

# ***ULD CARE 2014 Annual Conference in Mainz***

***Mainz, 09.09.2014***

***Thorsten Kraus***

***Senior Manager of the Cargo and Mail transportation department***



# Agenda

## Part 1

Fraport AG

- facts and figures

## Part 2

BVD-TR1

- cargo and mail  
transportation department

## Part 3

ULD-Transport and  
ULD- Handling

# Part 1

Fraport AG

Facts and figures



# **Worldwide: 11<sup>th</sup> in Pax Traffic, 8<sup>th</sup> in Cargo Traffic**

## **Europe: 3<sup>rd</sup> in Pax Traffic, 1<sup>st</sup> in Cargo Traffic**



### **Biggest passenger airport in Germany**

- 58 mil. passengers in 2013
- 99 airlines fly to 252 destinations in 107 countries
- Star Alliance accounts for 77% of passengers at FRA
- A380-Hub of Deutsche Lufthansa
- Highest rate of Transfer Passenger (55%) in Europe



### **One of the leading cargo hubs in Europe**

- 2.1 mil. metric tons of freight and mail in 2013
- 26 cargo airlines flying to 82 destinations in 47 countries
- Nearly 40% of cargo volume is transported in bellies of passengers aircraft
- Leading cargo hub enhances airline yields via belly freight



### **Europe's largest catchment area**

- 38 million people or about 43% of the German population live within a 200km radius from FRA
- 174 ICE and long-distance trains and 223 regional trains per day
- 6 mil. passengers per year use the long-distance trains to and from FRA, (~21% of originating passengers)

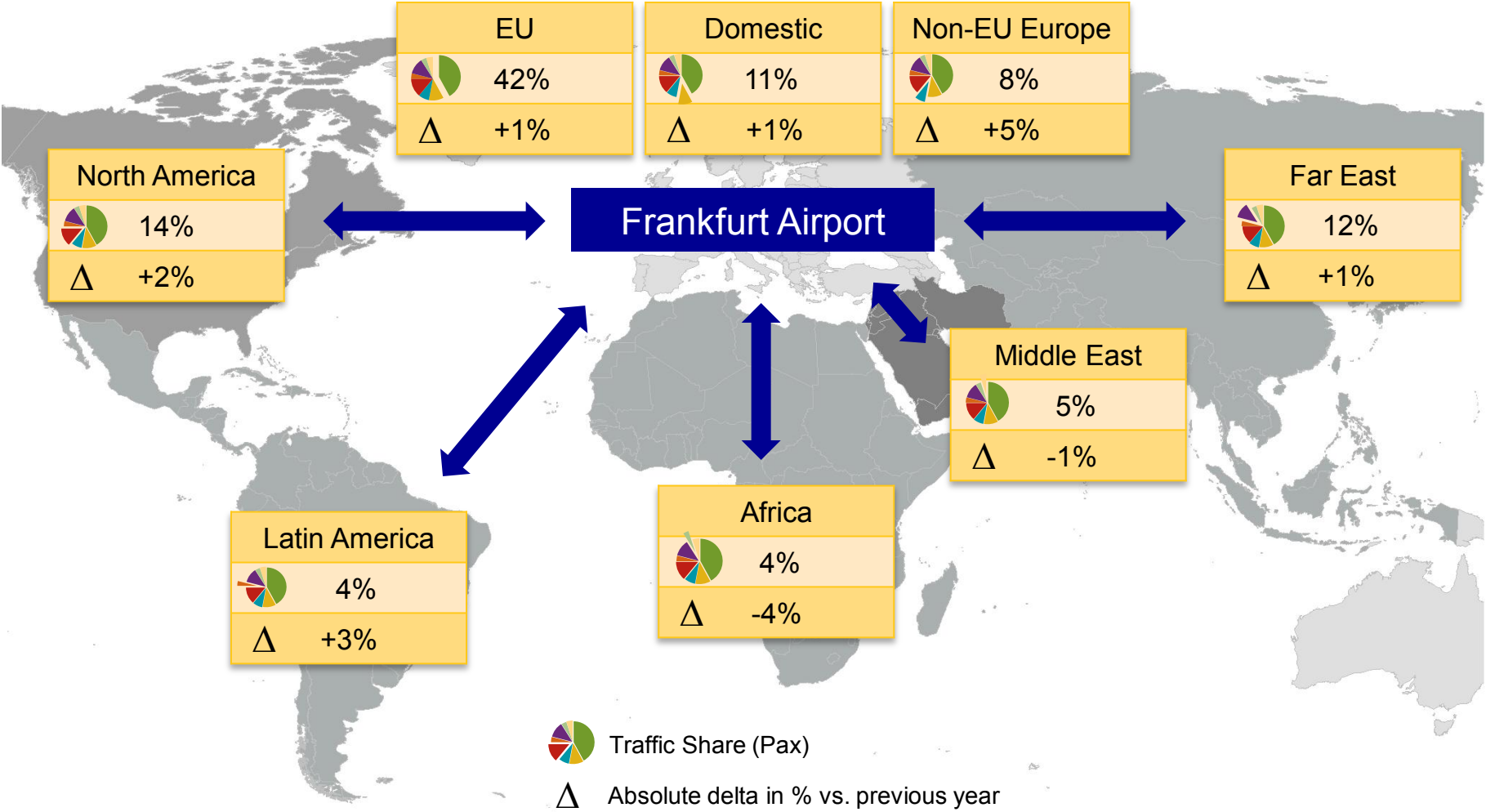


### **Frankfurt Airport - top of the hubs**

- High connectivity with more than 250 destinations
- Competitive level of charges compared to other European hubs
- Superior ground handling quality
- Capacity increase of more than 50% due to fourth runway offers growth potential

