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Dokumentenart	**Systemanforderungen**
Titel / Projektname	**DISCO**

Projektleiter/-in	Klauenbösch Beat
Autor/-in	Beat Klauenbösch
Ausgabestelle	PM84
Klassifizierung	Intern
Ausgabedatum	25. Januar 2018
Version	V01.17

Änderungskontrolle

Version	Überarbeitung	Autor/-in	Datum
X01.01	Neues Dokument	Beat Klauenbösch, PM84	14.12.2015
X01.02	Ergänzungen und Detaillierungen ab BUC2	Beat Klauenbösch, PM84	11.01.2016
X01.03	Detaillierung nach Workshop SPS und internen Diskussionen	Beat Klauenbösch, PM84	24.03.2016
X01.04	Final Version and english translate	Beat Klauenbösch, PM84	13.04.2016
X01.05	Supplement BUC2 and BUC-2 Fafo-2-2 with following text: - Datas with "No further processing" will recorded statistically and process is ended. Supplement BUC-5: new graphics in BUC-5 FUN-5-1 No Masterdataimport from ZDL	Beat Klauenbösch, PM84	11.05.2016
V01.06	- Supplement BUC-2 FUN-3-2: Data from datatransfer to use for match - Suppplement chapture 3.7 BAfo-13: Housekeeping - Supplement chapture 3.8 - Version as Baseline for design	Beat Klauenbösch, PM84	23.05.2016
V01.07	- BUC-3: We will use DPM (Datenprüfmodul) from Siemens and not Adresschecker (open points in BUC-1 and BUC-3)	Beat Klauenbösch, PM84	17.06.2016
V01.08	- Figure 1 (Overview) and Figure 2 (Flowchart) changed - BUC-3: Details to Processing Datatransfer Datas in BUC-3	Beat Klauenbösch, PM84	29.06.2016
V01.09	- SAfo-8: delete column PLZ_ORT - Fafo-1-2: ZUBOFI delivery only weekly - Deliverytime masterdata from AMP - New name by SMT-Share for ZUBOFI (FaFo-1-2) - Regex für Filterung angepasst (FaFo-2-2) - CallerID=VG for matched data to VAM (FaFo-3-4) - Fafo-2-2: Filterregel angepasst	Beat Klauenbösch, PM84	10.11.2016
V01.10	- BUC-3: data from EAI to PADASA only if AMP.Key	Beat Klauenbösch, PM84	16.11.2016
V01.11	- Capture 3 inserted: State of BUC and FUN - BUC-3: Insert table for match and send - BUC-3, FaFo-3-3 ans FaFo-3-4: Addition with AMP-Key>0	Beat Klauenbösch, PM84	14.12.2016
V01.12	- Filter complement (BUC-2, FaFo-2-2) mit CODQUAL=61 - New startime 04:00 AMP-Delta import (BUC-1 FaFo-1-1) - ASDP change deliver time from 02:00 to 22:45	Beat Klauenbösch, PM84	02.03.2017
V01.13	- ASDP change deliver time from 22:45 to 19:00 - BUC-3: send to PADASA if also only a Hauskey is available	Beat Klauenbösch, PM84	17.05.2017
V01.14	- Change in FUN-4-1: update process describe in VAE_Agreement_zu_Erfassungsregeln	Beat Klauenbösch, PM84	17.07.2017
V01.15	- Document updated - SAfo-7: Change format for table ialias from csv to xml	Beat Klauenbösch, PM84	08.09.2017
V01.16	- Change in BUC-3 FaFo-3-1 and FaFo-3-3 (Ticket https://jira.post.ch/browse/DISCO-6 attach ItemUID)	Beat Klauenbösch, PM84	31.10.2017
V01.17	- Change in BUC-4 FUN-4-2 FaFo-4-5 (Ticket https://jira.post.ch/browse/DISCO-9 attach ItemUID)	Beat Klauenbösch, PM84	25.01.2018

Genehmigung

Prüfstelle	Freigabestelle	Datum	Visum
Stephan Beer, PM84			
Martin Lüthi, PM84			
Beat Hürzeler, PM84			
	Christian Bösch, PL22		

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1. General requirements

Nr.	Reference to goals	Requirements	Type (A, B, D, E, F, I, M, Q, S)	Acceptance criterion	Importance (1-5)	Priority (1-5)
GAfo-1	Z-05	Provide Master data	S	All master data are stored in DisCo and are available for the manual capture.	1	1
GAfo-2	Z-04 und Z-06	Provide consignment data	F	PDS data are stored in DisCo in a defined performance.	1	1
GAfo-3	Z-06	Match and distribute data	A	DataTransfer data are verified and stored, Data are processed correctly.	1	1
GAfo-4	Z-05	Offshore data entry	F	Manual data entry performed	1	1
GAfo-5	Z-01	Complete processing	F	Datamatrixcode are read where needed. Processing of the consignment is completed.	1	1

Legend:
- Type: A = Software architecture, B = Business, D = Documentation, E = Development, F = Functional, I = Information security (ISDS), M = Migration, Q = Quality, S = Interface.
- Importance: 1 = must be implemented; 2 = very important, 3 = important, 4 = less important, 5 = can be omitted.
- Priority: 1 = must be implemented as per deadline, 2 = deadline compliance is very important, 3 = deadline compliance is important, 4 = deadline compliance is less important, 5 = may be postponed.

2. Overview of requirements

A grafical overview of the system will help to understand the detailed requirements in a structured manner.
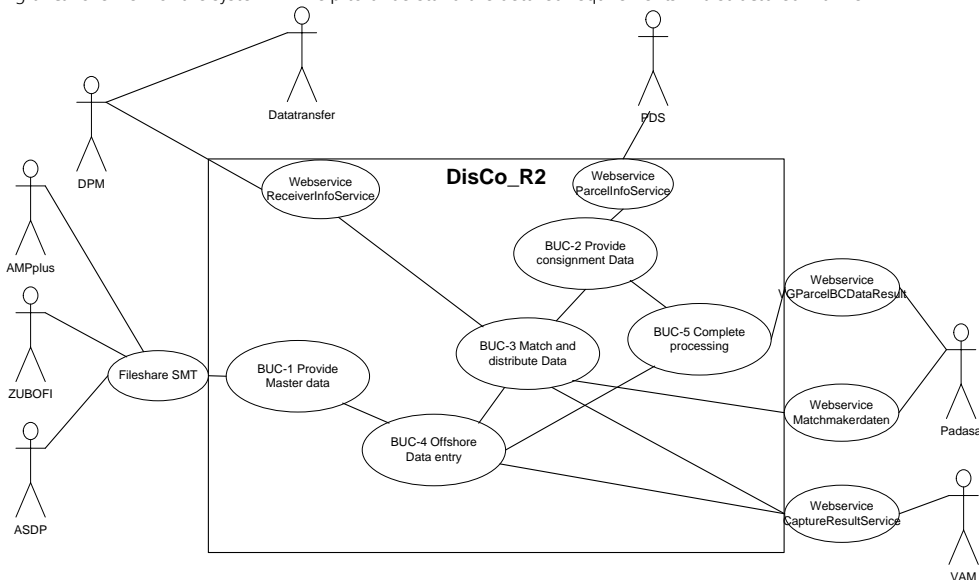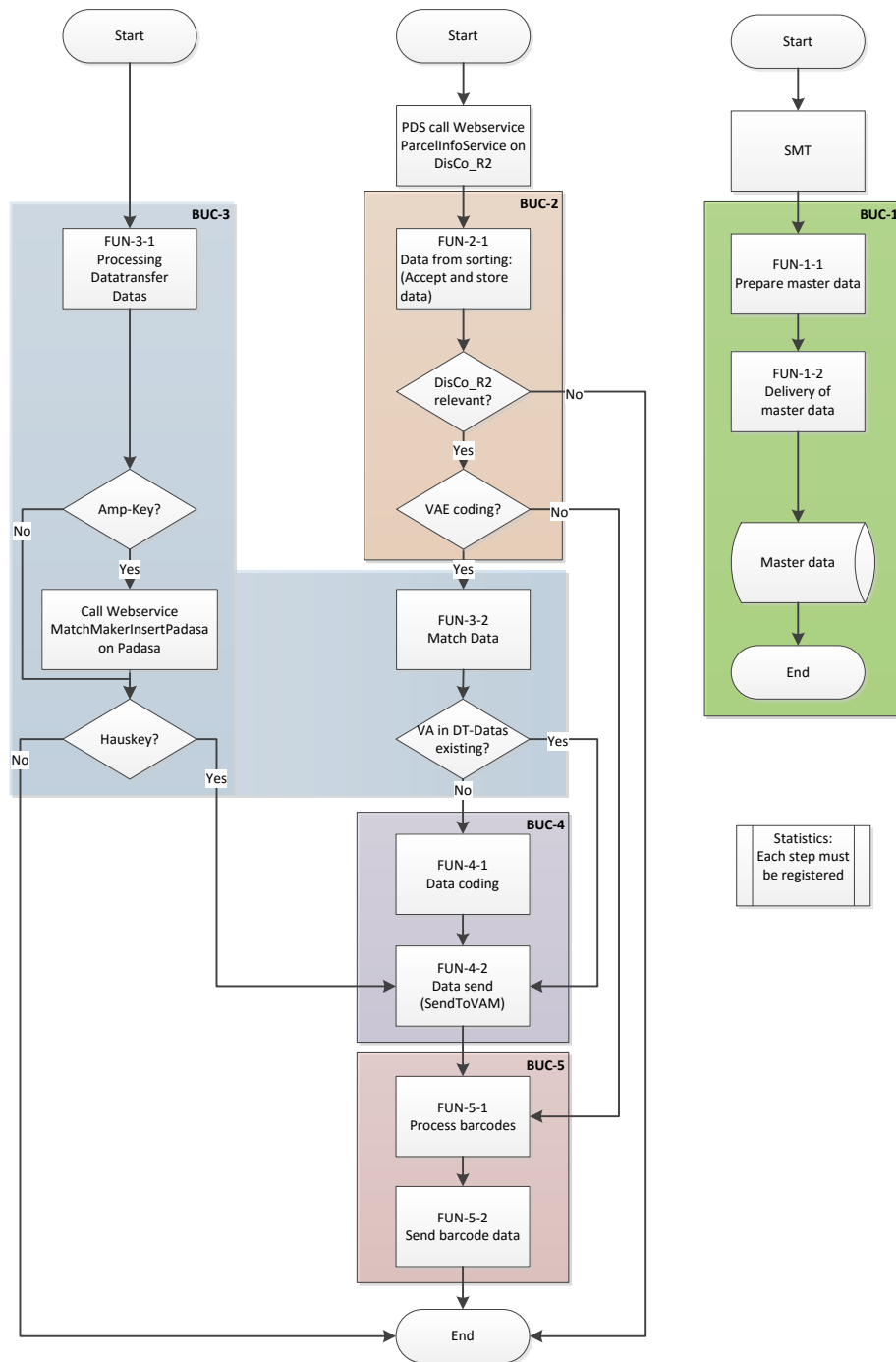

