Release Notes for Steward Bank RTGS Outgoing Interface

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# Document Administration and History

## Version Control

| Date | Author | Version | Change Remarks |
| --- | --- | --- | --- |
| May 04,2020 | Rathod Veerender | 1.0 | Created |

## Document Location

| Document Owner | Rathod Veerender |
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## Abbreviations

| Abbreviation | Description |
| --- | --- |
| IFT | Internal fund Transfer |
| ISO | International Standard Organisation |
| T24 | Temenios |
| 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 |
| RTGS | Real Time Gross Settlement |

# Objective

This document covers the deployment instructions to deploy the RTGSOutgoing 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 or AIX : /log/esb/interfaces/log4j/log/  For Windows :  C:\Documents\Steward\Log |
| 2 | Ensure availability below queues:  1. RTGS\_OUT\_SB\_TCP\_REQ  2.ALL\_SB\_TCP\_RES  3.EXCEPTIONQ  4.SB\_EXCQ  5.RAW\_LOG\_SB\_REQ  6.ERR\_LOG\_SB\_REQ  7.SB\_NW\_REQ  **For Simulators** Ensure availability below queues:  1.POSTILION\_REQ\_INQ  2.POSTILION\_RES\_OUTQ |
| 3 | Ensure availability of Log4jConfigurationFile.xml & log4j.dtd under  ForLinux OS or AIX : /log/esb/interfaces/log4j/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  Policies  ISO8583\_Lib  CommonEsql  ExceptionHandler  RawAuditLogging  ErrorLogging  T24SubFlow  RTGSOutgoing  **If Testing with simulators then**  Simulators |
| 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\RTGSOUTGOING.bar-r  where C:\Users\Administrator\IBM\ACET11\StewardBank\BARfiles\RTGSOUTGOING.bar is nothing but Bar 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\RTGSOUTGOING.bar -m RTGSOUTGOING.sourceQueueName= RTGS\_OUT\_SB\_TCP\_REQ |

### *Backup*

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

*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),  "HTTP\_REQ" VARCHAR2(20 BYTE),  "HTTP\_RES" VARCHAR2(20 BYTE),  "HTTP\_BUSINESS\_TEMP" 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,HTTP\_REQ,HTTP\_RES,HTTP\_BUSINESS\_TEMP) values ('40','IFT\_SB\_TCP\_REQ','ALL\_SB\_TCP\_RES',null,null,'HTTP\_TEMP');  Insert into SYSTEM.INTEGRATION\_SOL\_DETAILS (PROC\_CODE,REQ\_QUEUE,RES\_QUEUE,HTTP\_REQ,HTTP\_RES,HTTP\_BUSINESS\_TEMP) values ('31','CURCON\_SB\_TCP\_REQ','ALL\_SB\_TCP\_RES','CURCON\_SB\_HTTP\_REQ','HTTP\_SB\_RESQ','HTTP\_TEMP');  Insert into SYSTEM.INTEGRATION\_SOL\_DETAILS (PROC\_CODE,REQ\_QUEUE,RES\_QUEUE,HTTP\_REQ,HTTP\_RES,HTTP\_BUSINESS\_TEMP) values ('80','SB\_NETWK\_TCP\_REQ','ALL\_SB\_TCP\_RES','SB\_NETWK\_HTTP\_REQ','SB\_NETWK\_HTTP\_RES','HTTP\_TEMP');  CREATE TABLE 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,  "TIME\_LOCAL\_TRANSACTION" VARCHAR2(20 BYTE),  "DATE\_LOCAL\_TRANSACTION" VARCHAR2(20 BYTE),  "RETRIEVAL\_REFERENCE\_NUMBER" VARCHAR2(20 BYTE),  "BORKER\_ERROR\_CODE" VARCHAR2(20 BYTE),  "USER\_DEFINE\_ERROR\_CODE" VARCHAR2(20 BYTE)  );  CREATE TABLE 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),  "TIME\_LOCAL\_TRANSACTION" VARCHAR2(20 BYTE),  "DATE\_LOCAL\_TRANSACTION" VARCHAR2(20 BYTE),  "RETRIEVAL\_REFERENCE\_NUMBER" VARCHAR2(20 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  ,TIME\_LOCAL\_TRANSACTION IN VARCHAR2  ,DATE\_LOCAL\_TRANSACTION IN VARCHAR2  ,RETRIEVAL\_REFERENCE\_NUMBER IN VARCHAR2  ,BORKER\_ERROR\_CODE IN VARCHAR2  ,USER\_DEFINE\_ERROR\_CODE IN VARCHAR2  ) AS  BEGIN  INSERT INTO ERROR\_AUDIT\_LOGGING(MSGID,LOGGING\_TIME,MESSAGE,MESSAGETYPE,APPNAME,BROKER,ERRORDESCRIPTION,TIME\_LOCAL\_TRANSACTION,DATE\_LOCAL\_TRANSACTION,RETRIEVAL\_REFERENCE\_NUMBER,BORKER\_ERROR\_CODE,USER\_DEFINE\_ERROR\_CODE) VALUES(MSG\_ID,LOGGINGTIME,MESSAGE\_DATA,MESSAGE\_TYPE,APP\_NAME,BROKER\_NAME,ERROR\_DESCRIPTION,TIME\_LOCAL\_TRANSACTION,DATE\_LOCAL\_TRANSACTION,RETRIEVAL\_REFERENCE\_NUMBER,BORKER\_ERROR\_CODE,USER\_DEFINE\_ERROR\_CODE);  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  ,TIME\_LOCAL\_TRANSACTION IN VARCHAR2  ,DATE\_LOCAL\_TRANSACTION IN VARCHAR2  ,RETRIEVAL\_REFERENCE\_NUMBER IN VARCHAR2  ) AS  BEGIN  INSERT INTO raw\_audit\_logging(MSGID,LOGGING\_TIME,MESSAGE,MESSAGETYPE,APPNAME,BROKER,TIME\_LOCAL\_TRANSACTION,DATE\_LOCAL\_TRANSACTION,RETRIEVAL\_REFERENCE\_NUMBER) VALUES(MSG\_ID,LOGGINGTIME,MESSAGE\_DATA,MESSAGE\_TYPE,APP\_NAME,BROKER\_NAME,TIME\_LOCAL\_TRANSACTION,DATE\_LOCAL\_TRANSACTION,RETRIEVAL\_REFERENCE\_NUMBER);  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 bar to broker*   * *RTGSOUTGOING.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 RTGSOUTGOING.log for RTGSOUTGOING related logs under  For Windows : C:\Documents\Steward\Log  For Linux or AIX : /log/esb/interfaces/log4j/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 |  |