



CCS HUNGARY BACH

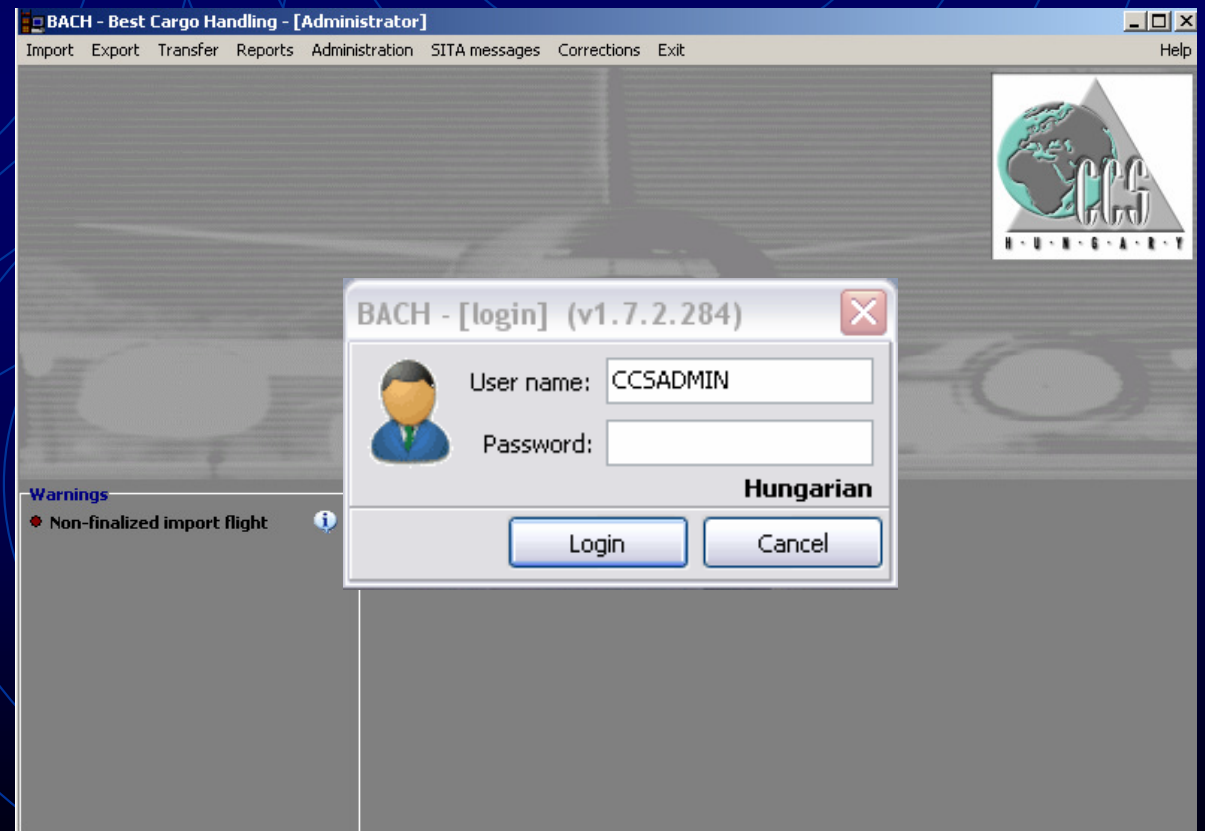
**Best Airport Cargo Handling
System**

Introduction

BACH (*Best Airport Cargo Handling*) **System** is a revolutionary design and we hope you will find the system as good as it deserves to use the "*Best*" in its name.

Supports and satisfy the requirements of the latest trends and standards like:

- ISO/TQM
- Barcode/RFID
- Electronic archiving
- Paperless cargo
- SITA via Internet
- Client server architecture
- PC / Windows based





BACH main menu

The BACH (Best Airport Cargo Handling) System is designed to control export, import and transit air cargo shipments

Optional Flight Schedule Manager & Freight Reservations modules

Capable of multi-language working

Can be easily interpret any kind of language without program modification

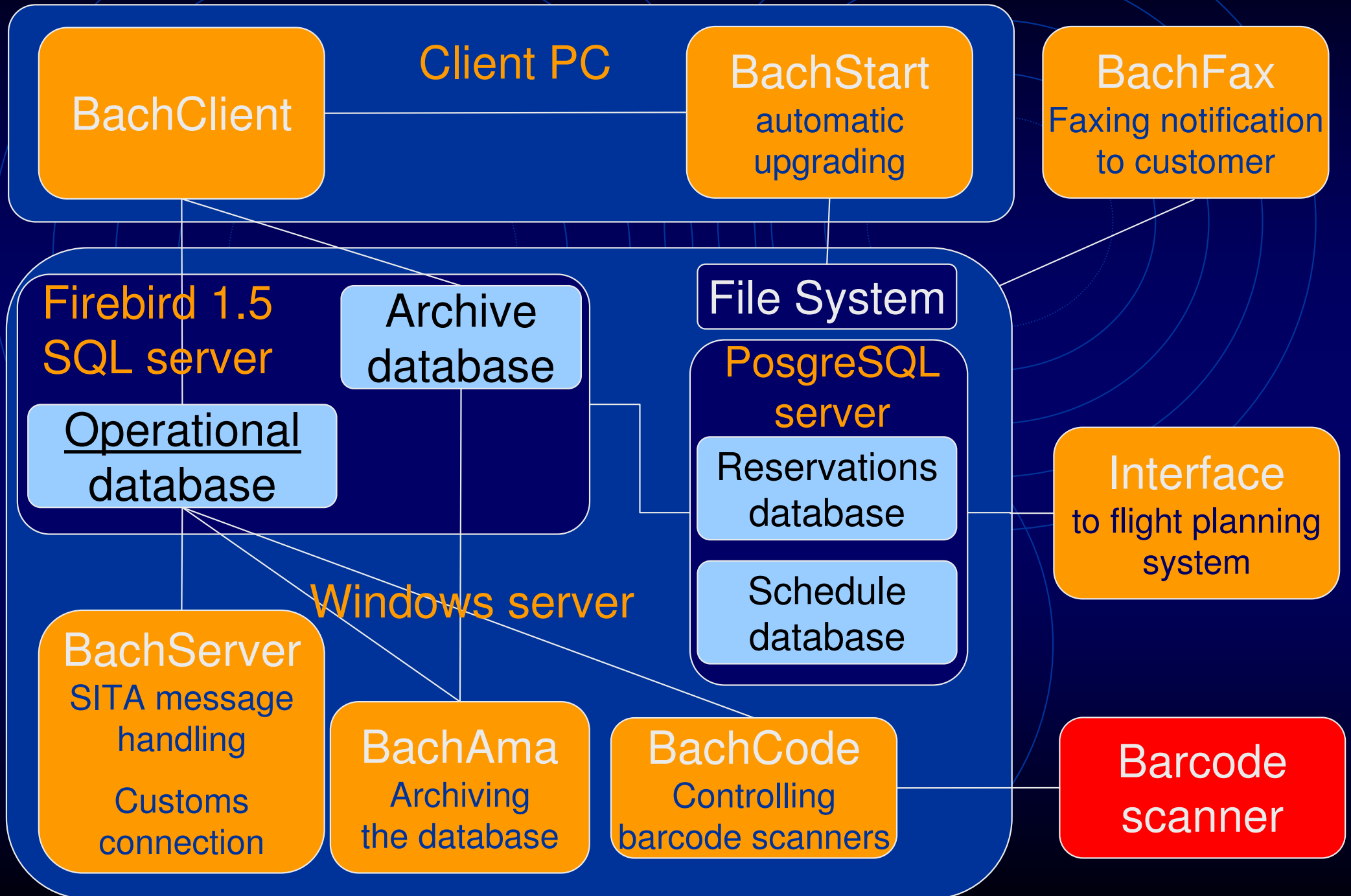
Warnings

• Standard messages with error	14
• Missing notifications	1
• Unsuccessful notifications	1
• Non-finalized import flight	
• Non-finalized export flight	
• Awb stock CRITICAL	1