Figure 1 Overview of interfaces and Use Cases

Systemanforderungen DISCO
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```
                                                                   BUC-1
  Start          Start                              Start

                 PDS call Webservice
                 ParcelInfoService on               SMT
                 DisCo_R2
          BUC-3                         BUC-2
  FUN-3-1        FUN-2-1                             FUN-1-1
  Processing     Data from sorting:                 Prepare master data
  Datatransfer   (Accept and store
  Datas          data)
                                                    FUN-1-2
                                                    Delivery of
                 DisCo_R2          No               master data
                 relevant?
  Amp-Key?
                        Yes
No                                                  Master data
                 VAE coding?        No
         Yes
                        Yes
  Call Webservice                                   End
  MatchMakerInsertPadasa    FUN-3-2
  on Padasa       Match Data

                 VA in DT-Datas    Yes              Statistics:
  Hauskey?        existing?                          Each step must
No                                                   be registered
            Yes         No
                              BUC-4
                 FUN-4-1
                 Data coding

                 FUN-4-2
                 Data send
                 (SendToVAM)
                              BUC-5
                 FUN-5-1
                 Process barcodes

                 FUN-5-2
                 Send barcode data

                       End
```

Figure 2 Flowchart data flow

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3. State of Business Use Cases and Functions

BUC-ID	Titel des Business Use Case	FUN-ID	Titel der Anforderung	STK-ID	Prio (M/K)	Status (OK/NOK)	FaFo	Status	Auftrag/Projekt	Datum
BUC-1	Provide Master data	FUN-1-1	Prepare Mater data	STK-18	M	OK	FaFo-1-1 Provide Peronal data			
				STK-20	M	OK	FaFo-1-2 Provide Address data			
				STK-21	M	NOK	FaFo-1-3 Provide PLZ	OK	ABA-22: ASDP with Mypost24	27.02.2017
				STK-2	M	OK	FaFo-1-5 Prepare Master data			
		FUN-1-2	Delivery of Mater data	STK-7	M	OK	FaFo-1-6 Processing of file delivery			
				STK-7	M	OK	FaFo-1-7 Provision of data to SPS			
BUC-2	Provide consingment data	FUN-2-1	Data from sorting	STK-2	M	OK	FaFo-2-1 Read data of RPP			
				STK-2	M	NOK	FaFo-2-2 Filter	In work	ABA-100	open
				STK-2	M	OK	FaFo-2-3 Create statistics			
BUC-3	Match an distribute data	FUN-3-1	Processing Datatransfer datas	STK-2	M	NOK	FaFo-3-1 Receive data	In work	ABA-162	open
					M	OK	FaFo-3-2 <frei>			
				STK-2	M	NOK	FaFo-3-3 Forward data	OK / OK / In work	ABA-32 / ABA-89 / ABA-162	03.01.2107 / 19.07.2017 / open
		FUN-3-2	Match	STK-7	M	OK	FaFo-3-5 Match data	OK	ABA-32	03.01.2107
BUC-4	Offshore data entry	FUN-4-1	Data coding	STK-7	M	OK	FaFo-4-1 Search data			
				STK-7	M	OK	FaFo-4-2 Typing keyword	OK	ABA-113	01.09.2017
				STK-7	M	OK	FaFo-4-3 AMP-Key coding			
				STK-7	M	OK	FaFo-4-4 HAUSKEY coding			
		FUN-4-2	Data send	STK-2	M	NOK	FaFo-4-5 Send data	Offer	DISCO-9 / ABA-192	open
BUC-5	Verarbeitung abschliessen	FUN-5-1	Process barcodes	STK-7	M	OK	FaFo-5-1 Search data			
				STK-7	M	OK	FaFo-5-2 Read barcodes			
		FUN-5-2	Send barcode data	STK-2	M	OK	FaFo-5-3 Send barcode data to Padasa			
				STK-2	M	OK	FaFo-5-4 Complete			

4. Detailed requirements
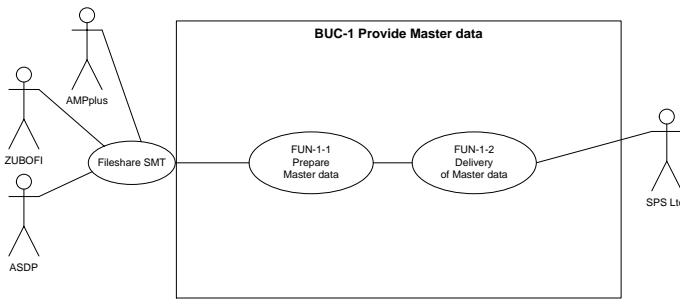
The detailed requirements describe the demands for the new respectively changed system (SOLL state). When required some of the detailed requirements are specified in detailed specifications furthermore.

Tip:

- The mentioned Stakeholder (STK) are in the document according to Stakeholderliste (see chapter 4 reference documents).

4.1 Functional requirements

A functional requirement is every requirement which makes a declaration to the pure function.

4.1.1 BUC-1 Provide Master data

BUC-1	Description
Short description	DisCo get the master data from Fileshare SMT. These are personal data (AMPplus), incl. individual and global aliases, address data (ZUBOFI), zip codes (ASDP with information on operational units and company postal code). All these master data are made available for manual data entry.
Trigger	AMPplus, ZUBOFI and ASDP deliver new MasterData for SMT. The actor obtains master data from SMT.
Precondition	SMT is available and new master data were delivered and stored by SMT
Standard process	
Alternative	Existing master data will be used if there by SMT are no new master data available.
Exceptions	No
Outcome	Master data are made available for SPS.
Documents	- Document [11] < SY_Schnittstelle_SMT_DisCo_<Version>.docx > chapter 3.1 FaFo-1 - Document [08] <AMPplus_SRS_Schnittstellen_<Version>.docx> chapter 5.14 Schnittstelle AMPplus ➔ ADM-SPM - ZUBOFI: Document [09] <SY_Schnittstelle_ZUBOFI_SMT_<Version>.docx> - ASDP: Document [10] < SY_Schnittstelle_ASDP_SMT_<Version>.docx>

4.1.1.1 FUN-1-1 Prepare master data

FaFo-1-1	**Provide Personal data**			
Categorization	Person in charge	STK-18	**Version**	1
	Priority (M / K)	M	**Status** (OK / NOK)	OK
Use case diagram				
Short description	Master data from AMPplus (personal data) are made available for DisCo. This are Names, Pers-Key, AMP-Key, Hauskey, Aliases and Pickpost/Mypost24-customernumber.			
Actor	DisCo-SMT-Scheduler			
Triggering event	Scheduler fetch data from SMT.			
Precondition	SMT is available			
Diagram (Recommended)				
Standard process	A scheduler runs regularly, deltas every day at 04:00 CET and full weekly at sunday 03:00 CET, to look for AMPplus data (full or delta delivery stored by SMT). If new data are available, they should be copied into a database. New datas are available if there at SMT in directory <AMPplus\xxx\01_Aktiv> datas with actual date (Filenames PL.KUN_xxxxxxx_ddmmyyy014006.xml contain the actual date). Following tables of AMPplus will be provided: - Persons - Individual Aliases Content of data for Persons and Aliases see chapter 4.4.2 Only inland addresses (domicile and postfach) are provided a) Up-to-date personal data: The up-to-date residential and business addresses need to be made available during data preparation. Considered as up-to-date are addresses that are valid and effective as from today and in the future and checked by AMPplus. Mutations are delivered in Delta. Duplicates in AMPplus are not delivered. b) Historically active personal data: These data are specified by AMPplus as "historically active". In other words, they are addresses from which a change of residence is done (redirection order is valid). Such residential and business addresses need to be made available during the data preparation.			
Alternative	The scheduler can be manually executed at any time			
Exceptions	If new data are not available, then processing is completed and prepared for the next run. There is a message that no new data were found.			
Postcondition (Result)	Master data are made available for DisCo.			

It is possible to see on what day which master data version was made available.

FaFo-1-2	Provide Adress data			
Categorization	Person in charge	STK-20	Version	1
	Priority (M / K)	M	Status (OK / NOK)	OK

Use case diagram	
Short description	Master data from ZUBOFI (address data) are made available for DisCo. This are streetname, housenumber, ZIP-Code, locations, aliases to street and locations, streetnumber and Hauskey.
Actor	DisCo-SMT-Scheduler
Triggering event	Scheduler fetch data from SMT
Precondition	SMT is available
Diagram (Recommended)	
Standard process	A scheduler starts regularly, every sunday at 02:30 CET to search on SMT for ZUBOFI data. If new data are available, they willl be copied into a database. New datas are available if there at SMT in directory <ZUBOFI_DISCO\01_Aktiv> datas with actual date (Filenames as example PL.ZUBOFI_ADR_provide_SE-S-SPO_V0100_17052016115506_158_20160517.xml contain the actual date). Following tables of ZUBOFI will be provided: - PLZ - LOK - LOKA - ADR - AADR Content of data for Persons and Aliases see chapter 4.4.3
Alternative	The scheduler can be manually executed at any time.
Exceptions	If new data are not available, then processing is completed and prepared for the next run. There is a message that no new data were found.
