interface description for crossdocking-partner

Version 1.0 from 08/06/2021

Date	Version	Description	Author
23/10/2020	1.0	Initial Version	Hauan
08/06/2021	1.1	Update document Type description	Hauan

Content

Purpose of this document 2
Interface overview 2
Communication 2
File Format 2
Date and Time Format 2
Digital document Types 2
Exchange of message overview 3
Message time interval 3
Message-Type “AVISO” (Message #1/#2/#6) 4
Message-Type “SEND_DOC” (Message #2/#5/#8/#9) 6
Message-Type “CD_INFO” (Message #3) 7
Message-Type “REQ_DOC” (Message #4/#7) ..... **Fehler! Textmarke nicht definiert.**
Example Scenario 1 8

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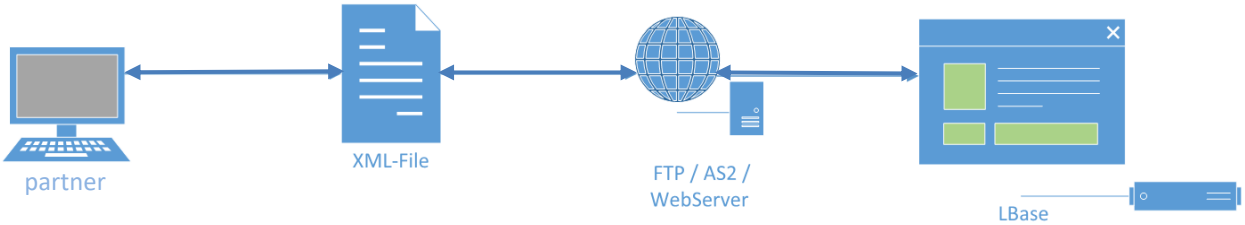
Purpose of this document

This document explains the interface for data exchange of deep-sea *crossdocking (CD)* information of the *TMS Lbase* of *Berger Logistik*. All orders should be sent in *XML* format, which will be described below.

Interface overview



Communication

Crossdocking information can be sent & received as an *XML*-File via *FTP/SFTP*. To get access to our service you must provide your external IP-address, which must be unlocked at our firewall.

This document will only cover necessary fields and information for the data structure of the *XML*-File.

File Format

The file needs to be in XML format. You will find below an explanation of the information needed to correctly process the data exchange. Minimum requirements are in black below. Useful but optional tags are mentioned in grey.

Date and Time Format

Date and time must be send in UTC-Format according to W3C standard.

type	XML example	comment
Date	<start>YYYY-MM-DD**Z**</start>	ie. 2020-11-31 (**UTC**)
Time	<start>hh:mm:ss**Z**</start>	ie. 12:59:44 (**UTC**)
TimeDate	<start>YYYY-MM-DDThh:mm:ss**Z**</start>	ie. 2020-11-31T12:59:44Z(**UTC**) or ie. 2020-11-31T12:59:44+02:00(**UTC**)

Digital document Types

Only *Base64 coded PDF*s documents, which are included as a data stream in an XML-Messages, will be processed.