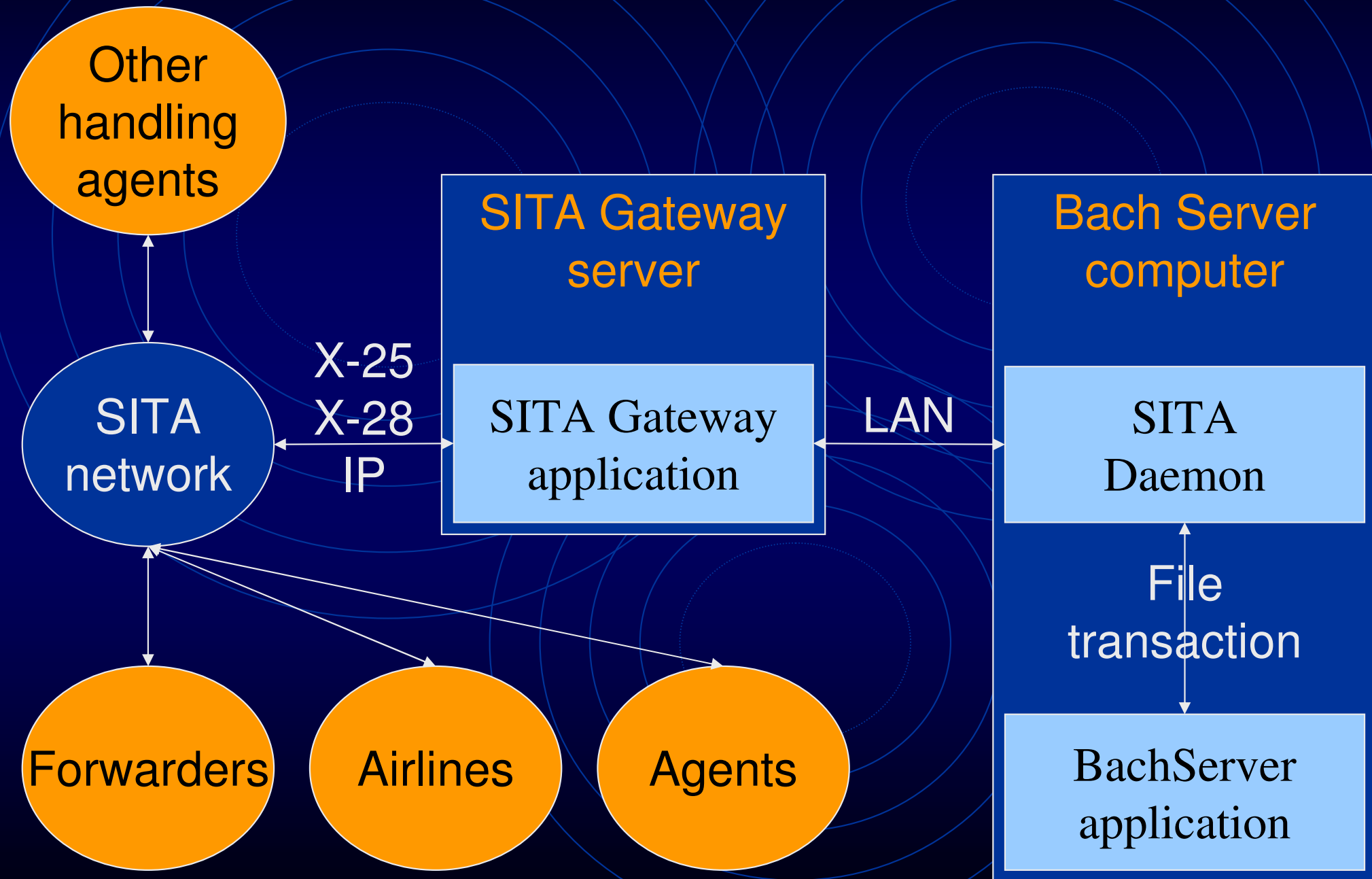
- Warnings can be found in the lower-left corner of the window for users and supervisors also showing failures and delays during the process giving exact, understandable information about the problem

- System responses contain clear instructions for problem-solving. BACH is controlling and training in the same time the handling staff.

System architecture



Communication via SITA



Airline Flight Schedule module I.

Schedules						
Search: <input type="text"/>						
Flight num.	Begin of V	End of V	Op. Days	Origin	Destination	Aircraft
BA001	19FEB07	19FEB08	1234567	BUD -	LON -	14Z-British Aerospace 146-300 Freighter
MA110	19FEB07	19FEB08	1234567	BUD -	IEV -	141-British Aerospace 146-100 Passen...
MA121	12JAN07	20MAY07	__45__	BUD -	FRA -	EM2-Embraer 120 Brasilia
MA414	19FEB07	19FEB08	1234567	BUD -	MXP -	14Y-British Aerospace 146-200 Freighter
MA444	12FEB07	12FEB08	1234567	AAM -	BUD - LHBP	319-Airbus Industrie A319
MA520	19FEB07	19FEB08	1234567	BUD -	FRA -	14Z-British Aerospace 146-300 Freighter
MA523	16FEB07	14MAR08	1234567	FRA -	BUD -	142-British Aerospace 146-200 Passen...
MA525	23FEB07	23FEB08	1234567	FRA -	BUD -	14Y-British Aerospace 146-200 Freighter
MA527	23FEB07	23FEB08	1234567	FRA -	BUD -	14X-British Aerospace 146-100 Freighter
MA600	19FEB07	19FEB08	1234567	BUD -	BRU -	318-Airbus Industrie A318
MA610	19FEB07	19FEB08	1234567	BUD -	LON -	14Y-British Aerospace 146-200 Freighter
MA7777A	27APR07	31MAY07	1_34_67	FRA -	KRK -	RFS-Truck-Surface Equipment (Road ...
MA998	22FEB07	22FEB08	1234567	BUD -	FRA -	313-Airbus Industrie A310-300 Passen...
MA999	22FEB07	22FEB08	1234567	FRA -	BUD -	313-Airbus Industrie A310-300 Passen...
	23FEB07	23FEB08	1234567	FRA -	BUD -	313-Airbus Industrie A310-300 Passen...
	26APR07	27APR07	__45__	FRA -	BUD -	313-Airbus Industrie A310-300 Passen...
TT001	04APR07	30APR07	1_3_5_7	BUD -	VIE -	SSC-Aerospatale/British Aerospace Co...

Airline Flight Schedule module II.

The screenshot shows a 'Timetable' window with the following details:

- Flight:** MA 7777A
- Beginning of validation:** 27APR07
- End of validation:** 2007.05.31
- Type of flight:** Passenger, Freighter, Truck, Charter
- IATA:** RFS
- ICAO:** 0
- Aircraft:** TRUCK-SURFACE EQUIPMENT (ROAD FEEDER SERVICE)


Airport	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
FRA FRANKFURT - INTERNATIONAL	Dep: 14:00		15:00	16:00		17:00	14:00
BUD Budapest - Ferihegy	Arr: +1 08:00		+1 09:00	+1 10:00		+1 11:00	+1 08:00
	Dep: 12:00		13:30	14:00		15:00	12:00
KRK J. Paul II Balice Intl	Arr: +2 01:00		+2 02:30	+2 03:00		+2 04:00	+2 01:00

Navigation: 116/82, New, Modify, Exit

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- Any kind of flight-number (including non-IATA standard)
- Day change flights without day limitations
- Special flights (e.g. trucks, cargo only, offline, circle...)




Aircraft types, and codes

 Aircraft Types _ □ ×

Search :

IATA	ICAO	Group	Category	Aircraft Name/Model
A22	AN22	A22	4T	Antonov An-22
A26	AN26	AN6	2T	Antonov An-26
A28	AN28	A28	2T	Antonov An-28/PZL Mielec M-28 Skytruck
A30	AN30	AN6	2T	Antonov An-30
A32	AN32	AN6	2T	Antonov An-32
A38	AN38	A38	2T	Antonov An-38
A40	A140	A40	2T	Antonov An-140

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 New type  Modify  Close

Aircraft limitations, warnings

Aircraft limitations
_ □ ×

Car	A/C	M.Weight	M.Vol	FFR(%)	Over(%)	Supplementary info
MA	733	500	1	100	100	Embargo for dogs,Max ICE 400 kg
MA	736	100	10	100	120	HEA max 500kg
MA	744	1000	10	50	120	Doorsize 1400x1200
MA	EM2	1	1	100	100	Embargo for AVI except chicken
MA	RF5	1000	100	100	100	
MA	SSC	100	100	100	100	
▶ MA	YK4	100	10	50	120	VAL only after supervisor confirmation,Embargo for pets,ICE max 100 kg
TT	75W	1000	1000	1	1	CAO max 500 kg
TT	AN4	1	1	1	1	
TT	DH3	10	1	100	100	HUM only in urn, no coffin

Carrier: Malev Hungarian Airlines Limited

Aircraft: Yakovlev Yak-40

	FFR	Operator
Maximal weight capacity:	<input type="text" value="100"/>	<input type="text" value="50"/> <input type="text" value="120"/> Kg
Maximal volume capacity:	<input type="text" value="10"/>	<input type="text" value="5"/> <input type="text" value="12"/> m3
Maximal FFR capacity:	<input type="text" value="50"/> %	
Overbooking rate:	<input type="text" value="120"/> %	

Special handling Shipments

AVI

WET

New Del

Supplementar VAL only after supervisor confirmation
Embargo for pets
ICE max 100 kg

New	Modify	Del	Save	Cancel	Exit
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Route/Flight limitations, warnings

Route/Destination limitations

Car	Flight	Route	Start	End	M.Weight	M.Vol	FFR(%)	Over(%)	Supplementary info
MA		BAB - BEA			1	1	100	100	
MA	401	BUD - VIE	2006.11.01.	2006.11.02.	20	1	70	120	
MA		BUD - FRA			500	100	100	100	
MA	444	AAM - BUD	2007.02.12.	2008.02.14.	100	100	100	100	
MA		BUD - FRA	2006.09.11.	2006.09.30.	10	20	100	100	Only horses
MA		AAM - BUD	2007.02.19.	2007.02.22.	0	0	100	100	
MA		BUD - BRU	2007.02.20.	2007.02.22.	100	10	100	100	
MA		BUD - LGG			0	0	100	100	

Carrier: Flight number

MA 401

Malev Hungarian Airlines Limited

Origin: BUD Destination: VIE

Budapest - Ferihegy Wien - VIENNA International

Date of validation: 2006.11.01 15 2006.11.02 15

Supplementary info:

FFR Operator

Maximal weight capacity: Kg

Maximal volume capacity: m3

Maximal FFR capacity: %

Overbook rate: %

Special handling shipments:

AVI

LHO

New Del

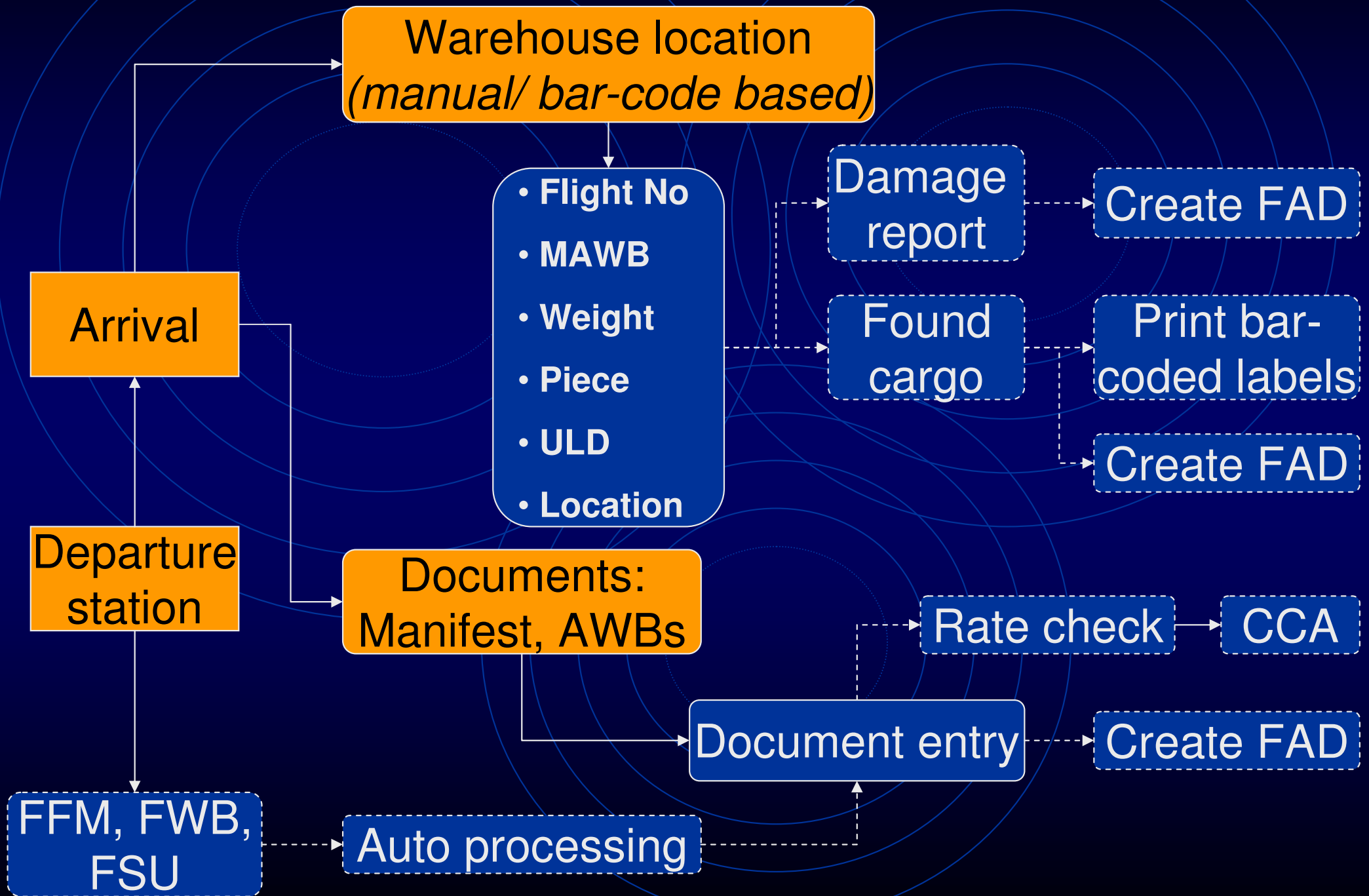
New
 Modify
 Del

Save
 Cancel

Exit

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Incoming cargo



Freight acceptance to warehouse

Freight acceptance to the warehouse

Flight data
Flight number: Flight date:

Shipment locations

MAWB number	Meas.wgt	Total pcs	No. of pcs	Location	FFM
405-00000000	10,0	10	10	A12	
405-00000011	5,0	5	5	A12	

Express or urgent shipment requests arrived for this flight!

ULDs arrived

ULD number

Arrival document entry

Document arrival of a flight

Partshipmens Modify locations FAD messages

AWB number: 405-00000022 Enter

Arrival flight: AF 1694 Arr. date & time of docs: 01OCT05 1300 Modify
Scheduled time of arrival: 01OCT05 1200 Actual time of arrival: 01OCT05 1200

Origin: CDG Total no. of pcs: 20 Total weight: 20
Station: AF 1694 01OCT05 Special handling codes: EXP
Routing: BUD Desc. of goods: PART
CC fee: 400000 Currency code: HUF
Payment mode: bank transfer Delivery restricted:
 Delivery to door Cust. origin code: C Service shipment:

Shipper G COSIMANO **Consignee** ÁRVÍZ ÉS BELVÍZVÉDELMI KÖZPONTI SZERV.
City: STERLING City: BUDAPEST
Address: 113 EXECUTIVE DR. Address: ARANY JÁNOS U 25
Cust. ID: 3248 New entry Cust. ID: 8826 New entry

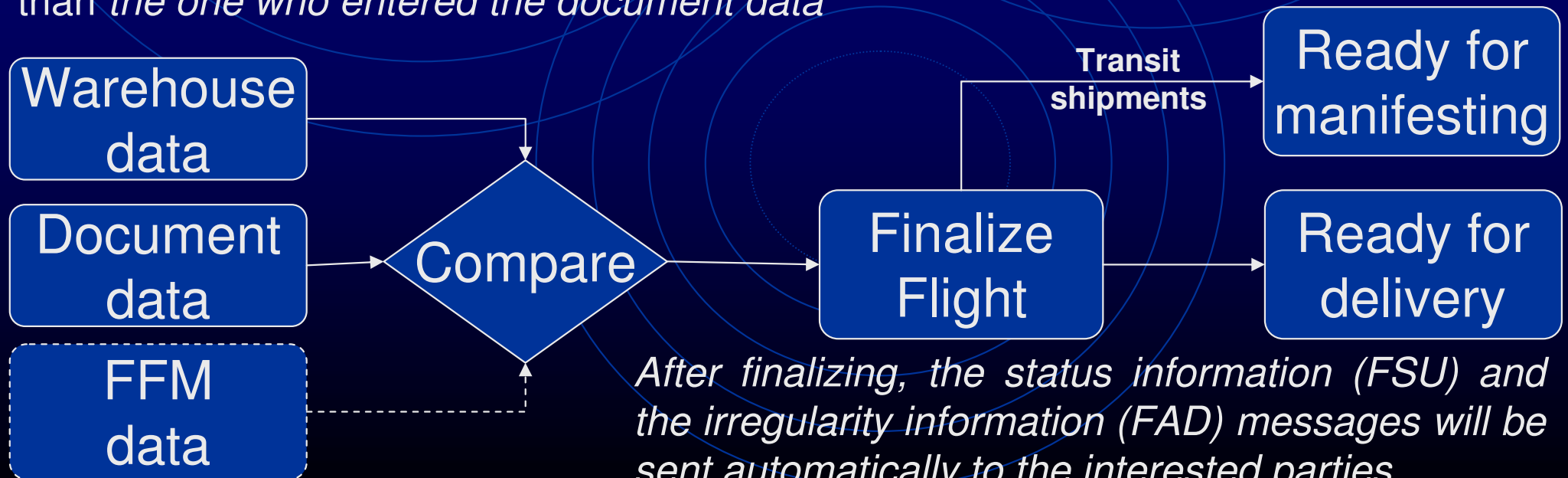
Also notify A AND A KERESKEDELMI KFT **Forwarder** JAS CARGOWAYS KFT MAGYARO.
Contact: 340-1753 FAX Delete City: BUDAPEST
Address: IGLÓ U. BFNRÜ CARGO BÁZIS
Cust. ID: 129 Delete forwarder

Remarks:

Store & Next Store Cancel

Finalize arrival flight

- This action is the most important step of the import process flow that is why its use needs great care
- This is the time for second check and supervision - finalizing a flight it is declared that all information of the actual flight are entered wholly & correctly
- Close a flight only when it is absolutely sure that all of the consignment records are clear, the warehouse and document data differences are real for sure, the consignees were chosen correctly etc.
- The best is if the *senior, highest educated supervisor* does it
- It is strongly recommended that a *different person close* the flight than *the one who entered the document data*



After finalizing, the status information (FSU) and the irregularity information (FAD) messages will be sent automatically to the interested parties.

