	string	**Not applicable**
		plannedTariffPlan	0..1			**Not applicable**
			@codeAlias	1..1	string	**Not applicable**
			@label	1..1	string	**Not applicable**
		activeTariffPlan	0..1			
			@codeAlias	1..1	string	tariff plan alias
			@label	1..1	string	tariff plan label
			@startDate	0..1	dateTime	**Not applicable**
			@endDate	0..1	dateTime	**Not applicable**
	tariffOptions	0..1				list of options : ONLY PRESENT if showDetailedTariffPlansAndOptions input param is true
		requestedOptions	0..1			**Not applicable**
			option	0..n		**Not applicable**
				@codeAlias	1..1	string	**Not applicable**
				@label	1..1	string	**Not applicable**
				@action	0..1	OptionAction	**Not applicable**
				@startDate	0..1	dateTime	**Not applicable**
				@endDate	0..1	dateTime	**Not applicable**
				parameter	0..n	string	**Not applicable**
					@code	1..1	string	**Not applicable**
					@label	1..1	string	**Not applicable**
					@status	0..1	Parameter Status	**Not applicable**
		plannedOptions	0..1			**Not applicable**
			option	0..n		**Not applicable**
				@codeAlias	1..1	string	**Not applicable**
				@label	1..1	string	**Not applicable**
				@action	0..1	OptionAction	**Not applicable**

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Element	Card.	Type			Description
@startDate	0..1	dateTime			**Not applicable**
@endDate	0..1	dateTime			**Not applicable**
parameter	0..n	string			**Not applicable**
@code	1..1	string			**Not applicable**
@label	1..1	string			**Not applicable**
@status	0..1	Parameter Status			**Not applicable**
activeOptions	0..1				list of active options
option	0..n				option
@codeAlias	1..1	string			option alias
@label	1..1	string			option label
@action	0..1	OptionAction			**Not applicable**
@startDate	0..1	dateTime			**Not applicable**
@endDate	0..1	dateTime			**Not applicable**
parameter	0..n	string			**Not applicable**
@code	1..1	string			**Not applicable**
@label	1..1	string			**Not applicable**
@status	0..1	Parameter Status			**Not applicable**
device	0..1				Device data
uniqueIdentifier	0..1	string30			Device unique identifier
serialNumber	0..1	string150			Device serial number
contact	0..1				Contact data
name	0..1	string150			Contact name
email	0..1	string150			Contact email address
phone	0..1	string30			contact phone number
communicationModule	0..1				Device communication module data
brand	0..1	string30			Brand of the communication module
model	0..1	string150			Model of the communication module
deviceLocation	0..1	string150			Device locating (where the device is attached to the machine)
category	0..1	string30			Device category
description	0..1	string150			Device description
address	0..1	string150			Device address (address of the building where the machine is)
deviceHolder	0..1	string150			Device holder
updateDate	0..1	dateTime			Date of the last update of the device data in the connectivity directory
machine	0..1				Machine data
serialNumber	0..1	string150			Machine serial number
name	0..1	string150			Machine name
description	0..1	string150			Machine description
updateDate	0..1	dateTime			Date of the last update of the machine data in the connectivity directory
customerIdentifier	0..n				Customer identifiers
type	1..1	string			Identifier type
identifier	1..1	string			Identifier
geographicPosition	0..1				Geolocation details
latitude	1..1	float			Latitude of geographic position. The unit is decimal degrees and Malima guarantees precision up to the 5th decimal digit.
longitude	1..1	float			Longitude of geographic position. The unit is decimal degrees and Malima guarantees precision up to the 5th decimal digit.
lastGeolocDate	1..1	dateTime			Date of the last DIS response retrieving the geographic position
accuracy	1..1				Geolocation accuracy
value	1..1	int			The accuracy value
unit	1..1	string			The accuracy unit
deviceInfoCompatibility	0..1	string			Device info compatibility. This field is formatted as follows (position index start from the left): - 1st character is set to 1 if the status of the sim allows Malima to request STS on the service SUPERVISION_LOCALIZATION. This character is set to 0 in the other case. - 2nd character is set to 1 if the SIM is compatible with the service SUPERVISION_LOCALIZATION. It is set to 0 in other case. - 3rd character is set to 1 if the SIM is compatible with the service IMEI alert e.g: if this field is equal to "110" then this sim has a status compatible with STS and it is compatible with the service SUPERVISION LOCALIZATION but it is not compatible with the service IMEI alert
unknownLinesIdentifiers	0..1				Collection of line identifiers given to the service that are unknown or do not belong to the Malima user
[C] subscriptionNumber	1..n	string			List of subscription numbers
[C] simSerialNumber	1..n	string			List of SIM serial Numbers
[C] deviceImei	1..n	string			List of device IMEI
[C] deviceSerialNumber	1..n	string			List of device Serial Numbers
[C] deviceUniqueId	1..n	string			Liste of device unique identifiers

[C] machineSerialNumber	1..n	string				List of machine serial numbers
[C] iccid	1..n	string				List of Integrated Circuit Card IDentifier
[C] msisdnVoice	1..n					Voice MSISDN
cc	1..1	string				country code
sn	1..1	string				subscriber number
[C] msisdnData	1..n					Data MSISDN
cc	1..1	string				country code
sn	1..1	string				subscriber number
[C] msisdnFax	1..n					Fax MSISDN
cc	1..1	string				country code
sn	1..1	string				subscriber number
UnknownImsi	0..1					Collection of Imsis given to the service that are unknow or do not belong to the Malima user
imsi	1..n	string				List of imsi numbers

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 :
- Une erreur Malima est survenue.
- Quota mensuel épuisé pour ce service.