Postcondition (Result)	Master data are made available for DisCo. It is possible to see on what day which master data version was made available.

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FaFo-1-3	Provide PLZ			
Categorization	Person in charge	STK-21	Version	1
	Priority (M / K)	M	Status (OK / NOK)	OK

Use case diagram	
Short description	Master data from ASDP (ZIP with details of operation sites) and ASDPPLZ (companies ZIP) are made available for DisCo
Actor	DisCo-SMT-Scheduler
Triggering event	Scheduler fetch data from SMT
Precondition	SMT is available
Diagram (Recommended)	
Standard process	A scheduler starts regularly, every day at 02:30 CET to search on SMT for ASDP and ASDPPLZ data. If new data are available, they will be copied into a database. Following tables of ASDP will be provided: - ASDP = ZIP with details of operation sites - ASDPPLZ = ZIP with attributes to companies ZIP Content of data for ZIP see chapter 4.4.4
Alternative	The scheduler can be manually executed at any time.
Exceptions	If new data are not available, then processing is completed and prepared for the next run. There is a message that no new data were found.
Postcondition (Result)	Master data are made available for DisCo. It is possible to see on what day which master data version was made available.

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FaFo-1-5	Prepare Master data			
Categorization	Person in charge	STK-2	Version	1
	Priority (M / K)	M	Status (OK / NOK)	OK
Use case diagram				
Short description	Master data from DisCo database are prepared for the usage of data entry at manual coding (SPS Vietnam).			
Actor	DisCo			
Triggering event	DisCo-SMT-Scheduler are completed sucessfully			
Precondition	DisCo databases are available			
Diagram (Recommended)	It may be that data must be normalized or summarized. Discussion with SPS, suggestions and ideas might be addressed in SPS project concept.			
Standard process	Master data from DisCo database will be prepared for data entry.			
Alternative	If from one of the FaFo's no new datas delivered, don't prepare new master datas. The system should use the last successfull prepared datas.			
Exceptions	No			
Postcondition (Result)	Master data are made available for manual data entry.			

4.1.1.2 FUN-1-2 Delivery of master data

FaFo-1-6 / FaFo-1-7	Processing of file delivery and provision of data to SPS			
Categorization	Person in charge	STK-7	Version	1
	Priority (M / K)	M	Status (OK / NOK)	NOK
Use case diagram				
Short description	Master data are made available for the clients of manual data entry.			
Actor	DisCo			
Triggering event	FaFo-1-5 completed			
Precondition	DisCo database is available			
Diagram (Recommended)	It is conceivable that the clients access DisCo also via web service. Therefore, the procedures presented here would change. Discussion with SPS, suggestions and ideas as part of SPS concept.			
Standard process	Master data from DisCo database is prepared for manual data entry.			
Alternative	If there no new data prepared by FaFo-1-5 it's nothing to delivery. The system should use the last successfull delivered datas.			
Exceptions	No			
Postcondition (Result)	Master data are availabe for manual data entry.			

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4.1.2 BUC-2 Provide consignment data

BUC-2	Description
Short description	Data supplied by PDS (parcel data and images) are imported by DisCo. Data, which should be filtered and not go through data entry, will be transferred directly to BUC-5.
Trigger	PDS calls web service of DisCo and transfers data.
Precondition	PDS and DisCo are available
Standard procedure	
Alternative	No
Exception	If DisCo cannot store the data and confirm to PDS "successfully", an appropriate feedback must be sent to PDS. In that case, DisCo may not store data and must reverse the steps.
Result	DisCo received data and images from the PDS and stored for further processing to BUC-3. Data, which should be filtered and not go through data entry, will be transferred directly to BUC-5. Datas with "No further processing" will recorded statistically and process is ended.
Document	Description Webservice at document [03] <PDS_ParcelInfoService_V0224.docx>, and document [12] SY_Schnittstelle_PDS_DISCO_V0103.docx in chapter 4

4.1.2.1   FUN-2-1 Data from sorting

FaFo-2-1		Read RPP data		
Categorization	Person in charge	STK-2	Version	1
	Priority (M / K)	M	Status (OK / NOK)	NOK
Use case diagram				
Short description	Each PDS receives from all connected ACS (PAR) one or two RPP messages per coding. Exactly one RPP message per ACS coding is determined for each of the forwarding to DisCo. This message is recognized by PDS with the help of RPP Tags VCASE = 0 or VCASE = 1. The PDS will forward a subset of RPP data and the image (Full Binary) via ParcelInfoService to DisCo. ParcelInfoService is a web service which is provided by DisCo and is called by PDS. Data is stored on DisCo for further processing. Goto next step FaFo-2-2 (Filter).			
Actor	PDS, DisCo			

Triggering event	PDS calls the web service.
Precondition	PDS and DisCo are available.
Diagram (Recommended)	

Standard process	• Awaiting information The ParcelInfoService, which runs on DisCo, is called by PDS. PDS delivers a subset of information from the ACS (RPP message) to DisCo. In the web service, we have defined many fields, which contain numerical values, as integer rather than string. The reason is that question marks ("?" Or "????") might be sent in PP2000 protocol. Most of these fields are not required by the PDS itself and stored 1:1 into the PDB Oracle image database. There, these fields are present in each case as VARCHAR. It is therefore to be expected that on DisCo question marks may occur in such fields. File architecture of PacelInfoService:

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ParcelInfoService

+TransferParcelInfo(eing. info : TransferParcelInfoIn) : TransferParcelInfoOut

TransferParcelInfoIn

+Version : int
+CallerId : string
+ParcelInfoSentTimestamp : DateTime

TransferParcelInfoOut

+Version : int
+StatusCode : int
+StatusText : string
+DetailText (optional) : string

1   +ParcelInfo

ParcelInfo

+Identcode : string
+ParPicId : string
+SourceStation : string
+DestinationStation : string
+Timestamp : DateTime
+VcsCase : int
+Image : byte[]

0..1   +FullAddress

FullAddress

+Postleitzahl : string
+Strasse : string
+Strassennummer : string
+Ort : string
+ZipBase : string
+AddressType : string
+Vertices : string
+X1 : string
+Y1 : string
+X2 : string
+Y2 : string
+X3 : string
+Y3 : string
+X4 : string
+Y4 : string
+Angle : string

+ParcelCodingInfo

ParcelCodingInfo

+CodingArt : string
+CodingQuality : string

0..1

+ProduktZusatzleistungen

ProduktZusatzleistung

+Code : string

0..8

+ParcelAddress

ParcelAddress

+AddressType : string
+Zip : string
+Streetnumber : string
+Housenumber : string

0..1

Barcode

+Type : string
+Code : string
+Edges : string
+X1 : string
+Y1 : string
+X2 : string
+Y2 : string
+X3 : string
+Y3 : string
+X4 : string
+Y4 : string

+Barcodes

0..10

The RPP message is created for the first time after the ACS-coding, that is 2-8 seconds after the coding of the image. This also applies to consignments which are undergoing VCS coding. Due to the early creation of the RPP message, it is no longer possible to consider the VCS coding for DisCo. It is also to be expected with unusable images (Address not on image, etc.)

- Read RPP data
  Data is stored on DisCo. DisCo confirms to PDS the receiving.
- DisCo writes statistics upon receiving the data.
- Further processing of the data is triggered.

Alternative	ACS cannot read or insufficient address information for sorting, but Identcode has been found and read: The picture and the RPP message shall be made available for PDS. Here the process may vary either by more data to be captured or not usable image.
Exceptions	If DisCo cannot store the data and confirm to PDS "successfully", a appropriate feedback must be sent to PDS. In that case, DisCo may not store data and must reverse the steps. In this case, an error message must be written.
Postcondition (Result)	ACS information were transferred to DisCo via RPP message. The associated image is available on DisCo. Statistics are tracked. Further processing (Filtering FaFo-2-2) is triggered.

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FaFo-2-2	Filter			