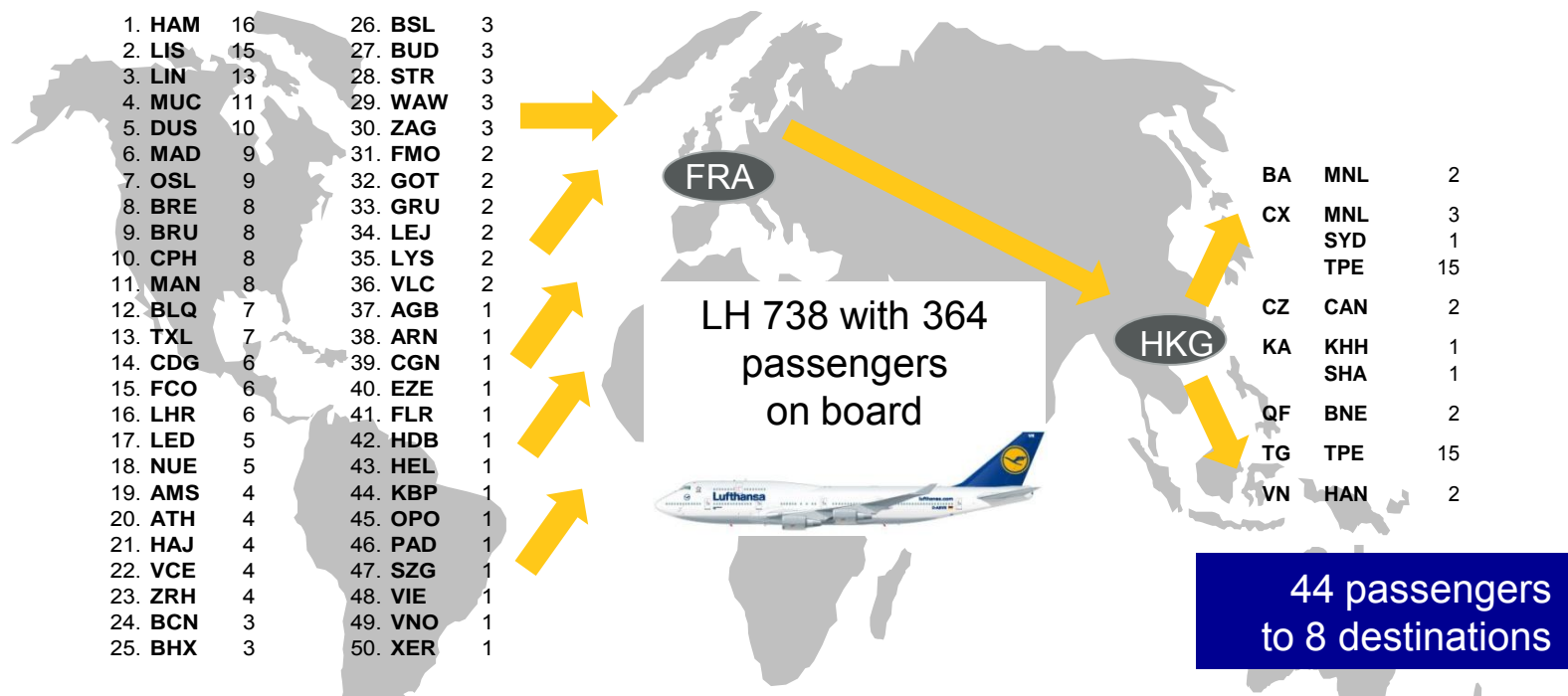


# Traffic Split: Cont. 61% (+2%) - Intercont. 39% (+1%)



# Airport System: Hub and Spoke

## Exemplary Flight LH 738 Frankfurt to Hong Kong

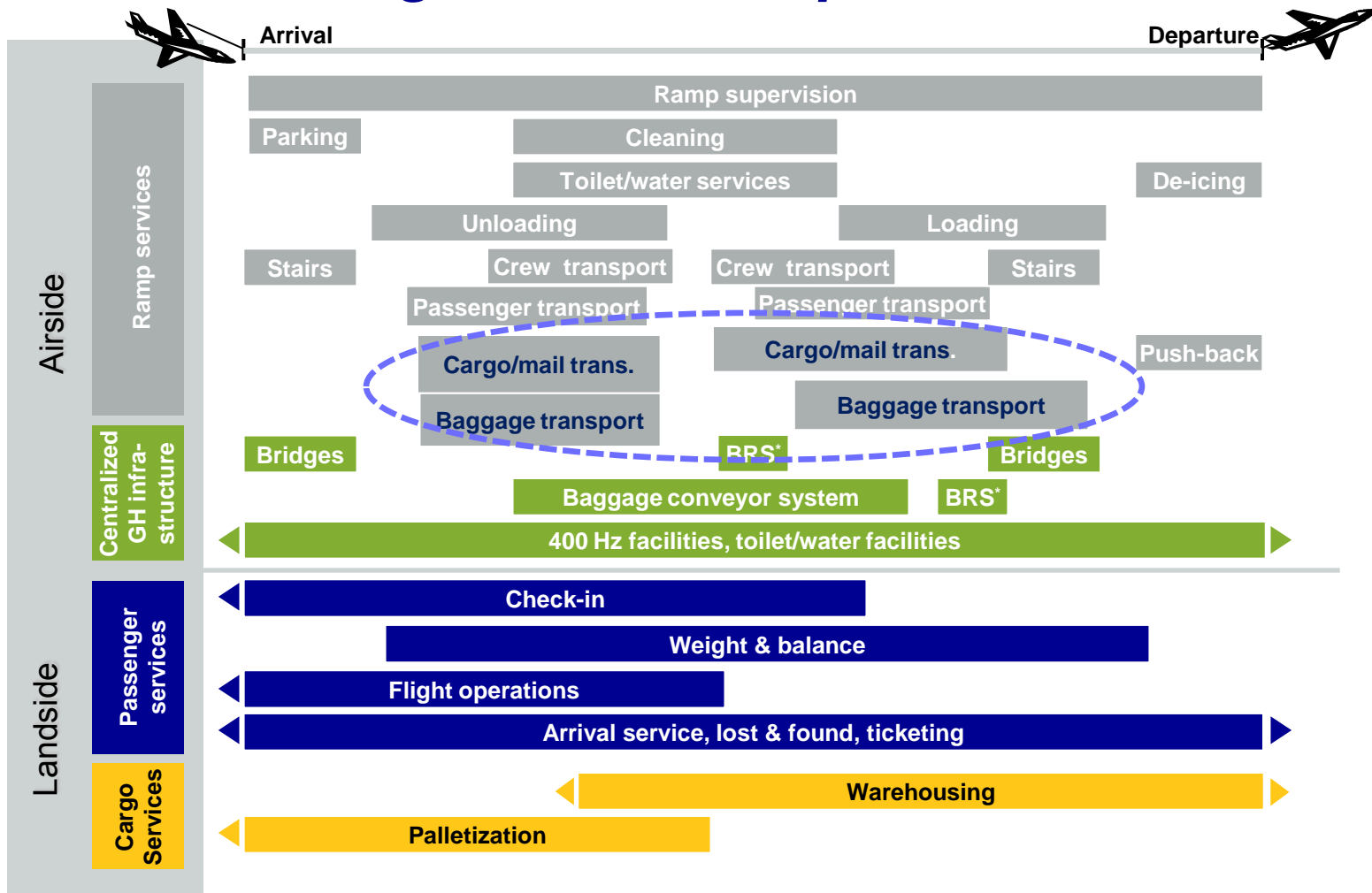


224 passengers coming from 50 feeder destinations

44 passengers to 8 destinations

# Ground Handling

## On-time Management of complex Processes



\* BRS = Baggage Reconciliation System

## Part 2

BVD-TR1

Cargo and Mail  
Transportation department