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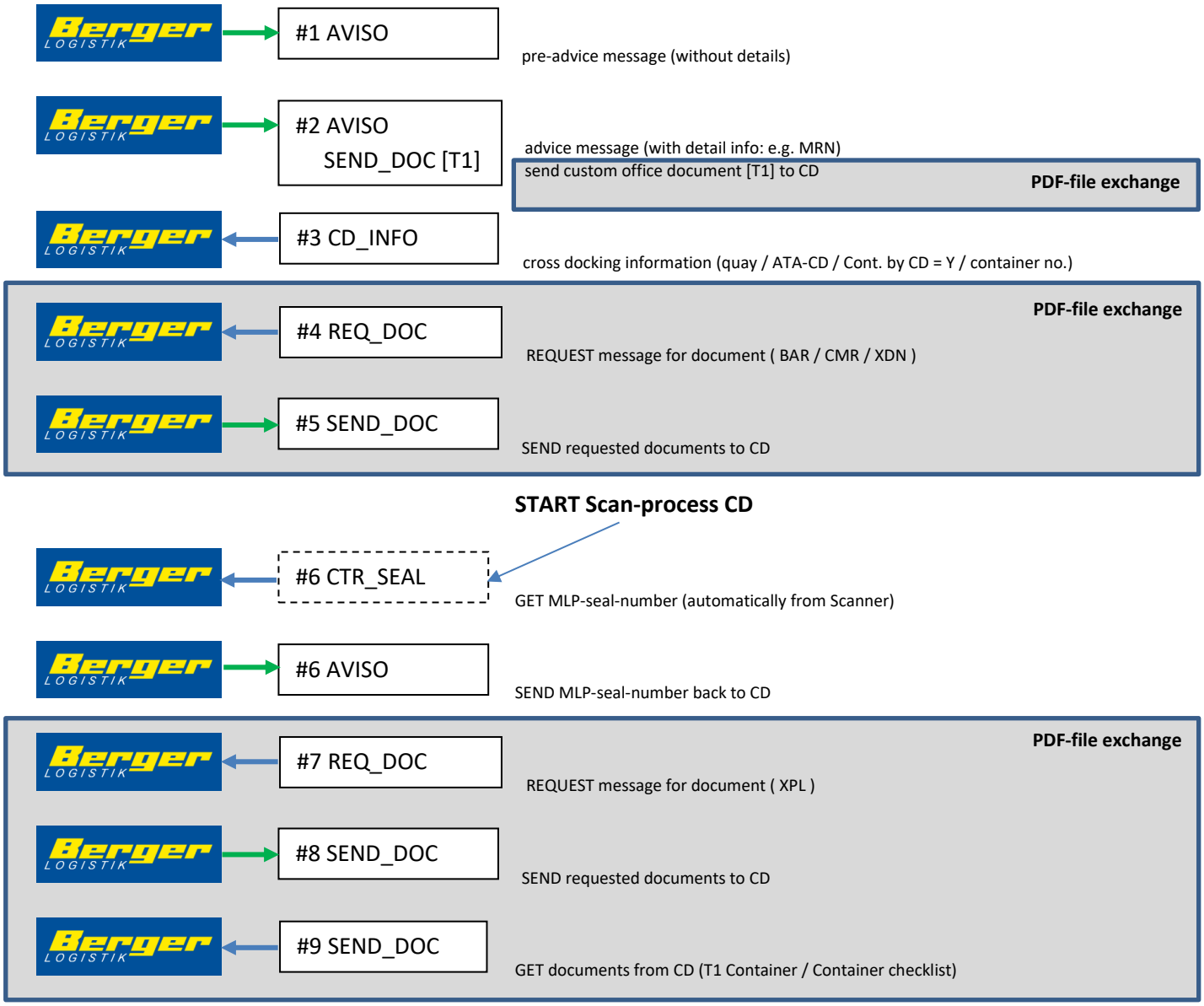
Exchange of message overview



Message time interval

Outbound messages will be sent after planning is done and plan dates / times are available.
First message from crossdocking partner must be sent before scanning starts, as some relevant information for the scanning process is contained (arrival of truck / rail, quay number, container number).
Possible error responses (container in use, container not valid, generic error) as answer to inbound messages will be sent automatically.

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Message-Type "AVISO" (Message #1/#2/#6)

The AVISO-Message (*advice*) will be sent after planning of the transport. In case of changes, updates will be sent. The message contains information about planned arrival at certain locations (relevant for planning at crossdocking partner), address information of locations, Berger / Red Bull references, information about leg (pre [PLP] or main [MLP]) and article:

