

## System and Software Design Specification, Config Item: BI-IT-DEVSTACK

### Stack Information

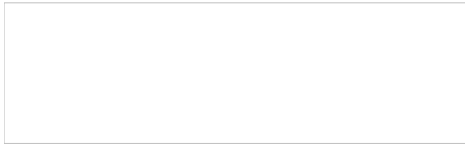
|                                  |   |
|----------------------------------|---|
| Name:                            | Project frml24113                                 |
| Description:                     | Description of frml24113.                         |
| Version:                         | 4.0/5   |
| Date Created:                    | \${json-unit.any-string}                          |
| Git Commit:                      | 1e84b5100e09d9b6c5ea1b6c2ccee8957391beec          |
| Git Tag:                         | ods-generated-v3.0-3.0-0b11-D                     |
| Git URL:                         | https://bitbucket/scm/ofi2004/ofi2004-release.git |
| OpenShift Cluster API URL:       | https://openshift-sample                          |
| Created by Jenkins Job Name:     | ofi2004-cd/ofi2004-cd-release-master              |
| Created by Jenkins Build Number: | 666   |

## System and Software Design Specification incl. Source Code Review Plan for 'Project frml24113'

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## 1 INTRODUCTION



## 2 OVERVIEW

### 2.1 SYSTEM DESIGN OVERVIEW INCL. SYSTEM DIAGRAM

### 2.2 SOFTWARE DESIGN OVERVIEW

### 2.3 SOURCE CODE REVIEW OVERVIEW

A Bitbucket Pull Request (PR) is where contributors and reviewers meet to discuss and assert the readiness of a contribution to a Bitbucket repository comprising code, tests, configuration, or a combination of these.

A person who creates a PR gets attributed as its author and nominates at least one reviewer. Once mandatory changes requested by the reviewers have been incorporated by the contributors, reviewers can approve the PR. An approval permits that the approved contribution can be merged from a temporary source branch into a longer living target branch inside the repository.

The following table lists all PRs which have been approved and merged into a Bitbucket repository's integration branch:

| Date       | Component                | Author   | Reviewer   | Commit SHA and URL   |
|------------|--------------------------|--|--|--|
| 2021-03-16 | edpt3-demo-app-front-end | <ul style="list-style-type: none"> <li>project-admin, project-admin@edp.com</li> </ul> | <ul style="list-style-type: none"> <li>project-admin, project-admin@edp.com</li> </ul>   | <ul style="list-style-type: none"> <li>SHA: 3e11de659989b1944a4b0528e467108f6373b755</li> <li><a href="http://bitbucket.odsbox.lan:7990/projects/EDPT3/repos/edpt3-demo-app-front-end/pull-requests/1">http://bitbucket.odsbox.lan:7990/projects/EDPT3/repos/edpt3-demo-app-front-end/pull-requests/1</a></li> </ul> |
| 2021-03-16 | edpt3-demo-app-front-end | <ul style="list-style-type: none"> <li>openshift, openshift@example.com</li> </ul>     | <ul style="list-style-type: none"> <li>project-admin, project-admin@edp.com</li> </ul>   | <ul style="list-style-type: none"> <li>SHA: 34d300361c1ba798c0adec984b0dfe3e473b472e</li> <li><a href="http://bitbucket.odsbox.lan:7990/projects/EDPT3/repos/edpt3-demo-app-front-end/pull-requests/1">http://bitbucket.odsbox.lan:7990/projects/EDPT3/repos/edpt3-demo-app-front-end/pull-requests/1</a></li> </ul> |
| 2021-03-17 | edpt3-demo-app-front-end | <ul style="list-style-type: none"> <li>project-admin, project-admin@edp.com</li> </ul> | <ul style="list-style-type: none"> <li>project-team-member, project-team-member@edp.com</li> <li>project-admin, project-admin@edp.com</li> </ul> | <ul style="list-style-type: none"> <li>SHA: 16770356fe981d00115e978ce31199f4371af5d9</li> <li><a href="http://bitbucket.odsbox.lan:7990/projects/EDPT3/repos/edpt3-demo-app-front-end/pull-requests/2">http://bitbucket.odsbox.lan:7990/projects/EDPT3/repos/edpt3-demo-app-front-end/pull-requests/2</a></li> </ul> |
| 2021-03-17 | edpt3-demo-app-front-end | <ul style="list-style-type: none"> <li>openshift, openshift@example.com</li> </ul>     | <ul style="list-style-type: none"> <li>project-team-member, project-team-member@edp.com</li> <li>project-admin, project-admin@edp.com</li> </ul> | <ul style="list-style-type: none"> <li>SHA: 69a7c95ddb20bce08f6e01bf067927a1d7bf6e7c</li> <li><a href="http://bitbucket.odsbox.lan:7990/projects/EDPT3/repos/edpt3-demo-app-front-end/pull-requests/2">http://bitbucket.odsbox.lan:7990/projects/EDPT3/repos/edpt3-demo-app-front-end/pull-requests/2</a></li> </ul> |
| 2021-03-17 | edpt3-demo-app-front-end | <ul style="list-style-type: none"> <li>openshift, openshift@example.com</li> </ul>     | <ul style="list-style-type: none"> <li>project-team-member, project-team-member@edp.com</li> <li>project-admin, project-admin@edp.com</li> </ul> | <ul style="list-style-type: none"> <li>SHA: 0e37d77af184bad786dcd07ee6e43c7430f66e7d</li> <li><a href="http://bitbucket.odsbox.lan:7990/projects/EDPT3/repos/edpt3-demo-app-front-end/pull-requests/2">http://bitbucket.odsbox.lan:7990/projects/EDPT3/repos/edpt3-demo-app-front-end/pull-requests/2</a></li> </ul> |