Malima code and message values listing :

Code	Message
MLM_UNKNOWN_USER	L'utilisateur <user name> est inconnu de Malima.
MLM_SOAP_HEADER_ERROR	Wrong parameter from IOSW-IAS call :< header fields in error >
MLM_QUOTA_EXCEEDED	Il vous reste <remaining authorized hit count>/< authorized hit count> sollicitations autorisées pour ce service.
CANNOT_CONNECT_TO_DATABASE	Accès impossible à la base de données.
MLM_DEFAULT_ERROR_CODE	"A Malima platform error occurred"

<soap header error specific message>
Wrong parameters from IOSW-IAS call :< header fields in error >
Portal header in SOAP message is missing

2.3.2. TooManyLineIdentifiersFault

XML element	Card	Type	Description
faultstring	1..1	string	Fault error string
TooManyLineIdentifiersError	1..1		
maxAllowedLineIdentifiersNumber	1..1	int	Maximum allowed line identifiers number

faultstring values : Le nombre d'identifiants de ligne est trop élevé (<maximum lines number> au maximum)

3. SearchInConnectivityDirectory

3.1. Request

XML element	Card	Type	Deprecated since	Introduced in	Description
SearchInConnectivityDirectory					
version	0..1	string		1.18	Since version 1.18, the notion of version is added: • "deprecated since" : the element is no longer used since the indicated version • "introduced in" : the element is taken into account since the indicated version

searchCriterion	0..1				Search criterion
					  * *Each criterion (that has a alphanumeric type) can be partially completed. The search on the connectivity directory will take it as "search all the data that begin with" the given value.
					For the type Msisdn, the country code must be complete, but the subscription number can be partially completed*
					  * *If no input parameters are filled, all the data of the connectivity directory of the Malima client must be returned*

simSerialNumber	0..1	string			SIM serial number * *can be partially completed. The search on the connectivity directory will take it as "search all the data that begin with" the given value*
simStatus	0..n	string			SIM status
deviceCategory	0..1	string			Device category
deviceUniqueId	0..1	string			Device unique identifier
deviceSerialNumber	0..1	string			Device serial number
deviceHolder	0..1	string			Device holder
deviceImei	0..1	string			Device IMEI
communicationModuleBrand	0..1	string			Brand of the communication module
communicationModuleModel	0..1	string			Model of the communication module
machineSerialNumber	0..1	string			Machine serial number
machineName	0..1	string			Machine name
subcriptionIdentifier	0..1	string			Subscription identifier
iccid	0..1	string			Integrated Circuit Card IDentifier
msisdnData	0..1				MSISDN data
cc	1..1	string			country code
sn	1..1	string			subscriber number
msisdnVoice	0..1				MSISDN voice
cc	1..1	string			country code
sn	1..1	string			subscriber number
msisdnFax	0..1				MSISDN fax
cc	1..1	string			country code
sn	1..1	string			subscriber number
imsi	0..1	string			Current imsi for the subscription
simStatusChangeMinDate	0..1	dateTime			Minimum SIM status change date
simStatusChangeMaxDate	0..1	dateTime			Maximum SIM status change date
simStatusRefreshMinDate	0..1	dateTime			Minimum SIM status refresh (recalculation) date
simStatusRefreshMaxDate	0..1	dateTime			Maximum SIM status refresh (recalculation) date
requestedSimStatus	0..1	string			New SIM status requested
customInformation	0..n				List of customizable fields
customLabel	1..1	string			The customizable field label (exact value search)
customValue	0..1	string			The customizable field value (exact value search). If not filled, all lines with customLabel will be returned regardless the customValue.
user	0..1	string			The subscription user
userRef	0..1	string			The reference to the subscription user
showAttachmentNode	0..1	boolean			**Not applicable**
showStatusReason	0..1	boolean			**Not applicable**
showHierarchyDetail	0..1	boolean	1.18		**Deprecated if the field "version" is present** **Otherwise :** If true, return the customer environment name in the response. If false or not present, do not return it.
showDetailedTariffPlansAndOptions	0..1	boolean	1.18		**Deprecated if the field "version" is present** **Otherwise :** If true then the tariff plans and options will be returned. If not present then defaults to 'false'

showStatSimPerSimStatus	0..1	boolean	1.18		**Deprecated if the field "version" is present**	
					Otherwise :	
					If true then the number of SIM per SIMStatus will be returned. If false or not present, do not return it.	
showDeviceInfo	0..1	boolean	1.18		**Deprecated if the field "version" is present**	
					Otherwise :	
					If true the DIS data (last location and compatibility) will be returned. If false or not present, do not return them.	
showCustomInformations	0..1	boolean	1.18		**Deprecated if the field "version" is present**	
					Otherwise :	
					if true then customizable flieds will be returned. If not present then defaults to 'false'	
showIccid	0..1	boolean	1.18		**Deprecated if the field "version" is present**	
					Otherwise :	
					If true, return the ICCID in the response. If false or not present, do not return it.	
showImsi	0..1	boolean	1.18		**Deprecated if the field "version" is present**	
					Otherwise :	
					If true, return the imsi in the response. If false or not present, do not return it.	
rangeSize	0..1	int			Maximum number of results to retrieve per response *Must be >= 1 * Otherwise rangeSize is set to its max value	
rangeStart	0..1	int			Index of the first result to retrieve * Must be >= 0	
sortCriterion	0..2				Result sorting criterion	
order	1..1	SortOrder			Sorting order	
attribute	1..1	SortAttribute			Data to sort on	

3.2. Response

XML element	Card	Type	Deprecated since	Introduced in	Description
SearchInConnectivityDirectoryResponse					
connectivityDirectory	0..n				Connectivity directory linked to one line *If there are too many subscriptions corresponding to the input parameters (more than 100 subscriptions), the result must be paginated (with a limit of 100 subscriptions per page).
customerEnvironmentIdentifier	1..1	string			Customer environment identifier
customerEnvironmentName	0..1	string			The name of the customer environment
customerEnvironmentFiscalNumber	0..1	string			**Not applicable**
imsi	0..1	string			Current imsi for the subscription
iccid	0..1	string		1.18	ICCID
sim	0..1				Sim card data
serialNumber	0..1	string			Sim serial number
puk1	0..1	string			PUK code 1
puk2	0..1	string			PUK code 2
imei	0..1	string			Device IMEI
status	0..1	string			SIM status
statusReason	0..1	string			**Not applicable**
suspensionReason	0..1	string			SIM suspension reason
lastStatusRefreshDate	0..1	dateTime			Last SIM status refresh (recalculation) date *The service must only use the known data contained in the connectivity directory of the Malima platform (no call to the country IS). So the field may be different to the current date (but equals to the last date where the subscription data have been updated).
lastStatusChangeDate	0..1	dateTime			Last SIM status change date
requestedStatus	0..1	string			New SIM status requested
statusChangeRequestDate	0..1	dateTime			Date of the SIM status change request
subscription	1..1				Subscription data
identifier	1..1	string			Subscription identifier
description	0..1				Subscription description
value	0..1	string	1.18		Subscription label ONLY PRESENT if showDetailedTariffPlansAndOptions input param is false
user	0..1	string			Malima user that own the subscription
userRef	0..1	string			Reference to the Malima user that own the subscription

