BAPLIE version 3
Draft 3.0.1

Jost Müller

SMDG
Working Group BAPLIE3

Overview

- Motivation for BAPLIE3
    - Enhancements
- Subgroup
- Revised message structure
- DMRs, Edifact directory
- Message Implementation Guide
- Status and next steps

Motivation

- BAPLIEv2 is heavily in use, but lacks some important data

- Extra communication needed – extra effort → cost saving

- Enhancements required (not sufficient in BAPLIEv2)

  - Dangerous goods details

  - Non-standard equipment

  - Empty flat racks, bundles

  - Breakbulk

  - Accounting details: vessel sharing, lost slots

  - Data for safety validation (weight limits, mass distribution, DG stowage and segregation)

Working group

- Michael Bergen, Interschalt
- Klaus Hollaender, Unifeeder
- Yoshi Kito, EDI expert
- Jost Müller, Müller+Blanck Software (chair)
- Philippe Nowak, CMA CGM
- Robert Roestenburg, ECT
- Heidi Stemler, HHLA
- Paul Wauters, COSMOS, PSA-Antwerp

Gerry Endenburg, Copas

Peter Horstkorte, Müller+Blanck Software

Henrik Monberg Carlsen, Marine Alignment

Wolfgang Neumann, Hamburg Süd

Alfonso Rasch-Isla, CMA CGM

Michael Schröder, Hapag Lloyd
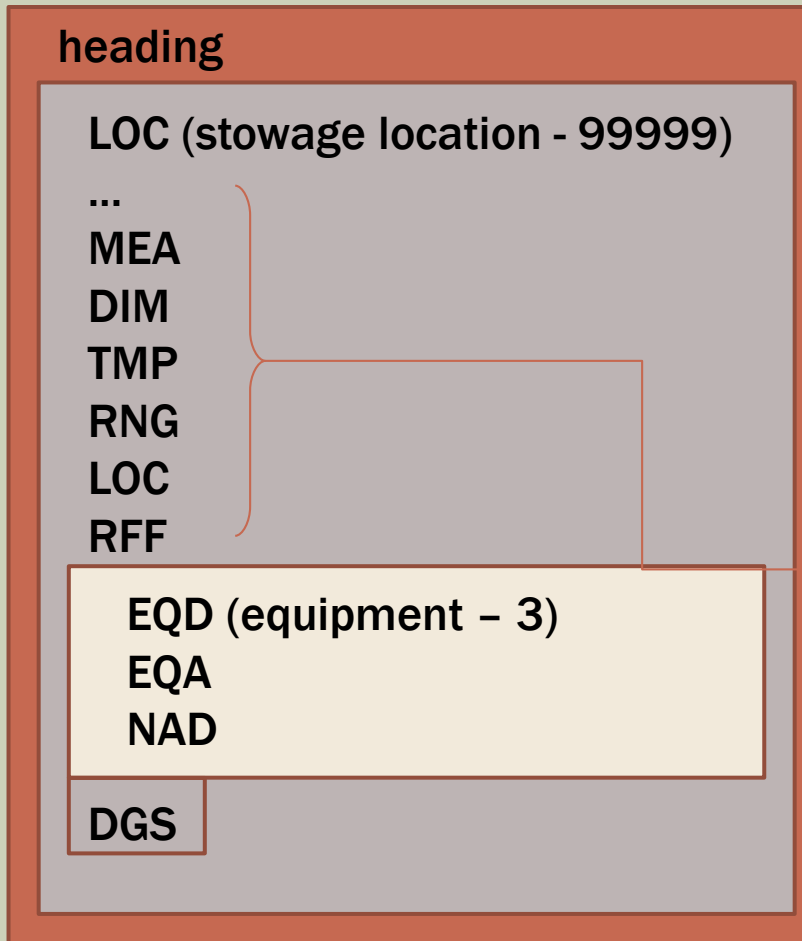
Arthur Touzot, CMA CGM

