Malima

Orange

Traffic Tracking Service Interface Description

Reference: DVS107-WSDL-TT.docx S1F10

Date: **23/07/2015**

Description of the document

Ownership	
Client	Orange
Project title	Malima Group Product
Document title	Traffic Tracking Service Interface Description
Reference	DVS107-WSDL-TT.docx
Version	S1F10
Date	23/07/2015

Version history

IC Version	GooRooCoo	WSDL version	Operation	Date
S1F0			Creation	26/05/2010
S1F1			Update name "line" en "lineStatus" pour GetBillingAccountInfo - Resp	04/06/2010
S1F2			Delete Task Status WAITING_FOR_EXT_SYSTEM_PROCESSING	10/06/2010
S1F3			Delete Billing information	28/06/2010
S1F4			Change Consumption Tracking V2 -> Traffic Tracking V1 Delete error Start Date > Now Date du jour	01/07/2010
S1F5			Detete error message of DISE	03/09/2010
S1F6			Modify document properties	05/11/2010
S1F7			MLM_SOAP_HEADER_ERROR error code added	18/03/2011
S1F8		1.2	Manage traffic Local + Roaming	04/04/2013
S1F9	G03R22	1.3	Add methods: Submit CEN Traffic Tracking et Get CEN Traffic Tracking	25/04/2015
S1F10	G03R24	1.4	Update Types : SubmitCenTrafficTrackingRequest Add error messages Add fields periodStartDate et periodEndDate on SubmitCenTrafficTracking for evol Traffic Tracking Extended	23/07/2015

Table of contents

1. Introduction

1.1. Subject of the document

The purpose of this document is to define the Traffic Tracking 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.
TaskStatusType	Enumerated type. Values are : WAITING WORK_IN_PROGRESS WAITING_FOR_EXT_SYSTEM_PROCESSING TERMINATED ERROR
TicketStatusType	Enumerated type. Values are : WAITING WORK_IN_PROGRESS TERMINATED ERROR
VolumeType	Enumerated type. Values are : VOLUME_IN_KBYTES DURATION_IN_SECONDS NUMBER
RoamingType	Enumerated type. Values are : ROAMING LOCAL ALL_ORIGIN UNKNOWN
LineIdentifierType	String type. Possible values are : SUBSCRIPTION_NUMBER SIM_SERIAL_NUMBER DEVICE_IMEI MACHINE_SERIAL_NUMBER DEVICE_SERIAL_NUMBER DEVICE_UNIQUE_ID MSISDN_DATA MSISDN_VOICE MSISDN_FAX
BearerType	Enumerated type. Values are : UNKNOWN FIXED_SERVICE_COMPLEMENT VOICE WIFI VALUE_BASED_COMMUNICATION SMS MMS MULTIMEDIA_PURCHASE CONSUMPTION_TRACKING GPRS_EDGE UMTS_3G FAX INCONNU

1.3. Reference documents

N°	Title	Reference	Version

Business
Services orange

2. Submit Traffic Tracking

2.1. Request

XML element	Card	Type	Description
SubmitTrafficTrackingRequest			
lineIdentifiers	1..1		Collection of line 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	List of device unique ids
[C] machineSerialNumber	1..n	string	List of machine serial numbers
[C] msisdnVoice	1..n		List of voice MSISDN
cc	1..1	string	Country code
sn	1..1	string	Subscriber number
[C] msisdnData	1..n		List of data MSISDN
cc	1..1	string	Country code
sn	1..1	string	Subscriber number
[C] msisdnFax	1..n		List of fax MSISDN
cc	1..1	string	Country code
sn	1..1	string	Subscriber number
periodStartDateTime	0..1	dateTime	Start date/time of period
periodEndDateTime	0..1	dateTime	End date/time of period

2.2. Response

XML element	Card	Type	Description
SubmitTrafficTrackingRequestResponse			
ticketNumber	0..1	int	Ticket number
unknownLineIdentifiers	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	List of device unique identifiers
[C] machineSerialNumber	1..n	string	List of machine serial numbers
[C] msisdnVoice	1..n		List of voice MSISDN
cc	1..1	string	Country code
sn	1..1	string	Subscriber number
[C] msisdnData	1..n		List of data MSISDN
cc	1..1	string	Country code
sn	1..1	string	Subscriber number
[C] msisdnFax	1..n		List of fax MSISDN
cc	1..1	string	Country code
sn	1..1	string	Subscriber number