service	0..n	string	1.18		List of the services linked to the subscription. If the label of the service is known, it's displayed; otherwise it's the code of service. ONLY PRESENT if showDetailedTariffPlansAndOptions input param is false
customInformation	0..n				List of customizable fields
customLabel	1..1	string			Label of the customizable field
customValue		string			Value of the customizable field
nodeIdentifier	0..1	string			**Not applicable**
connectionDate	0..1	dateTime			First network connection date
creationDate	0..1	dateTime			Subscription creation date
msisdnData	0..1				Data MSISDN
cc	1..1	string			country code
sn	1..1	string			subscriber number
msisdnVoice	0..1				Voice MSISDN
cc	1..1	string			country code
sn	1..1	string			subscriber number
msisdnFax	0..1				Fax MSISDN
cc	1..1	string			country code
sn	1..1	string			subscriber number
tariffPlans	0..1				list of tariff plans : ONLY PRESENT if showDetailedTariffPlansAndOptions input param is true
requestedTariffPlan	0..1				**Not applicable**
@codeAlias	1..1	string			**Not applicable**
@label	1..1	string			**Not applicable**
plannedTariffPlan	0..1				**Not applicable**
@codeAlias	1..1	string			**Not applicable**
@label	1..1	string			**Not applicable**
activeTariffPlan	0..1				
@codeAlias	1..1	string			tariff plan alias
@label	1..1	string			tariff plan label
@startDate	0..1	dateTime			**Not applicable**
@endDate	0..1	dateTime			**Not applicable**
tariffOptions	0..1				list of options: ONLY PRESENT if showDetailedTariffPlansAndOptions input param is true
requestedOptions	0..1				**Not applicable**
option	0..n				**Not applicable**
@codeAlias	1..1	string			**Not applicable**
@label	1..1	string			**Not applicable**
@action	0..1	OptionAction			**Not applicable**
@startDate	0..1	dateTime			**Not applicable**
@endDate	0..1	dateTime			**Not applicable**
parameter	0..n	string			**Not applicable**
@code	1..1	string			**Not applicable**
@label	1..1	string			**Not applicable**
@status	0..1	ParameterStatus			**Not applicable**
plannedOptions	0..1				**Not applicable**
option	0..n				**Not applicable**
@codeAlias	1..1	string			**Not applicable**
@label	1..1	string			**Not applicable**
@action	0..1	OptionAction			**Not applicable**
@startDate	0..1	dateTime			**Not applicable**
@endDate	0..1	dateTime			**Not applicable**
parameter	0..n	string			**Not applicable**
@code	1..1	string			**Not applicable**
@label	1..1	string			**Not applicable**
@status	0..1	ParameterStatus			**Not applicable**
activeOptions	0..1				list of active options
option	0..n				option
@codeAlias	1..1	string			option alias
@label	1..1	string			option label
@action	0..1	OptionAction			**Not applicable**
@startDate	0..1	dateTime			**Not applicable**
@endDate	0..1	dateTime			**Not applicable**
parameter	0..n	string			**Not applicable**
@code	1..1	string			**Not applicable**
@label	1..1	string			**Not applicable**
@status	0..1	ParameterStatus			**Not applicable**
device	0..1				Device data
uniqueIdentifier	0..1	string30			Device unique identifier
serialNumber	0..1	string150			Device serial number
contact	0..1				Contact data
name	0..1	string150			Contact name
email	0..1	string150			Contact email address
phone	0..1	string30			contact phone number
communicationModule	0..1				Device communication module data

				brand	0..1	string30			Brand of the communication module
				model	0..1	string150			Model of the communication module
			deviceLocating		0..1	string150			Device locating (where the device is attached to the machine)
			category		0..1	string30			Device category
			description		0..1	string150			Device description
			address		0..1	string150			Device address (address of the building where the machine is)
			deviceHolder		0..1	string150			Device holder
			updateDate		0..1	dateTime			Date of the last update of the device data in the connectivity directory
		machine			0..1				Machine data
			serialNumber		0..1	string150			Machine serial number
			name		0..1	string150			Machine name
			description		0..1	string150			Machine description
			updateDate		0..1	dateTime			Date of the last update of the machine data in the connectivity directory
		customerIdentifier			0..n				Customer identifiers
			type		1..1	string			Identifier type
			identifier		1..1	string			Identifier
		geographicPosition			0..1				Geolocation details
			latitude		1..1	float			Latitude of geographic position. The unit is decimal degrees and Malima guarantees precision up to the 5th decimal digit.
			longitude		1..1	float			Longitude of geographic position. The unit is decimal degrees and Malima guarantees precision up to the 5th decimal digit.
			lastGeolocDate		1..1	dateTime			The date of the DIS response retrieving the geographic position
			accuracy		1..1				Geolocation accuracy
				value	1..1	int			The accuracy value
				unit	1..1	string			The accuracy unit
		deviceInfoCompatibility			0..1	string			Device info compatibility. This field is formatted as follows (position index start from the left): - 1st character is set to 1 if the status of the sim allows Malima to request STS on the service SUPERVISION_LOCALIZATION. This character is set to 0 in the other case. - 2nd character is set to 1 if the SIM is compatible with the service SUPERVISION_LOCALIZATION. It is set to 0 in other case. - 3rd character is set to 1 if the SIM is compatible with the service IMEI alert e.g: if this field is equal to "110" then this sim has a status compatible with STS and it is compatible with the service SUPERVISION LOCALIZATION but it is not compatible with the service IMEI alert •
	simStatusDistribution				0..1				Statistics of SIM per SIMStatus for the authenticated customerEnvironmentIdentifier. ONLY PRESENT if showStatSimPerSimStatus input param is true
		totalSimStatusNumber			1..n	SimStatusStatistic			Number of SIM for SIMStatus='status'
			@status		1..1	SimStatus			SIM status
	resultsNumberExceeded				1..1	boolean			True if the number of results is greater than the "rangeSize" request parameter False by default
	totalResultsNumber				1..1	int			Total number of results

