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| COA- ALL-221 COA - Automated Publish COA Template to Voyage (Back End)  Functional Specification | |
| Department: CMA CGM Commercial Allocation  Project: *DATAWAYS*  JIRA ID: ALL-221  Author(s): *Infosys* | |
| Doc Reference:  Date:  Version:  Status: | ALL-221 COA - Automated Publish COA Template to Voyage (Back End)  12-Jul-2024 0.1 Draft To Be Reviewed |
| Classification: **Internal** | |

REVISIONS

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| **Version** | **Date** | **Author** | **Subject** |
| 0.1 | 12-Jul-2024 | Ben Paul | Document creation |

APPROVALS

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# - Requirements

|  |  |
| --- | --- |
| **Requirement ID** | **User Story / Requirement Description** |
| ALL-221 | COA - Automated Publish COA Template to Voyage (Back End) |

## 

### Document References

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Reference** | **Description** | **Version** | **Date** | **Author** |
| ALL-139 | Roles and Authorization | JIRA | NA | Ellina Galchenko |
| ALL 46 | Manually Publish COA Template to Voyage (Screen). | JIRA | NA | Kumar Abhishek |
| ALL 44 | Manually Publish COA Template to Voyage (Back End). | JIRA | NA | Kumar Abhishek |

### New or Modified Objects

|  |  |
| --- | --- |
| **Components involved and purpose (Part of technical Document)** | |
|  | N/A |

### Acronyms & Glossary

|  |  |  |
| --- | --- | --- |
| **Term** | **Acronym** | **Definition** |
|  |  |  |
|  |  |  |

# 

# Detailed Designs

### Business Context and Scope

This document provides a detail on the navigation features and necessities for a user to be able to automate publish COA template values and structure to selected voyages.

It will also allow user to make changes at different levels of the template and publish those changes as well into the selected voyages. These are based on “**ALL-221** **COA - Automated Publish COA Template to Voyage (Back End)**” user story.

### Business Constraints or Assumptions

Assumption is that master data is up-to date and synchronized as per business needs to access and display right information on the list of COA template.

***Disclaimer: User must be having required authorization and access to the Cargo Flow Portal. (covered in user story ALL-139 COA-Roles and Authorization)***

### Functional Solution Risk

NA

### Requirement Details

User wants to be able to update and publish data of a COA template to the selected voyages. User should be able to automate and publish any changes made to the different levels of a COA template or automate publish details of a new COA template to the selected voyages.

### Process Flow and Domain Entities

### UI / UX Design

### Validation and Rules

Below are the detailed definitions for attributes, buttons, and error messages in search & display and editing boundary templates.

| SR | Label or Fields | Description | F | A | D | List | Rules |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |

**Legend**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Format | CB | Check Box | Attribute | M | Mandatory | Display | D | Field disabled |
| FA | Field alpha | O | Optional | E | Field Enabled |
| FN | Field numeric |  |  | R | Read Only |
| LOV | List of Value |  |  | H | Hidden |
| DA | Date |  |  |  |  |
| BT | Button |  |  |  |  |
| DT | Date Time |  |  |  |  |

### Setups and configurations

Not Available

### Processing definition

Following business rules must be implemented:

