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| **Confidential**  **Software Requirement Specification**  **Revenue Accounting and Reporting**  **Inflight Check of Revenue Accounting Engine**  [REVREC20-3971](https://sapjira.wdf.sap.corp/browse/REVREC20-3971)  **Changed on 23.03.2017** |

| **Users who have change authorization in the Working Version** | |
| --- | --- |
| Xin Fang | I042117 |
| \*A list of all users and their roles can be found in the Appendix | |

**Document Versions**

| **Version** | **Status** | **Created By** | **Created On** | **Remark** |
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# Business Context and Scope

## Business Context

In RAR, the data stored in difference database table has interrelationships. The integrity of the data has to be ensured before the data is saved to database.

The following points list some examples of data integrity in database

For example:

* In FARR\_D\_DEFITEM, the condition type must have LATEST\_DEFITEM marked as ‘X’ for the largest recon key if the DOC\_AMT\_CUMULATE.
* In FARR\_D\_DEFITME, the sum of REV\_AMT\_DELTA shall be equal to the ALLOC\_AMT in FARR\_D\_POB.
* Entries in FARR\_D\_POSTING tables shall not be updated where the recon key is closed.

However, due to program bug/data quality issues, the data integrity cannot be assured. And if such invalid data is created in database table, it will lead to wrong revenue figures and it is costly to fix those data in customer production system.

Therefore, RAR shall ensure data integrity when transaction data is being generated and make sure invalid data is not inserted into database table of RAR.

## Scope of this SRS

## User characteristics / roles

Revenue Accounting Administrator

# Detailed Software Requirements

## Overview of software requirements

Revenue Accounting Engine shall provide a switchable validation check when transaction is being processed.

Transaction in RAR means:

* Any changes lead to an update to transaction table in FARR\_D\*.
* Execution Program A/B/C

## Functional software requirements

**REQ-001: RAR shall perform consistency check before the data is save and committed to databased table.**

**REQ-002: RAR shall raise a dump to terminate the transaction currently being processed.**

If the check fails, the system shall raise a dump to stop the entire transaction.

The dump shall raise a message on:

* Error category
* Contract ID/POB ID

**REQ-003: The consistency check shall be separated into different categories. Each category is an independent check that can be switch off by customizing described in REQ 004.**

The detail information on the validation check is described in the following (the list will be keep being updated)

|  |  |  |
| --- | --- | --- |
| Validation Category | Description | Detail technical checks |
| 1 | Latest deferral item | There should be only ONE entry whose LATEST\_DEFITEM = true among all the defitem entries which have the same pob\_id, condition\_type and deferral\_cat. And LATEST\_DEFITEM flag should be set on the entry whose recon\_key is the biggest. |
| 2 | Total revenue adjustment | Revenue adjustment must be zero at contract level |
| 3 | Fulfill quantity | For time-based POB, fulfillment quantity must be equal to the effective quantity |
| 4 | Error POB fulfillment | All fulfillment entries with open recon key shall be marked as ‘P’ in FARR\_D\_FULFILLMENT table if the POB has error status. |
|  |  |  |
|  |  |  |

**REQ-004: RAR shall provide a customizing to allow customer to switch off the consistency check by categories.**

The customizing table is cross-client and shall only contain 1 column called ‘Check Category’.

Any categories in the entry configure in the table shall be considered as ‘Switched-off’ for validation check. This means by default all validation check is switched on.

# Decision for Software Design Document

It is decided this feature has to be down-ported to RAR 1.2 and follow-on releases.

The requirement REQ-001/003/004 will be down-ported in one note, and each check category will be down ported as a separate note.

# Appendix (generated)

| **Assigned Users** | |
| --- | --- |
| **Role** | **Name** |
| SRS Admin | Xin Fang (I042117) |