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 :
- Une erreur Malima est survenue.
- Quota mensuel épuisé pour ce service.

Malima code and message values listing :

Code	Message

MLM_UNKNOWN_USER	L'utilisateur *<user name>* est inconnu de Malima.
MLM_SOAP_HEADER_ERROR	Wrong parameter from IOSW-IAS call :< header fields in error >
CANNOT_CONNECT_TO_DATABASE	Accès impossible à la base de données.
MLM_QUOTA_EXCEEDED	Il vous reste *<remaining authorized hit count>*/*< authorized hit count>* sollicitations autorisées pour ce service.
MLM_DUPLICATE_CD_CUSTOM_FIELD_LABEL	"The following customized fields are in double: <list_duplicate_cd_custom_field>"
MLM_TOO_MANY_CD_CUSTOM_FIELD	"The number of customized fields is limited to <CD_MAX_CUSTOMIZED_FIELDS>"
MLM_UNKNOWN_CD_CUSTOM_FIELD	"Unknown customized fields : <unknown_field_list>"

<soap header error specific message>
Wrong parameters from IOSW-IAS call :< header fields in error >
Portal header in SOAP message is missing

Business Services orange

4. UpdateConnectivityDirectory

4.1. Request

XML element	Card	Type	Description
UpdateConnectivityDirectory			
[C] dataBySubscriptionNumber	1..n		List of device data by subscription number *
subscriptionNumber	1..1	string	Subscription number *It's a search criteria*
machineData	0..1		Description data of the machine *Data to modify*
serialNumber	0..1	string150	Serial number
name	0..1	string150	Name
description	0..1	string150	Description
deviceData	0..1		Device data *Data to modify*
uniqueIdentifier	0..1	string30	Unique identifier
serialNumber	0..1	string150	Serial number
contact	0..1		Contact data
name	0..1	string150	Name
email	0..1	string150	E-mail
phone	0..1	string30	Phone number
communicationModule	0..1		Module description
brand	0..1	string30	Brand of module
model	0..1	string150	Model of module
deviceLocation	0..1	string150	Device locating
category	0..1	string30	Device category
description	0..1	string150	Device description
address	0..1	string150	Device address
deviceHolder	0..1	string150	Device holder
customInformation	0..n		The customizable fields list
customLabel	1..1	string100	The customizable field label
customValue	0..1	string64	The customizable field value. If not filled, the link between this line and custom information is deleted.
[C] dataBySimSerialNumber	1..n		List of device data by SIM serial number
simSerialNumber	1..1	string	SIM serial number *It's a search criteria*
machineData	0..1		Description data of the machine *Data to modify*
serialNumber	0..1	string150	Serial number
name	0..1	string150	Name
description	0..1	string150	Description
deviceData	0..1		Device data *Data to modify*
uniqueIdentifier	0..1	string30	Unique identifier
serialNumber	0..1	string150	Serial number
contact	0..1		Contact data
name	0..1	string150	Name
email	0..1	string150	E-mail
phone	0..1	string30	Phone number
communicationModule	0..1		Module description
brand	0..1	string30	Brand of module
model	0..1	string150	Model of module
deviceLocation	0..1	string150	Device locating
category	0..1	string30	Device category
description	0..1	string150	Device description
address	0..1	string150	Device address
deviceHolder	0..1	string150	Device holder
customInformation	0..n		The customizable fields list
customLabel	1..1	string100	The customizable field label
customValue	0..1	string64	The customizable field value. If not filled, the link between this line and custom information is deleted.
[C] dataByDeviceImei	1..n		List of device data by device IMEI
deviceImei	1..1	string	Device IMEI *It's a search criteria*
machineData	0..1		Description data of the machine *Data to modify*
serialNumber	0..1	string150	Serial number
name	0..1	string150	Name
description	0..1	string150	Description
deviceData	0..1		Device data *Data to modify*
uniqueIdentifier	0..1	string30	Unique identifier

