Requirements Definition Document

Connected Commerce (ROPO)

– MDNI 2014-2015

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# Document Control

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**Revision history**

| Version | Issue date | Author/editor | Description/Summary of changes |
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| 0.1 | 08 Oct 2014 | Kishor Chockalingam | Created template |
| 0.2 | 08 Oct 2014 | Kishor Chockalingam | Created requirements FR2.1.1,FR2.1.2,HSR2.3.1,HSR2.3.2,HSR2.3.3,HSR2.3.4,HSR2.3.5,HSR2.3.6,TR2.2.1,TR2.2.2 |
| 0.3 | 13 Oct 2014 | Kishor Chockalingam | Added the Functional representation diagram to introduction section. |

**Reviewed by**

| Version | Issue date | Name | Position | Review date |
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**Approvals**

Approval refers to the approver’s acceptance of the content and overall intention of this document, including acceptance of any commitments described in order to successfully deliver the initiative. The approver, where relevant, also confirms that this document complies with relevant strategies, policies and regulatory requirements.

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# Table of Contents

[1. Introduction 5](#_Toc401150700)

[2. Current System 5](#_Toc401150701)

[3. Requirements 5](#_Toc401150702)

[3.1 Functional Requirements 6](#_Toc401150703)

[3.2 Technical Requirements 7](#_Toc401150704)

[3.3 System Requirements 7](#_Toc401150705)

[3.3.1 Hardware / Software 7](#_Toc401150706)

[3.4 Non- Functional Requirements 7](#_Toc401150707)

[4. Constraints 7](#_Toc401150708)

[5. Assumptions 7](#_Toc401150709)

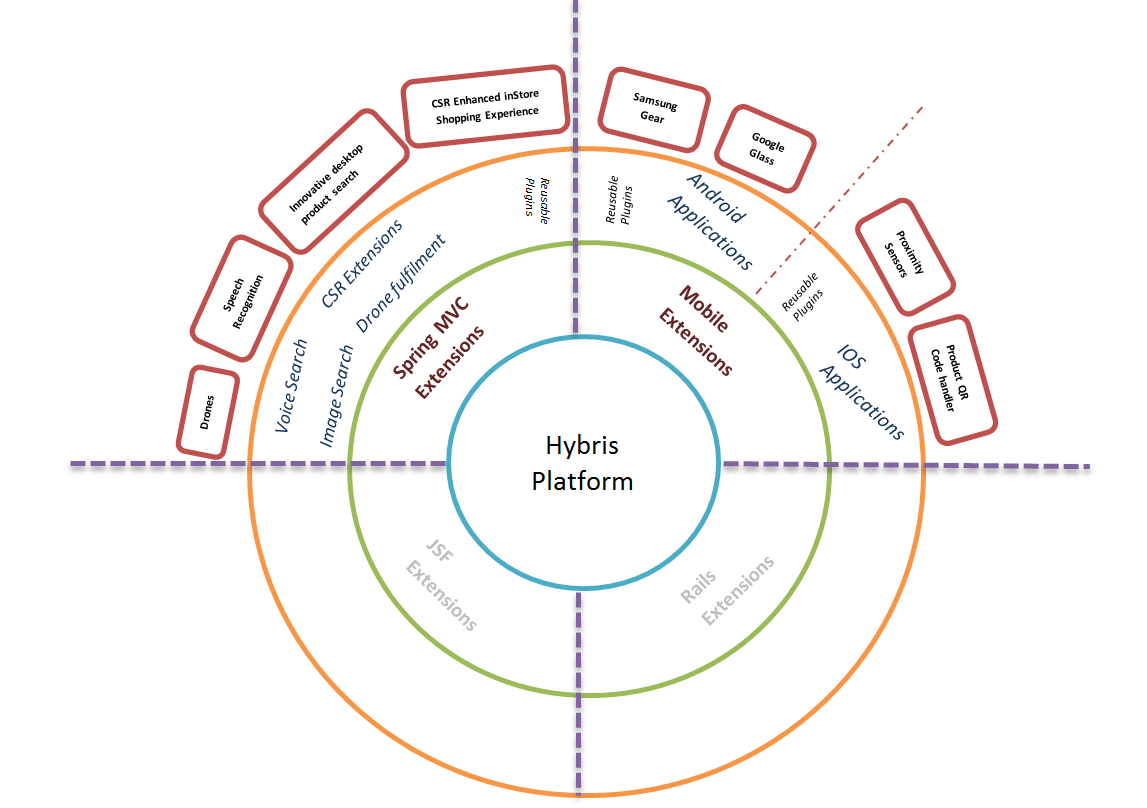
[6. Dependencies 8](#_Toc401150710)