7 subgroup meetings since Bilbao!
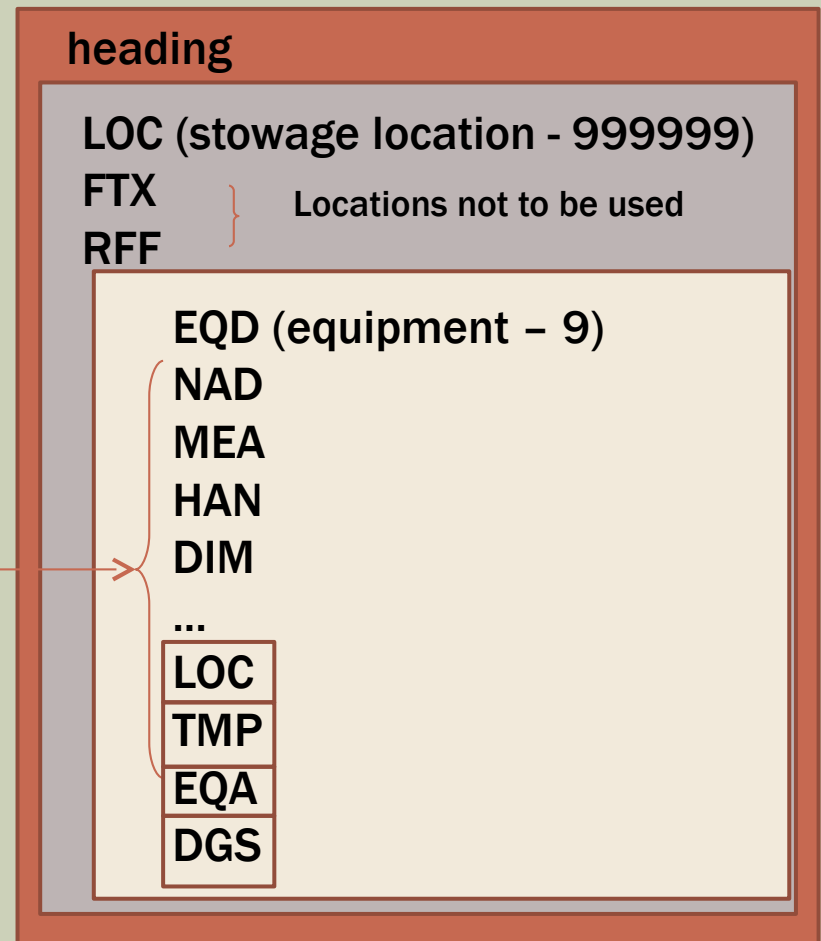
Design Principles

- Revise BAPLIE message structure

  - Keep stowage location as anchor for information

  - Specify equipment details in EQD group (formerly part of position)

  - New DGS group

- Apply for new qualifiers where necessary (DMRs)

- Make use of code lists to be maintained by SMDG

- Use HAN (in place of FTX) for handling instructions

- Use dedicated segments rather than FTX for transmission of coded data

- Provide recommendations in MIG on how to use message structure in odd cases.

Message structure

BAPLIEv2

heading

LOC (stowage location - 99999)

...
MEA
DIM
TMP
RNG
LOC
RFF

EQD (equipment – 3)
EQA
NAD

DGS

BAPLIEv3

heading

LOC (stowage location - 999999)
FTX
RFF   Locations not to be used

EQD (equipment – 9)
NAD
MEA
HAN
DIM
...
LOC
TMP
EQA
DGS

EDIFact Dirctory DMRs

- Message structure, new codes

- DMR history

  - 1st version prepared with assistance of Yoshi Kito

  - Presentation at Transport&Logistics WG, Zürich, 28.Nov.