	serialNumber	0..1	string150	Serial number
	contact	0..1		Contact data
	name	0..1	string150	Name
	email	0..1	string150	E-mail
	phone	0..1	string30	Phone number
	communicationModule	0..1		Module description
	brand	0..1	string30	Brand of module
	model	0..1	string150	Model of module
	deviceLocation	0..1	string150	Device locating
	category	0..1	string30	Device category
	description	0..1	string150	Device description
	address	0..1	string150	Device address
	deviceHolder	0..1	string150	Device holder
	customInformation	0..n		The customizable fields list
	customLabel	1..1	string100	The customizable field label
	customValue	0..1	string64	The customizable field value. If not filled, the link between this line and custom information is deleted.
[C]	dataByDeviceSerialNumber	1..n		List of device data by device serial number
	deviceSerialNumber	1..1	string	Device serial number *It's a search criteria*
	machineData	0..1		Description data of the machine *Data to modify*
	serialNumber	0..1	string150	Serial number
	name	0..1	string150	Name
	description	0..1	string150	Description
	deviceData	0..1		Device data *Data to modify*
	uniqueIdentifier	0..1	string30	Unique identifier
	serialNumber	0..1	string150	Serial number
	contact	0..1		Contact data
	name	0..1	string150	Name
	email	0..1	string150	E-mail
	phone	0..1	string30	Phone number
	communicationModule	0..1		Module description
	brand	0..1	string30	Brand of module
	model	0..1	string150	Model of module
	deviceLocation	0..1	string150	Device locating
	category	0..1	string30	Device category
	description	0..1	string150	Device description
	address	0..1	string150	Device address
	deviceHolder	0..1	string150	Device holder
	customInformation	0..n		The customizable fields list
	customLabel	1..1	string100	The customizable field label
	customValue	0..1	string64	The customizable field value. If not filled, the link between this line and custom information is deleted.
[C]	dataByMsisdnVoice	1..n		List of device data by MSISDN Voice
	msisdnVoice	1..1		MSISDN Voice *It's a search criteria*
	cc	1..1	string	Country code
	sn	1..1	string	Suscriber number
	machineData	0..1		Description data of the machine *Data to modify*
	serialNumber	0..1	string150	Serial number
	name	0..1	string150	Name
	description	0..1	string150	Description
	deviceData	0..1		Device data *Data to modify*
	uniqueIdentifier	0..1	string30	Unique identifier
	serialNumber	0..1	string150	Serial number
	contact	0..1		Contact data
	name	0..1	string150	Name
	email	0..1	string150	E-mail
	phone	0..1	string30	Phone number
	communicationModule	0..1		Module description
	brand	0..1	string30	Brand of module
	model	0..1	string150	Model of module
	deviceLocation	0..1	string150	Device locating
	category	0..1	string30	Device category
	description	0..1	string150	Device description
	address	0..1	string150	Device address
	deviceHolder	0..1	string150	Device holder
	customInformation	0..n		The customizable fields list
	customLabel	1..1	string100	The customizable field label
	customValue	0..1	string64	The customizable field value. If not filled, the link between this line and custom information is deleted.
[C]	dataByMachineSerialNumber	1..n		List of device data by machine serial number
	machineSerialNumber	1..1	string	Machine serial number *It's a search criteria*

machineData	0..1		Description data of the machine ** Data to modify*	
serialNumber	0..1	string150	Serial number	
name	0..1	string150	Name	
description	0..1	string150	Description	
deviceData	0..1		Device data ** Data to modify*	
uniqueIdentifier	0..1	string30	Unique identifier	
serialNumber	0..1	string150	Serial number	
contact	0..1		Contact data	
name	0..1	string150	Name	
email	0..1	string150	E-mail	
phone	0..1	string30	Phone number	
communicationModule	0..1		Module description	
brand	0..1	string30	Brand of module	
model	0..1	string150	Model of module	
deviceLocation	0..1	string150	Device locating	
category	0..1	string30	Device category	
description	0..1	string150	Device description	
address	0..1	string150	Device address	
deviceHolder	0..1	string150	Device holder	
customInformation	0..n		The customizable fields list	
customLabel	1..1	string100	The customizable field label	
customValue	0..1	string64	The customizable field value. If not filled, the link between this line and custom information is deleted.	
[C] dataByDeviceUniqueId	1..n		List of device data by device unique identifier	
deviceUniqueId	1..1	string	Device unique identifier ** It's a search criteria*	
machineData	0..1		Description data of the machine ** Data to modify*	
serialNumber	0..1	string150	Serial number	
name	0..1	string150	Name	
description	0..1	string150	Description	
deviceData	0..1		Device data ** Data to modify*	
uniqueIdentifier	0..1	string30	Unique identifier	
serialNumber	0..1	string150	Serial number	
contact	0..1		Contact data	
name	0..1	string150	Name	
email	0..1	string150	E-mail	
phone	0..1	string30	Phone number	
communicationModule	0..1		Module description	
brand	0..1	string30	Brand of module	
model	0..1	string150	Model of module	
deviceLocation	0..1	string150	Device locating	
category	0..1	string30	Device category	
description	0..1	string150	Device description	
address	0..1	string150	Device address	
deviceHolder	0..1	string150	Device holder	
customInformation	0..n		The customizable fields list	
customLabel	1..1	string100	The customizable field label	
customValue	0..1	string64	The customizable field value. If not filled, the link between this line and custom information is deleted.	
[C] dataByMsisdnData	1..n		List of device data by MSISDN data	
msisdnData	1..1	string	MSISDN data ** It's a search criteria*	
machineData	0..1		Description data of the machine ** Data to modify*	
serialNumber	0..1	string150	Serial number	
name	0..1	string150	Name	
description	0..1	string150	Description	
deviceData	0..1		Device data ** Data to modify*	
uniqueIdentifier	0..1	string30	Unique identifier	
serialNumber	0..1	string150	Serial number	
contact	0..1		Contact data	
name	0..1	string150	Name	
email	0..1	string150	E-mail	
phone	0..1	string30	Phone number	
communicationModule	0..1		Module description	
brand	0..1	string30	Brand of module	
model	0..1	string150	Model of module	
deviceLocation	0..1	string150	Device locating	
category	0..1	string30	Device category	
description	0..1	string150	Device description	
address	0..1	string150	Device address	
deviceHolder	0..1	string150	Device holder	
customInformation	0..n		The customizable fields list	

		customLabel	1..1	string100	The customizable field label
		customValue	0..1	string64	The customizable field value. If not filled, the link between this line and custom information is deleted.
[C] dataByMsisdnFax			1..n		List of device data by MSISDN fax
	msisdnFax		1..1	string	MSISDN fax ** It's a search criteria*
	machineData		0..1		Description data of the machine ** Data to modify*
		serialNumber	0..1	string150	Serial number
		name	0..1	string150	Name
		description	0..1	string150	Description
	deviceData		0..1		Device data ** Data to modify*
		uniqueIdentifier	0..1	string30	Unique identifier
		serialNumber	0..1	string150	Serial number
		contact	0..1		Contact data
		name	0..1	string150	Name
		email	0..1	string150	E-mail
		phone	0..1	string30	Phone number
		communicationModule	0..1		Module description
		brand	0..1	string30	Brand of module
		model	0..1	string150	Model of module
		deviceLocation	0..1	string150	Device locating
		category	0..1	string30	Device category
		description	0..1	string150	Device description
		address	0..1	string150	Device address
		deviceHolder	0..1	string150	Device holder
	customInformation		0..n		The customizable fields list
		customLabel	1..1	string100	The customizable field label
		customValue	0..1	string64	The customizable field value. If not filled, the link between this line and custom information is deleted.

