

SFD

Boat Configuration Editor



Marc TOQUARD
BENETEAU Group
Functional specifications

Document Revision History

Version	Date	Author	Description of Changes
0.1	12/08/2025	Marc TOQUARD	
0.2	25/09/2025	Marc TOQUARD	CO link with type = "BAT"

1. Objective of the Project

Provide users with a simple application that allows, from a Shop Order number, to:

1. Identify the corresponding Serial Number and Dop Header in IFS ERP.
2. Verify and confirm that the serial number is correct.
3. Choose an available printer and language.
4. Launch the printing of the business document MA_FO_CR_1419 associated with the corresponding Customer Order related with serial number.

Link to business requirements :

https://beneteaugroup.sharepoint.com/:p:/s/STARBOARD/Ef1_1PTiQeNNmhGRhJA728BhODE3KDuwOs2VTfs6TdV4g?e=ROu0kn

Link to business specifications:

<https://beneteaugroup.sharepoint.com/:p:/s/STARBOARD/EYmWDRzERztBoM5q1QjH5RsBgL0rxH18rgZ3gGQqMo3aTA?e=QhXkBG>

2. Scope

The application will be interfaced with the IFS ERP exclusively via API calls. All IFS API will be exposed by Azure API management (APIM)

Use is strictly reserved for BENETAU users : GAP Leaders, Supervisors, and Quality Controllers.

The user enters the three keys of a Shop Order : Order No, Release No, Sequence No.

3. Business Process with Interfaces

Step 1 – Enter the three keys of the Shop Order :

Order No, Release No, Sequence No (mandatory).

Step 2 – Retrieve the Serial Number and Dop Header ID from ERP via API and display it.

Step 3 – Ask the user to confirm the displayed Serial Number.

Step 4 – Retrieve the list of available printers and languages from ERP via API.

Step 5 – User selects a printer and language and confirms to print document MA_FO_CR_1419.

4. Business Rules

- The three keys must identify a unique Shop Order.
- Serial Number confirmation is mandatory.
- Printer and language selection is mandatory.
- The printed document is always MA_FO_CR_1419.

- User interface will be in English.
- Access limited to GAP Leaders, Supervisors, and Quality Controllers (must be administrate from <https://dataprivilege.domain.group/DP>)
- User group administrated only by BENETEAU (IT project manager + Key user).
- All interactions with ERP are done via API exposed in Azure APIM.
- Developer must use existing Azure API exposition if possible.
- This application must be deployed on 3 environments (DEV, PPD and PRD)

5. Acceptance Criteria

- Authorized users can search and retrieve a Serial Number and Dop Header via API.
- The complete workflow (entry → confirmation → printer selection → print) works as intended.
- Unauthorized profiles and users are blocked.
- Clear error and confirmation messages are displayed.

6. Interface components

Screen 1 – Shop Order Entry

```

+-----+
| Enter Shop Order Details |
|                           |
| Order No:  [ _____ ] |
| Release No: [ _____ ] |
| Sequence No: [ _____ ] |
|                           |
| [ Search ] |
+-----+

```

Form with three mandatory fields:

- orderNo (string, max 20 caractères)
- releaseNo (string, max 10 caractères)
- sequenceNo (string, max 10 caractères)
- Bouton Search → Call API

Enter Shop Order Details

Order No

Release No

Sequence No

Search

Screen 2 – Serial Number Confirmation

```
+-----+
| Serial Number found: LG5XA0003 |
|
| Dop Header ID found: 37 |
|
| Is this correct? |
| [ Yes ] [ No ] |
+-----+
```

Display API call back data :

- serialNumber
- dopHeaderId

Message : **"Is this correct?"**

Boutons :

- **Yes** → Switch to Screen 3.
- **No** → Return to previous screen (Screen 1).

Serial Number found: LG5XA0003
Dop Header ID found: 37
Is this correct?

Screen 3 – Printer Selection

```
+-----+
| Select Printer                                     |
| |                                                 |
| [▼] Office Printer :                             |
|     Printer PRTBX 060                             |
| [▼] Office language :                             |
|     French                                         |
| |                                                 |
| [ Print Document MA_FO_CR_1419 ]                 |
+-----+
```

Call API to :

- GET /printers → List of printers availables.
- GET /languages → List of languages.

Dropdown to select (LOV) :

- **Printer** (mandatory & searchable)
- **Language** (mandatory)

Button **Print Document MA_FO_CR_1419** :

- Call API : POST /print

Select Printer

Office Printer:

Printer PRTBX 060

Office language:

French

Print Document MA_FO_CR_1419

Screen 4 – Print Confirmation

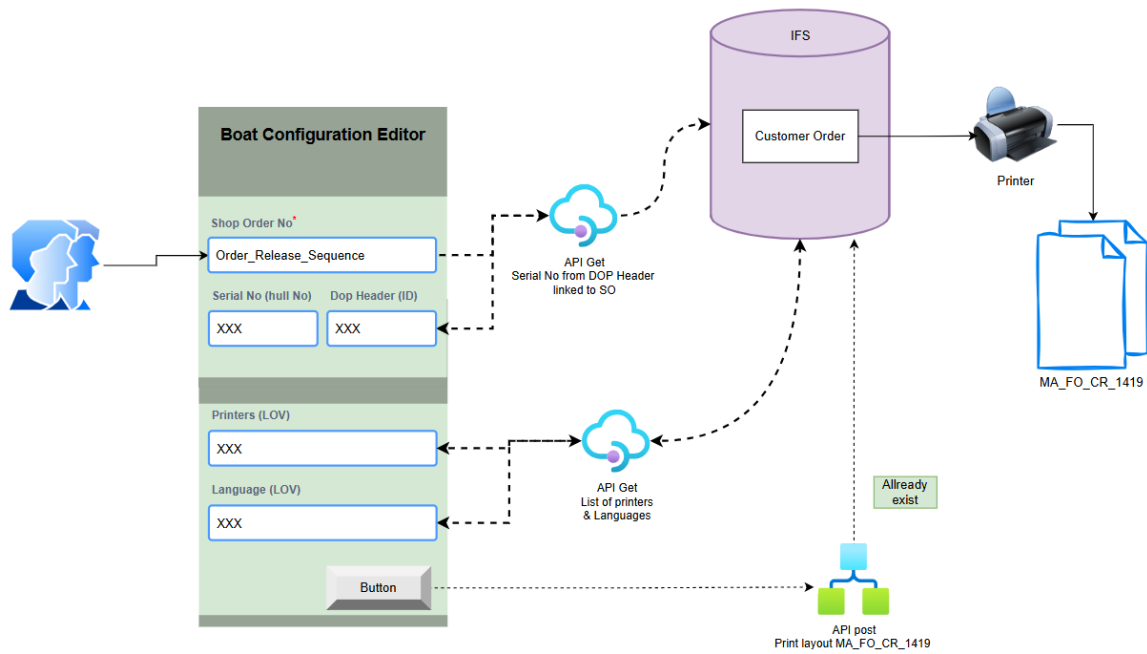
+-----+
| Print job started successfully |
| |
| [New Print] |
+-----+

Display : "Print job started successfully"
Button New Print → Return to Screen 1.

Print job started successfully

New Print

7. Functional architecture : [BoatConfigEditor - Architecture.drawio](#)

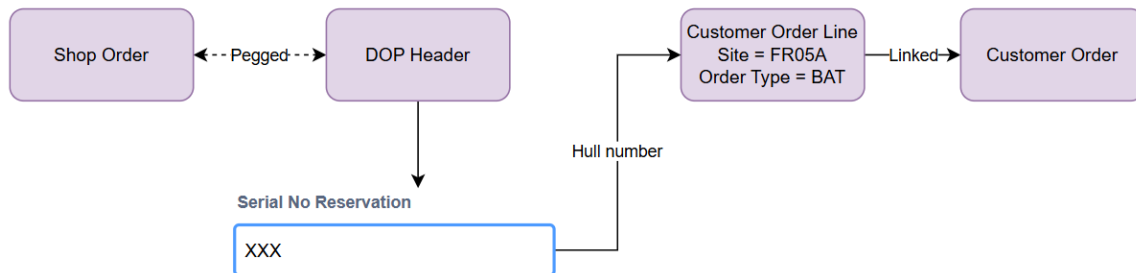


DEV : IFS AST (<https://beneteau-group-ast.ifs.cloud/landing-page/>)

PPD : IFS ACC (<https://beneteau-group-acc.ifs.cloud/landing-page/>)

PRD environment : <https://beneteau-group.ifs.cloud/landing-page/>

8. Functional components in IFS



a. Shop order and link with DOP Header

Shop Order 693 - * - * - FR018 - Manufacturing - LG5XA - 1 PCS - Started 2 of 24+ Started

Order No: 693 Release No: Sequence No: Site: FR018 Order Type: Manufacturing

Part: LG5XA - LAGOON 60 Configuration ID: 14144 Lot Size: 1

Cdv Connected: No Trolley No:

Scheduling

Scheduling Direction: Earliest Start Date: 01/01/2023 00:00 Start Date: 05/02/2025 15:32

Backwards Scheduling: Finish Date: 26/03/2025 07:42 Need Date: 06/02/2025 00:00 Block Dates: No

DETAILS MATERIALS OPERATIONS PRODUCED PARTS **DOP**

Pegged DOP Orders

DOP Header	DOP Order ID	Status	Due Date	Order Qty	Qty Completed	Qty Pegged
37 - LAGOON 60	1	Start	26/...	1	0	1

DOP Supply Orders

Part	DOP Header	DOP Order ID	Original Due Date	Supply Type	Creation Date	Last Activity Date	Complete Qty	Order Qty	Original Order Qty	Qty Pegged	Planned Due Date	Start Date
LG5XA0CDV0 - LG5XA - CDV	37 - LAGOON 60	2	13/0...	Shop Order	21/12/2024	21/12/2024	0	1	1	1	05/02/2025	21/...