Finalize the flight

Finalize flight [Close]

Document Shipment Excl./incl. cust.rep. Excl./incl. all Manual FAD

Shipments: AHU3615/09JUN06

MAWB number	Doc.	Loc/doc pcs	Loc/doc wgt	FFM	FAD	Cust.	Ready	Cgnee	Not.	State	Dm.	Exp.req.
406-00000022	rendben	9	9			C vsz.kóc		5 H KFT.	fax			
406-00000033	rendben	-10	-14			C vsz.kóc		SPEED SPED '03 KFT.	fax		D	
406-00000044	hiányz.	nincs okm.	nincs okm.			kizárva			SITA			
406-00000055	rendben	nincs lok	nincs lok			nincs lok		EURO-LINE AIR CARGO	SITA			
406-00000066	rendben	rendben	rendben			C vsz.kóc		EURO-LINE AIR CARGO	SITA			
406-98390714	rendben	rendben	rendben			kizárva		UPS CGN	phone			
FND-00000089	hiányz.	nincs okm.	nincs okm.			kizárva			SITA			
406-00000011	rendben	rendben	rendben			kizárva		PANNON AIR CARGO	SITA	Finalized		

ULDs arrived:

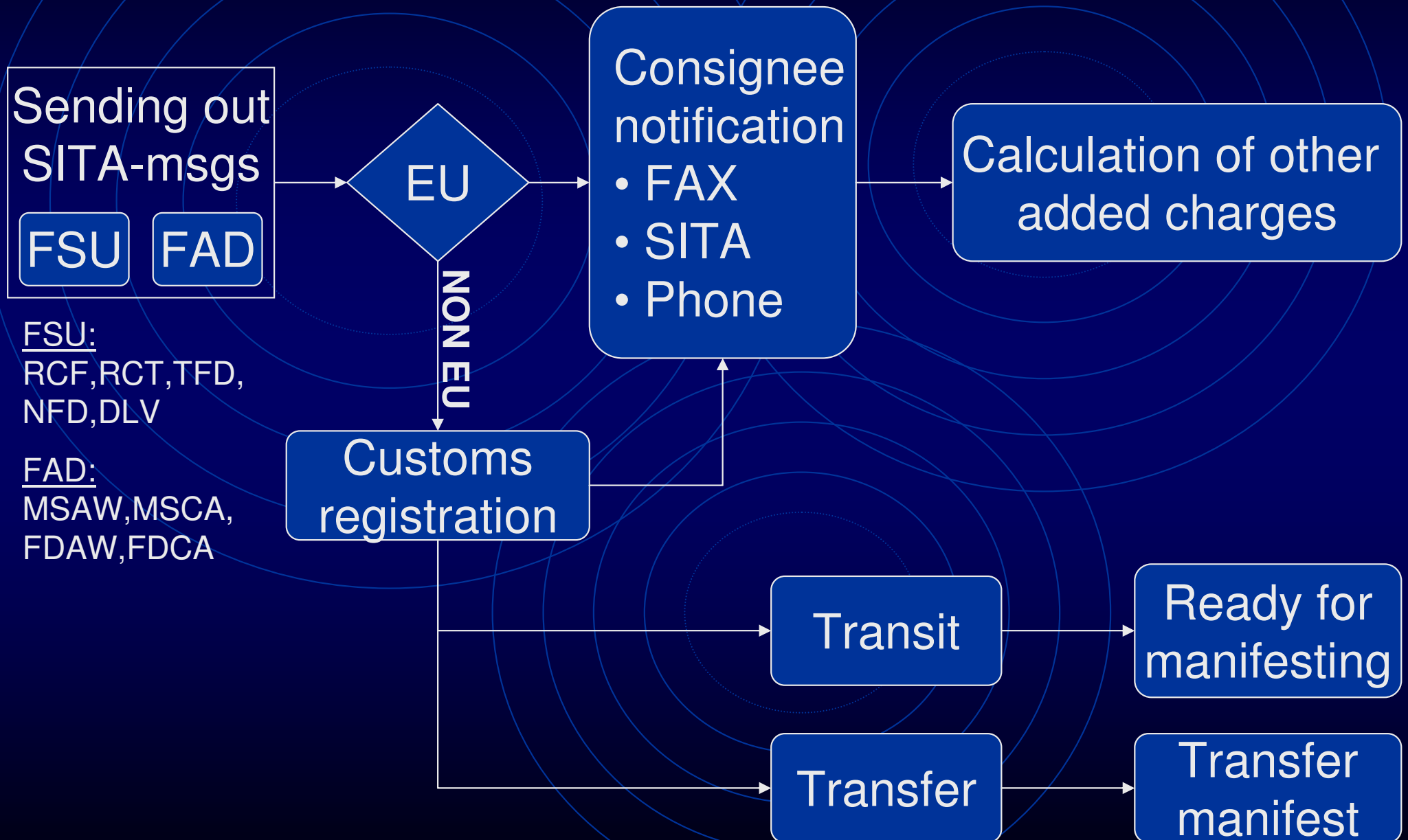
AAA 0002 MA				
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Shipments for customs registration: 0 shipments Total num. (pcs): 0 Total weight (kg): 0,0

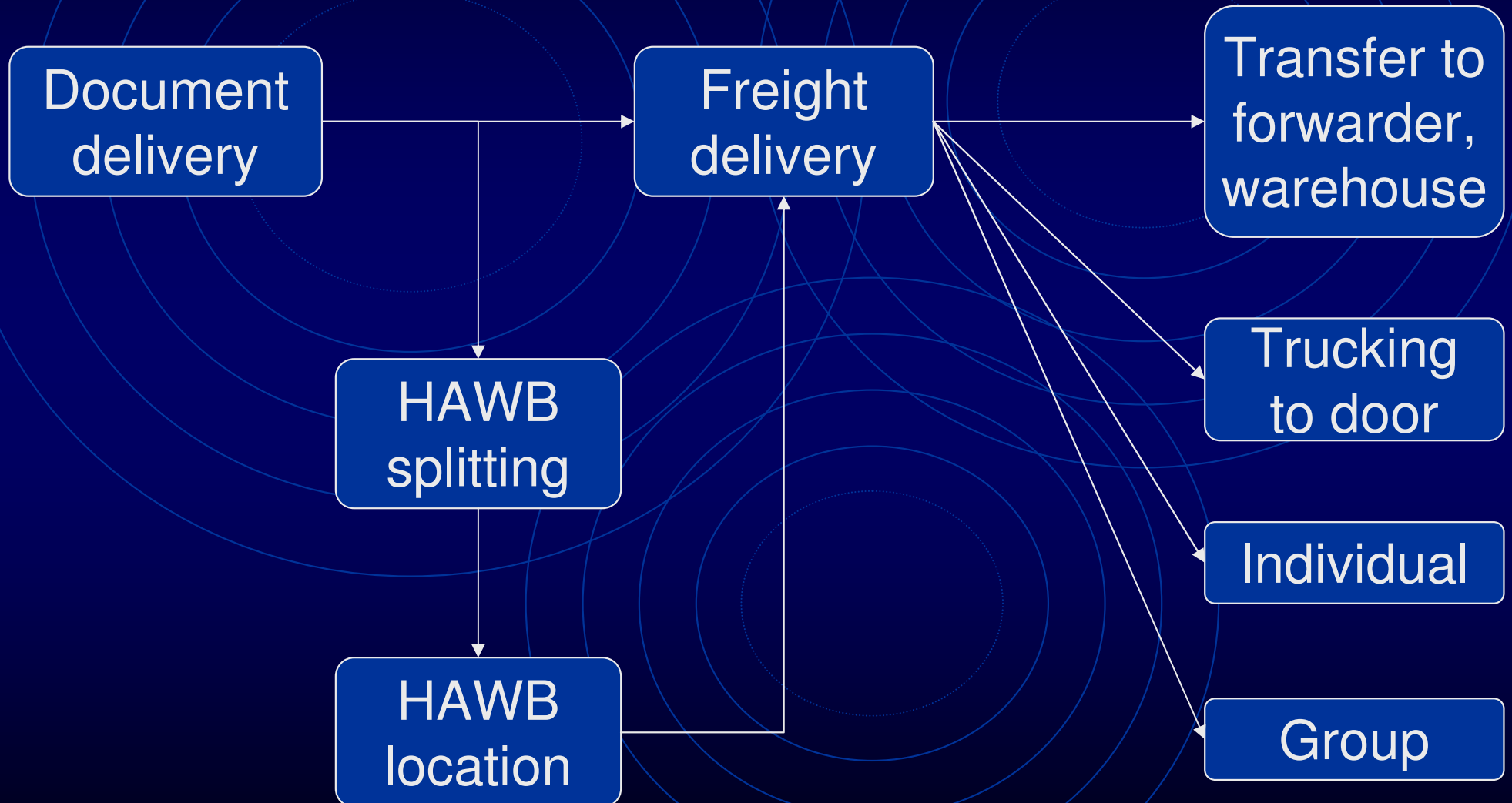
FAD can not be sent to the airline automatically

Finalize Cancel

Automatic process after flight close



Delivery procedure



Delivery

Delivery [Close]

AWB number: 999-00000022 SHC: **Remarks on AWB:**

Invoice number(s):

Consignee/Forwarder: SZÉKELYEK BT.

