Release Notes for Steward Bank ZIPIT Interface

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# Document Administration and History

## Version Control

| Date | Author | Version | Change Remarks |
| --- | --- | --- | --- |
| April 16,2020 | G Raghavender | 1.0 | Created |

## Document Location

| Document Owner | G Raghavender |
| --- | --- |
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| Location of Document | **Zimbabwe, Harare** |
| Master Hard Copy | **Project Library** |

## Abbreviations

| Abbreviation | Description |
| --- | --- |
| ZIPIT | ZIMSWITCH Instant Payment Interchange Technology |
| ISO | International Standard Organization |
| T24 | Temenos |
| IIB | IBM Integration Bus |
| ESB | Enterprise Service Bus |
| MQ | IBM WebSphere Message Queues |
| JMS | JAVA Messaging Service |
| TCP | Transport Control Protocol |
| XML | Extensible Markup Language |

# Objective

This document covers the deployment instructions to deploy the ZIPIT Interface/Service/Transaction using IBM Integration Bus(IIB).

# Deployment Guide

## ESB Deployment Steps

### *Pre-requisites*

| S.No. | Pre-requisites |
| --- | --- |
| 1 | *Ensure availability of below directories on ESB server:*  ForLinux OS : /var/Steward/Log/  For Windows :  C:\Documents\Steward\Log |
| 2 | Ensure availability below queues:  POSTILION\_REQ\_INQ  POSTILION\_RES\_OUTQ  ZIPIT\_SB\_TCP\_REQ  ALL\_SB\_TCP\_RES  EXCEPTIONQ  SB\_EXCQ  EXC\_Q  RAW\_LOG\_SB\_REQ  ERR\_LOG\_SB\_REQ |
| 3 | Ensure availability of Log4jConfigurationFile.xml & log4j.dtd under  ForLinux OS : /var/Steward/Log/  For Windows OS : C:\Documents\Steward\Log |
| 4 | Ensure availability of  Log4jLoggingNode\_v1.2.1.jar,  jakarta-oro-2.0.4.jar,  log4j-1.2.8.jar under  For Linux : /var/mqsi/shared-classes  For Windows : C:\ProgramData\IBM\MQSI\shared-classes |
| 5 | Ensure Order of Deployment i.e  1 ESBPolicies  2 ISO8583\_Lib  3 StewardBankCommonEsql  4 StewardBankExceptionHandling  5 StewardBankT24Call  6 Simulators  7 StewardBankTCPIPRouter  8 RAW\_AUDIT\_LOGGING2  9 StewardBankErrorLogging  10 StewardBankZipitApp |
| 6 | If we want to read the properties of the generated Bar file. The command is : mqsireadbar -b C:\Users\Administrator\IBM\ACET11\StewardBank\BARfiles\StewardBankZipitApp.bar-r  where C:\Users\Administrator\IBM\ACET11\StewardBank\BARfiles\ is nothing but Bars file Location. |
| 7 | If we want to override the Bar file after changing the Properties on Queue or JMS queue properties or DSN renaming etc. The command is :  mqsiapplybaroverride -b C:\Users\Administrator\IBM\ACET11\StewardBank\BARfiles\ StewardBankZipitApp.bar -m ZIPIT.sourceQueueName=ZIPIT\_SB\_REQ |

### *Backup*

| S.No. | Backup File and Location |
| --- | --- |
| 1 | Take backup of the following Interface bar files if already deployed to broker   * StewardBankZipitApp*.bar* |

### *Files*

| S.No. | Files |
| --- | --- |
| 1 | Log4jLoggingNode\_v1.2.1.jar, jakarta-oro-2.0.4.jar & log4j-1.2.8.jar files required for log4j are jar files required for logging(log4j) |
| 2 | Log4jConfigurationFile.xml & log4j.dtd are the log4j configuration files required for logging. |
| 3 | StewardBankZipitApp.bar is the binary to be deployed. C:\Users\Administrator\IBM\ACET11\StewardBank\BARfiles\ This location consists of all the bar files, the names are mentioned as per the order sequence of deployment. |

