

**Push Notificaiton**

**Product Requirements Document (PRD)**

***V0.2***

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**Project:** SYNC+

Contents

1 General Assumptions 3

2 IVI notification pushing from backend 3

2.1 Description 3

2.2 Assumptions 3

2.3 User Stories 3

2.4 Requirements 3

3 High Level functional Priorities 4

4 Architecture Design 5

5 Non-functional requirements 5

5.1 Performance requirements 5

5.2 Service availability 5

6 Classification Key 5

7 Document Status Key 5

8 Terms, Acronyms and Definitions 5

9 Changes 7

10 Contacts 7

11 Appendix 7

# General Assumptions

* The vehicle is equipped with SYNC+ system.
* The IVI is connected to the internet, either via the in-vehicle embedded modem or connected to a Wi-Fi hotspot.
* The vehicle has been activated and account has been logged in regarding those features that need login IVI to work.

# IVI notification pushing from backend

## Description

This feature enbales Ford/Licoln to push notifications to SYNC+ IVI based on operation requirements, such as:

* Marketing and promotion activties
* Survey
* Recall
* Others

## Assumptions

The FordPass app has an exising tool to push messages the the app. It is independent from the scope of this PRD. Separate requirements should be documented if the app and IVI notification need to integrated In the long term.

The user and permission control related to who can access the function (e.g. web portal) requirements is TBD, pending business team to clarify whether to use existing system and create new one.

In addition, the apps on SYNC+ IVI have already realized the notification function.

Therefore, this PRD only focus on the pusing notification from Ford backend.

## User Stories

|  |  |
| --- | --- |
| **User Story ID** | **User Story** |
|  | As a member of operation team, I would like to push notifications to SYNC+ IVI via a web portal when needed. |
|  | As a member of operation team, I would like to push notifications to SYNC+ IVI to specific vehicles by VINs. |
|  | As a member of operation team, I would like to push notifications to SYNC+ IVI to specific vehicles by vehicle make/models. |
|  | As a member of operation team, I would like to schedule a push notification task to SYNC+ IVI. |
|  | As a member of operation team, I would like to edit the message content before sending out the message. |
|  | As a member of operation team, I would like to know pushing notification report by event and date. |

## Requirements

### Vehicle selection

The system shall **divide Ford and Lincoln notification data** as they are operated by different teams.

The system shall have en easy way to select VINs, for example by importing a sheet that contains a VIN list.

It shall support vehicle selection based on vehicle make and models, for example, Ford New Focus Active 2019.

The VINs shall be matched make/model data automatically or manually by the user.

### Message content editing

The conten edit shall indicate how much charactors have been entered.

A content preview is needed before sending the message out.

### Scheduing a notification pushing task

The function is intended for the delayed message sending.

e.g.

* How many tasks can be created in parallel? (e.g.10)
* Duration (e.g. 6 month)
* Task list
* Cancel a task
* Edit a task

### Report and statistics

The sytem shall provide a visual report in terms of:

* Volume of notification
* VINs
* Dates
* Make/Model (priority depends on feasibility)
* Unread/Read
* Delivery rates (TBD)

# High Level functional Priorities

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Function** | **Sub-function** | **Priority** | **MVP** | **Comments** |
| **Vehicle selection** | Input VINs | M |  |  |
| Import VINs from a sheet | H | √ |  |
| Sort VINs by Make/Model | M |  | Make/Model data can be imported from sheet together with VIN |
| VIN list preview | H | √ |  |
| **Message content editing** | Edit text | H | √ |  |
| Image upload | H | √ |  |
| Content preview | M | √ |  |
| **Schedule a task** | Edit a task | M |  |  |
| Cancel a task |  |  |  |
| View the task list |  |  |  |
| **Report and Statistics** | Volume of message sending out | H | √ |  |
| VINs delivered, by make/model | H |  |  |
| Read/Unread | M |  |  |
| Delivery rates | M |  |  |

# Architecture Design

TBD.

# Non-functional requirements

## Performance requirements

TBD.

## Service availability

(TBD)

The account log in service shall be available at 7×24h.

# Classification Key

|  |  |
| --- | --- |
| **Classification** | **Notes** |
| Proprietary | Information created or obtained in the normal course of business and not classified as Secret or Confidential |
| Confidential | Information that provides the Company with a competitive advantage, that supports its technical or financial position, and which, if disclosed without authorization, could cause damage to the Company. |
| Secret | Information of a strategic or highly sensitive nature that, if disclosed without authorization, would cause substantial, severe, or irreparable damage to the Company or its relationships. |

# Document Status Key

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| **Status** | **Notes** |
| DRAFT | Document currently being worked on. Shall not be used as a solid reference to information included in this document. |
| AFR | Available For Review. Document information is not eligible for changes. Approving manager will revise this document and if all the information is found to be completely valid, then the document will change to REL status. If the document is found to have errors, the document will change to DRAFT status. |
| REL | Released. Document is completely valid at time of review, and is now available to be used as a solid reference of information. |

# Terms, Acronyms and Definitions

|  |  |
| --- | --- |
| **Term or Acronym** | **Definition** |
| FordPass | Ford customer owner app installed on customer’s small phone |
| SYNC+ | An IVI system based on DuerOS and capabilities provided by Baidu, including Baidu navigation, voice recognition, Baidu online music, etc. |
| VIN | Vehicle Identification Number, which is the unique ID for a vehicle |
| HMI | Human Machine Interface. The infotainment display and controls provided by the vehicle. |
| IVI | The in-vehicle infotainment unit. |
| VR | Vocie recognition |

# Changes

|  |  |  |  |
| --- | --- | --- | --- |
| **Author** | **Date (YYYY/MM/DD)** | **Status** | **Notes** |
| Jwang308 | 2019/08/07 | DRAFT | Version 0.1 - Initial draft |
| Jwang308 | 2019/08/28 | DRAFT | Version 0.2 – Updated:  Lincoln and Ford data separation, added high level functional priorities |
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# Contacts

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# Appendix

1. 百度消息推送接口文档



1. 消息中心MRD