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|            |                        |  |  |  |
|------------|------------------------|--|--|--|
| 2021-03-16 | edpt3-demo-app-backend | <ul style="list-style-type: none"> <li>project-team-member, project-team-member@edp.com</li> </ul> | <ul style="list-style-type: none"> <li>project-team-member, project-team-member@edp.com</li> </ul> | <ul style="list-style-type: none"> <li>SHA: c2193652ed488744560c686cdd0e7e3c1dfa6b0f</li> <li><a href="http://bitbucket.odsbox.lan:7990/projects/EDPT3/repos/edpt3-demo-app-backend/pull-requests/1">http://bitbucket.odsbox.lan:7990/projects/EDPT3/repos/edpt3-demo-app-backend/pull-requests/1</a></li> </ul> |
| 2021-03-16 | edpt3-demo-app-backend | <ul style="list-style-type: none"> <li>openshift, openshift@example.com</li> </ul>                 | <ul style="list-style-type: none"> <li>project-team-member, project-team-member@edp.com</li> </ul> | <ul style="list-style-type: none"> <li>SHA: 7a87b0122c90478eabf481b2fc04059260715fee</li> <li><a href="http://bitbucket.odsbox.lan:7990/projects/EDPT3/repos/edpt3-demo-app-backend/pull-requests/1">http://bitbucket.odsbox.lan:7990/projects/EDPT3/repos/edpt3-demo-app-backend/pull-requests/1</a></li> </ul> |
| 2021-03-16 | edpt3-demo-app-backend | <ul style="list-style-type: none"> <li>project-admin, project-admin@edp.com</li> </ul>             | <ul style="list-style-type: none"> <li>project-admin, project-admin@edp.com</li> </ul>             | <ul style="list-style-type: none"> <li>SHA: 59d9348a4df5e40260ec930053409aba163ebb69</li> <li><a href="http://bitbucket.odsbox.lan:7990/projects/EDPT3/repos/edpt3-demo-app-backend/pull-requests/2">http://bitbucket.odsbox.lan:7990/projects/EDPT3/repos/edpt3-demo-app-backend/pull-requests/2</a></li> </ul> |
| 2021-03-16 | edpt3-demo-app-backend | <ul style="list-style-type: none"> <li>openshift, openshift@example.com</li> </ul>                 | <ul style="list-style-type: none"> <li>project-admin, project-admin@edp.com</li> </ul>             | <ul style="list-style-type: none"> <li>SHA: 7da0c41dbbbe5c1af6d497a8fb31f87fbc55e33b</li> <li><a href="http://bitbucket.odsbox.lan:7990/projects/EDPT3/repos/edpt3-demo-app-backend/pull-requests/2">http://bitbucket.odsbox.lan:7990/projects/EDPT3/repos/edpt3-demo-app-backend/pull-requests/2</a></li> </ul> |

### 3 SYSTEM DESIGN PROFILE AND SYSTEM DESCRIPTION

#### 3.1 SYSTEM DESIGN PROFILE

The system has the following system design specifications:

| SSDS #        | Detailed Technical/Functional Specification | Traces To:    |
|---------------|---|---------------|
| FRML24113-164 | TST CONTINUED                               | FRML24113-162 |
| FRML24113-186 | TST ADDED                                   | FRML24113-184 |
| FRML24113-171 | TST MODIFIED                                | FRML24113-268 |
| FRML24113-275 | TST to Modify - Modified                    | FRML24113-273 |

#### 3.2 SYSTEM DESCRIPTION

□

##### 3.2.1 Modules to be developed

The following modules (components) will be developed.