4.2. Response

XML element				Card	Type	Description
UpdateConnectivityDirectoryResponse						
updatesCompleted				0..1		OK result
	lineIdentifier			0..n		Collection of line identifiers
		[C] subscriptionNumber		1..1	string	Suscription 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] deviceUniqueId		1..1	string	Device unique identifier
		[C] machineSerialNumber		1..1	string	Machine serial number
		[C] msisdnVoice		1..1		MSISDN voice
			cc	1..1	string	Country code
			sn	1..1	string	Suscriber number
		[C] msisdnData		1..1		MSISDN data
			cc	1..1	string	Country code
			sn	1..1	string	Suscriber number
		[C] msisdnFax		1..1		MSISDN fax
			cc	1..1	string	Country code
			sn	1..1	string	Suscriber number
updatesFailed				0..1		KO result
	fail			0..n		Updates failed list
		lineIdentifier		1..1		Collection of line identifiers
			[C] subscriptionNumber	1..1	string	Suscription 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] deviceUniqueId	1..1	string	Device unique identifier
			[C] machineSerialNumber	1..1	string	Machine serial number
			[C] msisdnVoice	1..1		MSISDN voice
			cc	1..1	string	Country code
			sn	1..1	string	Suscriber number
			[C] msisdnData	1..1		MSISDN data
			cc	1..1	string	Country code
			sn	1..1	string	Suscriber number
			[C] msisdnFax	1..1		MSISDN fax
			cc	1..1	string	Country code
			sn	1..1	string	Suscriber number
		errorCode		1..1	string	Error code
		errorMessage		1..1	string	Error message

Update CD failure reason :

Code	Message
DEVICE_SERIALNUMBER_ALREADY_EXISTS	"A device with this serial number already exists."
MACHINE_SERIALNUMBER_ALREADY_EXISTS	"A machine with this serial number already exists."
DEVICE_UNIQUEID_ALREADY_EXIST	"A device with this unique identifier already exists."
IDENTIFIER_NOT_FOUND	"Identifier is unknown."
MLM_UNKNOWN_CD_CUSTOM_FIELD	"Unknown customized fields: <unknown_field_list>"
MLM_DUPLICATE_CD_CUSTOM_FIELD_LABEL	"The following customized fields are in double: <list_duplicate_cd_custom_field>"
MLM_CUSTOM_CD_FIELDS_UNKNOWN_VALUE	"The possible value <Value> doesn't exist for customized field <label>"

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 :
- Une erreur Malima est survenue.
- Quota mensuel épuisé pour ce service.

Malima code and message values listing :

Code	Message
MLM_UNKNOWN_USER	L'utilisateur *user name* est inconnu de Malima.
MLM_SOAP_HEADER_ERROR	Wrong parameter from IOSW-IAS call :< header fields in error >
MLM_QUOTA_EXCEEDED	Il vous reste *remaining authorized hit count*/< authorized hit count> sollicitations autorisées pour ce service.
CANNOT_CONNECT_TO_DATABASE	Accès impossible à la base de données.
MLM_DEFAULT_ERROR_CODE	"A Malima platform error occurred"
MLM_TOO_MANY_LINE_IDS	Le nombre d'identifiants de ligne est trop élevé (<max number of line> au maximum)

<soap header error specific message>
Wrong parameters from IOSW-IAS call :< header fields in error >
Portal header in SOAP message is missing

5. Create customized fields

5.1. Request

XML element	Card	Type	Description
createCustomizedFields			
customizedField	1..n		The list of customized fields to create
label	1..1	string100	The label of customized field definition
possibleValue	1..n	string64	List of possible values of definition

5.2. Response

XML element	Card	Type	Description
createCustomizedFieldsResponse			
createCompletedList	0..1		OK results
label	1..n	string	create completed list
createFailedList	0..1		KO results
createFailed	1..n		create failed list
label	1..1	string	Label
errorCode	1..1	string	Error code
errorMessage	1..1	string	Error message

Create customized field failure reason :

Code	Message
MLM_CUSTOM_CD_FIELDS_ALREADY_EXIST	"The customized field <label> already exists."
MLM_DUPLICATE_CD_CUSTOM_FIELD_LABEL	"The following customized fields are in double: <list_duplicate_cd_custom_field>"
MLM_DUPLICATE_CD_CUSTOM_POSSIBLE_VALUE	"The following customized possible values are in double: <list_duplicate_cd_custom_possible_values>"
MLM_TOO_MANY_CD_CUSTOM_FIELD	"The number of customized fields is limited to <CD_MAX_CUSTOMIZED_FIELDS>"
MLM_TOO_MANY_CD_CUSTOM_POSSIBLE_VALUE	"The number of possible values is limited to <CD_MAX_CUSTOMIZED_POSSIBLE_VALUE>"
MLM_BAD_FORMAT_CD_CUSTOM_FIELD	"Bad format of custom field: <bad_custom_field >. Expected format is: <format>."
MLM_BAD_FORMAT_CD_CUSTOM_POSSIBLE_VALUE	"Bad format of possible values: <list_bad_possible_values>. Expected format is: <format>."