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 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"
CANNOT_CONNECT_TO_DATABASE	Cannot connect to core database"
CANNOT_CONNECT_TO_CDR_DATABASE	"Cannot connect to cdr database"

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MLM_SOAP_HEADER_ERROR	Wrong parameter from IOSW-IAS call :< header fields in error >
MLM_TICKET_CREATION	La création du ticket a échouée.
MLM_QUOTA_EXCEEDED	Il vous reste *remaining authorized hit count* sollicitations autorisées pour ce service avant la fin du mois.

<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

2.3.2. TooManyLineIdentifiersFault

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

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

faultstring value : The number of line identifiers of this traffic tracking request is greater than the maximum allowed number [<max allowed number>]

2.3.3. InvalidPeriodErrorFault

XML element	Card	Type	Description
faultcode	1..1	string	Soap fault code
faultstring	1..1	string	Fault error string
InvalidPeriodError	1..1		
message	1..1	string	Error message

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

faultstring value : Invalid search period.

Message:

- The end date is older than the start date.
- The start date is before the allowed period [<TT_PERIOD_ DURATION_MAX> billing period(s)]
- The end date is after the current day
- The interval is bigger than what is allowed [<TT_PERIOD_RANGE_MAX> billing period(s)]

3. Get Traffic Tracking

3.1. Request

XML element	Card	Type	Description
getTrafficTracking			
ticketNumber	1..1	int	Ticket number
showAllOriginSum	0..1	boolean	Flag to return trafic local + roaming

3.2. Response

XML element	Card	Type	Description
GetTrafficTrackingResponse			
globalProcessingStatus	1..1	TicketStatusType	Ticket global processing status
errorCode	0..1	string	Error code
errorMessage	0..1	string	Error message
totalCdrNumber	0..1	int	Total Call Detail Records number
firstCdrDateTime	0..1	dateTime	Date/time of the first CDR found
lastCdrDateTime	0..1	dateTime	Date/time of the last CDR found
customerIdentifier	0..n		Customer indentifier
type	1..1	string	Identifier type
identifier	1..1	string	Identifier
line	0..n		Line
inputLineIdentifier	1..1		Input 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] deviceUniqueId	1..1	string	Device unique id
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sn	1..1	string	subscriber number
[C] msisdnData	1..1		Data MSISDN
cc	1..1	string	country code
sn	1..1	string	subscriber number
[C] msisdnFax	1..1		Fax MSISDN
cc	1..1	string	country code
sn	1..1	string	subscriber number
processingStatus	1..1	TaskStatusType	Line processing status
errorCode	0..1	string	Error code
errorMessage	0..1	string	Error message
lineTrafficTracking	0..1		Traffic tracking for the line
periodStartDateTime	1..1	dateTime	Search period start date/time
periodEndDateTime	1..1	dateTime	Search period end date/time
firstCdrDateTime	0..1	dateTime	Date/time of the first CDR found
lastCdrDateTime	0..1	dateTime	Date/time of the last CDR found
cdrNumber	1..1	int	Number of the CDR linked to the line
volume	0..n		Volumes
bearer	1..1	BearerType	Bearer
roaming	1..1	RoamingType	Roaming flag
type	1..1	VolumeType	Volume type
value	1..1	double	Value
unknownLineIdentifiers	0..1		Unknown line identifiers list
[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	List of device unique identifiers
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cc	1..1	string	Country code
sn	1..1	string	Subscriber number
[C] msisdnFax	1..n		List of fax MSISDN
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MLM_SOAP_HEADER_ERROR	Wrong parameter from IOSW-IAS call :< header fields in error >
CANNOT_CONNECT_TO_DATABASE	"Cannot connect to core database"

<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

3.3.2. 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

3.3.3. 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>.

3.4. Ticket errors

Code	Message
MLM_INTERNAL_ERROR	A Malima plateform error has occured.

3.5. Task errors

Code	Message
MLM_INTERNAL_ERROR	An error occured while processing a TrafficTracking task.