# ***BVD-TR1***

## ***Facts and Figures***

### **Administration:**

**Senior Manager  
Manager Operations & procedures  
Manager Operation**

**Thorsten Kraus  
Thomas Klenk &  
Stefan Reiss  
Detlef Marquardt  
Sven Fabian Schneider  
Lydia Schmidt**

**Coordinator management system**

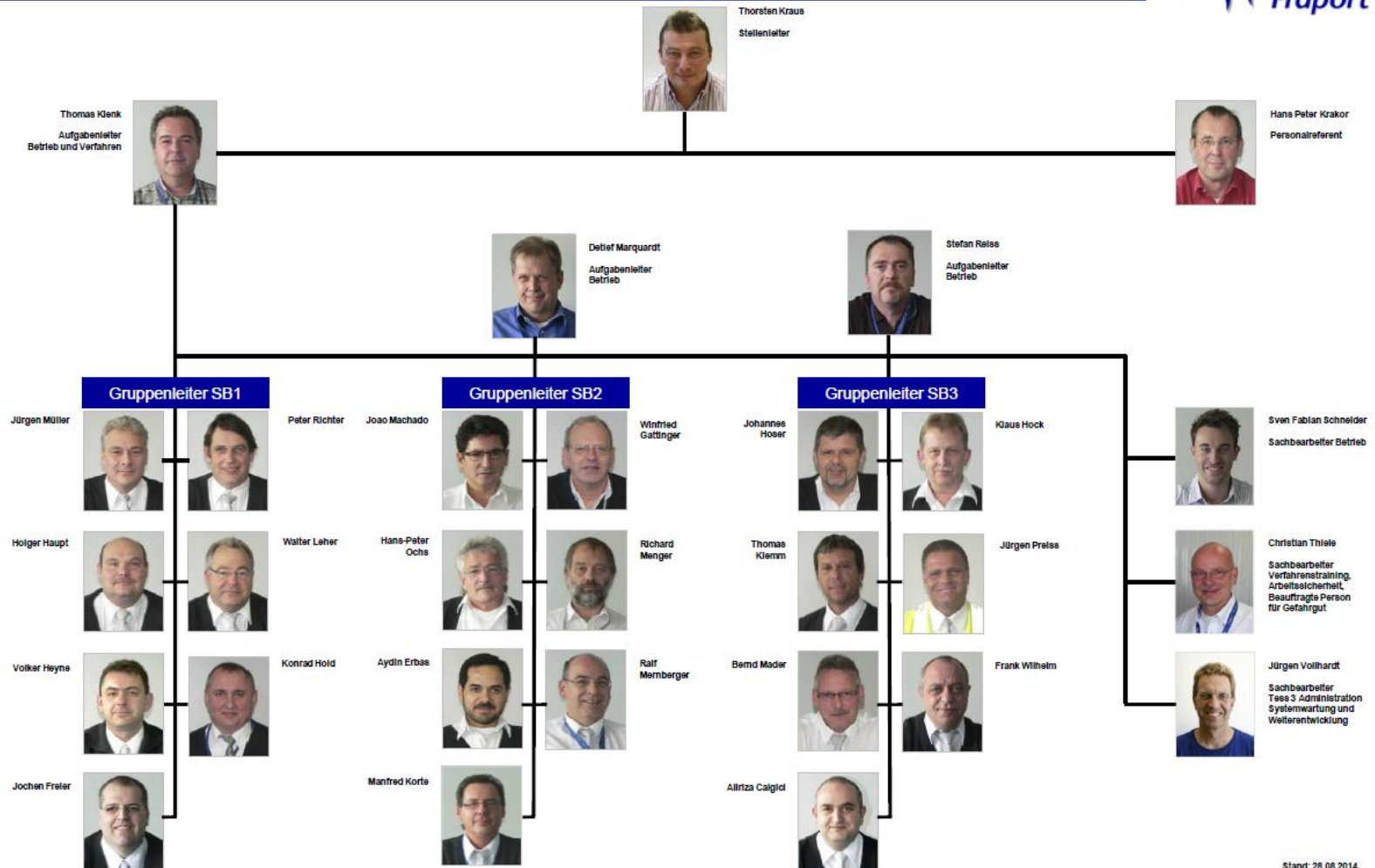
### **Operations**

<b>Permanent staff in total:</b>	<b>433</b>
<b>Incl. administrative staff:</b>	<b>21</b>
<b>Plus third-party staff:</b>	<b>ca.150</b>