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 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
MLM_UNKNOWN_USER	"The user <node id> is unknown to Malima"
MLM_SOAP_HEADER_ERROR	<soap header error specific message>
MLM_QUOTA_EXCEEDED	Remaining quota : <N> request(s).
CANNOT_CONNECT_TO_DATABASE	"Cannot connect to the core database"
MLM_DEFAULT_ERROR_CODE	"A Malima platform error occurred"

<soap header error specific message>
Wrong parameters from IOSW-IAS call :< header fields in error >
Portal header in SOAP message is missing

6. Update customized fields

6.1. Request

XML element	Card	Type	Description
updateCustomizedFields			
customizedField	1..n		The list of customized fields to update
currentLabel	1..1	string100	The current label of customized field definition
[C]updateLabel	1..1		Update label action
newLabel	1..1	string100	The new label of customized field definition
[C]addPossibleValues	1..1		Add possible value action
value	1..n	string64	List of possible values of definition to add
[C]updatePossibleValues	1..1		Update possible value action
possibleValue	1..n		List of possible values of definition to update
currentValue	1..1	string64	Current possible value of the definition
newValue	1..1	string64	New possible value of the definition
[C]deletePossibleValues	1..1		Delete possible value action
value	1..n	string64	List of possible values of definition to delete

6.2. Response

XML element	Card	Type	Description
updateCustomizedFieldsResponse			
updateCompletedList	0..1		OK results
label	1..n	string	Update completed list
updateFailedList	0..1		KO results
updateFailed	1..n		Update failed list
label	1..1	string	Label
errorCode	1..1	string	Error code
errorMessage	1..1	string	Error message

Update customized field failure reason :

Code	Message
MLM_CUSTOM_CD_FIELDS_ALREADY_EXIST	"The customized field <new label> already exists."
MLM_CUSTOM_CD_POSSIBLE_VALUE_ALREADY_EXIST	"The possible value <possible value> already exists for customized field <label>"
MLM_UNKNOWN_CD_CUSTOM_FIELD	"Unknown customized field: <unknown_field>"
MLM_CUSTOM_CD_FIELDS_UNKNOWN_VALUE	"The possible value <Value> doesn't exist for customized field <label>"
MLM_TOO_MANY_CD_CUSTOM_POSSIBLE_VALUE	"The number of possible values is limited to <CD_MAX_CUSTOMIZED_POSSIBLE_VALUE>"
MLM_TOO_MANY_CD_CUSTOM_FIELD	"The number of customized fields is limited to <CD_MAX_CUSTOMIZED_FIELDS>"
MLM_DUPLICATE_CD_CUSTOM_POSSIBLE_VALUE	"The following customized possible values are in double: <list_duplicate_cd_custom_possible_values>"
MLM_DUPLICATE_CD_CUSTOM_FIELD_LABEL	"The following customized fields are in double: <list_duplicate_cd_custom_field>"
MLM_MISSING_CD_CUSTOM_POSSIBLE_VALUE	"At least one possible value must be kept for customized field definition <label>"
MLM_BAD_FORMAT_CD_CUSTOM_FIELD	"Bad format of custom field: <bad_custom_field >. Expected format is: <format>."
MLM_BAD_FORMAT_CD_CUSTOM_POSSIBLE_VALUE	"Bad format of possible values: <list_bad_possible_values>. Expected format is: <format>."

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 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
MLM_UNKNOWN_USER	"The user <node id> is unknown to Malima"

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MLM_SOAP_HEADER_ERROR	<soap header error specific message>
MLM_QUOTA_EXCEEDED	Remaining quota : <N> request(s).
CANNOT_CONNECT_TO_DATABASE	"Cannot connect to the core database"
MLM_DEFAULT_ERROR_CODE	"A Malima platform error occurred"

<soap header error specific message>
Wrong parameters from IOSW-IAS call :< header fields in error >
Portal header in SOAP message is missing

7. Delete customized fields

7.1. Request

XML element	Card	Type	Description
deleteCustomizedFields			
customizedField	1..n		The list of customized fields to delete
label	1..1	string	The label of customized field definition

7.2. Response

XML element	Card	Type	Description
deleteCustomizedFieldsResponse			
deleteCompletedList	0..1		OK results
label	1..n	string	Delete completed list
deleteFailedList	0..1		KO results
deleteFailed	1..n		Delete failed list
label	1..1	string	Label
errorCode	1..1	string	Error code
errorMessage	1..1	string	Error message

Delete customized field failure reason :

Code	Message
MLM_UNKNOWN_CD_CUSTOM_FIELD	"Unknown customized field: <unknown_field>"
MLM_DUPLICATE_CD_CUSTOM_FIELD_LABEL	"The following customized fields are in double: <list_duplicate_cd_custom_field>"

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
MLM_UNKNOWN_USER	"The user <node id> is unknown to Malima"
MLM_SOAP_HEADER_ERROR	<soap header error specific message>
MLM_QUOTA_EXCEEDED	Remaining quota : <N> request(s).
CANNOT_CONNECT_TO_DATABASE	"Cannot connect to the core database"
MLM_DEFAULT_ERROR_CODE	"A Malima platform error occurred"

<soap header error specific message>
Wrong parameters from IOSW-IAS call :< header fields in error >
Portal header in SOAP message is missing

8. Consult list of customized fields

8.1. Request

XML element	Card	Type	deprecated since	introduced in	Description
getCustomizedFields					
version	0..1	string		1.18	Since version 1.18, the notion of version is added: • "deprecated since" : the element is no longer used since the indicated version • "introduced in" : the element is taken into account since the indicated version
customizedField	0..n				If not filled, all customized fields of authenticated user will be returned.
label	1..1	string			The customized field label (exact value search).
showCount	0..1	boolean	1.18		**Deprecated if the field "version" is present** **Otherwise :** If this flag is set to true, Malima computes for each customized field the number of subscription that have the customized value. By default, this flag is set to false, and Malima must not compute this statistic.

