SAP Cloud Platform Integration

Technical Specification

Technical Specifications Document

Document Release Note

Document Name:	WA Conflict Resolution - Core Orchestrator
Version:	1.0.0
Description:	CORE ORCHESTRATOR: Coordinates the conflict resolution process. Expects combined work assignment and timesheet data as input, orchestrates conflict analysis by calling the Analyze Logic flow, then executes the resolved actions by calling the Execute Actions flow. This is a pure orchestrator with no business logic in scripts.
Release Date:	2025-11-06

Revision History

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

Document Contact Information

Name:	Abdelrahman Hussein
Role:	Technical Consultant

Table of Contents

1. BUSINESS CONTEXT

1.1 Overview

CORE ORCHESTRATOR: Coordinates the conflict resolution process. Expects combined work assignment and timesheet data as input, orchestrates conflict analysis by calling the Analyze Logic flow, then executes the resolved actions by calling the Execute Actions flow. This is a pure orchestrator with no business logic in scripts.

1.2 Development Unit Information

Module	
Sub Module	Hana Cloud Integration
iFlow Title	WA Conflict Resolution - Core Orchestrator
Processing Type	Background Online
Execution Frequency	On-Demand (Orchestration)

2. DETAILED DESIGN

2.1 Configuration Details

Package Name: SF-Nadec-WorkAssignment

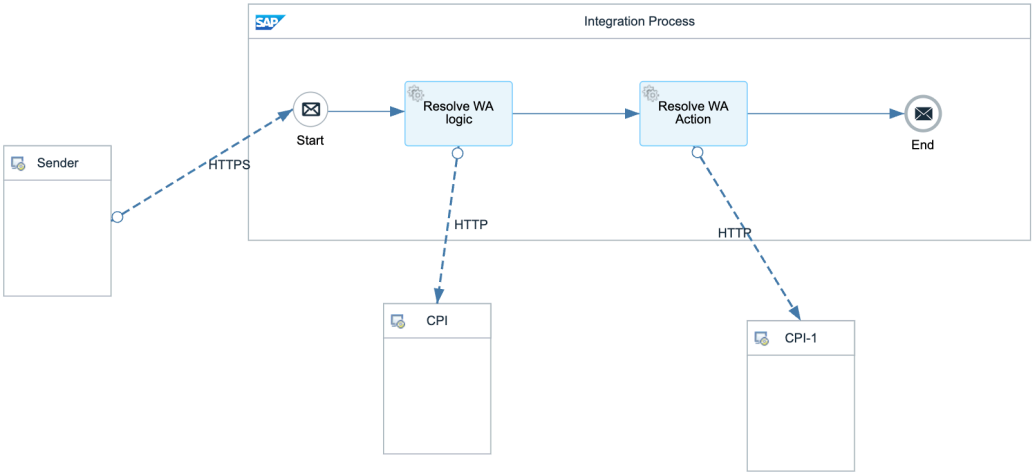
iFlow Name: WA Conflict Resolution - Core Orchestrator

Technical Name: WA_TS_Conflict_CoreOrchestrator

Endpoint: /resolveWAConflictMain

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. Receive combined WA+TS data (XML or JSON)
2. Call Analyze Logic flow to detect and resolve conflicts
3. Receive resolution output (delete lists, trim events)
4. Call Execute Actions flow to apply changes in SuccessFactors
5. Return final execution status and results

Groovy Scripts

Script Name	Description
Validate Input	Checks input data structure and completeness
Prepare Analysis Call	Formats payload for Analyze Logic endpoint
Prepare Action Call	Formats resolution output for Execute Actions endpoint
Aggregate Results	Combines analysis and execution results for final response

2.3 Adapter Configuration (Sender & Receiver)

Internal orchestration: - Calls: WA Conflict Resolution - Analyze Logic - Calls: WA Conflict Resolution - Execute Actions

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
Combined WA+TS data with conflicts	Analyzes and executes resolution successfully
Analyze Logic flow returns empty actions	Execute Actions not called, process completes
Execute Actions flow fails	Error handling captures failure, rolls back if needed
Large dataset with 1000+ pairs	Processes all pairs efficiently, handles timeouts

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.