



## **Automatic Reprocessing of the SAP Application Interface Framework**

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### INTRODUCTION

In the SAP Application Interface Framework, the Error Handling process was extended by automatic reprocessing, triggered by certain error messages. In case an automatic reprocess is triggered the SAP Application Interface Framework generates a background job which will reprocess the registered messages.

The user can register the AIF Interface and the corresponding single error messages by message class and number (e.g. R1/084 = "Business Partner &1 is Currently Being Processed By &2") for automatic reprocessing. Furthermore the user is able to define a minimum waiting time, maximum waiting time, the number of restart trials and an intermediate status. In addition it is possible to set up the type of the Reprocessing Action (e.g. One reprocessing action will be delivered by SAP Application Interface Framework to automatically restart the maintained error messages).

You can make settings for Automatic Reprocessing via Transaction /AIF/REP\_AC\_DEF – Define Automatic Reprocessing Action and /AIF/REP\_AC\_ASGN – Assign Automatic Reprocessing Action.

### Example

In order to explain the setup of the automatic reprocessing an example scenario will be used. If a business partner is locked, a job should be triggered to restart this data message after a certain time (e.g. after 5 minutes, but max. 3 times and status "I" while waiting for the next reprocessing).

### DEFINE AUTOMATIC REPROCESSING ACTION

In the configuration table Define Automatic Reprocessing Action it is possible to set up the Reprocessing Action with the used AIF Runtime Configuration Group and the function module name which will be called by the Reprocessing Job. So for the maintained error messages, the AIF runtime will schedule the reprocessing action according to the configuration table.

The Runtime Configuration Group can set up via Transaction /AIF/PERS\_CGR and should be active and use Run Scheduled.

The SAP Application Interface Framework will deliver one reprocessing action for automatically restart the maintained error messages. The function module will be /AIF/RESTART\_MSG and the template function module called custom specific automatic reprocessing action will be /AIF/TEMPL\_RESTART\_AUTO\_REPR. So user can implement own reprocessing actions dependend on the given requirements.

Example Configuration Group:

**New Entries: Details of Added Entries**

Namespace: DEMO

Runtime Configuration ID: 001

**Runtime Configuration Group**

Runtime Configuration Description	AIF Automatic Reprocessing
<input checked="" type="checkbox"/> Runtime Configuration Group Active	
Create User	
Creation Date	
Creation Time	
Last User	
Last Date	
Last Time	
Background User	
User that released scheduled batch job	
<input checked="" type="checkbox"/> Run Scheduled	
<input type="checkbox"/> Schedule Packages	
Maximum Number Of Messages Per Package	
Maximal Message Count Per Run	

Figure 1: Define Configuration Group

Example Define Reprocessing Action:

**New Entries: Details of Added Entries**

Namespace: DEMO

Repr. Action Name: RESTART

**AIF Automatic Reprocessing: Define Reprocessing Actio**

Function Module	/AIF/RESTART_MSG
Namespace	DEMO
Runtime Config ID	001

Figure 2: Define Automatic Reprocessing Action

**ASSIGN AUTOMATIC REPROCESSING ACTION TO AIF INTERFCE AND ERROR MESSAGE**

In the configuration table Assign Automatic Reprocessing Action it is possible to register the AIF Interface and the corresponding single error messages by message class and number, e.g. R1/084 = "Business

Partner &1 is Currently Being Processed By &2” for automatic reprocessing. In this configuration table, it will also be possible to define a minimum waiting time, maximum waiting time and the number of restart trials. In case there is an existing Job scheduled between the minimum waiting time and the maximum waiting time the message will be assigned to this Job, but should there be no suitable job available, a new job will be created with the maximum waiting time as starting point.

It is also being possible to select the status that the message should reach while “waiting” for the next restart; it can be either “I” (in process), “E” (application error) or “A” (technical error).

Example Reprocessing Action Assignment:

The screenshot shows a configuration window titled "New Entries: Details of Added Entries". It contains two main sections. The first section is a form for defining the message details, with the following fields: Namespace (DEMO), Interface Name (INVOICE), Interface Version (1), Message Class (R1), and Message (084). The second section is titled "AIF Automatic Reprocessing: Assign Reprocessing Action" and contains the following fields: Namespace (DEMO), Repr. Action Name (RESTART), Max Repr. Counter (3), Min. Time in Seconds, Min. Time in Minutes (2), Min. Time in Hours, Max. Time in Seconds, Max. Time in Minutes (5), Max. Time in Hours, and Intermediate Status (I In Process).

New Entries: Details of Added Entries	
Namespace	DEMO
Interface Name	INVOICE
Interface Version	1
Message Class	R1
Message	084

  

AIF Automatic Reprocessing: Assign Reprocessing Action	
Namespace	DEMO
Repr. Action Name	RESTART
Max Repr. Counter	3
Min. Time in Seconds	
Min. Time in Minutes	2
Min. Time in Hours	
Max. Time in Seconds	
Max. Time in Minutes	5
Max. Time in Hours	
Intermediate Status	I In Process

Figure 3: Assign Automatic Reprocessing Action

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