  - → recast of message BAPLIE

  - DMR revision guided by Sue Probert

  - final submission begin Feruary

  - approved by UN/CEFACT Forum last week with acceptable modifications

  - to be published in directory D.13A (May/June)

NEW DGS Group

- Objectives

  - Fully identify DG item according to IMDG Code

  - Deal with release frequency of new IMDG amendments
    problem: time-consuming directory updates

  - Harmonized solution (PROTECT,etc)

- Approach

  - Use ATT segment for missing attributes
    (do not use FTX for key data)

  - Use SMDG maintained code list for new attribute types

  - Provide MEA segment for quantitative attributes

  - Add contact information

DGS group in BAPLIEv3

O	00440		Segment Group 11: DGS-ATT-MEA-FTX-SG12	C		999
M	00450	DGS	Dangerous Goods	M	1	
O	00460	ATT	Attribute	C	9	
O	00470	MEA	Measurements	C	9	
O	00480	FTX	Free Text	C	9	
O	00490		Segment Group 12: CTA-COM	C		9
M	00500	CTA	Contact Information	M	1	
R	00510	COM	Communication Contact	C	9	

ATT Segment

ATT   ATTRIBUTE

Function: To identify a specific attribute.

010	9017	ATTRIBUTE FUNCTION CODE QUALIFIER	M	1	an..3
020	C955	ATTRIBUTE TYPE	C	1	
	9021	Attribute type description code	C		an..17
	1131	Code list identification code	C		an..17
	3055	Code list responsible agency code	C		an..3
	9020	Attribute type description	C		an..70
030	C956	ATTRIBUTE DETAIL	C	5	
	9019	Attribute description code	C		an..17
	1131	Code list identification code	C		an..17
	3055	Code list responsible agency code	C		an..3
	9018	Attribute description	C		an..256

SMDG Attribute Types / Details

Type	Detail
AGR - agregate state	S – solid, L –liquid, G –gas, XA – explosive article, XS – explosive substance
BNR – DG booking reference number	… (an..17)
HAZ - Special hazard	P - MARPOL
PSN - Proper shipping name	… (an..256)
QTY - Special quantity	TLQ - limited, TEQ - excepted
SEG - Segregation group	numerical (an..17) + text (an..256)
TNM – technical name	… (an..256)
UNX - UN-number extended information	code defined by Exis (an..17)

DGS GROUP – HARMONIZATION activities

- More complete information

- Uses community maintained codelists

    - (business is moving faster than standardization)

- Approach presented to Transport&Logistics WG

    - Harmonization required across many modes of transport and other communities

    - SMDG approach accepted as compromise for urgent business requirements

- DGS group to be used in other SMDG messages

- Presentation in PROTECT (IFTDGN): positive reaction

Breakbulk

BREAKBULK in BAPLIEv3

- Exact description of breakbulk on board

  - Positions occupied by supporting equipment

  - Breakbulk's dimensions and mass

  - Oversizes, blocking of other stowage locations

  - Distribution of mass, stack-weight contribution

  - Center of gravity, stability and stress calculations

- Data important for calculation of figures important for vessel's safety

BLOCKED Positions

- Explicitely mark stowage locations which can (must) not be used

- Oversize of equiment in other position (**Lost Slots**):

  - Reference to blocking equipment given (slot accounting)

- Access to equiment in other position

- Damage

- Contamination

- Reservation for loading special cargo in subsequent port

Equipment dimensions

- DIM segment - Distinguish specification of

  - **equipment's dimensions** and

  - **out-of-gauge (OOG)** caused by oversize of goods transported on/in equipment.

- ISO size type code does not always specify the actual dimesions of equipment during transport
  → in this case additional DIM segment used

  - Equipment width, distinguish

    - width of body

    - width at corner posts (!! cell guides)

  - Equipment length

    - unusal length, e.g. 23'

Equipment dimensions (2)

- Equipment height

  - Flat racks with collapsible end-walls

  - Flat racks with extendable end-walls

  - Non-standard height (e.g. 6'9)

- Important for

  - Determine of tier's base in stack

  - Determine whether supported breakbulk causes overheight (floor height needed)

- Flat rack <u>floor height</u>

- Important for

    Determine whether breakbulk on top causes overheight

  - Calculation of breakbulk's vertical center of gravity

Multiple units of equipment in one position / bundles

- The sequence of multiple units of equipment in one cell position is specified by an RFF segment.