Customer Order Lines

Order No	Line No	Del No	Line Item No	Part No	Qty Pegged	Creation Date
C100000...	1	1	0	LG5XA	1	21/12/2024

b. DOP Header and link with Serial number

DOP Header Released

DOP Header 37 - LG5XA - LAGOON 60

DOP ID: 37 Description: LAGOON 60 Site: FR018 Part: LG5XA - LAGOON 60

Configuration ID: 14144 Demand Qty: 1 PCS Earliest Start Date: 19/02/2024 Due Date: 06/02/2025

Structure/Routing to update: No Generated: No

DETAILS STRUCTURE MULTILEVEL DEMAND **SERIAL NO RESERVATIONS** ALARMS (3) LOGS (0) UNPEGGED SUPPLIES

Serial No: LG5XA0003 Serial Reservation Source: Shop Order

c. Get Customer Order line with Hull Number = Serial No Reservation / Site = FR05A / Order Type = BAT

Search Advanced Hide closed order lines older than 100 days. Customer Order Line Status Customer Order No Customer Order Line No Part No Hull Number: LG5XA0003 Order Type: BAT Site: FR05A More Saved Searches

Customer Order Lines

Hull Number	Planned Delivery Date/Time	Wanted Delivery Date/Time	Customer Order No	Customer Order Line No	Customer Order Del No	Customer Order Line Status	Status	Rental	Customer
LG5XA0003	06/02/2025 00:00	31/12/2025 00:00	CNB-72238	1	1	Reserved	Reserved	No	SC SC_CUST - SCHEDULING CUSTOMER

d. Get Customer order linked to customer order Line

e. Print MA_FO_CR_1419 :

Customer Order C1000000886 1 of 1 Released

Order No: C1000000886 Customer: S FRO5A - SPBI Site: FRO18 Order Type: FIS Wanted Delivery Date/Time: 06/02/2025 00:00 Order Creation Date: 19/12/2024 14:58

Wanted Delivery Week: 06/2025

Actions: Send Order Confirmation, **Print Order Confirmation**, Print Pro Forma Invoice

Details of reports settings :

Report Format & Output

All

Confirmation of Customer Order

236965; Order No: C1000000886

Print Parameters

Layout: MA_FO_CR_1419 Language: en Date/Number Formatting: en-US

Print

Printer: PRTBX060 Copies: 1

Email

Send Email: ☐ Address: m.toquard@beneteau-group.com

OK Preview

f. Basic Data reference in IFS

Solution Manager > Setup > Translation > Used Languages

Used Languages

Language Language Code RFC 3066 Translation Installed: Yes More

✓	Language	Language Code	RFC 3066	Open for Translation	Translation installed	Enabled For Selection
<input type="checkbox"/>	Danish	da	da-DK	Yes	Yes	Yes
<input type="checkbox"/>	English	en	en-US	Yes	Yes	Yes
<input type="checkbox"/>	French	fr	fr-FR	Yes	Yes	Yes
<input type="checkbox"/>	Italian	it	it-IT	Yes	Yes	Yes
<input type="checkbox"/>	Polish	pl	pl-PL	Yes	Yes	Yes
<input type="checkbox"/>	Portuguese	pt	pt-PT	Yes	Yes	Yes

Application Base Setup > System Setup > Printer Definitions > Logical Printers

Logical Printers

☐ ☐ ☐

✓	Printer ID	Description
<input type="checkbox"/>	SEND_XML_TO_CONNECT	Send XML to Connect
<input type="checkbox"/>	SEND_FULL_XML_TO_C...	Send Full XML to Connect
<input type="checkbox"/>	SEND_TO_CONNECT	Send to Connect
<input type="checkbox"/>	PDF_PRINTER	IFS PDF Archiver
<input type="checkbox"/>	NO_PRINTOUT	No Printout
<input type="checkbox"/>	PRTMNF012	PRTMNF012 - BW
<input type="checkbox"/>	PRTMNF015	PRTMNF015 - HR
<input type="checkbox"/>	PRTBX112_L	PRTBX112_L
<input type="checkbox"/>	PRTBX112_P	PRTBX112_P
<input type="checkbox"/>	PRTMNF021_L	PRTMNF021_L Locations
<input type="checkbox"/>	PRTBX122	PRTBX122
<input type="checkbox"/>	PRTBX050	PRTBX050
<input type="checkbox"/>	PRTBX122C	PRTBX122C
<input type="checkbox"/>	PRTBX123	PRTBX123
<input type="checkbox"/>	PRTBX130	PRTBX130
<input type="checkbox"/>	PRTBX100	PRTBX100
<input type="checkbox"/>	PRTBX102_P	PRTBX102_P

9. Technical specifications

```
{ResultKey: "322132", LayoutName: " MA_FO_CR_1419.rdl", LanguageCode: "en",...}
```

1. Copies: "1"
2. Email: ""
3. LanguageCode: "en"
4. LayoutName: " MA_FO_CR_1419.rdl"
5. LogicalPrinter: "PRTBX040C"
6. NumberFormatting: "en-US"
7. Pages: null
8. ResultKey: "322132"