XML-Tag	Value example	Occurrence	Explanation
Message		1	XML-Tag starting the message
Header		1	Message header
Sender	10004	1	Unique ID of the sender
DocDat	Date (in format YYYYMMDDHH24mmss)	1	Date of message
DocNum	BL-12345678	1	Unique ID of the document (this number will change for every file that is sent)
STATUS	N/U/C	1	Message Status (N=new / U=update / C=cancel)
Body		1	XML-Tag starting shipment info
SeaShipment		1	XML-Tag starting sea-shipment info
SeefrachtID	BL-854966-BL-1	1	Unique ID of sea-shipment
NUMBER_OF_CONTAINER	3	1	Number of containers
PALLETS	60	1	Number of pallets
C_TYP	40B	1	Type of container
CARRIER	CMA CGM Deutschland GmbH	1	Name of carrier
CTR_PICK_UP_REF	MUC0160006-0002	1	Container Pick-Up Reference
CTR_DEPOT	RHE TERMINAL	1	Container Depot Name
RELEASE_DATE	2020-10-12 00:00:00.0	1	Release date
CD_PLANED_BEGIN	2020-10-13 08:00:00.0	1	Planed begin cross docking
CD_PLANED_END	2020-10-13 15:00:00.0	1	Planed end cross docking
EARLIEST_GATE_IN	2020-10-15 08:00:00.0	1	Earliest date at gate in
CLOSING	2020-10-20 17:30:00.0	1	Closing date
ETD	2020-10-23 00:00:00.0	1	Estimated time of departure
CTR_DELIVERY_REF	MUC0160006	1	Container delivery reference
POL_TERMINAL	V.T.E. (Voltri Terminal Europa)	1	Port of Loading - Terminal
POL	ITGOA	1	Port of Loading
VESSEL	CHICAGO EXPRESS	1	Ship name
VOYAGE	'0MR6XW1MA	1	Ship voyage number
POD	USMIA	1	Port of Departure
TRANSPORT_MODE	MH /CH	1	Transport of full container (MH=merchant haulage / CH=carrier haulage)
CD_REFERENCE	12345678	1	Cross docking reference
MLP_CTR _RAIL	3	1	Number of containers on RAIL (MLP)
MLP_CTR _TRUCK	0	1	Number of containers on TRUCK (MLP)
HANDELSEINHEIT_CAN	3	1	Number of CAN
HANDELSEINHEIT_BOT	0	1	Number of BOT

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ShipmentGroupPLP		1	XML-Tag starting pre-leg shipments info
Shipment		1-n	XML-Tag starting pre-leg single-shipment info
Type	E	1	Shipment Type [E=single-shipment]
ID	BL-855764-BL-1	1	Unique ID of single-shipment PLP
Reference	0842490975	1	External customer reference
Articles		1	XML-Tag starting articles on single-shipment
Article		1-n	XML-Tag starting article on single-shipment
ArticleID	RB2860	1	Customer article number
Pallets	20	1	Number of pallets
Trays	2880	1	Number of Trays
GrossWeight	19353.6	1	Gross weight in kilogram
MRN	20AT920000TV2IWGX7	1	Master Reference Number (MRN)
SealNo	001969	1	seal number
Transports		1	XML-Tag starting tours on single-shipment
Transport		1	XML-Tag starting tour on single-shipment
FARID	BL-938313	1	Unique ID of tour on single-shipment PLP
FARTYP	TRUCK/RAIL	1	Transport type of tour with truck or rail
VKM1	2180 2457 288-3	1	Means of transport ID
VKM2		1	Means of transport ID2 (only by FARTYP=TRUCK)
ETA	2020-10-08 00:00:00.0	1	Estimated time of arrival
ETD	2020-10-13 08:00:00.0	1	Estimated time of departure
Carrier		1	XML-Tag starting carrier for tour
AddressID	110314	1	Unique ID of Carrier
NAME	Schenker Schweiz AG	1	Name of Carrier
Street	Fabrikstrasse 19	1	Address info
City	Buchs SG	1	Address info
PostalCode	9470	1	Address info
CountryCode	CH	1	Address info
Location		2	XML-Tag starting for loading/unloading Location
Role	Loading/Unloading	1	Role type [Loading/Unloading]
AddressID	104006	1	Unique ID of Loading/Unloading Address
NAME	Katoen Natie	1	Address info
Street	Strada Savonesa 12/16	1	Address info
City	Rivalta Scrivia (AL)	1	Address info
PostalCode	15057	1	Address info
CountryCode	IT	1	Address info
ShipmentGroupMLP		1	XML-Tag starting main-leg shipments info
Shipment		1-n	XML-Tag starting main-leg single-shipment info
Type	E	1	Shipment Type [E=single-shipment]
ID	BL-855264-BL-1	1	Unique ID of single-shipment MLP
Reference	0814095397	1	External customer reference