Categorization	**Person in charge**	STK-2	**Version**	1
	Priority (M / K)	M	**Status** (OK / NOK)	OK

Use case diagram	
Short description	Each record is checked whether this is for DMC-processing (DataMatrixCode), for capturing or for DisCo not relevant. The record is marked accordingly. Each processing step is statistically recorded.
Actor	DisCo
Triggering event	FaFo-2-1
Precondition	DisCo is available
Diagram (Recommended)	
Standard process	DisCo checks the data whether they are subject to a special filtering and marks them accordingly. **Filtering** Filtering is used to controll which data and images do not need to be captured or not go through DMC-processing:

Filtering			Direct processing DMC	No further processing
Description	Criterium	Value		
Foreign parcel	ADR_TYP	A	X	
Foreign parcel	Identcode	99650000*	X	
Consignment without Identcode	Identcode			X
MCS Consignment	CODQUAL	90	X	
Extra service TSR	PRZL	1000	X	
Extra service GAS	PRZL	203	X	
Returns	Identcode	??01*	X	
No image	HasImage	False		X
Identcode not 18-digit	Identcode	.*(?<!^\d{18})		X
Remote parcel	CODQUAL	50	X	
Redirection and Military	PRZL	1020 1007	X	
Return consignment	PRZL	1030	X	
Transfer consignment	PRZL	1040	X	
Consignment from LCU	CODQUAL	71	X	
Successful VCS-Abort	CODQUAL	72	X	
Same Identcode repeatedly	Zeitdifferenz (minutes)	180		X
Exklusive Company PLZ	PLZ_TYP und LogistischerTyp=false	PLZTYP=40 and LOGTYP=0	X	
Logistics Company PLZ	PLZ_TYP und LogistischerTyp=true	PLZTYP=40 and LOGTYP=1	X	
Post internal PLZ	PLZ_TYP	80,99	X	
ZIP code	PLZ	303000	X	
PAR fFull address available	CODQUAL	67 (from PAR) or 61 (from other PZ)	X	

All non-filtered data are for capturing (full address data entry).

| Alternative | If DISCO receive from PDS data with PRZL=203 (GAS) and full address from PAR (CODQUAL=61 or 67) send this datas to VAM and record submit to BUC-5 (DMC coding) --> additional new step
If DISCO receive from PDS data with PRZL=203 (GAS) without full address from PAR (CODQUAL=61 or 67) submit record to BUC-5 (DMC coding) --> actual step
No |
|---|---|
| Exceptions | No |
| Postcondition (Result) | The data are available for further processing and contain the relevant characteristics for the next steps. The data are stored and available for next process steps BUC-3 or BUC-5. Datas with "No further processing" will recorded statistically and process is ended.
Each processing step is statistically recorded, it should be also apparent which filter has been applied. |

FaFo-2-3	**Create statistics**			
Categorization	**Person in charge**	STK-2	**Version**	1
	Priority (M / K)	M	**Status** (OK / NOK)	OK

Use case diagram	
Short description	Each data set and each processing step is statistically recorded.
Actor	DisCo
Triggering event	FaFo-2-1 or FaFo-2-2
Precondition	DisCo is available
Diagram (Recommended)	
Standard process	Data reception and the status for further processing (filter or parameter) is recorded in statistics. The whole record, all changes and the timestamps of each each processing step should be recorded. Each processing step results in a new entry in the statistics. The statistics should show which processing step the consignment is in and how long the processing step took. Identcode acts as the master key.
Alternative	No
Exceptions	No
Postcondition (Result)	Statistics entries created.

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4.1.3 BUC-3 Match and distribute data

BUC-3	Description
Short description	1) DataTransfer provides address information to consignments which arrive 45 minutes after address information are available at the parcel center. DPM will hand over informations Identcode, AMP-Key, Hauskey and services. Validated data with a Hauskey>0 are passed to VAM and to Padasa.

Verify receiver info

	Data from DPM (EAI)							Action of Disco	Data from DPM (EAI) to Disco		Data from PDS to Disco	
Case	AMP-Key (*)	Name/Firmenname	Strasse/Postfach	Postleitzahl	Ort	ParcelStreetNr	ParcelHausKey/HausKey (*)	Delete AMP-Key before send	After Verifying Disco send to		After Matching Disco send to	
									VAM	PADASA	VAE	VAM
1	☑	☑	☑	☑	☑	☑	☑	☐	☑	☑	☐	☑
2	☐	☑	☑	☑	☑	☑	☑	☐	☑	☑	☑	☐
3	☑	☐	☑	☑	☑	☑	☑	☑	☑	☑	☑	☐
4	☐	☐	☑	☑	☑	☑	☑	☐	☑	☑	☑	☐

\+ If DPM doesn't have ParcelHausKey, Disco will copy HausKey to ParcelHausKey before sending to VAM and PADASA

\+ (*) AMP-Key, ParcelHausKey and HausKey are valid if they are a number greater than 0

2) Parcel data from PDS (P-data) are checked whether there are already existing verified address data from DPM. If the parcel data already has an AMP-Key>0, it will be forwarded to VAM (see table before).
If there is still no AMP-Key and if it is not a company or Post Internal ZIP, the data incl. picture will be transmitted to manual data entry.
In addition, all data and images from PDS will go through barcode processing.

Trigger	DisCo received data from DPM or received data from BUC-2 for further process the datas (they will be marked for further process and BUC-3 will polling to find this datas)
Precondition	DPM, VAM, DisCo and Padasa are available
Standard process	

BUC-3 Match and distribute data

(Use case diagram: actors DisCo BUC-2, Datatransfer, DPM on left; DisCo BUC-4, VAM, Padasa on right. Use cases: FUN-3-2 Match, Webservice ReceiverInfoService, Webservice CaptureResultService, FUN-3-1 Processing Datatransfer Datas, Webservice Matchmakerdaten)

Alternative	No
Exceptions	a) If DPM is not available, the address from DataTransfer cannot be validated. In this case, an error message is written (every 15 minutes, adjustable about parameter). The transmission should be executed periodically, if successful, a success message is written. b) If Padasa is not available, the validated address cannot be transmitted to Padasa. In this case, an error message is written (every 15 minutes, adjustable about parameter). The transmission should be executed periodically, if successful, a success message is written. c) If VAM is not available, the validated address cannot be transmitted to VAM. In this case, an error message is written (every 15 minutes, adjustable about parameter). The transmission should be executed periodically, if successful, a success message is written.
Result	DisCo has distributed data to Padasa and VAM or to manual data entry. The data are available for further processing and contain the relevant characteristics for the next steps. The data are stored and available for next process steps. Statistics are tracked.
Documents	Descriptions at chapter 4: - of web service in doc [05] <CaptureResultService.wsdl> - of interface to PADASA in doc [06] SD_Systemdesign_VG-PADASA_V0102.docx - of interface DPM-DISCO in doc [13] SY_Schnittstelle_DPM_DISCO_X0101.docx

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4.1.3.1 FUN-3-1 Processing Datatransfer Datas

FAfo-3-1	Receive data			
Categorization	Person in charge	STK-2	Version	1
	Priority (M / K)	M	Status (OK / NOK)	NOK
Use case diagram				
Short description	DataTransfer sends data to DisCo via EAI and web service ReceiverInfoService. This Service will use the structure from CaptureResultService, increase with new information ItemUID. Data are processed and stored on DisCo. The processing steps are statistically recorded (refer to FaFo-2-2, chapter 4.1.2.1).			
Actor	DataTransfer			
Triggering event	DataTransfer uses the web service of DisCo			
Precondition	DisCo is available			
Diagram (Recommended)				
Standard process	EAI calls the web service ReceiverInfoService and passes data to DisCo. DisCo accepts the data and stores them for further processing. The processing stepsare statistically recorded.			
Alternative	No			
Exceptions	If ReceiverInfo object is not valid, a warning is delivered back and this also captures statistically. An object is considered as valid if the field "IdentCode" is not empty and contents in the field are in order, and one or more of the following fields are not empty and contents are in order: • Name or FirmennameStrasse or Postfach • Postleitzahl • Ort Not valid ReceiverInfo objects data are not stored in DisCo.			
Postcondition (Result)	Data from DataTransfer are stored on DisCo and available.			

FAfo-3-3	Forward data			
Categorization	**Person in charge**	STK-2	**Version**	1
	Priority (M / K)	M	**Status** (OK / NOK)	NOK

Use case diagram	
Short description	Data, which are validated with DPM, along with a Domizil-HAUSKEY>0 or Parcel HAUSKEY>0 must be forwarded to VAM and to Padasa.
