Malima

Orange

Device Info Service Interface
Description

Reference: DVS107-WSDL-DIS.docx S1F0
Date: 25/10/2013

Description of the document

Ownership	
Client	Orange
Project title	Malima
Document title	Device Info Service Interface Description
Reference	DVS107-WSDL-DIS.docx
Version	S1F0
Date	25/10/2013

Version history

IC Version	GooRooCoo	WSDL version	Operation	Date
S1F0	G03R11C00	1.2	Retrieval from Malima Group Product from version S0F8, for wsdl in 1.2.	21/02/2013

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Table of contents

1. Introduction

1.1. Subject of the document

The purpose of this document is to define the Device Info web service. **This document comes from the Malima Group Product CI WSDL DIS in version S0F8.**

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

1.3. Reference documents

N°	Title	Reference	Version

2. Submit Sim Supervision service

2.1. Request

XML element				Card	Type	Description
submitSimSupRequest						
	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		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

2.2. Response

XML element				Card	Type	Description
submitSimSupResponse						
	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		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
	validationError			0..n		List of validation errors different than unknown line identifiers. Maximum number of element in this list is defined by the list of DIS validation error code (see table below). In case of a subscription has many validation errors, then only the first detected validation error code is returned.
		lineIdentifiers		1..1		List of line identifiers in error
			[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 id
			[C] machineSerialNumber	1..n	string	Machine serial number
			[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
		error		1..1	string	Validation error message
			@code	1..1	string	Validation error code associated to the error message

DIS validation error code values listing :

Code	Message
DIS_SUP_LOC_NOT_COMPATIBLE	The line is not compatible with the Supervision/Geolocation service

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DIS_SUP_LOC_NOT_ALLOWED_LINE_STATUS	The sim status of the line is not compatible with Supervision/Geolocation service
DIS_IN_PROGRESS	Another device info request is already pending for this line

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"
MLM_SOAP_HEADER_ERROR	<soap header error specific message>
MLM_TICKET_CREATION_ERROR	"The ticket creation has failed"
MLM_QUOTA_EXCEEDED	"Quota exceeded: it remains just <remaining hits count>/<allowed hits count> hit for this web service."
CANNOT_CONNECT_TO_DATABASE	"Cannot connect to core database"
MLM_DEFAULT_ERROR_CODE	"A Malima platform error occurred"

<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

faultstring value : Too many line identifiers (<*maximum lines number*> at maximum).

3. Submit Sim Supervision Location service

3.1. Request

XML element	Card	Type	Description
submitSimSupLocRequest			
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		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

3.2. Response

XML element	Card	Type	Description
submitSimSupLocResponse			
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		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
validationError	0..n		List of validation errors different than unknown line identifiers. Maximum number of element in this list is defined by the list of DIS validation error code (see table below). In case of a subscription has many validation errors, then only the first detected validation error code is returned.
lineIdentifiers	1..1		List of line identifiers in error
[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 id
[C] machineSerialNumber	1..n	string	Machine serial number
[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
error	1..1	string	Validation error message
@code	1..1	string	Validation error code associated to the error message

DIS validation error code values listing :

Code	Message
DIS_SUP_LOC_NOT_COMPATIBLE	The line is not compatible with the Supervision/Geolocation service
DIS_SUP_LOC_NOT_ALLOWED_LINE_STATUS	The sim status of the line is not compatible with Supervision/Geolocation service
DIS_IN_PROGRESS	Another device info request is already pending for this line

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 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_TICKET_CREATION_ERROR	"The ticket creation has failed"
MLM_QUOTA_EXCEEDED	"Quota exceeded: it remains just <remaining hits count>/<allowed hits count> hit for this web service."
CANNOT_CONNECT_TO_DATABASE	"Cannot connect to core database"
MLM_DEFAULT_ERROR_CODE	"A Malima platform error occurred"

<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.   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

faultstring value : Too many line identifiers (*<maximum lines number>* at maximum).

