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Prime Template

Service Design Document

wM Integration

Version 1.2 | November 2016

Version History

|  |  |  |
| --- | --- | --- |
| Version | Date | Description |
| 1.1 | August 2016 | Initial version |
| 1.2 | November 2016 | Basic quality assurance and latest Prime template applied |
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1. Purpose of document
   1. Intended Audience

List of teams who are involved in creation, review and approval processes of this document

* 1. Glossary
  2. Introduction

Description of the overall project/program this interface is built for.

* 1. Scope of design

What is in scope and what is out of scope for this interface?

1. Business Requirement
   1. Interface Description
   2. Business Overview Diagram

This section must have a business level diagram covering the interface endpoints and a table listing the steps and teams responsible for those. Example has been provided below

|  |  |  |
| --- | --- | --- |
| **Main Flow** | | |
| Step | **Description** | **Responsible system or party** |
| 1 | External Consumers access the service capabilities via Enteprise Gateway Server (Reverse Proxy) that is placed in the Sainsburys DMZ area. Enterprise Gateway Server passes the request to the Policy Enforcement Point (PEP) i.e. Mediator. | Consumer |
| 2 | Internal Consumers access the service capabilities via the Policy Enforcement Point (PEP) i.e. Mediator | Consumer |
| 3 | Mediator performs the following:   1. Authentication 2. Authorisation 3. Mediation (including Policy enforcement) 4. Passes the request to the services layer run-time | webMethods |
| 4 | Services layer interacts with Provider system to receive appropriate customer order data | webMethods |
| 5 | Provider System responds with data over web services | WCS/R10 |
| 5 | Responds back with appropriate information to Mediator | webMethods |
| 6 | Mediator responds back to Consumer | webMethods |
| 7 | Batch Integration will pull the online orders extracts from GOL and are saved to PDCC | webMethods |

Business Architecture OverView



1. Functional and Technical Description
   1. Technical Overview Diagram

This section must have a detailed technical diagram listing all ESB components used in building the interface. An example is provided here below:

Technical Architecture OverView



* 1. Technical Description

This section must explain in detail the configurations made for each of those components shown in diagram in 3.1.

<Description of all packages and services used>

|  |  |  |
| --- | --- | --- |
| **Package Name** | **Service Name**  **(Fully qualified name)** | **Package Dependencies (Package Name, Version)** |
|  |  |  |

* + 1. Service Level Description

Describe individual flow services and their functions here

* + - 1. Service <service name>:

<A brief description of what the flow service does and what are the source and target systems>

* + - 1. Service <service name>:

<A brief description of what the flow service does and what are the source and target systems>

* + 1. Schedulers

|  |  |
| --- | --- |
| **Configuration Name** | **Configuration Value** |
| Scheduler Description |  |
| Associated Service  (Fully Qualified namespace) |  |
| Run As User |  |
| Target Node |  |
| Schedule Details | Eg: Every day at 15:00, Every hour at xx:15 mins. |

* + 1. Document Types

|  |  |
| --- | --- |
| **Configuration Name** | **Configuration Value** |
| Document Type Name |  |
| Referenced in Packages |  |
| Publishable? |  |

* + 1. JMS Messaging Provider
       1. JNDI Provider Alias

|  |  |
| --- | --- |
| **Configuration Name** | **Configuration Value** |
| JNDI Alias Name |  |
| Predefined JNDI Templates | Broker/UM/File System/LDAP etc |
| Provider URL |  |

* + - 1. JMS Connection Alias

|  |  |
| --- | --- |
| **Configuration Name** | **Configuration Value** |
| Connection Alias Name |  |
| Transaction Type | No/Local/XA Transaction |
| Connection Client ID |  |
| Create Connection Using | JNDI Lookup/ Webmethods API |
| JNDI Provider Alias  (If Applicable) |  |
| Connection Factory Name  (If Applicable) |  |
| Broker Name  (If Applicable) |  |
| Broker Host:port  (If Applicable) |  |

* + 1. Triggers

|  |  |
| --- | --- |
| **Configuration Name** | **Configuration Value** |
| Trigger Name  (Fully qualified name) |  |
| JMS Connection Alias |  |
| Trigger Document(s) |  |
| Message Routing Service |  |
| Trigger processing | Serial/Concurrent |
| Trigger Joins  (If used) |  |
| Trigger Filter  (If used) |  |
| Transient Error handling used? |  |
| Resource Monitoring service  (If used) |  |
| Exactly once processing? |  |
| Document Resolver service used |  |