Actor	DisCo
Triggering event	Available data via FaFo-3-1
Precondition	Fafo-3-1 has been completed and data with AMP-Key or a Domizil-HAUSKEY or Parcel HAUSKEY are available.
Diagram (Recommended)	
Standard process	If a unique record from an DPM query is ascertained, and if a Domizil-HAUSKEY>0 or Parcel HAUSKEY>0 exist, DisCo will send all data to VAMs (without class data and field ItemUID) and to Padasa (with class data or only field ItemUID). If Parcel-Hauskey is empty, the value of Domizil-Hauskey will be taken over in the Parcel-Hauskey field, when sent to VAM and Padasa. This because VAM work with Parcel-Hauskey.
Alternative	No
Exceptions	If Padasa or one of the VAM stations are not available, the addresses cannot be transmitted. In this case, an error message is written (every 15 minutes, adjustable about parameter). The transmission should be executed periodically, if successful, a success message is written.
Postcondition (Result)	Data are successfully sent to Padasa and all VAM stations. Statistics are tracked.

4.1.3.2 FUN-3-2 Match

FAfo-3-4	Match data				
Categorization	Person in charge	STK-7		Version	1
	Priority (M / K)	M		Status (OK / NOK)	OK

Use case diagram	
Short description	Parcel data, which are from PDS and proper for data entry, should be verified whether address data of DataTransfer already exist. If the parcel data already have AMP-Key>0, they should be forwarded to VAM. If not the data will be prepared to manual coding (BUC-4).
Actor	DisCo, VAM
Triggering event	BUC-2 FUN-2-1 FaFo-2-2 have data stored and are available with relevant characteristics
Precondition	PDS has delivered data to DisCo. DisCo has completed the data filtering.
Diagram (Recommended)	
Standard process	Newly stored data from BUC-2 (without filtering), should be matched with existing, verified address data from Fafo 3-1. If there are verified address data with full addresses (AMP-Key>0 and Hauskey) and not marked as manual or captured, they will be forwarded to VAM stations.Datas with a match will be delivery with CallerID=VG to VAM. It's possible that this process can be the same as the process BUC-4 FUN-4-2. Need to be defined in the concept papers. Upon successful handover to VAM, statistics will be tracked and mark the data as "captured".
Alternative	If there are not verified address data they will be stored with relevant characteristics to further process BUC-4 FUN-4-1. Statistics will be tracked and mark the data as "manual".
Exceptions	If one of the VAM station is not available, the addresses cannot be transmitted. In this case, an error message is written (every 15 minutes, adjustable about parameter). The transmission should be executed periodically, if successful, a success message is written. All other VAM stations will be operated with the data.
Postcondition (Result)	DisCo has distributed data to VAM and statistics marked these as "captured" or the data is marked with relevant characteristics to further process BUC-4 FUN-4-1 and statistics marked these as "manual". Statistics are tracked.

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4.1.4 BUC-4 Offshore data entry

BUC-4	Description
Short description	Via system DisCo, data and images which are not processed yet, will be passed to the manual data entry. According to specifications (detection rules) to be AMP-Key, domiciliary and Parcel HAUSKEY and services, as well as customer numbers, captured and returned via DisCo on VAM. The images are not returned and discarded in the manual coding.
Trigger	DisCo provides parcel data and images
Precondition	VAM, DisCo and manual coding are available. SPS Ltd. has the master data obtained from BUC-1 and provided for the acquisition.
Standard process	
Alternativen	No
Exceptions	a) If SPS Ltd. is not available, data cannot be transferred to manual data entry. In this case, an error message is written (every 15 minutes, adjustable about parameter). The transmission should be executed periodically, if successful, a success message is written. b) If VAM is unavailable, data cannot be transmitted. In this case, an error message is written (every 15 minutes, adjustable about parameter). The transmission should be executed periodically, if successful, a success message is written.
Result	For each fetched row manual coding has given feedback, statistics are tracked. The feedback goes to VAM
Documents	Descriptions - Erfassungsregeln_GHP - Capture procedure at SPS Ltd. in doc [07] VAE_Agreement_zu_Erfassungsregeln_20170530.V3.4.pdf> - Webreport, manage configuration in doc [14]

4.1.4.1 FUN-4-1 Capture data

FAfo-4-1	Search			
Categorization	Person in charge	STK-7	Version	1
	Priority (M / K)	M	Status (OK / NOK)	OK
Use case diagram				
Short description	Not VAE-processed data are searched and handed over the manual coding for recording.			
Actor	DisCo, SPS Ltd.			
Triggering event	BUC-3			
Precondition	DisCo completes the data filtering and already marked validated data assended to VAM.			

Diagram (Recommended)	
Standard process	BUC-3 labeled data (data without a filter characteristic and not yet processed VAE) are given in the manual coding. The statistics will be tracked.
Alternative	No
Exceptions	If SPS Ltd. is not available, data cannot be transferred to offshore. In this case, an error message is written (every 15 minutes, adjustable about parameter). The transmission should be executed periodically, if successful, a success message is written.
Postcondition (Result)	Data are in the manual coding, statistics are tracked.

FAfo-4-2 – FaFo-4-4	Capture Keyword, AMP-Key and Hauskey		
Categorization	Person in charge	STK-7	Version	1
	Priority (M / K)	M	Status (OK / NOK)	OK
Use case diagram			
Short description	In the manual coding should Pers_Key and AMP-Key, domiciliary and Parcel Hauskey, services and customer numbers are recorded.		
Actor	DisCo, SPS Ltd.		
Triggering event	The capture clients of manual coding received data.		
Precondition	Users are logged on to the Capture Clients		
Diagram (Recommended)			

Standard process	The process at SPS Ltd. acc. Document <VAE_Agreement_zu_Erfassungsregeln_20170530.V3.4.pdf> needs to be revised. Let's observe also the following points: **Adressen mit Exklusive Firmen-PLZ** were found in search and captured as Full Address. In order that Re-processing address with company plz will be not performed, the Vietnam-client must put **ParcelAdrType += Firmen-PLZ** in full address for ASDP.PLZTyp=40 (Firmen-PLZ). **Addressen with Logistische Firmen-PLZ** such as PostInternal-PLZ will be not found in search. Because Vietnam-Client have got no Stammdaten from GWB , an not-validated address in Vietname will be coded. The Re-processing will be not perfomed without Volle-Adresse , because of the lack of Amp-Key and der HausKey. The sorted relevant address will be captured by VCS or MCS.
Alternative	If no match with the master data can be found, the missing information of the address is to be entered manually.
Exceptions	If SPS Ltd. is not available, data cannot be transferred to offshore. In this case, an error message is written (every 15 minutes, adjustable about parameter). The transmission should be executed periodically, if successful, a success message is written.
Postcondition (Result)	DISCO SPS Ltd. receive a full address and stored. Statistics are tracked.

4.1.4.2 FUN-4-2 Data senden versenden

FAfo-4-5	**Send data**			
Categorization	**Person in charge**	STK-2	**Version**	1
	Priority (M / K)	M	**Status** (OK / NOK)	NOK
Use case diagram				
Short description	DisCo has sent the address data from manual data entry to VAM			
Actor	DisCo, VAM			
Triggering event	BUC-4 FUN-4-1 or BUC-3 FaFo-3-4			
Precondition	DisCo received response data from the manual data entry.			
Diagram (Recommended)				

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Standard process	BUC-4-FUN 4-1 newly stored data is forwarded to the appropriate VAM stations. DISCO uses value of element DestinationStation (PDS) to find the appropriate VAM. Example : "DAI-PDS01" -> Disco extracts the value and get 3 first characters 'DAI' to find & send response to DAI-Station. We also define list of VAM station rules as below:

Source	Destination Value	VAM Station
PDS	HAE-PDS01	HAE
PDS	DAI-PDS01	DAI
PDS	FRA-PDS01	FRA
PDS	LCU-PDS01	HAE
PDS	VET-PDS01	VET
PDS	UTZ-PDS01	UTZ
PDS	CAD-PDS01	CAD
DPM	Empty	All