Remarks for delivery receipt:

Shipments:

Flight	Pcs	Act. weight	Cust.reg.number	Cust.release number
MA523/28FEB06	1	1	EU	

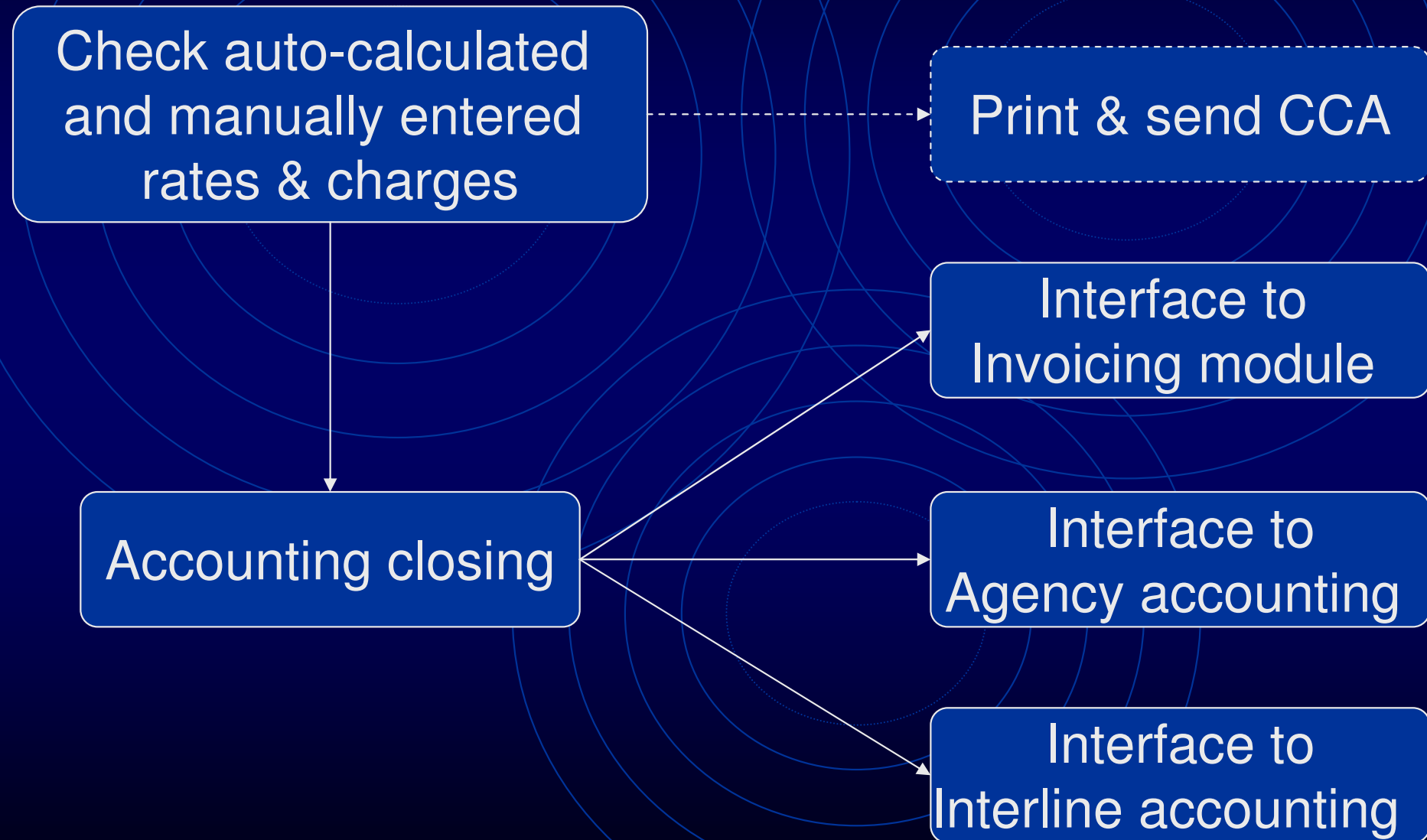
Customs release number:

Shipments actually delivered with locations:

Flight	Pcs	Location	Shipment status	Delivery	Pcs to dlvy
MA523/28FEB06	1	AMS	No cust.release no.	Undeliverabl	0