| Name of module | Purpose         |
|----------------|-----------------|
| release        | myDescription-A |
| thefirst       | myDescription-A |
| thesecond      | myDescription-A |

##### 3.2.2 Interfaces between Modules

| Interface   | Between Module | And Module | Purpose |
|-------------|----------------|------------|---------|
| Interface A | backend        | frontend   |         |

##### 3.2.3 Interfaces to External Systems

## System and Software Design Specification, Config Item: BI-IT-DEVSTACK

| Interface | Between Module | And External System | Purpose |
|-----------|----------------|---------------------|---------|
| BI-IF-    | backend        |                     |         |

### 3.2.4 System Diagram

< A system diagram to graphically represent the module and interface information should be included here. > - Only if different from the diagram in the 2.1 section

#### **4 ARCHITECTURE OF THE SYSTEM**

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### 5 SYSTEM COMPONENTS

#### 5.1 SYSTEM COMPONENTS LIST

This system is composed of the following components:

| SSDS #               | Type of Component      | Identification (Config. Item) | Functionality/Purpose | Components Specifications (Section/Doc ID) |
|----------------------|------------------------|-------------------------------|-----------------------|--|
| Technology-spock     | Automated tests        | spock                         | myDescription-A       | see <a href="#">Section 5.2</a>            |
| Technology-release   | ODS Software Component | release                       | myDescription-A       | see <a href="#">Section 5.2</a>            |
| Technology-thefirst  | ODS Software Component | thefirst                      | myDescription-A       | see <a href="#">Section 5.2</a>            |
| Technology-thesecond | ODS Software Component | thesecond                     | myDescription-A       | see <a href="#">Section 5.2</a>            |

#### 5.2 SYSTEM COMPONENTS SPECIFICATIONS

The installation comprises the following software-defined components, except where denoted otherwise:

| SSDS #               | Name of Software | Supplier     | Version     | Description of Functionality | References     | Installed by ODS |
|----------------------|------------------|--------------|-------------|------------------------------|----------------|------------------|
| Technology-spock     | spock            | mySupplier-A | myVersion-A | myDescription-A              | myReferences-A | false            |
| Technology-release   | release          | mySupplier-A | WIP         | myDescription-A              | myReferences-A | true             |
| Technology-thefirst  | thefirst         | mySupplier-A | WIP         | myDescription-A              | myReferences-A | true             |
| Technology-thesecond | thesecond        | mySupplier-A | WIP         | myDescription-A              | myReferences-A | true             |

#### 5.3 UTILISATION OF EXISTING INFRASTRUCTURE SYSTEMS

| Name of Infrastructure System  | Documentation Reference |
|--|-------------------------|
| <a href="#">BI-IT-APPL-LOAD-BALANCING</a>  |                         |
| <a href="#">ITEMS doc ID 20108828</a>  |                         |
| <a href="#">BI-IT-AD</a>   |                         |
| <a href="#">ITEMS doc ID 20095172</a>  |                         |
| <a href="#">BI-RT-WINDOWSSERVER</a>  |                         |
| <a href="#">Infrastructure Release Design and Management ITEMS doc ID 20184916</a> |                         |

#### 5.4 UTILISATION OF EXISTING INFRASTRUCTURE SERVICES



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| Name of Infrastructure Service | Documentation Reference   |
|--------------------------------|---|
| Monitoring                     | <i>Standard Monitoring (Baseline Monitoring) on component level is sufficient<br/>System specific Monitoring Plan required<br/>ITEMS doc ID ?..</i>   |
| Backup                         | <i>Standard Backup on component level is sufficient<br/>System specific Backup Plan required<br/>ITEMS doc ID ?..<br/>**</i>                          |
| Restore & Recovery             | <i>Standard Restore &amp; Recovery on component level is sufficient<br/>System specific Restore &amp; Recovery Plan required<br/>ITEMS doc ID ?..</i> |

## **6 CONFIGURATIONS FOR ADDITIONAL ENVIRONMENTS**

### **6.1 DEVELOPMENT ENVIRONMENT**

N/A

### **6.2 QA/TEST ENVIRONMENT**

N/A

### **6.3 TRAINING ENVIRONMENT**

< Insert statements, if applicable >

< Set the colour to black in the 'EDP Content' field before marking this issue as DONE >

## 7 ENVIRONMENTAL CONDITIONS

< Describe the environmental conditions required for the system. A reference to an existing qualified computer room may be given. The following conditions should be considered: e.g. temperature, humidity, power conditions, physical security, etc. >

## 8 SOFTWARE DESIGN PRINCIPLES

< The principles that may be included are:

- General layout rules for windows and reports
- Audit trail implementation
- Access control measures
- User administration
- Function key assignments
- Minimum requirements (resources) needed for the application to run properly, both hardware (e.g. storage space) as well as software (such as operating system, drivers).>

## 9 SYSTEM DATA

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### 10 MODULE DESCRIPTION

This system contains the following modules (components) that are going to be developed.