	Upon successful handover to VAM, statistics will be tracked and marks the data as encoded. The same webservice to How datas processed and send to VAM will be used by defined and discuss between SPS and PL. It's possible that this can be about FUN-3-2 and FUN3-1.
Alternative	No
Exceptions	If VAM is unavailable, data from BUC-4 cannot be transmitted. In this case, an error message is written (every 15 minutes, adjustable about parameter). The transmission should be executed periodically, if successful, a success message is written.
Postcondition (Result)	DisCo has sent data to VAM, statistics are tracked. DISCO Re-send parcel to DMC-Service every 3 minutes (see parameter schedule.resend.dmc.cron by webreport)

4.1.5 BUC-5 Complete processing

BUC-5	Description
Short description	Consignments with datamatrix codes are recorded, read the codes and sends the content of the codes to Padasa. Padasa needs this data for evaluating of postage paid. After completing these tasks, a statistic is written and completed processing.
Trigger	Polling fro datas with relevant characteristics
Precondition	DisCo completed the filtering and marked the data for DMC-processing or as VAE-processed and not completed data are available
Standard process	
Alternative	No
Exceptions	If Padasa is unavailable, data from BUC-5 cannot be transmitted. In this case, an error message is written (every 15 minutes, adjustable about parameter). The transmission should be executed periodically, if successful, a success message is written.
Result	Statistics is written and data is marked as completed.
Documents	

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4.1.5.1 FUN-5-1 Process barcodes

FAfo-5-1	Search data			
Categorization	Person in charge	STK-7	Version	1
	Priority (M / K)	M	Status (OK / NOK)	OK
Use case diagram				
Short description	All relevant data for DMC-processing are searched • All data from BUC-2 Fafo-2-2 which were assigned directly for DMC-processing • All data processed by VAE			
Actor	DisCo			
Triggering event	Polling fro datas with relevant characteristics			
Precondition	Messages imported from BUC-2 by DisCo and data supplied by PDS (parcel data and images) must be available. DisCo has completed the data filtering.			
Diagram (Recommended)				
Standard process	All data which are not completed yet and relevant for DMC-processing are searched and fed the barcode processing. They are: • All data from BUC-2 Fafo-2-2 which were assigned directly for DMC-processing			

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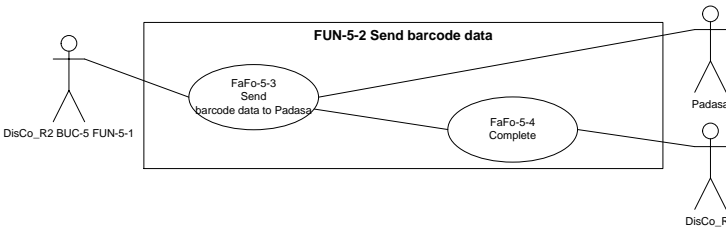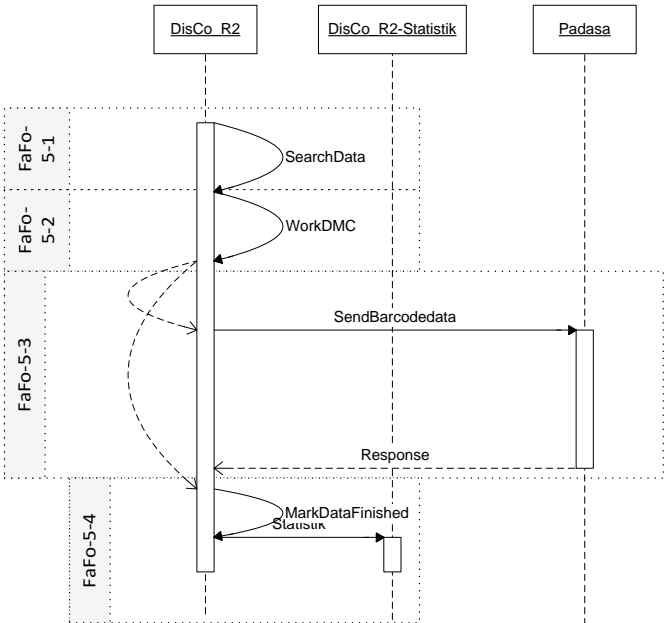
	• All data processed by VAE
Alternative	No
Exceptions	No
Postcondition (Result)	Found Data are fed the barcode processing.

FAfo-5-2	**Read Barcode**			
Categorization	**Person in charge**	STK-7	**Version**	1
	Priority (M / K)	M	**Status** (OK / NOK)	OK
Use case diagram				
Short description	Images will be checked for DMC codes and read existing code. Statistics will be tracked.			
Actor	DisCo			
Triggering event	BUC-5 FaFo-5-1			
Precondition	Data are made available from BUC-5 FaFo-5-1.			
Diagram (Recommended)				
Standard process	The images (contained in the data) are read and checked for existing DMC codes. Codes listed below are to be read and the contents should be stored.			

Description	Value
Frankiermerkmal SCHAPO	1;FM SCHAPO;DMC; (7561090)[0-9]{32}(0|1)[0-9]{19}(0)

	Frankiermerkmal IFS 1.0	2;FM IFS1;DMC; [0]{22}[0-9]{64}(00)
	Frankiermerkmal IFS 2.0	3;FM IFS2;DMC; (7568001)[0-9]{53}
	Frankiermerkmal WebStampPM	4;FM WSM;DMC; (7568015)[0]{9}[0-9]{70}(01)
	Frankiermerkmal YMAGO	5;FM YMA;DMC; (7561029)[0-9]29
	Frankiermerkmal IFS 3.0	6;FM IFS3;DMC; (7568003)[0-9]{53}

Processed data will be marked as BCsend.

Alternative	If there are no such codes available, data is marked as BCworked.
Exceptions	No
Postcondition (Result)	Contents of the relevant codes are stored, data are marked as BCsend or BCworked. The statistics are tracked. Trigger to FUN-5-2

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4.1.5.2 FUN-5-2 Send barcode data

FAfo-5-3	Send Barcode data to Padasa			
Categorization	Person in charge	STK-2	Version	1
	Priority (M / K)	M	Status (OK / NOK)	OK

Use case diagram	
Short description	Data marked with BCsend will be passed to Padasa and then marked as BCworked. Statistics will be tracked.
Actor	DisCo
Triggering event	BUC-5 FaFo-5-1
Precondition	Data are made available from BUC-5 FaFo-5-1
Diagram (Recommended)	
Standard process	Barcode contents with the mark BCsend is used to call the web service of Padasa and the data are passed to Padasa. Data are marked as BCworked. Statistics will be tracked.
Alternative	No
Exceptions	If Padasa is unavailable, data from BUC-5 cannot be transmitted. In this case, an error message is written (every 15 minutes, adjustable about parameter). The transmission should be executed periodically, if successful, a success message is written.
Postcondition (Result)	Contents of relevant barcodes are stored. Data are marked as BCworked. The statistics are tracked. Trigger to FaFo-5-4

FAfo-5-4	Complete			
Categorization	Person in charge	STK-2	Version	1
	Priority (M / K)	M	Status (OK / NOK)	OK

Use case diagram	
Short description	Data marked as BCworked will be completed and the processing is ended. Data is marked as finished. Statistics will be tracked.
Actor	DisCo
Triggering event	BUC-5 FaFo-5-3
Precondition	Data are available from BUC-5 FaFo-5-3
Diagram (Recommended)	
Standard process	Data using the mark BCworked be completed and the processing is terminated. The data is marked as finished. The statistics will be tracked.
Alternative	No
Exceptions	No
Postcondition (Result)	The data are marked as finished. The statistics are tracked.

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4.2 Quality requirements

User-related non-functional requirements. The ISO 9216 is an extensive collection of possible quality requirements:
- Usability (comprehensibility, learnability, operability).
- Efficiency (time behavior, consumption behavior).
- Reliability (maturity, fault tolerance recoverability).
- Changeability (analysability, modifiability, stability, testability).
- Transferability (of installation, portability, coexistence, interchangeability).

QAfo-1	Prioritization of PZ consignment over LCU consignment			
Categorization	Person in charge	STK-4	Version	1
	Importance (1-5)	2	Priority (1-5)	2
Precondition	DisCo will receive datas from PDS (see BUC-2)			
Description	This datas have a SourceStation definition. Shipments of the PZ (DAI, HAE, FRA) must be treated as a priority and in consignments from LCU. The setting, which SourceStation in which priority, is adjustable about parameter Process the datas from PZ (92% from all received datas) immediately and process the datas from LCU (8% from all received datas) as second priority.			

QAfo-2	Performance from provide consignment data (BUC2) to Offshore data entry (BUC-4)			
Categorization	Person in charge	STK-4	Version	1
	Importance (1-5)	1	Priority (1-5)	1
Precondition	Received datas from PDS are stored in DisCo.			
Description	Timeline for process from stored data (end of process FaFo-2-1) to Offshore data entry (end of process FaFo-4-2) is: - for PZ datas <= 27 seconds with 90% of the data - for PZ datas <= 45 seconds with 10% of the data - for LCU datas <= 900 seconds (15 minutes) with 100% of the data			

QAfo-3	DisCo-Statistik			
Categorization	Person in charge	STK-3	Version	1
	Importance (1-5)	1	Priority (1-5)	2
Precondition	Process steps and data handling			
Description	Each step, include possible change in the data, to a consignment must be logged. This logging can be carried out as a log file or in a database structure. The datas should be available for 60 days back (dynamically definable)			

4.3 Requirements regarding development and maintenance environment

Requirements for development and maintenance environment such parallelization, technology, programming policy, naming conventions, testability, etc.

EAfo-4	Environment			
Categorization	Person in charge	STK-22	Version	1
	Importance (1-5)	1	Priority (1-5)	1
Precondition	Environment is discussed between development and IT Post			
Description	For best flexibility we should use virtual technologie.			

4.4 Requirements regarding interfaces