  - empty flats / platforms

  - bundles

  - half-height containers

- Importance: sort by operator for discharge in different ports

- Height of each collapsed flat / platform specified by DIM

- Height of each bundle specified by DIM

HANDLING Instructions

- Use HAN segement (not FTX as in BAPLIEv2)

- Use SMDG maintained code list

- Code lists HANSTOW, HANINS, HANBLOCK compiled by working group based on

  - ITIGG list

  - Review of Container Messages

  - Members' experience

  - currently 35 different codes

- Download latest version from http://www.smdg.org

SMDG Handling Instruction code list

DE 1131 = HANDLING

| Code	Name	Description		BAPLIEv3	:	:	:	:	:	:
					code for use in message					
ACC	Accessible	Self heating cargo - Stow accessible On Deck		*						
BLK	Block stowage	Block stowage preferred.		*						
DAC	Door accessible	Door needs to be accessible		*						
DFA	Door facing aft	Door facing aft		*						
DFC	Delivery by floating crane	Delivery by floating crane		*						
DFF	Door facing fwd	Door facing forward		*						
DNA	Door not accessible	Door should not be accessible (door facing door)		*						
DRY	Keep dry	Keep dry. Do not stow on deck top		*						
DSC	Delivery by Ship's crane	Delivery by Ship's crane		*						
FBU	Flat-rack bottom-up	Flat-rack bottom-up; sandwich stow		*						
FLX	Flexitank	Flexitank; flexi bag inside container		*						
GAP	Lashing gap	Stowed with lashing gap		*						
KCO	Keep cool	Heat sensitive cargo : Keep as cool as reasonably practicable, shaded stowage preferably		*						

Use of term operator

- Issue for term <u>container operator</u>: Which party is currently in charge for container's operation?

- With vessel sharing agreements two parties might be involved

  - Container's booking party: knowlege of customer, container routing, cargo in container

  - Slot owner in VSA: may sub-lease slots to other booking parties

- Party to be charged for operations depends on terminal's agreement with shipping line.

- Objectives for BAPLIE3:

  - Transmission of full information required

  - Keep use of Edifact qualifiers compliant with other messages

Use of term *operator (2)*
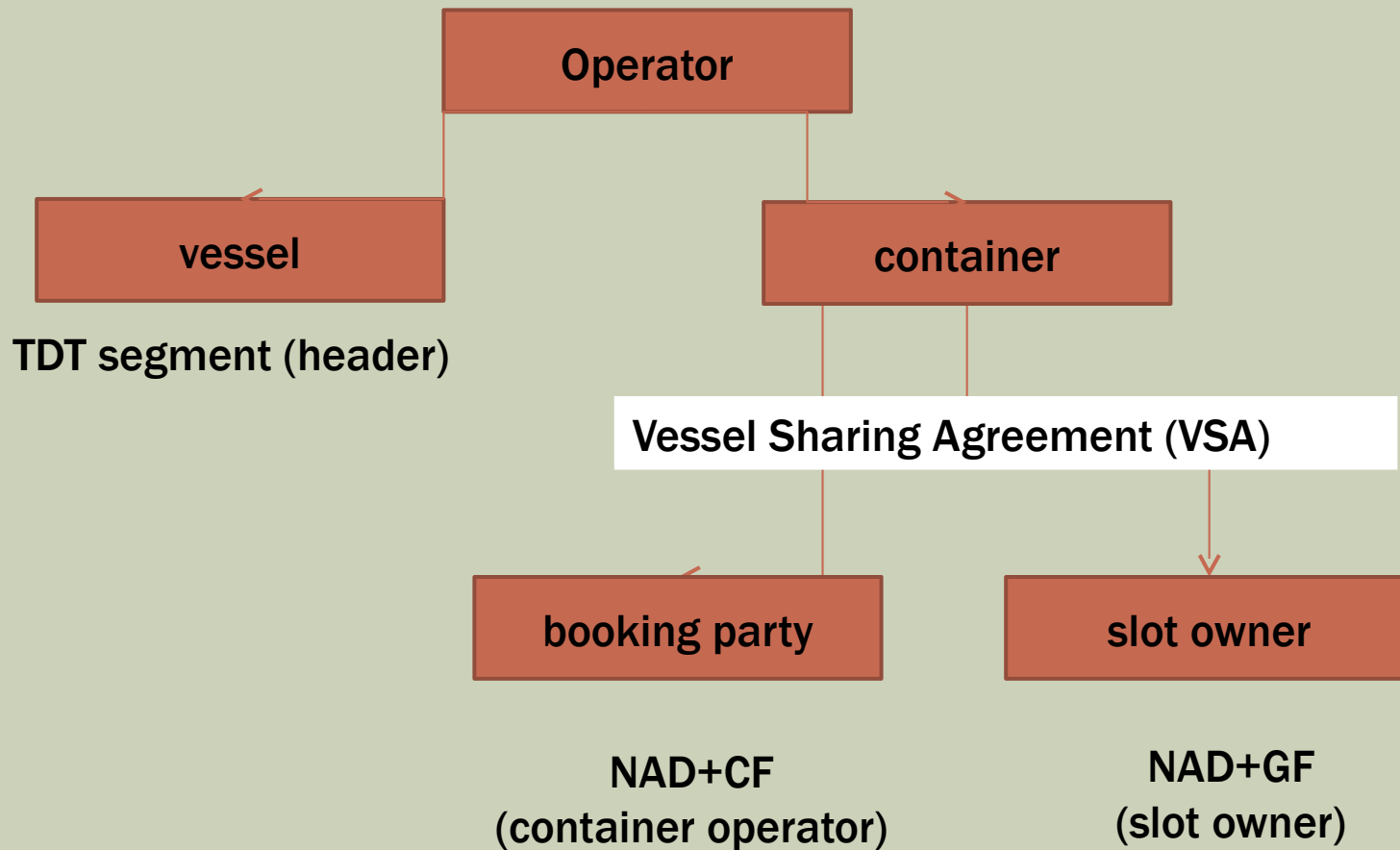
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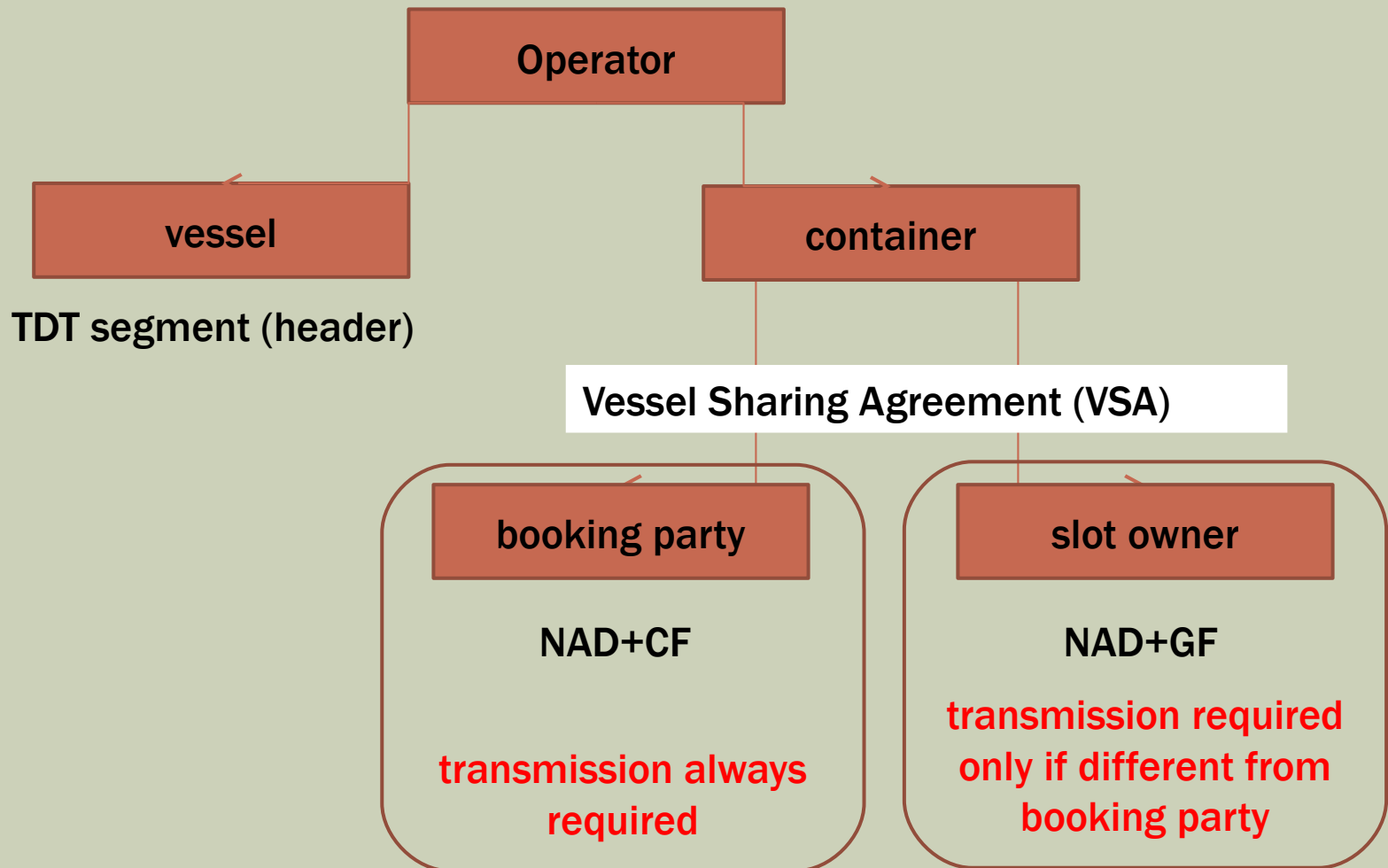
Container booking id