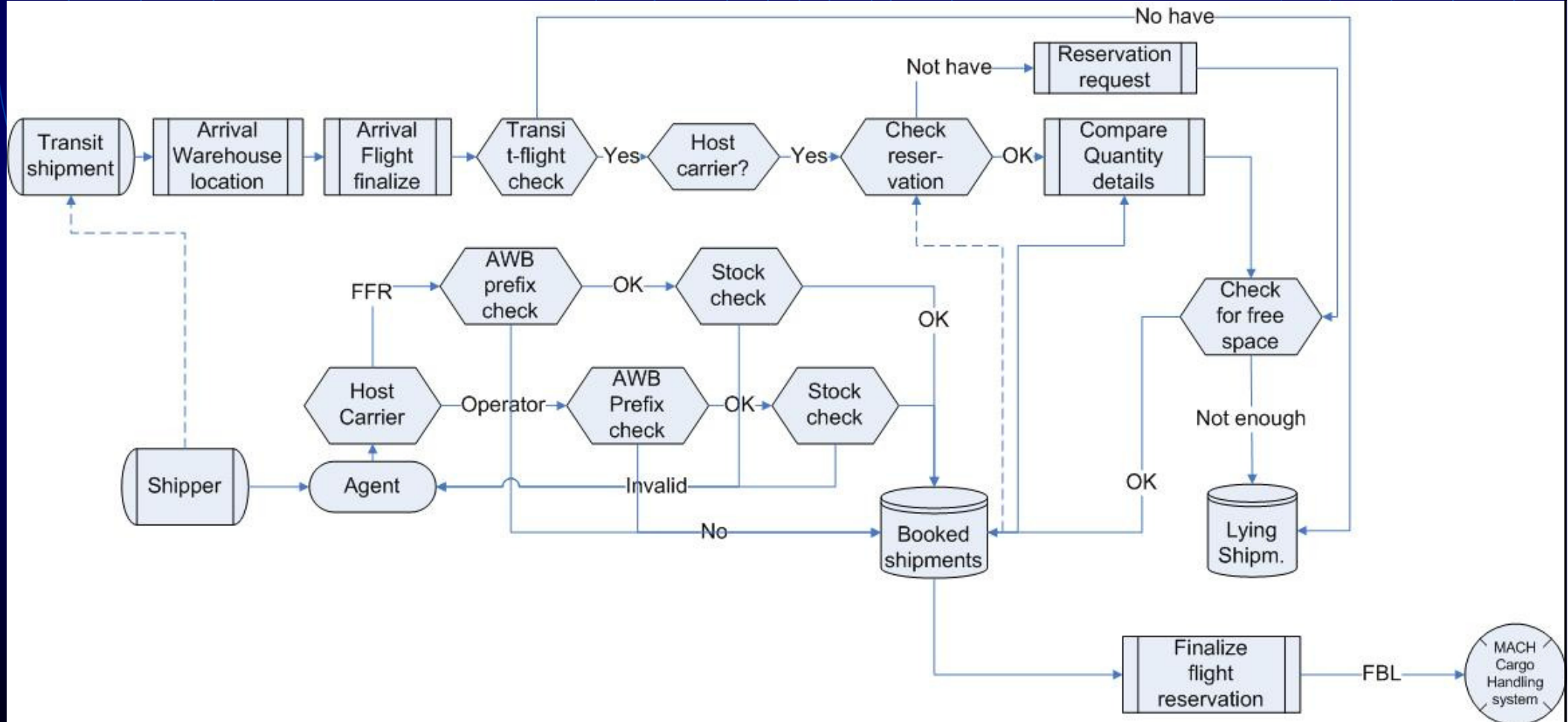
0 pcs to dlvy

Revenue accounting

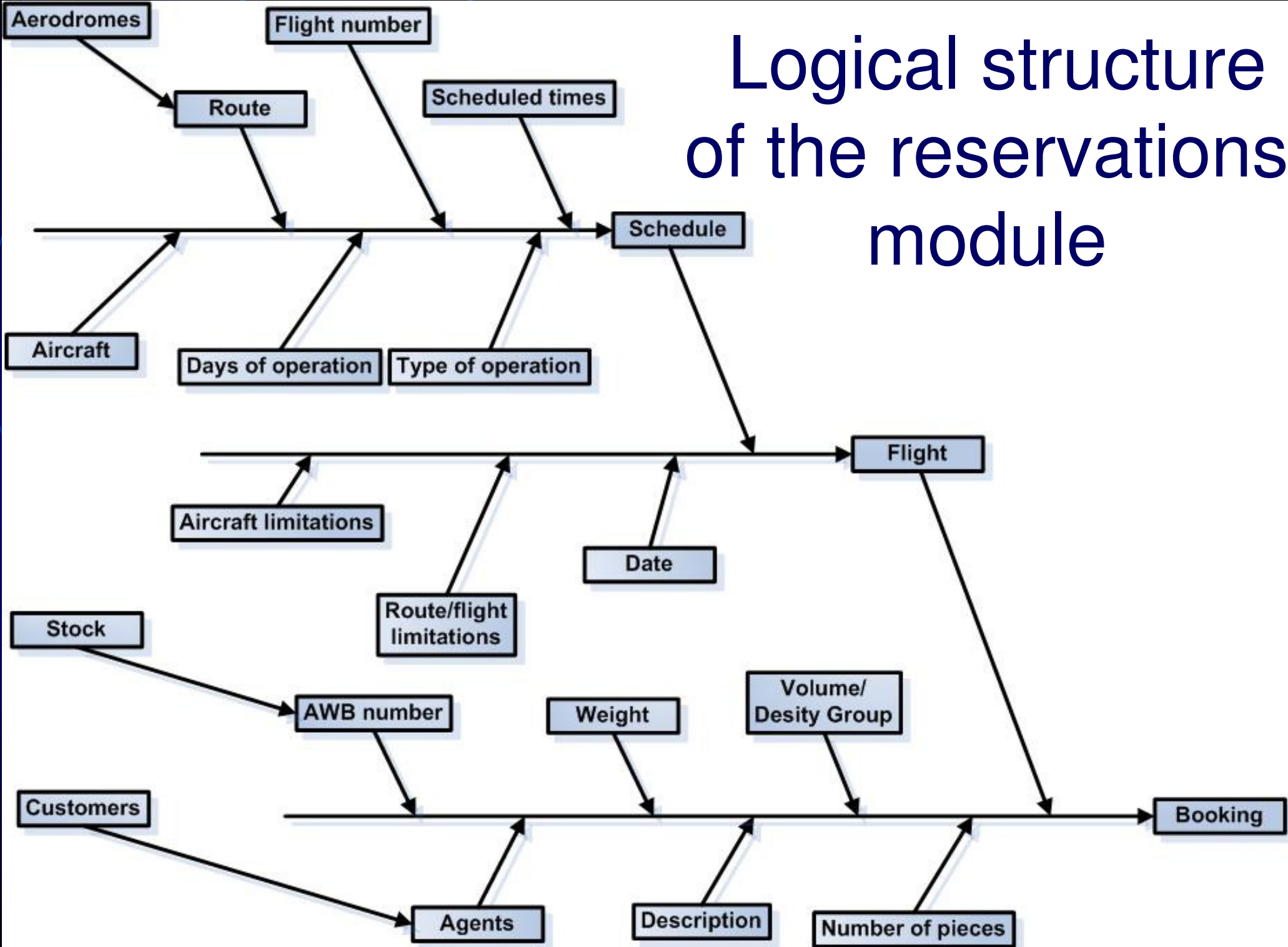


INBOUND PROCESS

flow chart of the reservations proccess



Logical structure of the reservations module



Booking – Searching for the flight

Booking

Origin: Destination:

days

Flight:

Number of pieces:

Gross weight: kg

Volume: m3 DG

Description:

MAWB number: -

SHC Supplementary information:

Carrier	Flight	Date of Op.	A/C	Route
▶ MA	110	2007.04.27.	141	BUD - IEV
MA	110	2007.04.28.	141	BUD - IEV
MA	110	2007.04.29.	141	BUD - IEV
MA	110	2007.04.30.	141	BUD - IEV
MA	110	2007.05.01.	141	BUD - IEV
MA	110	2007.05.02.	141	BUD - IEV
MA	121	2007.04.27.	EM2	BUD - FRA
MA	414	2007.04.27.	14Y	BUD - MXP
MA	414	2007.04.28.	14Y	BUD - MXP
MA	414	2007.04.29.	14Y	BUD - MXP
MA	414	2007.04.30.	14Y	BUD - MXP
MA	414	2007.05.01.	14Y	BUD - MXP
MA	414	2007.05.02.	14Y	BUD - MXP
MA	520	2007.04.27.	14Z	BUD - FRA

Available weight: kg Available volume m3

SHC embargo:

AVI only supervisor confirmation
LHO only in urgent case

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Manipulate bookings (split, change...)

Shipments TT-001 20070404 AA OPEN flight SHC emb:

Available weight: Kg
Overload
Available volume: m3

Prior	MAWB	Description	Orig	Dest	ALT	Colly	Weight	Volume	SHC codes	Supplementary info
▶ 1	182-50000005	CONSOLE	BUD	VIE	<input checked="" type="checkbox"/>	100	100,00	120,00		
2	182-50000031	AUTO PARTS	BUD	VIE	<input checked="" type="checkbox"/>	5	50,00	0,10		

MAWB :

Desc :

Number of pieces :

Gross weight : kg

Volume : m3

Agent

SITA Tel.:

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Booking completed

Booking

Origin: Destination:
Budapest - Ferihegy KIEV - ZHULHANY

days

Flight:
Malev Hungarian Airlines Limited

Number of pieces:
Gross weight: kg
Volume: m3 DG

Description: **Data saved**

MAWB num Freight 182-50000053 successfully booked to BUD-IEV leg of MA-110/27APR flight.

SHC Su

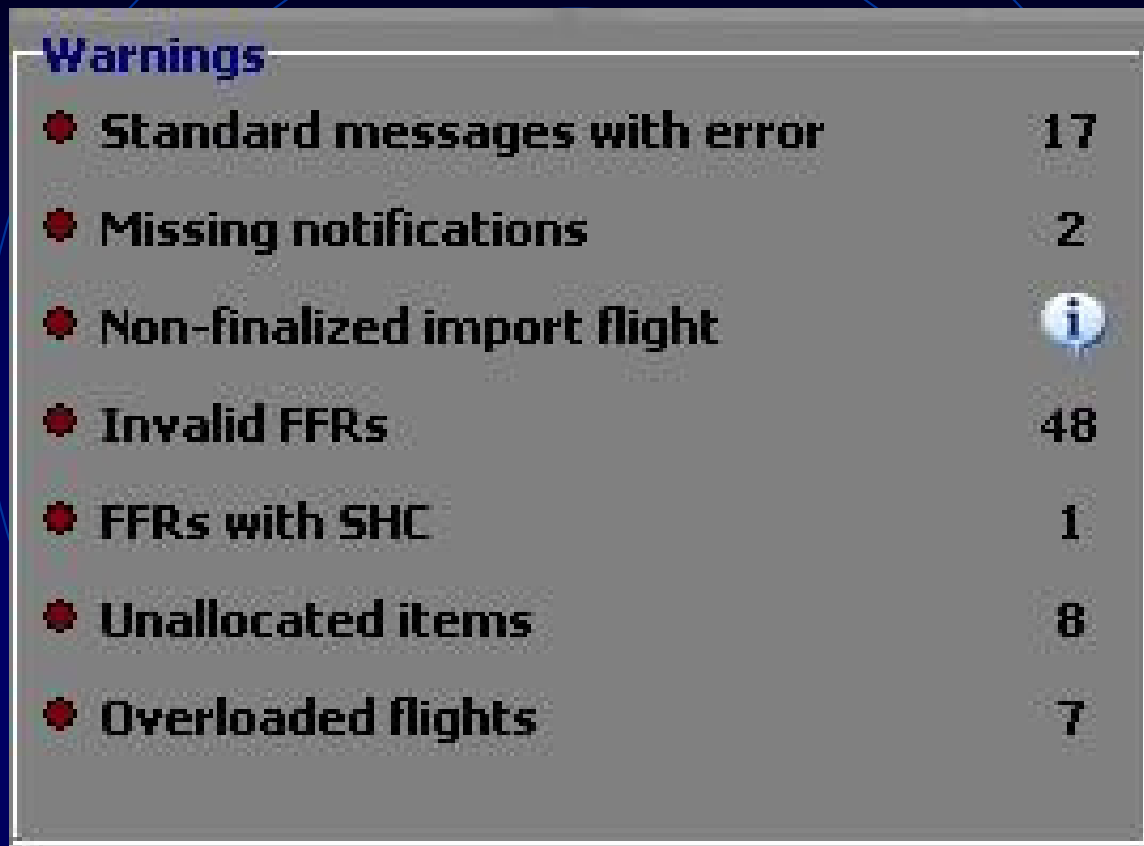
Available weight: kg Available volume: m3


SHC embargo:

Agent: PANNON AIR CARGO KFT.
SITA: Tel.:

AVI only supervisor confirmation
LHO only in urgent case

Warnings



Warnings	
Standard messages with error	17
Missing notifications	2
Non-finalized import flight	
Invalid FFRs	48
FFRs with SHC	1
Unallocated items	8
Overloaded flights	7

- Help for the user with information to solve problems, errors...
- Help for the supervisor to control the process...

- Real-time, creditable, valid information from the system
- To get the information You need: just a „click” to the warning line and the adequate window pop up helps to handle the problem as soon as possible

FFR message handling

Invalid FFR messages		
MAWB: <input type="text" value="057"/> - <input type="text" value="12345678"/>	Type: <input type="text" value="HK"/>	Description of error / Original Message Invalid Quantity data - Shipment Desc. Code Invalid Flight data (Flight not Found) ===== Message ===== FFR/6 057-12345678PARMSP/P10K300MC10T20/ORNAMENTS/VALHEAPEF AF1234/10MAY/CDGORD/HK/1234 MA7045A/11MAY/ORDBUD/HK/6789 ULD/1/P1P1234AF-M/K1000 SSR/DO NOT DROP /CALL MR. HERNANDEZ IF ARRIVED AT ORD OSI/ MSP PHONE MR. SMITH AT 123-4567 /FAX TO MRS. SPEARS AT 132-456-60 REF/PARFMAF/4321/ILS/QRFIMDA/BUD DIM/K1000/CMT100-200-100/2 PID/A/D/1234 SHP/345689 /HK LOGISTIC /BAKERY STR 12 /SEATTLE/WASHINGTON
Description of goods: <input type="text" value="ORNAMENTS"/>		
Requested flight: <input type="text" value="MA"/> <input type="text" value="7045A"/> <input type="text" value="2007.05.11"/> <input type="text" value="15"/>		
Route: <input type="text" value="ORD"/> <input type="text" value="BUD"/> <input type="checkbox"/> Alternativ Járat		
Gross weight: <input type="text" value="300"/> Kg		
Volume: <input type="text" value="10"/> m3		
Density Group: <input type="text" value="6"/>		
Number of pieces: <input type="text" value="20"/> db		
SHC codes: <input type="text"/>		
Supplementary information: <input type="text" value="OSI:
MSP PHONE MR. SMITH AT 123-4567
FAX TO MRS. SPEARS AT 132-456-60
SSR:
DO NOT DROP
CALL MR. HERNANDEZ IF ARRIVED AT ORD"/>	Agent: <input type="text" value="PANNON AIR CARGO KFT."/> Tel.: <input type="text"/> SITA: <input type="text" value="QIFMAMA"/>	