Professional, technical and organizational requirements for the interfaces such as protocol and infrastructure, formats, limitations and conditions, timing, synchronization of the interface, data volume (minimum, average, maximum), error handling, security.
Whether a separate interface documentation for each interface is necessary, must be judged situationally.

4.4.1 Data from PDS

SAfo-5	Big images in KByte			
Categorization	Person in charge	STK-2	Version	1
	Importance (1-5)	2	Priority (1-5)	2
Precondition	The size of the parcel image has an influence on the transmission of data (time)			
Description	Allowed to DisCo the data transmission of each data set PDS not exceed the period of 0.3 seconds.			

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4.4.2 Data from AMPplus

SAfo-6	Content of data Persons			
Kategorisierung	Verantwortlicher	STK-15	Version	1
	Wichtigkeit (1-5)	2	Dringlichkeit (1-5)	2
Precondition	Datas from AMPplus are delivered to SMT			
Description	There are xml-files			

Feld	Typ	Bemerkungen
KUN_KDP_ID	Int	KDP_ID
KUN_TYP	String	Personen-Typ P = Privatpersonen (private) O = Geschäftspersonen (office)
KUN_GESCHLECHT	String	Nur bei Privatpersonen M = männlich (Herr) W = weiblich (Frau)
KUN_NAME	String	Nachname oder Firmenname und Firmennamezusatz
KUN_VORNAME	String	Vorname nur bei Privatpersonen
KUN_AKTION	String	I = Einfügen (insert) U = Änderung (update) D = Löschen (delete) Im Full immer ‚I'
ZUB_ADR_ID	int	Adr_ID
ZUB_AADR_ID	int	AADR_ID
ZUB_HAUSKEY	int	Zubofi Hauskey
ZUB_HBK_ID	int	Briefkasten ID
Q_LEVEL	int	Qualitätslevel 0 = FECS-Deaktivierung 1 = Klon 2 = Nachsendungen 3 = Postfach 4 = Standard (GFS)
NIXIE_CODE	int	Rücksendungsgrund-Schlüssel Das Feld ist nur bei NIXIE gefüllt, d.h. bei Personen mit Rücksendungsgründen 2 = gestorben 4 = Empfänger konnte an der Adresse nicht ermittelt werden 6 = Firma erloschen 7 = weggezogen, NSA abgelaufen 8 = kein NSA vorhanden
Kundennummer	String	Die Zugangsnummer welche der Kunde zum Produkt Pickpost oder Mypost24 hat

SAfo-7	Content of data Aliases			
Kategorisierung	Verantwortlicher	STK-15	Version	1
	Wichtigkeit (1-5)	2	Dringlichkeit (1-5)	2
Precondition	Datas from AMPplus are delivered to SMT			

Description	~~There are xml-files~~
	Individuelle Aliase:
	   - Is a xml-file
	   - Structur: KUN_KDP_ID,ALIAS_ID,NAME_ALIAS,VORNAME_ALIAS
	   - datas: 22738975;108190;;MARIA LUIGIA			

Feld	Typ	Bemerkungen
KUN_KDP_ID	int	KDP_ID
ALIAS_ID	int	Alias Id (früher IALIAS_ID_LOKAL)
NAME_ALIAS	String	Alias von Name
VORNAME_ALIAS	String	Alias von Vorname

Globale Aliase:

This datas will be send per mail by request from DISCO and have following format:
- Is a csv-file
- line 1 (Structur): Bez; Sollstring~~Basis~~;Alias1;Alias2;Alias3;Alias4;Alias5;Alias6
- next lines (datas): FNM;ADELHEID;HEIDI;HEIDY

Feld	Typ	Bemerkungen
Bez	String	Unbekannter Wert, kann ignoriert werden

SollstringBasis	String	Originalname zu dem alle folgenden Aliasbezeichnungen gehört
Aliasx	String	1-n Aliasbezeichnungen zum Originalnamen (Basis)

4.4.3 Data from ZUBOFI
There are xml-files:

Tabellenname	Beschreibung
ZUBO_PLZ	This table contains the local data (f.e. PLZ, city name)
ZUBO_PLZA	This table contains the local data alternative city names to the PLZ
ZUBO_LOK	This table contains the streetnames to the PLZ, incl. LOK_ID and streetnumber LOK_ASTRNR_HOST_BOFI
ZUBO_LOKA	This table contains alternative streetnames
ZUBO_LOKU	This table contains streetnames in French
ZUBO_AADR	This table contains alternative address (f.e. other description to a streetname)
ZUBO_ADR	This table contains the addresses (f.e. housenumber and housenumber appendix)

Table: ZUBO_PLZ

Feld	Typ	Länge	NULL/NOT NULL	Bemerkung
PLZ_ID	NUMBER	13	NOT NULL	PK
PLZ_PLZ	Varchar2	6	NOT NULL	Postleitzahl
PLZ_ONRP	Number	5	NOT NULL	Eindeutige Kennung für den PLZ
PLZ_ORT_18	VARCHAR2	18	NOT NULL	Ortsbezeichnung auf 18 Stellen
PLZ_ORT_39	VARCHAR2	39	NOT NULL	Ortsbezeichnung auf 39 Stellen
PLZ_KANTON	Varchar2	2	NOT NULL	Kantonskürzel
PLZ_SPRACH_CODE_1	Number	1	NULL	Sprachcode der PLZ

Table: ZUBO_PLZA

Feld	Typ	Länge	NULL/NOT NULL	Bemerkung
PLZA_ID	NUMBER	13	NOT NULL	PK
PLZA_PLZ_ID	NUMBER	13	NOT NULL	Logischer Schlüssel zur PLZ
PLZA_ONRP	Number	5	NOT NULL	Eindeutige Kennung für den PLZ
PLZA_SPRACH_CODE	Number	1	NULL	Sprache der Bezeichnung
PLZA_ORT_18	VARCHAR2	18	NOT NULL	Ortsbezeichnung auf 18 Stellen
PLZA_ORT_39	VARCHAR2	39	NOT NULL	Ortsbezeichnung auf 39 Stellen

Table: ZUBO_LOK

Feld	Typ	Länge	NULL / NOT NULL	Bemerkung
LOK_ID	NUMBER	13	NOT NULL	PK
LOK_PLZ_ID	NUMBER	13	NOT NULL	Logischer Schlüssel zur ZUBO_PLZPLZ
LOK_NAME	VARCHAR2	60	NOT NULL	Offizieller Name der Adresse
LOK_NAME_GK_BOFI	VARCHAR2	25	NOT NULL	Offizieller SOFI Name auf 25 Stellen
LOK_NAME_G_BOFI	VARCHAR2	28	NOT NULL	Offizieller Name in Großbuchstaben SOFI von 28 Positionen
LOK_SPRACH_CODE	Number	1	NOT NULL	Sprache der Bezeichnung
LOK_ASTRNR_HOST_BOFI	Number	6	NOT_NULL	Eindeutige Kennung für die Lokalisation

Table: ZUBO_LOKU

Feld	Typ	Länge	NULL/NOT NULL	Bemerkung
LOKU_ID	NUMBER	13	NOT NULL	PK
LOKU_LOK_ID	NUMBER	13	NOT NULL	Logischer Schlüssel zur ZUBO_LOK
LOKU_NAME	VARCHAR2	60	NOT NULL	Offizieller Name der Adresse
LOKU_NAME_GK_BOFI	VARCHAR2	25	NOT NULL	Offizieller SOFI Name auf 25 Stellen
LOKU_NAME_G_BOFI	VARCHAR2	28	NOT NULL	Offizieller Name in Großbuchstaben SOFI von 28 Positionen
LOKU_SPRACH_CODE	Number	1	NOT NULL	Sprache der Bezeichnung
LOKU_ASTRNR_HOST_BOFI	Number	6	NOT_NULL	Eindeutige Kennung für die übersetzte Lokalisation

Table: ZUBO_LOKA

Feld	Typ	Länge	NULL/NOT NULL	Bemerkung
LOKA_ID	NUMBER	13	NOT NULL	PK
LOKA_LOK_ID	NUMBER	13	NOT NULL	Logischer Schlüssel zur ZUBO_LOK
LOKA_NAME	VARCHAR2	60	NOT NULL	Offizieller Name der Adresse
LOKA_NAME_GK_BOFI	VARCHAR2	25	NOT NULL	Offizieller SOFI Name auf 25 Stellen
LOKA_NAME_G_BOFI	VARCHAR2	28	NOT NULL	Offizieller Name in Großbuchstaben SOFI von 28 Positionen
LOKA_SPRACH_CODE	Number	1	NOT NULL	Sprache der Bezeichnung
LOKA_ASTRNR_HOST_BOFI	Number	6	NOT_NULL	Eindeutige Kennung für die alternative Lokalisation

Table: ZUBO_AADR

.Feld	Typ	Länge	NULL/NOT NULL	Bemerkung
AADR_ID	NUMBER	13	NOT NULL	PK
AADR_ADR_ID	NUMBER	13	NOT NULL	Logischer Schlüssel zur ZUBO_ADR
AADR_NAME	VARCHAR2	60	NOT NULL	Offizieller Name der Adresse
AADR_NAME_GK_BOFI	VARCHAR2	25	NOT NULL	Offizieller SOFI Name auf 25 Stellen
AADR_NAME_G_BOFI	VARCHAR2	28	NOT NULL	Offizieller Name in Großbuchstaben SOFI von 28 Positionen
AADR_ASTRNR_HOST_BOFI	Number	6	NOT_NULL	Eindeutige Kennung für die alternative Adresse

Table: ZUBO_ADR

.Feld	Typ	Länge	NULL/NOT NULL	Bemerkung
ADR_ID	NUMBER	13	NOT NULL	PK
ADR_LOK_ID	NUMBER	13	NOT NULL	Logischer Schlüssel zur ZUBO_LOK
ADR_HAUSKEY	NUMBER	13	NOT NULL	Eindeutige Kennung für die Adresse
ADR_HNR	NUMBER	4	NULL	Adresse Nummer
ADR_HNRA	VARCHAR2	6	NULL	Alphanumerische Adresse Nummer

4.4.4 Data from ASDP

SAfo-8	Content of data ASDP			
Kategorisierung	Verantwortlicher	STK-21	Version	1
	Wichtigkeit (1-5)	1	Dringlichkeit (1-5)	1
Precondition	Datas from ASDP are delivered to SMT into ASDP or ASDPPLZ			
Description	The requested flatfile for ASDP have following format: - Line 1: #ASDP^000408^20150520020022 - Line 2: #POSTFACHANLAGE - Line 3: #[SAP_ID]^[KDP_ID]^[HAUSKEY]^[NAME]^[NAME2]^ [NAME3]^[STRASSE]^[NUMMER]^[PLZ]^[ORT]^[PF_PLZ]^[PF_ORT]^[OEPLZ]^ [OEPLZ_BEZEICHNUNG]^[POSTFACH]^[PICKPOST]^[POSTLAGERND] - Next lines (datas with delimiter '^'): 103672^15743813^58146475^Volg^Postagentur Märwil^^Weinfelderstrasse^2^956200^Märwil^^^956200^Märwil^Ja^Nein^Ja			

Bezeichnung im File	Beschreibung ASDP
SAP_ID	OE_OBJEKT_ID_SAP, Primärschlüssel zur OE
KDP_ID	KDP-ID/AMP der zur OE verknüpften Adresse
HAUSKEY	Hauskey gemäss AMP
NAME	NAME gemäss AMP
NAME2	VNAME_NAME2 gemäss AMP
NAME3	NAME3 gemäss AMP
STRASSE	STRASSE_TEXT gemäss AMP
NUMMER	HAUSNR + HAUSNR_A gemäss AMP
PLZ	ORT_PLZ gemäss AMP
ORT	ORT_ORT gemäss AMP

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PF_PLZ	PF_PLZ gemäss AMP
PF_ORT	PF_ORT gemäss AMP
OEPLZ	OEPZ_PLZ, zur OE verknüpfte PLZ
OEPLZ_BEZEICHNUNG	PLZB_BEZ39
POSTFACH (ja/nein)	OE hat aktive Schalterart Postfachanlage = ja
PICKPOST (ja/nein)	OE hat aktives Leistungsangebot Pickpost = ja
POSTLAGERND (ja/nein)	OE von PV und LiePost (Typ 700, 701 (Poststelle) 972 (Postunternehmer), 990 (PK-Stelle), 961 (Ymago-Agentur), 962 (V-MaX-Agentur) mit einem aktiven Normalschalter = ja

Exaples:

Description	Addresse without Postfachanlage and Pickpoststelle	Adresse with Postfachanlage and Pickpoststelle
SAP_ID	125746	102596