<b>Freight trucks:</b>	<b>160</b>
<b>Special equipment for live-animal-shipments:</b>	<b>23</b>
<b>Transport units</b>	<b>ca. 9000</b>

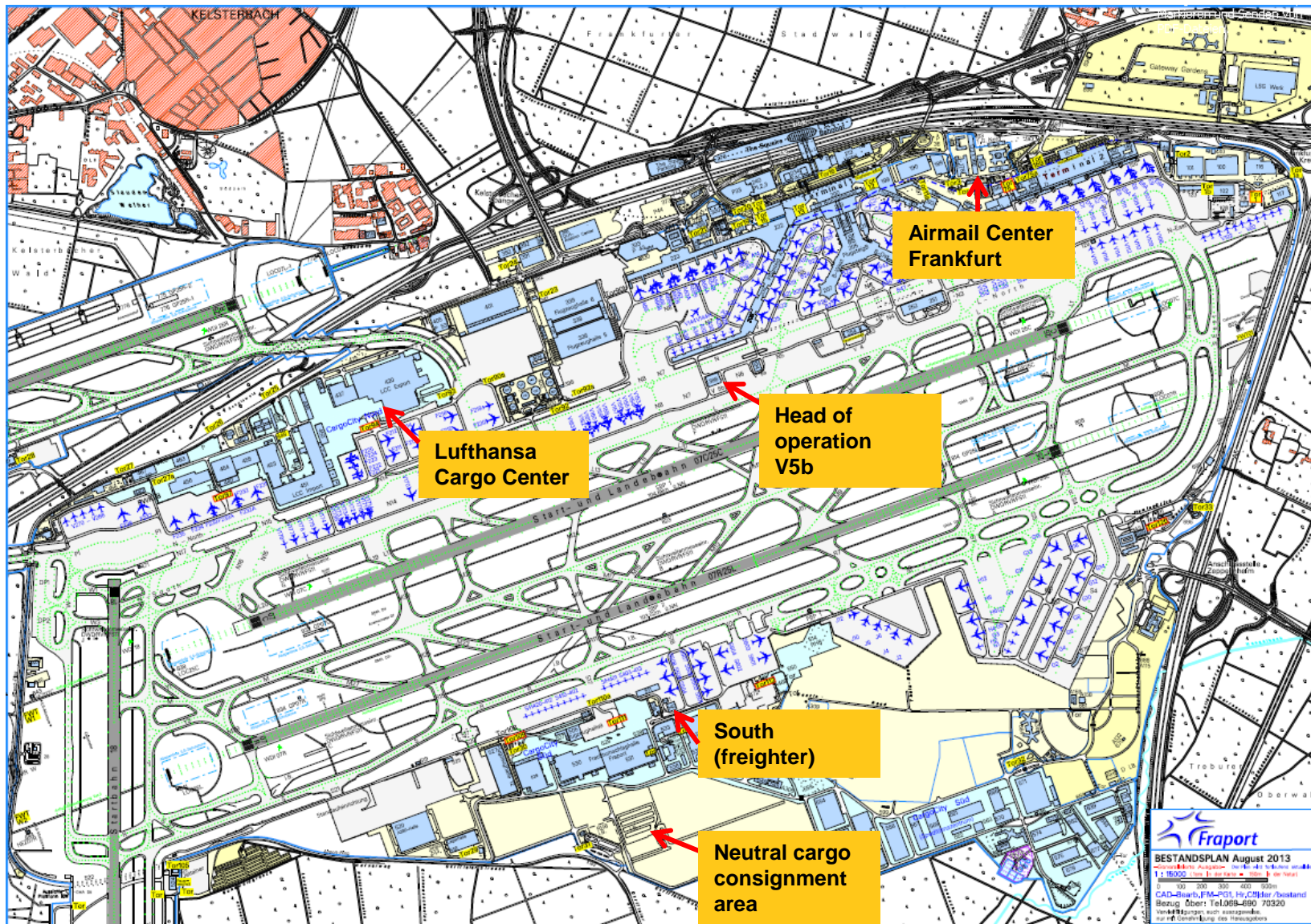
**(Date: 01/04/2014)**

# Structure of BVD-TR1

## Ground Handling Services BVD-TR1



# Offices BVD-TR1





# **BVD-TR1**

## **Facts and Figures**

- **ca. 9.000 orders per day**
- **ca. 3.000 transports per day**
- **ca. 6.700 units per day**
  - **ca. 3.500 export**
  - **ca. 3.200 import**