4. Get Sim Report service

4.1. Request

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

4.2. Response

XML element	Card	Type	Description
getSimReportResponse			
globalProcessingStatus	1..1	TicketStatusType	Ticket global processing status
errorCode	0..1	string	Ticket error code
errorMessage	0..1	string	Ticket error message
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		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
line	0..n		Identify all lines processed during DeviceInfo WS
inputLineIdentifier	1..1		line identifier which was in input of a DeviceInfo WS request
[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 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	Subscriber number
[C] msisdnData	1..1		MSISDN data
cc	1..1	string	Country code
sn	1..1	string	Subscriber number
[C] msisdnFax	1..1		MSISDN fax
cc	1..1	string	Country code
sn	1..1	string	Subscriber number
processingStatus	1..1	TaskStatusType	Task processing status for this line
progressMessage	0..1	string	Task result progress message
errorCode	0..1	string	Task error code
errorMessage	0..1	string	Task error message
errorDate	0..1	DateTime	Task end date
updateDate	0..1	DateTime	Task result update date
supervision	0..1		Supervision information for the line
connectivity	1..1	boolean	Indicates whether the device is connected or not
signalQuality	0..n		
bearerType	0..1	string	Indicate the network access technology (2G or 3G)
errorSignalStrength	0..1	string	Indicate the error if the signal strength is not available
signalStrength	0..1		
value	1..1	int	The value of the signal strength
unit	1..1	string	The unit of signal strength
identity	0..1		
imei	1..1	string	The IMEI of the terminal
tac	1..1	string	The Type Allocation Code of the terminal
lastKnownIdentity	0..1		
imei	1..1	string	The value of IMEI before DeviceInfo update
timeStamp	1..1	DateTime	The date when the IMEI was writen in database before DeviceInfo update
ip	0..1	string	Allocated IP address used by the session
sessionTime	0..1	DateTime	Created date and time of the session
geolocation	0..1		

roaming			0..1	boolean	The terminal is on roaming or not
cellId			0..1		
	mcc		1..1	int	Mobile Country Code: Number assigned by the mobile network in the country where the phone connects.
	mnc		1..1	int	Mobile Network Code: Number to uniquely identify the mobile operator, in combination with the MCC number.
	lac		0..1	int	Location Area Code: Fixed 16-digit code that identifies the location area of the mobile phone in a public network.
	cellId		0..1	int	Cell idendifier
	extendedCellId		0..1	int	Cell identification number
geographicPosition			0..1		
	latitude		1..1	float	Latitude of geographic position.
	longitude		1..1	float	Longitude of geographic position.
	timeStamp		1..1	DateTime	The date of the DIS response retrieving the geographic position
	accuracy		1..1		
		value	1..1	int	The accuracy value
		unit	1..1	string	The accuracy unit
lastKnownGeographicPosition			0..1		
	latitude		1..1	float	Previous latitude of geographic position which was in database.
	longitude		1..1	float	Previous longitude of geographic position which was in database.
	timeStamp		1..1	DateTime	Previous update date of the geolocation which was in database
	accuracy		1..1		
		value	1..1	int	Previous accuracy value which was in database
		unit	1..1	string	Previous accuracy unit which was in database

4.2.1. GetSimReport ticket error codes and messages listing

Code	Message
MLM_INTERNAL_ERROR	<specific message>

4.2.2. GetSimReport task error codes and messages listing

Code	Message
MLM_INTERNAL_ERROR	<specific message>
<Called service error code>	<Called service error message>

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 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>
CANNOT_CONNECT_TO_DATABASE	"Cannot connect to core database"
MLM_DEFAULT_ERROR_CODE	"A Malima platform error occurred"
CANCEL_BY_ADMIN	"The ticket was canceled by an administrator"

<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

4.3.2. 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

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faultstring value : Ticket <ticket number> is unknown

4.3.3.   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>.