#### RELEASE

| Component Name | Type of Module         | Source code location | Version |
|----------------|------------------------|----------------------|---------|
| release        | ODS Software Component | mySupplier-A         | WIP     |

myDescription-A

#### THEFIRST

| Component Name | Type of Module         | Source code location | Version |
|----------------|------------------------|----------------------|---------|
| thefirst       | ODS Software Component | mySupplier-A         | WIP     |

myDescription-A

For the GAMP topic *security requirements*, the following requirements are covered by the SSDS above:

| Req #         | Requirement   |
|---------------|---|
| FRML24113-268 | Story MODIFIED (from FRML24113-169)<br>Story MODIFIED - Description |

For the GAMP topic *availability requirements*, the following requirements are covered by the SSDS above:

| Req #         | Requirement                                      |
|---------------|--|
| FRML24113-162 | Story CONTINUED<br>Story CONTINUED - Description |

#### THESECOND

| Component Name | Type of Module         | Source code location | Version |
|----------------|------------------------|----------------------|---------|
| thesecond      | ODS Software Component | mySupplier-A         | WIP     |

myDescription-A

## 11 MODULES TO BE REVIEWED

The following modules will be reviewed.

| Name of module | Functionality   | References to SSDS             |
|----------------|-----------------|--------------------------------|
| release        | myDescription-A | see <a href="#">Section 10</a> |
| thefirst       | myDescription-A | see <a href="#">Section 10</a> |
| thesecond      | myDescription-A | see <a href="#">Section 10</a> |

## **12 CODING REVIEW RESULTS**

Detailed results of the coding review can be seen within the individual approved and merged Bitbucket Pull Requests in section 2.3.



## 13 DEFINITIONS AND ABBREVIATIONS

### 13.1 DEFINITIONS

| Term    | Definition   |
|---------|--|
| Jenkins | Build engine supplied by cloudbees - part of OpenDevStack (BI-IT-DEVSTACK) |
| xUnit   | Unit testing framework, aggregaults across multiple languages              |

### 13.2 ABBREVIATIONS

| Abbreviation | Meaning                         |
|--------------|---------------------------------|
| ODS          | OpenDevStack                    |
| EDP          | Enterprise Development Platform |

## 14 REFERENCE DOCUMENTS

- Combined Specification Document (version BI-IT-DEVSTACK / 5-WIP)
- [Reference document 1](#)
- [Reference document 2](#)

**15 DOCUMENT HISTORY**

| Version | Date  | Author | Change Reference   |
|---------|---|--------|--|
| 1       | See Summary of electronic document or signature page of printout. |        | Initial document version.  |
| 2       | See Summary of electronic document or signature page of printout. |        | <p>Modifications for project version '2.0'.<br/>The following requirements were added:</p> <ul style="list-style-type: none"> <li>• FRML24113-184</li> </ul> <p>The following techSpecs were added:</p> <ul style="list-style-type: none"> <li>• FRML24113-186</li> </ul>  |
| 3       | See Summary of electronic document or signature page of printout. |        | <p>Modifications for project version '3.0'.<br/>The following requirements were removed:</p> <ul style="list-style-type: none"> <li>• FRML24113-174</li> </ul> <p>The following requirements were changed:</p> <ul style="list-style-type: none"> <li>• FRML24113-268 was previously FRML24113-169</li> </ul> <p>The following techSpecs were removed:</p> <ul style="list-style-type: none"> <li>• FRML24113-176</li> </ul> |
| 4.0/4   | See Summary of electronic document or signature page of printout. |        | <p>Modifications for project version '4.0'.<br/>The following requirements were added:</p> <ul style="list-style-type: none"> <li>• FRML24113-273</li> </ul> <p>The following techSpecs were added:</p> <ul style="list-style-type: none"> <li>• FRML24113-275</li> </ul>  |
| 4.0/5   | See Summary of electronic document or signature page of printout. |        | <p>Modifications for project version '4.0'. This document version invalidates the changes done in document version '4.0/4'.<br/>The following requirements were added:</p> <ul style="list-style-type: none"> <li>• FRML24113-273</li> </ul> <p>The following techSpecs were added:</p> <ul style="list-style-type: none"> <li>• FRML24113-275</li> </ul>  |

## System and Software Design Specification, Config Item: BI-IT-DEVSTACK

The following table provides extra history of the document.

| Version | Date  | Author | Reference |
|---------|---|--------|-----------|
|         | See summary of electronic document or signature page of printout. |        |           |