### **Special feature:**

- **ca. 300 FAST- export units per day**
- **ca. 160 FAST- import units per day**

**(Status: Feb. 2013)**

# ***BVD-TR1***

## ***Portfolio of transport products***

- **General Cargo**
- **Dangerous Goods (SprengG, RRY etc.)**
- **Airmail**
- **Courier**
- **FAST (time critical goods)**
- **Documentation**
- **Live animal shipments**
- **Heavy and oversized goods**
- **Sensitive goods**
- **High valuable goods**





# Customer requirements

## Cargo & Mail transport according customer requirements!!!

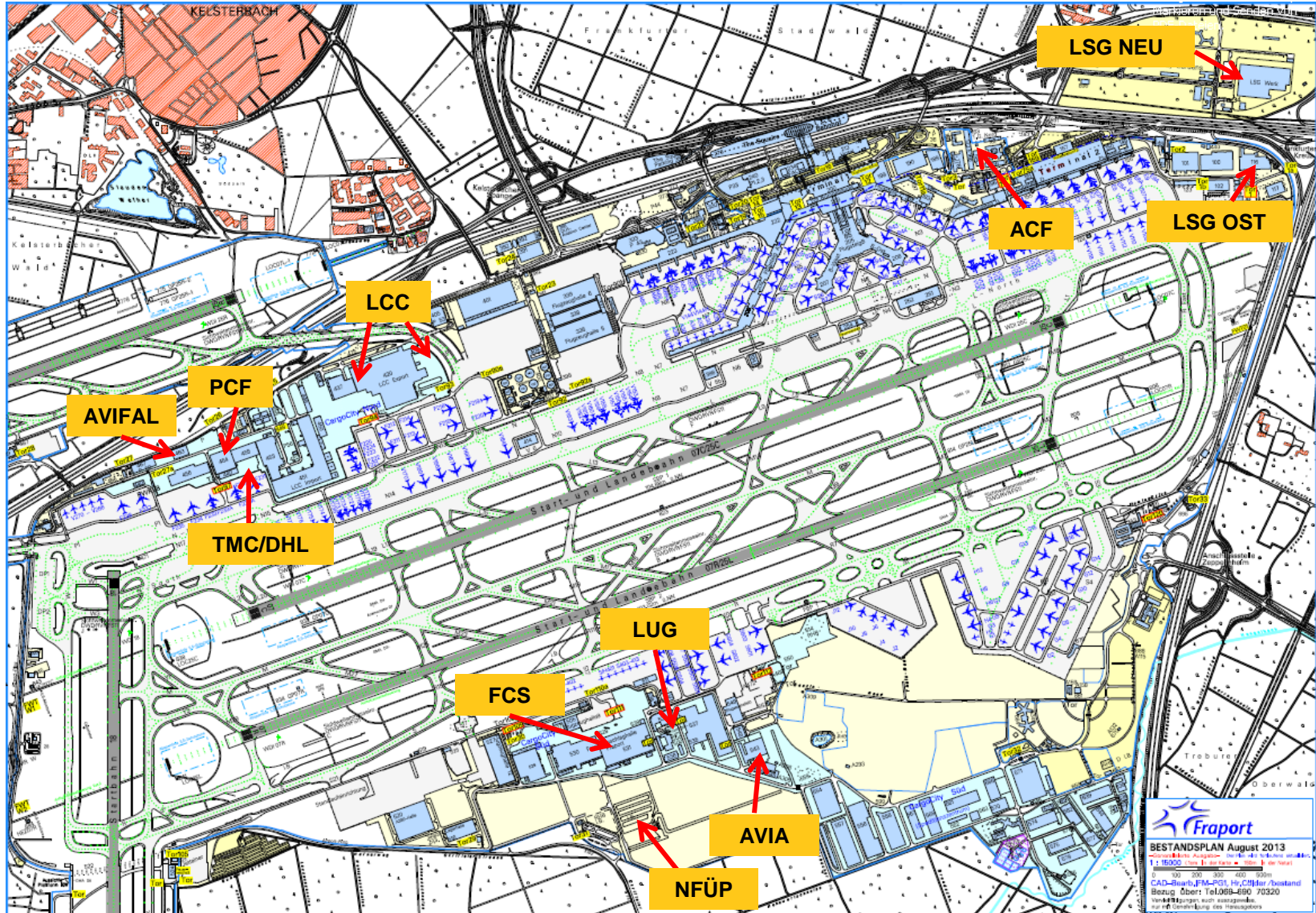
### Depending on:

- Kind of cargo
- Value of cargo
- Turnaround time



**BVD – TR 1 considers the wishes of their customers and offers customised time of delivery.**

# Operational area and special facilities



## Definition of cargo transport products

### Standard

- Non-time-critical cargo
- Standard-dimensioned cargo



**The warehouse saves money and space due to our punctual inbound and outbound delivery process.**



# BVD-TR1

## *Definition of cargo transport products*

### FAST

- Time critical
- Express products
- Courier products



**The most important thing: punctuality!!!**

# ***BVD-TR1***

## ***definition of cargo transport products***

### **Premium**

- Perishable cargo
- Valuable cargo
- Live-animal-shipments
- Dangerous Goods
- Airmail