KDP_ID	13955506	13963440
HAUSKEY	8042491	8133207
NAME	Volg	Post CH AG
NAME2	Postagentur Krauchthal	Poststellen und Verkauf
NAME3		Poststelle Wimmis
STRASSE	Länggasse	Bahnhofstrasse
NUMMER	17	15
PLZ	332600	375200
ORT	Krauchthal	Wimmis
PF_PLZ		375200
PF_ORT		Wimmis
OEPLZ	332600	375200
OEPLZ_BEZEICHNUNG	Krauchthal	Wimmis
Postfach (ja/nein)	Nein	Ja
Pickpost (ja/nein)	Nein	Ja
Postlagernd (ja/nein)	Ja	ja

The requested flatfile for ASDPPLZ have following format:
- Line 1: #ASDPPLZ^000002^20160506113903
- Line 2: #Postleitzahl aus Allgemeine Stammdaten Post
- Line 3: #[PLZ_PLZ]^[PLZ_TYP]^[PLZ_LOGTYP]^[PLZ_IBS]^[PLZ_ABS]
- Next Lines (datas with delimiter '^'): 100000^20^^01.03.1988^

Format of the fields:

Attribute	Date type	Description
PLZ_PLZ	VARCHAR2(6)	6 character PLZ
PLZ_TYP	NUMBER (2)	2 character TYP Nummer of PLZ
PLZ_LOGTYP	NUMBER (1)	*Bit = 1, Logistics Company-PLZ* *Bit = 0, Exclusive Company-PLZ* *Bit = NULL for PLZ_TYP <> 40 (value is irrelevant)*
PLZ_IBS	*DATE*	*Activation date of PLZ*
PLZ_ABS	*DATE*	*Abandonment date of PLZ (optional)* *DATUM = NULL, when the PLZ is valid for an unlimited time*

Intern

4.5 Requirements regarding documentation

Listing of the demands for the system documentation like allocation the detail demands to the detailed specifications, structure of the system design, Description of the elements, etc.

DAfo-9	Detailed specifications			
Categorization	Person in charge	STK-7	Version	1
	Importance (1-5)	2	Priority (1-5)	2
Precondition	None			
Description	The supplier creates and provides a detailed specification for the system DisCo			

DAfo-10	Operation manual			
Categorization	Person in charge	STK-7	Version	1
	Importance (1-5)	2	Priority (1-5)	2
Precondition	None			
Description	The supplier creates and delivers an operating manual for the system DisCo.			

4.6 Requirements regarding architecture

Architecture-related requirements, such as Persistent, session handling, integration with other IT systems, distribution, internationalization, etc.
In addition, these requirements are used as input into the system architecture.

AAfo-11	Recognition of Barcode types			
Categorization	Person in charge	STK-2	Version	1
	Importance (1-5)	2	Priority (1-5)	2
Precondition	The system must recognize and read at least the codes listed here can			
Description				

Barcodetyp für Konfiguration	Barcodetyp
2D-Codetypen	
Datamatrix	Data Matrix
QRCode	QR Code
PDF417	PDF417
Aztec	Aztec Code
1D-Barcodetypen	
Code39	Code 39
Code128	Code 128
Code2_5i	Code 2/5 interleaved
UPC	UPC
EAN	EAN
4statepostal	4-state postal codes

4.7 Requirements regarding operation

Operation-related non-functional requirements such as reliability, availability, etc.
In addition, these requirements are used as input into the operational concept and the Service Level Agreement (SLA).

BAfo-12	Housekeeping			
Categorization	Person in charge	STK-	Version	1
	Importance (1-5)	2	Priority (1-5)	2
Precondition	No			
Description	Stored transaction data (data from PDS from BUC-2 and data from Datatransfer from BUC-3) DisCo are of a housekeeping after a certain period (dynamically definable) deleted. Data storage: All data in DisCo during a configurable time period (Default: 14 days) are stored and erased after this time from housekeeping service.			

BAfo-13	Filter			
Categorization	Person in charge	STK-2	Version	1
	Importance (1-5)	1	Priority (1-5)	1
Precondition	No			
Description	The filter must be able to be adjusted dynamically.			

4.8 Requirements from ISDS concept

List of requirements from the ISDS concept as transport of data, communication partners, etc.

ISAfo-14	Communicatzion between CH and VN			
Categorization	**Person in charge**	STK-22	**Version**	1
	Importance (1-5)	1	**Priority** (1-5)	1
Precondition	The communication between switzerland and Vietnam is installed about swiponet			
Description	Swiponet is a logical name fort he network „Swiss Post Net" which is used fort eh communication between Switzerland and Vietnam. This network is guaranteed by different providers (today Swisscom, Open Systems and United Security Providers) and offers no network base services like DHCP, DNS, NTP etc.. All locations or the respective main location per country are bound on Internet VPN (Open Systems) tot he Swiss Post. Swiponet guarantees the sure transference oft he data oft he foreign societies tot he Swiss Post.			

Tipp: die Nummerierung (1 bis n) der Detailanforderungen kann so automatisch aktualisiert werden:
1. "Ctrl + F2" drücken.
2. Der Druckvorschau schliessen (oder „Esc" drücken).
3. Die Nummerierung wurde automatisch aktualisiert.

5. Reference documents

Nr	Document
01	Stakeholderliste: \\Hpcf12\isa_pl_pm$\10_Applikationen\DISCO\07-Release-Changemanagement\Anforderungsdokumentation\STK_Stakeholderliste.docx
02	Adresschecker Anbindung Umsysteme: \\Hpcf12\isa_pl_pm$\10_Applikationen\DISCO\07-Release-Changemanagement\Anforderungsdokumentation\ACH\ACH_V4_3_Anbindung_Umsysteme.pdf
03	Webservice PDS: \\Hpcf12\isa_pl_pm$\10_Applikationen\VG\04-Applikationsdokumentation\PDS-VG\PDS_ParcellnfoService_V0224.docx
04	Webservice PLDTVG: \\Hpcf12\isa_pl_pm$\10_Applikationen\VG\04-Applikationsdokumentation\DT-VG\PLDTVG.wsdl
05	Webservice VAM: \\Hpcf12\isa_pl_pm$\10_Applikationen\DISCO\03-Betriebsdokumentation\VG-DisCo\CaptureResultService.wsdl
06	Webservice Adressdaten Padasa: \\Hpcf12\isa_pl_pm$\10_Applikationen\DISCO\07-Release-Changemanagement\Anforderungsdokumentation\PADASA\SD_Systemdesign_VG-PADASA_V0102.docx
07	Erfassungsprozess bei SPS Ltd.: ..\..\01-Anwenderdokumentation\Erfassungsregeln\VAE_Agreement_zu_Erfassungsregeln_20170530.V3.4.pdf
08	AMPplus Schnittstellenbeschreibung: \\Hpcf07\postlog$\Projekte\ABA_Analyse_Bild_und_Adressverarbeitung\M9_Eliminierung_VG\03_Konzept\AMPplus\AMPplus_SRS_Schnittstellen_X02.04.docx
09	ZUBOFI Interface description: \\Hpcf12\isa_pl_pm$\10_Applikationen\DISCO\07-Release-Changemanagement\Anforderungsdokumentation\ZUBOFI\SY_Schnittstelle_ZUBOFI_SMT_V0105.docx
10	ASDP Interface description:
11	Description Interface SMT-DISCO: \\Hpcf12\isa_pl_pm$\10_Applikationen\DISCO\07-Release-Changemanagement\Anforderungsdokumentation\SMT\SY_Schnittstelle_SMT_DisCo_V0104.docx
12	Interface description PDS-DISCO: \\Hpcf12\isa_pl_pm$\10_Applikationen\DISCO\07-Release-Changemanagement\Anforderungsdokumentation\PDS\SY_Schnittstelle_PDS_DISCO_V0103.docx
13	Description interface DPM-DISCO: \\Hpcf07\postlog$\PostLogistics-Projekte\DISCO Betrieb\Anforderungen\13_Daten_DT_Kontour\SY_Schnittstelle_DPM_DISCO_X0103_english.docx~~\\Hpcf12\isa_pl_pm$\10_Applikationen\DISCO\07-Release-Changemanagement\Anforderungsdokumentation\DPM\SY_Schnittstelle_DPM_DISCO_V0102_english.docx~~
14	Webreport for parameters: \\Hpcf12\isa_pl_pm$\10_Applikationen\DISCO\03-Betriebsdokumentation\SPS_DISCO_R2_Webreport_Guide_v1.3.docx

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6. Synonyms and abbreviations

Here are just terms and abbreviations are listed that are not yet known and require further additions.

Synonyms/ abbreviations	Term (German)	English description
ABA	Analyse Bild- und Adressverarbeitung	Analysis Image and Address processing
ACH	Adresschecker	Address checker
ACS	Automatisches Codiersystem	Automatic coding system
AMP	**A**ddress **M**anagement **P**ost (Personenstammdaten)	**A**ddress **M**anagement **P**ost (Master data for persons)
ASDP	Allgemeine Stammdaten Post (Verwaltung PLZ und Betriebsstellen)	Generic master data Post (Management of Zip code and operating locations)
DMC	DataMatrixCode (2D-Barcode)	DataMatrixCode
DPM	Datenprüfungsmodul	Data validation module
MCS	Manuelles Codiersystem	Manual Coding System
OCR	Optical Character Recognition	Optical Character Recognition
PAR	**P**arcel **A**ddress**R**ecognition	Parcel address recognition
PLZ	**P**ost**l**eit**z**ahlen (können 4- oder 6-stellig sein)	ZIP code (can be 4 or 6 characters)
SMT	**S**ystem**M**anagement**T**ool (Verwaltung Softwarebestände der Paketzentren)	System Management Tool (Management of software versions at parcel centers)
VA	**V**olle **A**dresse	Full address
VAE	**V**olle **A**dress**e**rfassung	Full address keying
VAM	**V**olle **A**ddress **M**anager	Full address manager
ZDL	**Z**ustell**d**ienst**l**eistungen	Delivery service
ZUBOFI	**Zu**stell**bo**ten**fi**le (Adressstammdaten und Zustellorganisation)	Postal delivery file (Adress Master data and delivery organisation)