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Accept Reject Exit

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Lying list – unbooked shipments

Lying shipments
_ □ □ ×

MAWB: from: days

Desc:

Number of pieces: db (250)
 Gross weight: kg
 Volume: m3

SHC:

Original (first) booking to:

Origin: Destination:

Agent: Tel.:

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Flight:

Carr	Flight	Date	CI	Route
▶ MA	121	2007.04.27.	EM2	BUD - FRA
MA	520	2007.04.27.	14Z	BUD - FRA
MA	998	2007.04.27.	313	BUD - FRA
MA	520	2007.04.28.	14Z	BUD - FRA
MA	998	2007.04.28.	313	BUD - FRA
MA	520	2007.04.29.	14Z	BUD - FRA
MA	998	2007.04.29.	313	BUD - FRA
MA	520	2007.04.30.	14Z	BUD - FRA
MA	998	2007.04.30.	313	BUD - FRA
MA	520	2007.05.01.	14Z	BUD - FRA
MA	998	2007.05.01.	313	BUD - FRA
MA	520	2007.05.02.	14Z	BUD - FRA
MA	998	2007.05.02.	313	BUD - FRA

Available weight kg Available volume m3

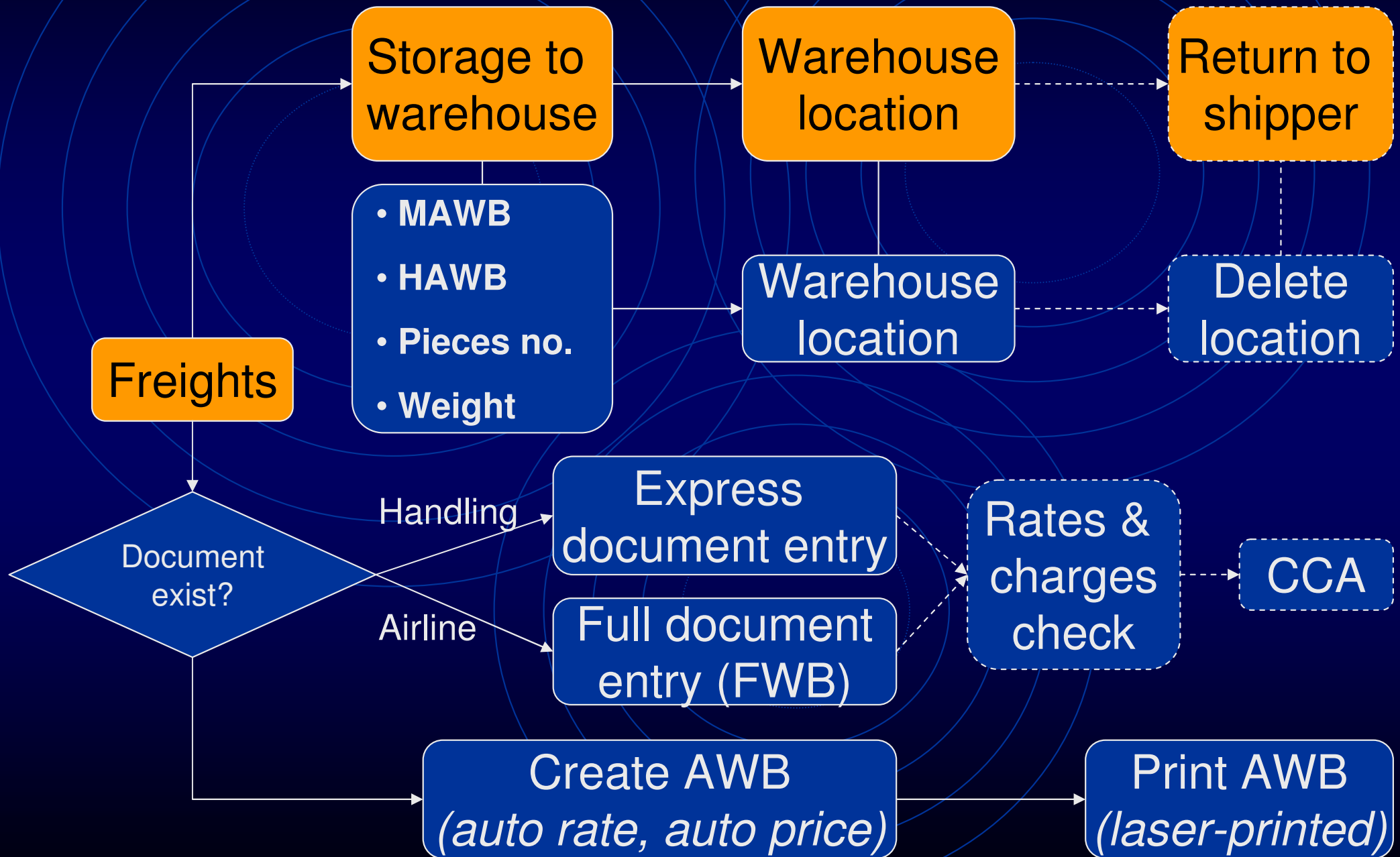
SHC embargo

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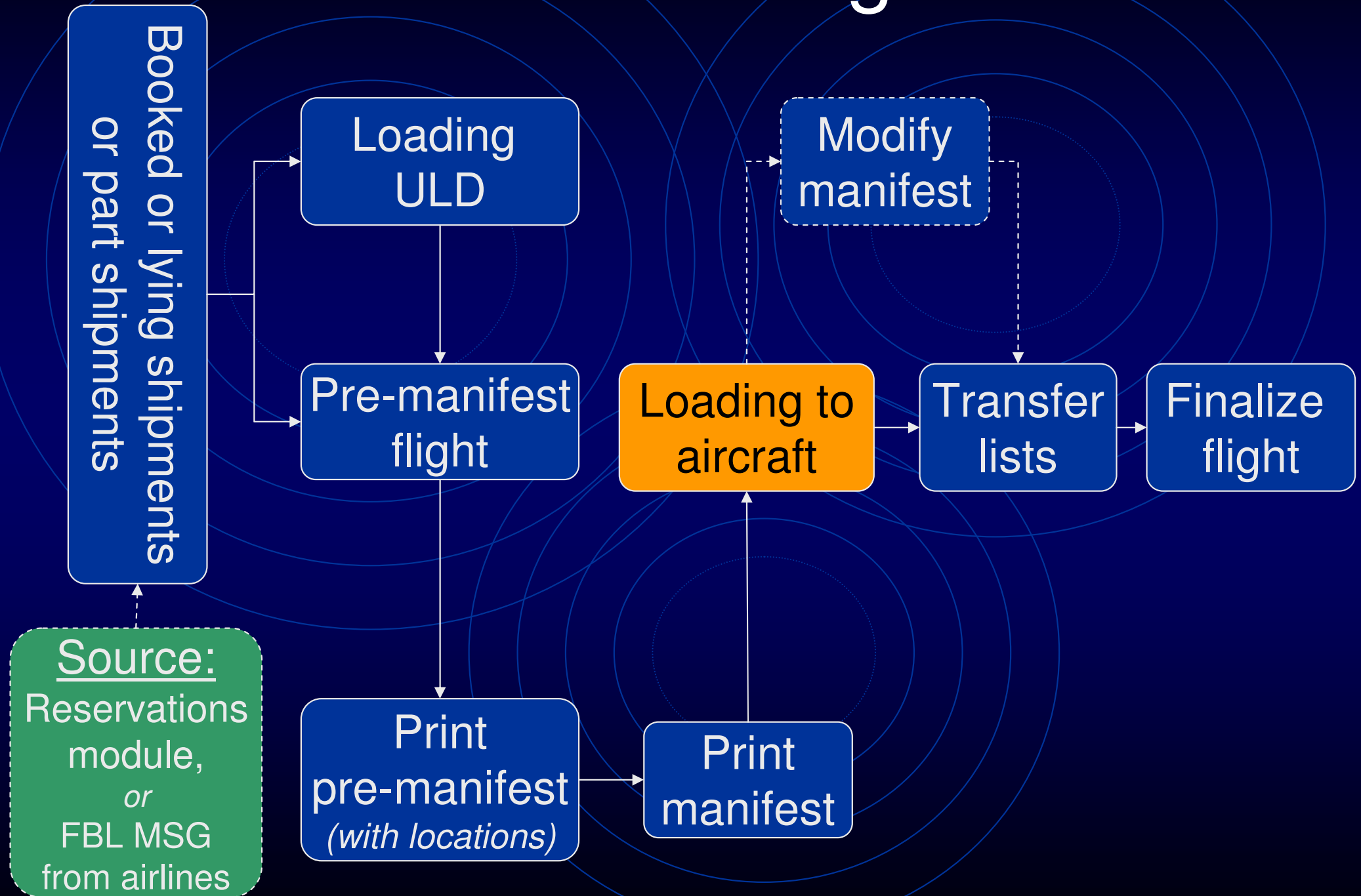
Finalize flight reservation