5. Get Statistics service

5.1. Request

XML element				Card	Type	Description
getStatisticsRequest						
	period			1..n		
		startDate		1..1	Date	Begin date of the search.
		endDate		1..1	Date	End date of the search
	lineIdentifiers			0..1		If not provided, the STS request is done on authenticated customer environment
		[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 identifier
		[C] machineSerialNumber		1..n	string	Machine serial number
		[C] msisdnVoice		1..n		MSISDN voice
			cc	1..1	string	Country code
			sn	1..1	string	Subscriber number
		[C] msisdnData		1..n		MSISDN data
			cc	1..1	string	Country code
			sn	1..1	string	Subscriber number
		[C] msisdnFax		1..n		MSISDN fax
			cc	1..1	string	Country code
			sn	1..1	string	Subscriber number

5.2. Response

XML element				Card	Type	Description
getStatisticsResponse						
	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		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
	lineValidationError			0..n		List of line validation errors different than unknown line identifiers. Maximum number of element in this list is defined by the list of DIS validation error codes concerning **lines** (see table below). In case of a subscription has many validation errors, then only the first detected validation error code is returned.
		lineIdentifiers		1..1		List of line identifiers in error
			[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 id
			[C] machineSerialNumber	1..n	string	Machine serial number
			[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
		error		1..1	string	Validation error message
			@code	1..1	string	Validation error code associated to the error message

periodValidationError			0..n			List of period validation errors. Maximum number of element in this list is defined by the list of DIS validation error codes concerning **periods** (see table below). In case of a period has many validation errors, then only the first detected validation error code is returned.
	periods		1..1			List of periods in error
		period	1..n			
			startDate	1..1	Date	Begin date of the period
			endDate	1..1	Date	End date of the period
	error		1..1	string		Validation error message
		@code	1..1	string		Validation error code associated to the error message
periodReport			0..n			
	startDate		1..1	Date		Begin date of the search.
	endDate		1..1	Date		End date of the search
	[C] cenIdentifier		1..1	string		Node UID of the authenticated customer environment
	[C] lineIdentifier		1..1			
		[C] subscriptionNumber	1..1	string		List of subscription numbers
		[C] simSerialNumber	1..1	string		List of SIM serial numbers
		[C] deviceImei	1..1	string		List of device IMEI
		[C] deviceSerialNumber	1..1	string		List of device serial numbers
		[C] deviceUniqueId	1..1	string		List of device unique identifiers
		[C] machineSerialNumber	1..1	string		List of machine serial numbers
		[C] msisdnVoice	1..1			Voice MSISDN
			cc	1..1	string	Country code
			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
	errorCode		0..1	string		Error code
	errorMessage		0..1	string		Error message
	statistics		0..n			
		tariffCode	1..1	string		Tariff code (dedicated to "supervision" or "location and supervision" request)
		nbSmsMo	1..1	int		Number of received sms
		nbSmsMt	1..1	int		Number of sent sms
		nbNotification	1..1	int		Number of received notifications
		nbRequestsOk	1..1	int		Number of successfully SMS sent by the service
		nbRequestsKo	1..1	int		Number of SMS that the service has not been able to send
		nbReportsOk	1..1	int		Number of sms mo successfully decoded
		nbReportsKo	1..1	int		Number of sms mo decoded on error
		nbTimeout	1..1	int		Number of session on timeout

DIS <u>line</u> validation error code values listing :

Code	Message
DIS_SUP_LOC_NOT_COMPATIBLE	The line is not compatible with the Supervision/Geolocation service

DIS <u>period</u> validation error code values listing :

Code	Message
DIS_FINISH_DATE_ERROR	The finish date can't be before the begin date
DIS_LOC_RANGE_DATE_ERROR	You cannot request statics older than <DIS_STS_MAX_DATE_RANGE> months

5.2.1.   GetStatistics error codes and messages listing

Code	Message
MLM_INTERNAL_ERROR	<specific message>
<Called service error code>	<Called service error message>

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	"Quota exceeded: it remains just <remaining hits count>/<allowed hits count> hit for this web service."
CANNOT_CONNECT_TO_DATABASE	"Cannot connect to core database"
MLM_DEFAULT_ERROR_CODE	"A Malima platform error occurred"

<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

5.3.1. 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 period-identifier pairs number

faultstring value : Too many period-identifier pairs (*<maximum period-identifier pairs number>* at maximum).