**Cargo transport is adapting to the requirements of products.**



## *definition of cargo transport products*

### Special transports:

- Transit
- Road Feeder Systems
- Crosstransport between warehouses
- Transport of pool units from North to South
- Offload
- Transport of Documentation
- Transport of heavy and oversized cargo

**For each challenge we find an individual solution  
to serve our customer needs.**

# ***BVD-TR1***

## ***necessary inputs in advance...***

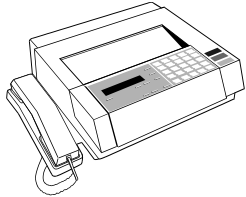
### **...to deliver cargo on time:**

- Inbound punctuality of aircraft
- Availability of loading data
- Detailed loading data
- Detailed product information
- Advise of Close to door position for FAST-units
- In-time notification about products if „FAST“ or „General Cargo“

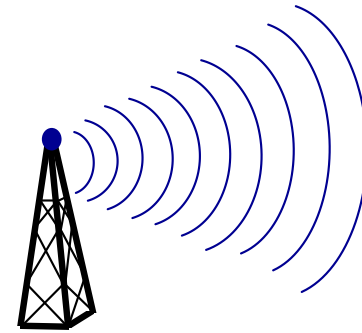


**Advanced inputs are the basis for  
high quality performance!**

# Overview of operational process



Ordering units via FAX or other systems like: Handlingsportal, FRA-SVS



Sending instruction to driver via Wireless LAN

```

IERS S.W-A - Station 1/11: SL * Opt(0) / 2      13.01.06 07:16
DC Post Doku Pass Rep Hand Sipa 3
F-No Pa- Zeit St TP SI Flug-No          A-No Zeit REG TYP Gate
              |   |   |
02407 0130L 13 02 TP F2                    3222 0835 BABIV B735 0G-C81
02491 ICC    8 02 TP F2 0LM1162             0835 08 LCC130 1 KFM 082
02508 LCC    5 02 TP F2                    0245 0810 DAIFF 0208 026 024
02581 LCC15X  5 02 TP F2                    3222 0835 29 LCC130 4 KFM 024
02597 B41    5 02 TP F2 0LM4212             0245 FERIT
02603 B10    7 02 TP F2                    2440 0925 DAIFF 0220 024
02472 B11    02 02 TP F2                    2440 0925 DABOJ B733 017 017
02599 L2     5 02 TP F2 0LM4530             2414 0835 29 LCC130 1 KFM 017
02530 L3000C  5 02 TP F2                    2370 0835 08 WFS002 1 LEER 017
02538 B315  5 02 TP F2 0DS5888
02596 B13    8 02 TP F2                    1800 CCFAP 0333 041
02575 B40    13 02 TP F2                    >2764 100 SELAC 3 KFM 041
02576 B06    02 02 TP F2                    2368 0935 DAIFF 0321 012
02574 B08    05 02 TP F2                    0245 0835 29 LCC130 1 KFM 012
02480 B104   06 02 TP F2                    1677 0935 DAIFF 0208 026 024
02402 B13    11 02 TP F2 0LM1002           >1972 0935 DABEC B733 0G-B32
02417 L1300A  0 TP F1                       1972 0935 29 LCC130 2 KFM 012
02418 LCC    0 TP F1 0LM176                 0940 DAIFF 0327 026 024
02475 B32    0 TP F2 0LM3442                >2035 0835 29 LCC080 2 KFM 023
02408 LCC155  0 TP F1                       0245 0835 29 LCC130 1 KFM 023
02414 LCC135  0 TP F1                       0835 08 LCC06 4 KFM 025
02472 L1306A -7 02 TP F1 0LM3244            1982 08 LCC06 3 KFM 020
02423 LUC18  0 02 TP F1
02419 B12    -2 02 TP F1 0LM440
02453 B13    0 02 TP F1
02419 PCV    10 02 TP F1
  