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Articles		1	XML-Tag starting articles on single-shipment
Article		1-n	XML-Tag starting article on single-shipment
ArticleID	RB2860	1	Customer article number
Pallets	20	1	Number of pallets
Trays	2880	1	Number of Trays
GrossWeight	19353.6	1	Gross weight in kilogram
SealNo	0311367	1	seal number
Transports		1	XML-Tag starting tours on single-shipment
Transport		1	XML-Tag starting tour on single-shipment
FARID_VL	BL-937748	1	Unique ID of pre-tour on single-shipment MLP
FARID_HL	BL-937754	1	Unique ID of main-tour on single-shipment MLP
FARTYP	TRUCK/RAIL	1	Transport type of tour with truck or rail
ETA	2020-10-12 00:00:00.0	1	Estimated time of arrival
ETD	2020-11-16 00:00:00.0	1	Estimated time of departure
Carrier		1	XML-Tag starting carrier for tour
AddressID	104006	1	Unique ID of Carrier
NAME	Katoen Natie	1	Name of Carrier
Street	Strada Savonesa 12/16	1	Address info
City	Rivalta Scrivia (AL)	1	Address info
PostalCode	15057	1	Address info
CountryCode	IT	1	Address info
Location		2	XML-Tag starting for loading/unloading Location
Role	Loading/Unloading	1	Role type [Loading/Unloading]
AddressID	137844	1	Unique ID of Loading/Unloading Address
NAME	RHE TERMINAL	1	Address info
Street	STRADA SAVONESE 12/16 – ALESSANDRIA	1	Address info
City	Rivalta Scrivia	1	Address info
PostalCode	15050	1	Address info
CountryCode	IT	1	Address info

Message-Type “SEND_DOC” (Message #2/#5/#8/#9)

Only base64 coded PDF documents in the following XML format will be processed.

XML-Tag	Value example	Occurrence	Explanation
Attachment		1	XML-Tag starting the Attachment
Sender	10004/104006	1	Unique ID of the sender: 10004=Berger Logistik / 104006 = Katoen Natie)
DocDat	Date (in format YYYYMMDDHH24mmss)	1	Date of message
Reference	BL-855764-BL-1	1	BL-Reference
ExternalID	0842490975	1	Customer-Reference
DocType	T1/BAR/CMR/XDN/XPL/CTRcheck	1	Type of Document
Data	JVBERi0xLjQNCjEgMCBvYmoNPD….	1	PDF in base64 encoded (data-stream)

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Message-Type "CD_INFO" (Message #3)

Before scanning following XML-Message information must be send to Berger Logistic.

XML-Tag	Value example	Occurrence	Explanation
Message		1	XML-Tag starting the message
Header		1	Message header
Sender	104006	1	Unique ID of the sender: 104006 = Katoen Natie
DocDat	Date (in format YYYYMMDDHH24mmss)	1	Date of message
STATUS	N/U/C	1	Message Status (N=new / U=update / C=cancel)
Body		1	XML-Tag starting shipment info
ShipmentGroupPLP		1	XML-Tag starting pre-leg shipments info
Shipment		1-n	XML-Tag starting pre-leg single-shipment info
Reference	BL-855764-BL-1	1	BL-Reference
ExternalID	**0842**490975	1	Customer-Reference
Quay	7	1	unloading quay (PLP) / loading quay (MLP)
Container		1	Container number (only required by MLP)
CTR_OK		1	Container checked by CD (only required by MLP)
Actions		1	XML-Tag starting action info
Action		1-n	XML-Tag starting Action on single-shipment
ActionType	Arrival	1	Type of Action
StartDate	Date (in format YYYYMMDDHH24mmss)	1	Start date of arrival
EndDate	Date (in format YYYYMMDDHH24mmss)	1	End date of arrival
ShipmentGroupMLP		1	XML-Tag starting main-leg shipments info
Shipment		1-n	XML-Tag starting main-leg single-shipment info
Order	X200905420	1	CD-Reference
Reference	BL-855264-BL-1	1	BL-Reference
ExternalID	**0814**095397	1	Customer-Reference
Quay	6 USA 4 PANNELLI	1	unloading quay (PLP) / loading quay (MLP)
Container	TEMU686220-3	1	Container number (required by MLP)
CTR_OK	Y/N	1	Container checked by CD (required by MLP)

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Document Types (DocType)

DocType	Description	Example snippet
T1		
BAR		
CMR		
XDN		
XPL		
CTRcheck		

Example Scenario 1

Examples provided in a separate ZIP-File.

If you need more example scenarios including XML example messages, feel free to contact us.
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