* + 1. Adapter Services

<For JDBC adapters>

* + - 1. Database Connection details:

|  |  |
| --- | --- |
| **Configuration Name** | **Configuration Value** |
| Connection Name |  |
| Connection Type |  |
| Package Name |  |
| Transaction Type |  |
| DataSource Class |  |
| serverName |  |
| user |  |
| password |  |
| databaseName |  |
| portNumber |  |
| networkProtocol |  |
| Other Properties | <Eg: driverType=thin> |
| Connection Pool settings | |
| Enable Connection Pooling |  |
| Minimum Pool Size |  |
| Maximum Pool Size |  |
| Pool Increment Size |  |
| Block Timeout (msec) |  |
| Expire Timeout (msec) |  |
| Startup Retry Count |  |
| Startup Backoff Timeout (sec) |  |

* + - 1. Adapter Service Details

<A brief description of the function of the adapter service>

|  |  |
| --- | --- |
| **Configuration Name** | **Configuration Value** |
| Service Name  (Fully qualified namespace) |  |
| Adapter Connection Used |  |
| Type of Adapter Template | Eg: Insert/Update/Delete/Dynamic/Custom etc |
| Tables Involved |  |
| Other Details |  |

* + 1. Adapter Notification Services

<A brief description of the function of the adapter service>

|  |  |
| --- | --- |
| **Configuration Name** | **Configuration Value** |
| Service Name  (Fully qualified namespace) |  |
| Adapter Connection Used |  |
| Type of Notification Template | Eg: Basic/Insert/Update/Delete etc |
| Notification Polling Interval |  |
| Buffer Table Name  (If Basic Notification) |  |
| Database Trigger Name  (If Basic Notification) |  |
| Monitoring Table Name |  |
| Notification Document Type |  |
| Subscribing Trigger for Notification Document |  |

* + 1. Web Services

<Description of WebService function>

|  |  |
| --- | --- |
| **Configuration Name** | **Configuration Value** |
| Service Name  (Fully qualified namespace) |  |
| Type of WSD | Consumer/Provider |
| WSDL url |  |
| Operations  (If Provider) |  |
| Handlers  (If used) |  |
| Policies | Eg: WSSecurity etc |
| Consumer End point Alias  (If used) |  |
| Provider End point Alias  (If used) |  |

* + 1. REST Services

<Description of WebService function>

|  |  |
| --- | --- |
| **Configuration Name** | **Configuration Value** |
| Service Name  (Fully qualified namespace) |  |
| REST methods implemented | PUT/POST/GET/DELETE |
| Url aliases  (If used) |  |
| Resource Operating On |  |
| Policies | Eg: WSSecurity etc |

* + 1. Flat File Dictionary/Schema
       1. Flat File Dictionary

|  |  |
| --- | --- |
| **Configuration Name** | **Configuration Value** |
| FF Dictionary Name |  |
| Format Service  (If used) |  |

* + - 1. Flat File Schema

|  |  |
| --- | --- |
| **Configuration Name** | **Configuration Value** |
| FF Schema Name |  |
| FF Dictionary referenced  (If any) |  |
| Schema Document Type Name |  |
| Type of Flat File | Eg: Fixed/Variable length, EDI etc. |
| Record Delimiter |  |
| Field Delimeter |  |

* + 1. File Polling ports

|  |  |
| --- | --- |
| **Configuration Name** | **Configuration Value** |
| File Polling Alias |  |
| Associated Package |  |
| Monitoring Directory |  |
| Working Directory |  |
| Completion Directory |  |
| Error Directory |  |
| File Name Filter |  |
| Processing Service |  |
| Run Service as user |  |
| File Polling interval |  |
| Others | Cleanup service details if used |

* + 1. Virtual Service Design

|  |  |
| --- | --- |
| Virtual Service Name |  |
| Description |  |
| Organization |  |
| Entry Protocol |  |
| Routing Protocol/Rules |  |
| Remarks |  |

* + 1. Design and Run-time policies (as applicable)

|  |  |
| --- | --- |
| Policy Name |  |
| Policy Type |  |
| Description |  |
| Organization |  |
| Action |  |
| Scope |  |
| States |  |
| Permission |  |
| Remarks |  |

* + 1. List of Configurations
       1. WxConfig

|  |  |  |  |
| --- | --- | --- | --- |
| Property Name | Property Value | Stage | Remarks |
|  |  |  |  |

* + - 1. Global Variables

|  |  |
| --- | --- |
| **Key** | **Value** |
|  |  |

* + - 1. Extended Settings

|  |  |
| --- | --- |
| **Key** | **Value** |
|  |  |

* + - 1. Others

|  |  |  |
| --- | --- | --- |
| **Key** | **Value** | **Remarks** |
|  |  |  |

1. Non Functional Requirements

|  |  |
| --- | --- |
| **Parameter** | **Measure** |
| Criticality | Low/Med/High |
| How soon must the interface be available in case of failure? |  |
| How many days of data must be archived? |  |
| Peak message load |  |
| Any other parameters? |  |

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