- This is the final phase of the reservation process that is why its use needs a great care;
- Flight should be closed only, if it is absolutely sure that all of the consignments data are valid, and priority sequence is set correctly;
- After finalizing the flight FBL message will be sent automatically;
- Optional adjustable automated finalization:
 - Save human resources
 - Reduce risk

Export freight/document handling



Manifesting



Finalizing departure flight

Calculation of airline charges

- This action is the most important step of the export flow that is why its use needs great care

Sending out SITA-msgs

STM

FSU

FFM

FWB

SLS

- Flight should be closed only, if it is absolutely sure that all of the consignments data are clear, the warehouse data and air waybills are correct

- It can be declared with the finalizing of the flight, that the information about the actual flight is correct and wholly entered

- Before the flight-finalizing it is possible to modify the list of the consignments transported on the flight, with the help of pre-manifest flight function and reprint a modified manifest

- After finalizing the flight FFM, FSU, FWB, etc. messages will be sent automatically, and accounting procedure is starting

FSU types:

RCS,TFD,MAN

DEP

Finalizing departure flight screen

Finalize flight ✖

Shipment data: LX2259/09JUN06

MAWB number	Cust.reg.number	FBL	Document	Doc/frt pcs	Doc/frt wgt	ULD id
724-50160482			Rendben	Rendben	Rendben	AAA0003MA
724-53840570			Rendben	Rendben	Rendben	
724-50161554			Rendben	Rendben	Rendben	AAA0003MA
724-00000011	12345678901234		Rendben	Kevesebb	Rendben	
724-00000022			Rendben	Több	Rendben	
724-00000033			Rendben	Kevesebb	Több	

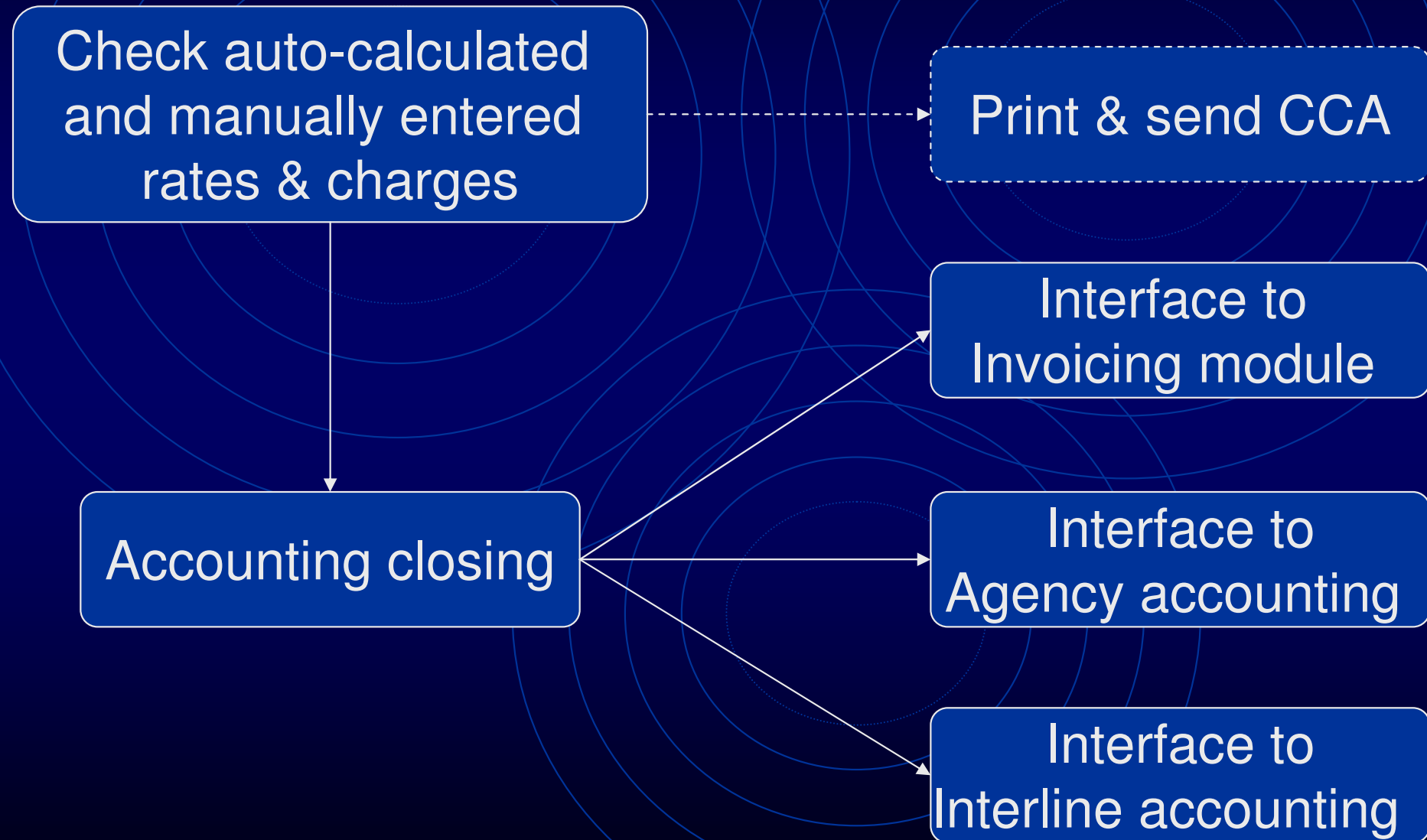
Document

Customs reg. for the flight:

Finalize

Revenue accounting

(same as import)



Reports, history, basic-data



Customers

Customers

New customer Modify customer Delete customer New alias Set as alias

Name	Cust.ID	Abbr.	Address
CARL AND TERRI LANPHER	21994		NEW YORK, XXXXX
WTO LOGISTICS LTD	24110		HKG, XXX
000 SAF	24009		GUBA, PROSPEKT ASERBAUDSCHANA 227
091323-4376 QUEBEC INC	26300		MONTREAL, XXX
2 KÉK VILLÁM 2004 KFT	26583		1081 BUDAPEST, VAY ÁDÁM U 8
2 NCI HAVA IKMAL BAKIM	25232		ANKARA, XXXX
3 M EAST AG	20879		VIE, INDUSTRIE STR 21
3 PHASE SYSTEM	16695		LOS ANGELES, XXX
3.D.SWANEPOEL	17318		POLOKWANE, 21 JUNO STR
3.SZ LÁTSZERÉSZETI BT NOVÁK OPTIKA	7846		1088 BUDAPEST, RÁKÓCZI ÚT 25
3ANALPINA WORLD TRPT INDIA P L	18393		11 00 34 NEW DELHI, RZ 60 A BLOCK MAHIPALPUR
3ANGZHOU PETER PAN INDUSTRY CO LTD	28559		SHANGHAI, NO 128 EAST GENSHAN ROAD
3ARGET LOGISTIC	25858		77032 HOUSTON, 15925 MORALES A 200
3COM HYDRAULICS S R O	13835		MARTIN, ESTOVA 9
3EXPEDITORS BEIJING BRANCH	24115		BEIJING, NO 4 FU QIAN STREET AO ZHU BUILDING
3IPLA LTD	26764		MUMBAI, MUMBAI CENTRAL
3M HUNGARIA	3713		XXX, XXX
3M TAIWAN LTD	11282		TAIPEI, YANG MEI

Find Close

Messages & corrections

Message centre
(for SITA msg handling)

FWB

Create

FFM

FBL

Reply

FSR

Edit

BEA

USR

Forward

FSA

Print

FSU

TTY

Search

Corrections

New location for
finalized import flight

Open finalized
export flight

Air waybill
number change

Import instead of
export

Edit ULD list

Reload ULD content

MAWB purge

Modify import flight

Message Center

Message center

New Reply Forward Re-send Delete Add to view Find Print Refresh

Folder: FWB Last: 2 weeks Order: by time

Sender	Type	Subject	Time
FRAFMLH	FWB		2005.12.02. 9:51:28
FRAFMLH	FWB		2005.12.02. 9:42:37
FRAFMLH	FWB		2005.12.02. 9:19:44
FRAFMLH	FWB		2005.12.02. 9:18:36
FRAFMLH	FWB		2005.12.02. 9:17:49
FRAFMLH	FWB		2005.12.02. 9:13:13
FRAFMLH	FWB		2005.12.02. 9:12:58
FRAFMLH	FWB		2005.12.02. 9:10:48

Date: 2005.12.02. 9:51:28
Shipper: FRAFMLH
Consignee: BUDJXMA
Message type: FWB/9

FWB/9
020-97461851BUDFRA/T1K26
RTG/FRALH
SHP
/LUFTHANSA TECHNIK BUDAPEST LTD
/FERIHEGYI REPULOTER PF 13
/BUDAPEST/HUNGARY

New view Delete view Rename view

Close

Folder: Incoming messages
Teletype (TTY)
FWB
FFM/FBL
FSR
BEA
USR
FSA/FSU
Other standard
Views
182-18735533
ffm/fbl
ma669
Find
Outgoing messages
Messages to send
Standard messages
All messages
Incoming messages