SAP Cloud Platform Integration

Technical Specification

Technical Specifications Document

Document Release Note

Document Name:	Delete Work Assignment
Version:	1.0.0
Description:	Deletes work assignments in SuccessFactors by setting their approval status to CANCELLED. This flow is called by the conflict resolution execute actions flow when work assignments need to be removed due to time conflicts with timesheet events.
Release Date:	2025-11-06

Revision History

Revision	Date	Description	Page	Rationale	Type
1.0	2025-11-06	Initial Draft	All	Initial Version	Add

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1. BUSINESS CONTEXT

1.1 Overview

Deletes work assignments in SuccessFactors by setting their approval status to CANCELLED. This flow is called by the conflict resolution execute actions flow when work assignments need to be removed due to time conflicts with timesheet events.

1.2 Development Unit Information

Module	SAP Cloud Platform
Sub Module	Hana Cloud Integration
iFlow Title	Delete Work Assignment
Processing Type	Background Online
Execution Frequency	On-Demand (Called by conflict resolution)

2. DETAILED DESIGN

2.1 Configuration Details

Package Name: SF-Nadec-WorkAssignment

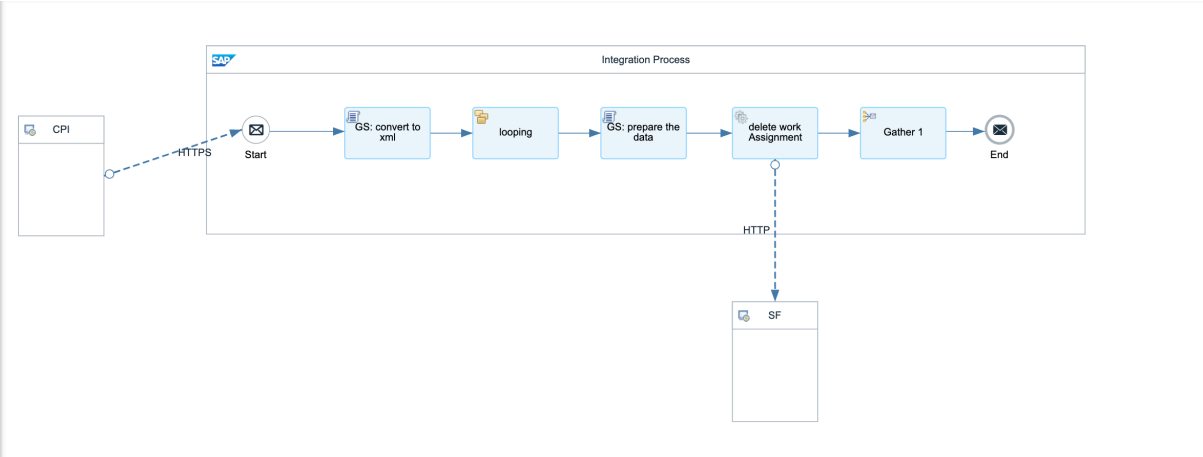
iFlow Name: Delete Work Assignment

Technical Name: SF_WorkAssignment_Delete

Endpoint: /deleteWAList

2.2 SAP CPI iFlow Design

This is a custom-designed SAP CPI Integration flow for work assignment and timesheet conflict resolution.



Detailed Requirements:

1. Receives XML payload with work assignment IDs marked as deleted=true
2. Filters and extracts only deleted work assignments
3. Transforms XML to JSON format for SF OData API
4. Sets approvalStatus to CANCELLED for each work assignment
5. Executes upsert operation via SuccessFactors OData API

Groovy Scripts

Script Name	Description
Parse Delete List	Reads XML <Item> nodes and filters items where deleted=true
Transform to SF Format	Creates SF OData upsert payload with approvalStatus: CANCELLED
Prepare API Request	Sets required headers and authentication for SF API call

2.3 Adapter Configuration (Sender & Receiver)

Receiver (SF): SuccessFactors OData v2 API for Work Assignment entity Authentication: Basic (NadecIntegAdmin)

2.4 Error Handling

Standard CPI error handling applies. Errors are logged to message processing log. Failed messages are stored in error queue for manual intervention. Retry mechanism is configured for transient failures (3 attempts with 5-second delay).

3. TESTING

3.1 Test Conditions and Expected Results

Test Condition	Expected Result
Work assignment IDs provided in XML with deleted=true	Work assignments marked as CANCELLED in SuccessFactors
Empty or malformed XML payload	Error handling triggered, appropriate error message returned
SF API authentication failure	Error captured and logged, retry mechanism activated

3.2 Test Data Considerations

Test data should include: (1) Typical scenarios with standard work assignments and timesheets, (2) Edge cases with time zone boundaries, (3) Error scenarios with malformed data, (4) Load testing with bulk data volumes.

3.3 Performance Considerations

Expected processing time: <5 seconds for single record, <60 seconds for batch of 100 records. SF API rate limits: 5000 calls/hour. Memory usage: <500MB for typical batch operations.

4. APPENDIX

Additional technical documentation, API specifications, and code samples are available in the project repository: https://github.com/eco-nadec/SF-WA-CPI