```

Order generation in disposition system



Cargo & Mail transport services from position to warehouse and vice versa

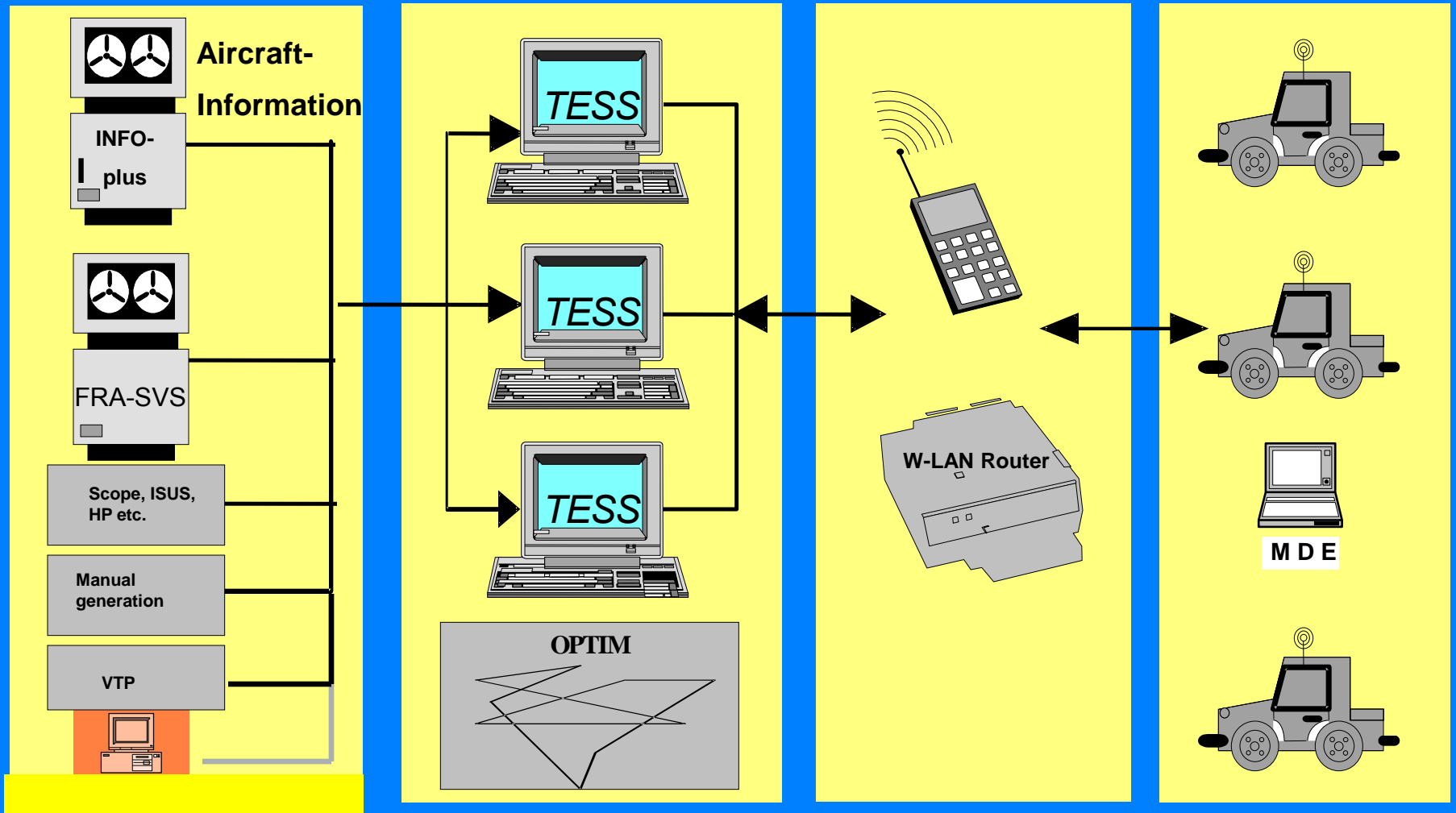
# Transportation operation control system -TESS 3

order generation

disposition

communication  
between  
dispatcher and driver

transmission to  
driver



# Part 3

## ULD- Transport and ULD-Handling





## **ULD-Transport**

*In the main Fraport has two streams of ULD-transportation/ULD-handling at the place..*

*The mail and cargo transportation (BVD-TR1) - and the baggage transportation department (BVD-TR2).*

- *BVD-TR1 carries and delivers approx. 1.286.324 Mail and Cargo ULD´s a year (in-/outbound)*
- *BVD-TR 2 carries and delivers approx. 1.407.600 Bag-ULD´s a year (in-/outbound)*
- *All ULD-sizes: LD2 – 10ft, from P6P - Trailer*
- *Greatest customer of both departments: Lufthansa/Lufthansa Cargo*
- *Percentage LH/LCAG vs. OAL´s: round about 60%*
- *Storage amount empty LH-ULD´s: 535 per day*
- *Storage amount empty OAL-ULDs: 720 per day*

# Standards for ULD-Handling

All standards and procedures for ULD-Handling in FRA are written down and ISO and ISAGO certified.

ULD-Handling is part of the „Ground Services Education Concept“ for all employees.

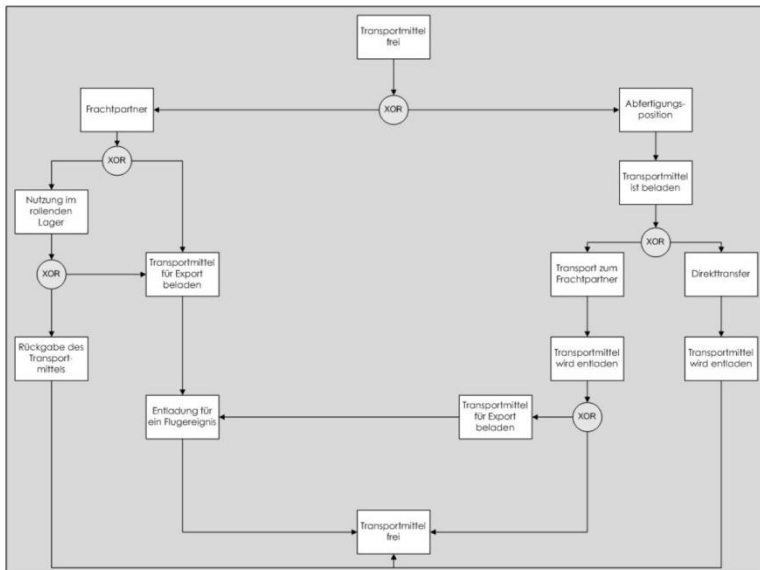
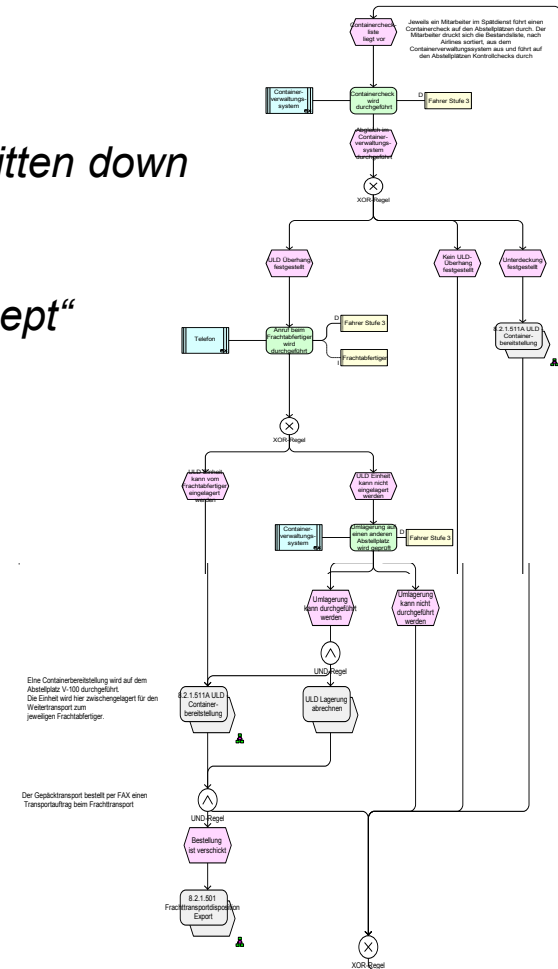