Example:

Vessel Operator is Unifeeder (UFE), Slot Owner (VSA Partner) is Evergreen (EMC) and Booking Party HLC. All of these operator functions are conducted by different lines!

`TDT+20+VOY123+++UFE:LINES:306+++9234989::11:AURORA'`	*Unifeeder is Vessel Operator*
`. . .`	
`LOC+147+0011010::5'`	*start of position*
`EQD+CN+TRIU1801199:6346:5+22V0:6346:5+++5'`	*start of container*
`NAD+CF+HLC:LINES:306'`	*HLC is booking party*
`NAD+GF+EMC:LINES:306'`	*EMC is slot owner*
`RFF+CN:32BSF1298-11'`	*Slot Owner's reference*
`RFF+BN:2HELQV99821/33'`	*Booking party's reference*
`MEA+AAE+AET+KGM:18700'`	*gross weight*
`. . .`	*more details about container*

Example 5.8-1 Booking reference when vessel operator, booking party, and slot owner are different

Different types of BAPLIE

- Today's usage of BAPLIE

  - Final status after departure of vessel, but also

  - Draft status as it describes current planning

  - Full information describing all occupied or blocked stowage locations

  - Patial information, describing only stowage locations

    - related to a single shipping line

    - whose content changed in the port (transit cargo omitted)

BAPLIE types

		actual	draft
full		☺	☺
part	single operator	☺	
	loaded only	☺	☺
	...		

SMDG recommendation

In order to avoid three digit tier numbers,

IT systems supporting container vessels

which allow for 10 or more tiers on deck

shall start on-deck tier numbering with tier '72'.

No change for existing vessels is intended.

Status of BAPLIEv3 (23. April 2013)

- Stable message design

- Based on directory D.13A (DMRs have been accepted)

- Message Implementation Guide (MIG) available (draft)

  - General (introduction, maintenance, history, etc) – 12 pages

  - Detailed description of message components (EDISIM) – 85 pages

  - Explanatory section (*Special Use Cases* and *Examples*) – 30 pages

- Additional SMDG maintained code lists available (draft)

  - HANDLING (operational handling) – split list

  - BLOCKING (reason for not using stowage location)

  - DGATT (attributes identifying an DG item)

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- Prepare for starting implementation projects!