|  |  |
| --- | --- |
| **ALL-221 COA - Automated Publish COA Template to Voyage (Back End)** | |
| **BR01** | **Template Publishing to Voyage**  Below two templates are considered for automated publishing   1. **Assigned Template**: An assigned template is by which, a template assigned to a voyage before publishing [ALL 46 Manually Publish COA Template to Voyage (Screen)]  * The template which is selected for automated publishing needs to be the last active version.  1. **Blank Template:** A blank template is by which applied to all-others at all levels with blank values  * The default blank template to be applied on Allocation tab for log and short leg * In operational restrictions, it will all be all others under POL, POD and Cargo Type. |
| **BR02** | **Triggering Logic of Automated COA template publishing to Voyage**  There are two logical cases for triggering the COA template to Voyage   1. At Voyage Creation 2. At Vessel Change   **At Voyage Creation**  **Assigned Template:**   * when an appropriate voyage is created in C-Voyage an action of event is triggered. This event will accompany a payload file. The payload contains all the end-to-end information’s of the voyage * CFS will consume those payloads generated by the C-VOYAGE which has all the information such as CVNs, Port details, carrier’s etc. Based on the payload, CFS will internally create the voyage rows, Port rows etc. Once those are created in CFS. CFS will trigger another event * COA needs to consume those event payload’s from CFS based on this COA needs to create allocation document.   + - Commercial allocation document will be created for each voyage for each CVN     - Once the event is read, a header COA will be created usually an ID which determines the connection of voyage with respect to COA     - A document ID in COA will determine the CVN     - Based on CVN, vessels/ports links are identified     - Check whether any assigned template is associated with the vessel * If there is any assigned template to a vessel, the template needs to be triggered automatically to the voyage.   **Default Template:**  Default template will not have assigned vessels. If voyage that has been created in C-Voyage does not have assigned template default template will be applied (E.g.: if 12 voyages are created and 1st one has the assigned template the 2nd one does not have any the default template will be used).   * The above logic is applicable for default template as well, but there will not be any assigned template to the vessel it needs to check the port call ID of the voyage which is an operational attribute and then associate the same with the nodes all others in COA, which means any booking that comes will be associated to all others and consumed. * Considering the above logic default template needs to be triggered automatically to the voyage.   **At Vessel Change**  In this case: There will be a template which is not part of an assigned template. In C-voyage, the voyage before the second voyage(which is the linked voyage), the vessel will be replaced with another vessel which has assigned template for the same CVN. The CVN is associated to a vessel which has an assigned template. The template needs to be re-published which as vessel assigned to it which matches the replaced new vessel.  E:g.   * In CMA CGM, user did not assign a vessel and going to hire a new vessel, so user uses the vessel name as TBN(To be named) * This process happens in November 2023 and actual Voyage is planned on March 2024. User knows what vessel must be placed for this CVN by about January 2024. * So, what user do in C-Voyage they phase out the TBN vessel which is fake vessel and they Phase in the new vessel, and the new vessel will join from the first port of the CVN * This is the case, user knows the name of the vessel and this process is called as phase in and phase out. (Phase out TBN and the phase in the new vessel)   **CMA CGM has an assigned template, but user already created a COA with TBN (because it's unassign) now you must re-publish an assigned template back to the same voyage.**  **Based on the new template the booking consumption needs to be done.** |
| **BR03** | **Triggering of Automated COA template when voyage created in C-Voyage**  The Automated COA template publishing, to be performed when a voyage created in C-voyage (default template, except is assigned vessel).  The Above same cases to be considered [BR02]   1. At Voyage creation 2. At Vessel Change |
| **BR04** | **Voyage Omission & Re-Addition Case**  At Voyage level, when a voyage is omitted initially and later the same voyage is re-added/un-omitted again. In such a scenario’s the template needs to be automatically re-launched/re-published/re-enabled   * This case will be the blank sail or the deleted sail * To identify the sail (whether it is a blank sail or deleted sail) a flag is available in CFS * When a voyage is blank sail or when a voyage is deleted, need to flag COA as sail or deleted with all the values and to query in UI with no changes * If the same voyage is re-added, template needs to be re-publish the on the same voyage |
| **Note** | For screen level functions, please refer to **ALL 46 Manually Publish COA Template to Voyage (Screen).** |
| **Note** | For back end level functions, please refer to **ALL 44 Manually Publish COA Template to Voyage (Back End).** |

### Functional Test Cases

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case #** | **Rule** | **Functional Test** | **Expected Results** |
| **ALL-221 COA - Automated Publish COA Template to Voyage (Back End)** | | | |
| **TC01** | BR01 | **Template Publishing to Voyage** | Automated publishing of templates  **Assigned Template**  **Blank Template** |
| **TC02** | BR02 | **Triggering Logic of Automated COA template publishing to Voyage** | There are two logical cases for triggering the COA template to Voyage   1. At Voyage Creation 2. At Vessel Change |
| **TC03** | BR03 | **Triggering of Automated COA template publishing** | Performed when a voyage created in C-voyage (default template, except is assigned vessel). |
| **TC04** | BR04 | **Voyage Omission & Re-Addition Case** | * when a voyage is omitted initially and later the same voyage is re-added/un-omitted again. * In such a scenario’s the template needs to be automatically re-launched/re-published/re-enabled |

# - Technical Details (Optional)

Technical solution will be done by architect and development teams.

- End of document –