Abb. 19: Regelkreislauf der Transportmittel des Frachttransports (eigene Darstellung)



Eine Containerbestellung wird auf dem Absatzplatz V100 durchgeführt. Die Einheit wird hier zwischengelagert für den Weitertransport zum jeweiligen Frachtpartnere.


Der Gepäcktransport bestellt per FAX einen Transportauftrag beim Frachttransport

# Quality Control

All stored ULD's will be covered in a special IT-system, named FRALCV (emptycont. Managent Sys.) formerly CIS (cargo infomation system).

BVD-TR2 is the responsible department to implement empty ULD's into this system.

Therefore it is always comprehensible where an empty container is currently stored.

**Lagerbestand** 

Donnerstag, 04.09.14 14:24:19

ULD-Einlagen | Lagerbestand | Lagerabrechnung

Lager:  Verfügbar:  ULD:

Verfögb.	ULD-Typ	ULD-Nummer	ULD-LVG	Lager	Stellplatz	Defekt	Bemerkung	Anlieferer
<input type="checkbox"/>	DL	DPL	51755	DL	V4	ABR		
<input type="checkbox"/>	UA	AKE	02024	UA	V4	ABR		
<input type="checkbox"/>	OU	AKH	61262	OU	V1	ABR		ZH234
<input type="checkbox"/>	OU	AKH	61313	OU	V1	ABR		
<input type="checkbox"/>	CA	AKE	26073	CA	V3	ABR		
<input type="checkbox"/>	CA	AKE	27094	CA	V2	ABR		184
<input type="checkbox"/>	FG	AKE	0002	FG	V4	ABR		
<input type="checkbox"/>	FG	AKE	0011	FG	V4	ABR		
<input type="checkbox"/>	FG	AKE	0712	FG	V4	ABR		
<input type="checkbox"/>	SP	AKH	2030	SP	V4	ABR		
<input type="checkbox"/>	RIA	DPE	0386	JN	V6	KFC		
<input type="checkbox"/>	SEU	AKE	0047	SEU	V3	ABR	AB	
<input type="checkbox"/>	JG	AKE	47709	JG	V3	ABR		
<input type="checkbox"/>	MPH	AKE	30197	MP	V3	ABR		
<input type="checkbox"/>	FG	AKE	7009	FG	V4	ABR		
<input type="checkbox"/>	UA	AKE	38296	CO	V2	ABR		
<input type="checkbox"/>	WY	AKE	6114	WY	V3	ABR		
<input type="checkbox"/>	AEU	AKH	0013	AEU	V3	ABR		
<input type="checkbox"/>	DE	DQF	80200	DE	V2	KPA	loch am dach plane gerissen	
<input type="checkbox"/>	DE	DQF	80426	DE	V2	KGCL		
<input type="checkbox"/>	ME	AKH	20663	ME	V1	ABR		
<input type="checkbox"/>	US	AKE	11193	US	V4	ABR		
<input type="checkbox"/>	OZ	AKE	24140	OZ	V1	ABR		
<input type="checkbox"/>	DE	DQF	80151	DE	V2	KPA	defekt	282
<input type="checkbox"/>	SA	AKE	02154	SA	V1	ABR		
<input type="checkbox"/>	EY	AKE	23690	EY	V4	ABR		
<input type="checkbox"/>	OZ	AKE	23770	OZ	V3	ABR		
<input type="checkbox"/>	AI	AKE	09543	AI	V1	ABR		
<input type="checkbox"/>	DE	DQF	80121	DE	V2	KPA		
<input type="checkbox"/>	DE	DQF	1518	DE	V2	KPA	plane gerissen	
<input type="checkbox"/>	SA	AKE	00200	SA	V1	ABR		KZ184
<input type="checkbox"/>	US	AKE	11055	US	V4	ABR		
<input type="checkbox"/>	US	AKE	11404	US	V4	ABR		zh 309

Attn exception.: ULD's which were delivered to the cargo/mail Warehouses (e.g. LCAG, LUG) get no LVS-input . After the hand over to the equal Warehouse, the cargo handler is in the responsibility of the ULD-handling.

*Thank you for your attention!*



**8.2.5.622**