8.2. Response

XML element	Card	Type	Description
getCustomizedFieldsResponse			
customizedField	0..n		List of customized fields found
label	1..1	string	The customized field label
possibleValue	1..n		List of customized field's possible values
value	1..1	string	The value
count	0..1	int	The number of lines linked to this custom value
unknownCustomizedFields	0..1		List of unknown customized fields
customizedLabel	1..n	string	The unknown customized field label

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 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
MLM_UNKNOWN_USER	"The user <node id> is unknown to Malima"
MLM_SOAP_HEADER_ERROR	<soap header error specific message>
MLM_QUOTA_EXCEEDED	Remaining quota : <N> request(s).
CANNOT_CONNECT_TO_DATABASE	"Cannot connect to the core database"
MLM_DEFAULT_ERROR_CODE	"A Malima platform error occurred"

<soap header error specific message>
Wrong parameters from IOSW-IAS call :< header fields in error >
Portal header in SOAP message is missing

9. Get Nodes Ancestry

9.1. Request

XML element	Card	Type	Description
getNodesAncestry			
nodeIdentifier	1..n	string	Node Uid

9.2. Response

Not applicable. Returns an Soap fault

9.3. SOAP faults

9.3.1. 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
MLM_UNKNOWN_USER	"The user <node id> is unknown to Malima"
MLM_SOAP_HEADER_ERROR	<soap header error specific message>
MLM_QUOTA_EXCEEDED	Remaining quota : <N> request(s).
CANNOT_CONNECT_TO_DATABASE	"Cannot connect to the core database"
MLM_DEFAULT_ERROR_CODE	"A Malima platform error occurred"
MLM_TOO_MANY_LINE_IDENTIFIERS	"The number of line identifiers is too high.(<N> maximum authorized)"

<soap header error specific message>
Wrong parameters from IOSW-IAS call :< header fields in error >
Portal header in SOAP message is missing

10. SubmitConnectivityDirectoryExport

10.1. Request

XML element	Card	Type	Description
SubmitConnectivityDirectoryExport			
returnDataDefinition	1..1		
columnDefinition	1..n		
id	1..1	string	The id of column (used in generated file). See possible values in Column definition
name	0..1	string	The name of column must be return in header of generated file; if provided, it replace id

10.1.1. Column definition

Column definition id	Return format
SIM_SERIAL_NUMBER	
SIM_ICCID	
SIM_PUK_1	
SIM_PUK_2	
SIM_STATUS	
SIM_SUSPENSION_REASON	
SIM_LAST_STATUS_REFRESH_DATE	
SIM_LAST_STATUS_CHANGE_DATE	
SIM_REQUESTED_STATUS	
SIM_STATUS_CHANGE_REQUEST_DATE	
SIM_DEVICE_INFO_LAST_KNOWN_LATITUDE	
SIM_DEVICE_INFO_LAST_KNOWN_LONGITUDE	
SIM_DEVICE_INFO_LAST_LOCALIZATION_DATE	
SIM_DEVICE_INFO_COMPATIBILITY	
SUB_IDENTIFIER	
SUB_CREATION_DATE	
SUB_CONNECTION_DATE	
SUB_MSISDN_DATA	
SUB_MSISDN_VOICE	
SUB_MSISDN_VOICE	
SUB_MSISDN_FAX	
SUB_IMSI	
SUB_USER	
SUB_USER_REF	
DEVICE_UNIQUE_IDENTIFIER	
DEVICE_SERIAL_NUMBER	
DEVICE_IMEI	
DEVICE_LOCATION	
DEVICE_CATEGORY	
DEVICE_DESCRIPTION	
DEVICE_ADDRESS	
DEVICE_HOLDER	
DEVICE_CONTACT_NAME	
DEVICE_CONTACT_EMAIL	
DEVICE_CONTACT_PHONE	
DEVICE_COM_MOD_BRAND	
DEVICE_COM_MOD_MODEL	
DEVICE_UPDATE_DATE	
MACHINE_SERIAL_NUMBER	
MACHINE_NAME	
MACHINE_DESCRIPTION	
MACHINE_UPDATE_DATE	

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CUSTOMER_IDENTIFIER	
CUSTOMER_ENVIRONMENT_IDENTIFIER	
CUSTOMER_ENVIRONMENT_NAME	
CUSTOMIZED_FIELDS	
SUB_ACTIVE_TARIFF_PLAN	
SUB_ACTIVE_OPTIONS	

10.2.Response

XML element	Card	Type	Description
SubmitConnectivityDirectoryExportResponse			
ticketNumber	1..1	int	Ticket number

10.3.SOAP faults

10.3.1. 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
MLM_UNKNOWN_USER	"The user <node id> is unknown to Malima"
MLM_DATA_COLUMN_ DEFINITION	"The column definition is not valid"
MLM_SOAP_HEADER_ERROR	<soap header error specific message>
MLM_DEFAULT_ERROR_CODE	"A Malima platform error occurred"

<soap header error specific message>
Wrong parameters from IOSW-IAS call :< header fields in error >
Portal header in SOAP message is missing

11. GetConnectivityDirectoryExport

11.1. Request

XML element	Card	Type	Description
GetConnectivityDirectoryExport			
ticketNumber	1..1	int	Ticket number

11.2. Response

XML element			Card	Type	Description
GetConnectivityDirectoryExport Response					
exportResult			1..1		
processingStatus			1..1	TicketStatusType	Ticket processing status
fileName			0..1	string	The exported file name with extension
error			0..1		
	code		1..1	string	Error code
	message		1..1	string	Error message

11.3. SOAP faults

11.3.1. 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
MLM_UNKNOWN_USER	"The user <node id> is unknown to Malima"
MLM_SOAP_HEADER_ERROR	Wrong parameter from IOSW-IAS call :< header fields in error >
MLM_INTERNAL_ERROR	A Malima plaforme error occured

<soap header error specific message>
Some input parameters in portal header are not valid : <header fields in error >
Portal header in SOAP message is missing

11.3.2. UnknownTicketFault

Unknown ticket number

XML element	Card	Type	Description
faultcode	1..1	string	Soap fault code
faultstring	1..1	string	Soap fault error string
UnknownTicketError	1..1		
ticketNumber	1..1	int	The unknown ticket number

faultstring value : Ticket <ticket number> is unknown

11.3.3. ResultAlreadyRetrievedFault

If a user tries to retrieve a result he has already retrieved

XML element	Card	Type	Description
faultcode	1..1	string	Soap fault code
faultstring	1..1	string	Soap fault error string
ResultAlreadyRetrievedError	1..1		
retrievalDate	1..1	dateTime	The first retrieval date

faultstring value : Result already retrieved on <fisrt retrieval date>.