

**Parivartan Common Data Approach**

Version 0.1

Prepared By

**Wipro Limited**



**Document Control**

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**Reference documents**

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Table of Contents

[1. Introduction 4](#_Toc49261686)

[1.1 Purpose 4](#_Toc49261687)

[1.2 Scope 4](#_Toc49261688)

[1.3 Definitions, Acronyms & Abbreviations 4](#_Toc49261689)

[2. Functional Requirement 5](#_Toc49261690)

[2.1 Common Masters in Exchange Platform 5](#_Toc49261691)

[2.1.1 Approach for common microservice 5](#_Toc49261692)

[2.1.2 User Management Module 6](#_Toc49261693)

[3. Appendix 7](#_Toc49261694)

# Introduction

## Purpose

The purpose of this document is to provide common data approach in Parivarthan.

## Scope

This document will cover below sections in technical design:

1. Need for common data

## Definitions, Acronyms & Abbreviations

|  |  |
| --- | --- |
| Acronym | Description |
| DHRM | Draft Red Herring Prospectus |
|  |  |
|  |  |

# Functional Requirement

Common data is required to be available across different garages in Exchange and Clearing Platform. This is

## Common Masters in Exchange Platform

Below are the common masters which will be part of global microservice in Exchange Platform:

1. State Master
2. City Master
3. Pincode Master
4. Holiday Master
5. Digital Signature Master
6. External User Master
7. Internal User Master
8. Role Master
9. Menu Master
10. Role to Menu Mapping Master
11. User to Role Mapping Master
12. Member Master – CM/ TM
13. Security Master
14. Contract Master
15. Bank Master

Categories of Data and examples required:

1. All read and only super admin can change.
2. One Garage own data and other read – garage specific
3. All garages own data and update. – common service
4. Data is owned by one platform and used by another platform: data exchange between two platforms

REST call is preferred.

Member Compliance, Member Services and Listing = Exchange Platform

Note: Check if payment details needs to be shared across garages with garage owners.

Component level access on a given page will not be handled as part of authorization but it needs to be handled at the page level code.

### Approach for common microservice

There are two approaches:

1. Approach 1:

Every microservice will be able to access all the global service endpoint by adding the below dependency in the respective application pom file  
<dependency>  
    <groupId>com.nseindia.global</groupId>  
    <artifactId>nsecommonservices</artifactId>  
    <version>0.0.1-SNAPSHOT</version>  
</dependency>

End points would be like:

/v1/global/state

/v1/global/pincode  
/v1/global/nseHoliday

2. Preparation of client jar for calling common API:

This can be taken up as part of common garage to check its feasibility.

### User Management Module

Microsoft LDAP will be utilized for Internal NSE user authentication.

For a given user, external user id in Exchange Platform and Clearing Platform will be different. There will not be any user exchange in both these platforms.

Access management modules will be same in both platforms which will be deployed same in both platforms.

UserID can have different formats in both these platforms.

TM will use both platforms. CP code modification from Clearing Platform.

User ID format can be same in both platforms.

External User Master (few fields):

1. ID
2. UserID
3. Password
4. User First Name
5. User Last Name
6. Email ID
7. Mobile Number
8. IsActive

Role Master:

1. Role ID
2. Role Name – used for display of role name on UI front end
3. Role Type – used for internal app routing purpose.
4. Level
5. IsActive

Menu Master (including menu as well as for subpages):

1. MenuID
2. MenuName
3. MenuLevel
4. ParentMenuID
5. MenuDisplayed: boolean
6. IsActive

UserRoleMapping:

1. UserID
2. RoleID
3. AccessType = (Read/ Write / Other)
4. IsActive

RoleAction:

1. ActionID
2. MenuID
3. ComponentName
4. Access (Read/ Write / Other)

If top level menu id is present in RoleMenuMapping then user will have access to all its child menu items. In case if access is required to be given at sub menu level excluding some of child menu items then access needs to be at that level.

Access is possible to assign at the lowest menu level.

RoleMenuMapping:

1. RoleID
2. MenuID
3. IsActive

Ends here

Garage 3 Microservice

Garage 2 Microservice

Garage 1 Microservice

Global Microservice

# Appendix

\*\*\*End of Document