[7. Risks 8](#_Toc401150711)

[8. References 8](#_Toc401150712)

# Introduction

**Connected** **Commerce** is an initiative to create and Architect, reusable framework that would enable e-commerce platforms to interact with connected devices like iBeacon, Galaxy Gear, Nike fuel-band, Google glass etc. This framework shall be re-used by the delivery teams to accelerate their development effort. This document contains detailed use cases that will help in creating independent demonstrable features. These features shall be developed as portable plug-ins, which can be re-used while developing any web/mobile application appropriately.



# Current System

The existing system allows the user to browses a product at home PC or Mobile and show interest in a product but does not buy it. When the same customer visits the store, the mobile application receives command from proximity sensors (iBeacon) to alert a Store representative (CSR) about the preference and choice of that customer. This will enable CSR to make more personalized sales pitch and would also help him close deal faster.

# Requirements

All requirements are defined in point form and are rated either Mandatory (M) or Highly Desirable (HD) or Desirable (D), dependent on business need.

## Functional Requirements

| **ID** | **Requirement** | **Preference** |
| --- | --- | --- |
|  | Get the current system ready for demo. | M |
|  | QR code reader to be integrated with iPhone app:-   1. User scans the QR code off a product from inside the store, using an iPhone (app) 2. The iPhone app, receives the product’s pdp url from the QR code and loads that products PDP within the app 3. Customer using the app, proceeds from PDP page to place the order 4. Once the order is placed:    1. The app sends notification to the CSR web application via web service call. This notification instructs the CSR agent to have that product(s) readied for hand over to the customer.    2. The app notifies the customer to collect the product(s) from a particular counter inside the store.    3. The app generates a secret unique customer & order identifier [UCOID] on the fly based on order id, customer id, DOP, etc. and shares it to the customer 5. The CSR agent generates invoice, packs the product and updates the order status to ready\_for\_pickup\_over\_the\_counter 6. Customer approaches the counter as per the app notification and asks the CSR agent for the product and provide him with the UCOID 7. The CSR agent keys in the UCOID in the CSR web application, to retrieve the order details, then hands over the correct product(s) to the customer 8. The CSR agent marks the order status to fulfilled\_over\_the\_counter | HD |
|  | Voice search for products:-   1. Customers who are accessing the store web application over a laptop can give input to the product search text box through voice. 2. Customers who are accessing the store IOS application over a iPhone can give input to the product search text box through voice. | HD |
|  | Locate product inside the store:-   1. User views pdp page of a product in a mobile device. 2. The pdp page provides an option to locate the product inside the store 3. Customer chooses that option 4. An store map opens and locates the customer’s position inside the store using proximity sensors (iBeacons) installed inside the stores. 5. The app provides step by step navigation to the user to the product location shelf | D |
|  | Image search for products:-   1. Customers who are accessing the store web application over a laptop can give input to the product search text box by dragging and dropping a product image into it. | D |

## Technical Requirements

| **ID** | **Requirement** | **Preference** |
| --- | --- | --- |
|  | Requirement FR2.1.3 shall be implemented using Google tool kit |  |
|  | Requirement FR2.1.3 (part 1) shall be implemented as a plug and use component. Shall be developed in a way that it can be integrated with ATG, Hybris & WCS in future. |  |
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## System Requirements

### Hardware / Software

| **ID** | **Requirement** | **Preference** |
| --- | --- | --- |
|  | iPhone 5s – 2 nos | M |
|  | Unix server on the cloud with full access | D |
|  | Wifi (dongle) with internet connection | D |
|  | iPads for CSR agent | D |
|  | Laptop – 1 nos (min) | M |
|  | iBeacon instrument – 1 nos | D |
|  | Eclipse | M |
|  | Hybris 5.0 | M |
|  | VLan for developer machines – required for SVN server setup and use. | HD |
|  | Samsung Gear – watch | D |
|  | Google Glass | D |

## Non- Functional Requirements

| **Requirement ID** | **Non functional requirement** | **Preference** |
| --- | --- | --- |
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# Constraints

Constraints that inhibit the project’s ability to deliver the requirements

| **Requirement ID** |  |
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# Assumptions

| **Requirement ID** |  |
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# Dependencies

| **Requirement ID** |  |
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# Risks

| **Requirement ID** |  |
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# References