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**SAP Cloud Platform Integration
Technical Specification**

Technical Specifications Document

Document Release Note

Document Name:	Get Work Assignment List
Version:	1.0.0
Description:	Fetches work assignments from SuccessFactors within a dynamic date range. The date range is automatically calculated as: first day of 2 months ago to last day of current month. For example, if executed on 2025-11-06, it retrieves work assignments from 2025-09-01 to 2025-11-30.
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1. BUSINESS CONTEXT

1.1 Overview

Fetches work assignments from SuccessFactors within a dynamic date range. The date range is automatically calculated as: first day of 2 months ago to last day of current month. For example, if executed on 2025-11-06, it retrieves work assignments from 2025-09-01 to 2025-11-30.

1.2 Development Unit Information

Module	SAP Cloud Platform
Sub Module	Hana Cloud Integration
iFlow Title	Get Work Assignment List
Processing Type	Background Online
Execution Frequency	Scheduled Daily / On-Demand

2. DETAILED DESIGN

2.1 Configuration Details

Package Name: SF-Nadec-WorkAssignment

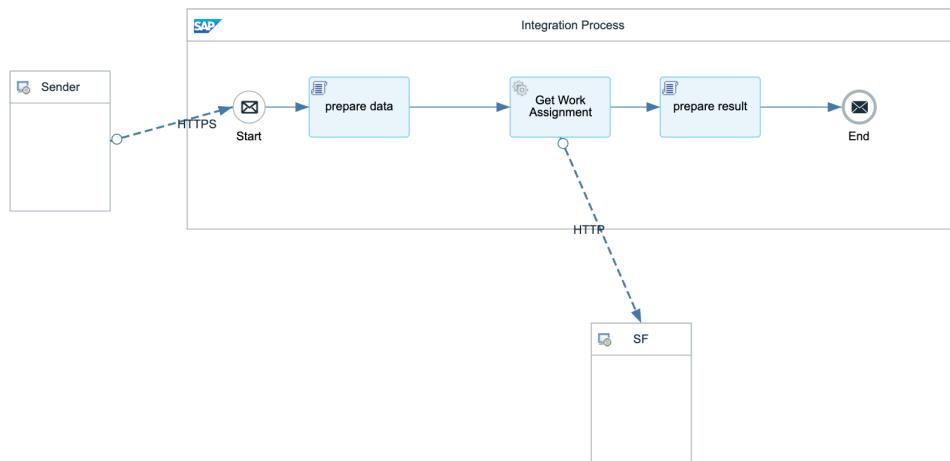
iFlow Name: Get Work Assignment List

Technical Name: SF_WorkAssignment_GetByDateRange

Endpoint: /workAssignment

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. Calculate dynamic date range: first day of (current month - 2) to last day of current month
2. Build OData filter query with calculated date range
3. Fetch work assignment records from SuccessFactors
4. Use UTC timezone for date calculations
5. Return work assignment data with employee IDs, dates, and time ranges

Groovy Scripts

Script Name	Description
Calculate Date Range	Computes first day of 2 months ago and last day of current month using UTC
Build OData Filter	Constructs filter: startDate ge datetime'...' and startDate le datetime'...'
Format Response	Structures work assignment data for downstream processing

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
Scheduled execution on any date	Returns work assignments for calculated 3-month range
Work assignments exist in date range	All matching records retrieved successfully
No work assignments in date range	Returns empty result set without error
SF API rate limit exceeded	Retry mechanism handles rate limiting gracefully

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.