*4.1.4Database Configuration*

| S.No. | Tables |
| --- | --- |
| 1 | * Data Source for Oracle Database is ORADSN. * CREATE TABLE "SYSTEM"."INTEGRATION\_SOL\_DETAILS"   ( "PROC\_CODE" VARCHAR2(20 BYTE),  "REQ\_QUEUE" VARCHAR2(20 BYTE),  "RES\_QUEUE" VARCHAR2(20 BYTE)  ) PCTFREE 10 PCTUSED 40 INITRANS 1 MAXTRANS 255 NOCOMPRESS LOGGING  STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645  PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1 BUFFER\_POOL DEFAULT FLASH\_CACHE DEFAULT CELL\_FLASH\_CACHE DEFAULT)  TABLESPACE "SYSTEM" ;  REM INSERTING into SYSTEM.INTEGRATION\_SOL\_DETAILS  SET DEFINE OFF;  Insert into SYSTEM.INTEGRATION\_SOL\_DETAILS (PROC\_CODE,REQ\_QUEUE,RES\_QUEUE) values ('42',' ZIPIT\_SB\_TCP\_REQ',' ALL\_SB\_TCP\_RES');  CREATE TABLE "SYSTEM"."ERROR\_AUDIT\_LOGGING"  ( "MSGID" VARCHAR2(100 BYTE),  "LOGGING\_TIME" TIMESTAMP (6),  "MESSAGE" CLOB,  "MESSAGETYPE" VARCHAR2(100 BYTE),  "APPNAME" VARCHAR2(100 BYTE),  "BROKER" VARCHAR2(100 BYTE),  "ERRORDESCRIPTION" CLOB  )        CREATE TABLE "SYSTEM"."RAW\_AUDIT\_LOGGING"  ( "MSGID" VARCHAR2(100 BYTE),  "LOGGING\_TIME" TIMESTAMP (6),  "MESSAGE" CLOB,  "MESSAGETYPE" VARCHAR2(100 BYTE),  "APPNAME" VARCHAR2(100 BYTE),  "BROKER" VARCHAR2(100 BYTE)  )      create or replace PROCEDURE INSERT\_ERROR\_AUDIT\_LOGGING  (  MSG\_ID IN VARCHAR2  , LOGGINGTIME IN TIMESTAMP  ,MESSAGE\_DATA IN VARCHAR2  , MESSAGE\_TYPE IN VARCHAR2  , APP\_NAME IN VARCHAR2  , BROKER\_NAME IN VARCHAR2  ,ERROR\_DESCRIPTION IN VARCHAR2  ) AS  BEGIN  INSERT INTO ERROR\_AUDIT\_LOGGING(MSGID,LOGGING\_TIME,MESSAGE,MESSAGETYPE,APPNAME,BROKER,ERRORDESCRIPTION) VALUES(MSG\_ID,LOGGINGTIME,MESSAGE\_DATA,MESSAGE\_TYPE,APP\_NAME,BROKER\_NAME,ERROR\_DESCRIPTION);  END INSERT\_ERROR\_AUDIT\_LOGGING;  create or replace PROCEDURE INSERT\_RAW\_AUDIT  (  MSG\_ID IN VARCHAR2  , LOGGINGTIME IN TIMESTAMP  ,MESSAGE\_DATA IN VARCHAR2  , MESSAGE\_TYPE IN VARCHAR2  , APP\_NAME IN VARCHAR2  , BROKER\_NAME IN VARCHAR2  ) AS  BEGIN  INSERT INTO RAW\_AUDIT\_LOGGING(MSGID,LOGGING\_TIME,MESSAGE,MESSAGETYPE,APPNAME,BROKER) VALUES(MSG\_ID,LOGGINGTIME,MESSAGE\_DATA,MESSAGE\_TYPE,APP\_NAME,BROKER\_NAME);  END INSERT\_RAW\_AUDIT; |
| 2 |  |

### *4.1.5 Deployment Instructions*

| S.No. | Deployment Instructions |
| --- | --- |
| 1 | *Create required folders, queues and policies as mentioned in 4.1.1.* |
| 2 | *copy the required files as mentioned in 4.1.1* |
| 3 | *Deploy following bars to broker*  *1 ESBPolicies.bar*  *2 ISO8583\_Lib.bar*  *3 StewardBankCommonEsql.bar*  *4 StewardBankExceptionHandling.bar*  *5 StewardBankT24Call.bar*  *6 Simulators.bar*  *7 StewardBankTCPIPRouter.bar*  *8 RAW\_AUDIT\_LOGGING2.bar*  *9 StewardBankErrorLogging.bar*  *10 StewardBankZipitApp.bar* |

### *4.1.6 VerifyingInstallation*

| S.No. | Deployment Instructions |
| --- | --- |
| 1 | *Check messages(broker user log) under /var/log while deployment. All the deployment and application logs are logged in this log file.* |
| 2 | Check Interface log file ZIPIT.log for ZIPIT related logs under  For Windows : C:\Documents\Steward\Log  For Linux : /var/Steward/Log/ |

### *4.1.7 Rollback Instructions*

| S.No. | Deployment Instructions |
| --- | --- |
| 1 | Remove the deployed bar files from the broker |
| 2 | Replace the bar files with the backup taken under 4.1.2.1 |

## DATABASE Deployment Steps

### *Pre-requisites*

| S.No. | Pre-requisites |
| --- | --- |
| 1 | *<Mention Pre-requisites required prior to deployment if applicable>* |
| 2 |  |

### *Backup*

| S.No. | Backup File and Location |
| --- | --- |
| 1 | *<Mention File Name and Location of Files to be Backed up>* |
| 2 |  |

### *Files*

| S.No. | Files |
| --- | --- |
| 1 | *<Mention all File Names part of this release>* |
| 2 |  |

### *Configuration*

| S.No. | Configuration Changes |
| --- | --- |
| 1 | *<Mention Steps for changing Configuration>* |
| 2 |  |

### *Deployment Instructions*

| S.No. | Deployment Instructions |
| --- | --- |
| 1 | *<Mention Steps to be followed for deployment >* |
| 2 |  |

### *Verifying Installation*

| S.No. | Deployment Instructions |
| --- | --- |
| 1 | *<Mention log and their path to be observed for successful deployment>* |
| 2 |  |

### *Rollback Instructions*

| S.No. | Deployment Instructions |
| --- | --- |
| 1 | *<Mention Steps to be followed for rollback >* |
| 2 |  |