MASTERINGSAP Collaborate

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PARKROYAL ON BEACH ROAD | SINGAPORE

AI Proof of Concept – Deliver Client Reporting

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McGrathNicol – who are we?

McGrathNicol is a specialist Advisory and Restructuring firm that has built a reputation for managing complexity and consistently delivering the results our clients need.

McGrathNicol Advisory helps companies improve performance by mitigating risk, managing change and achieving growth.

We specialise in Forensic, Governance, Risk & Compliance, Strategy & Business Improvement, Technology & Cyber and Transactions.

McGrathNicol Restructuring helps restore stability and maximise value by navigating financial and operational challenges.

We specialise in Special Situations, Turnaround and Insolvency, advising companies across all industry sectors and business sizes.

McGrathNicol – SAP landscape

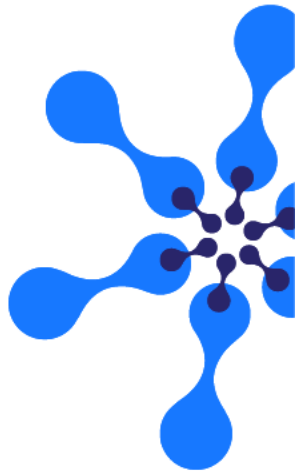
- S4 Hana Public Cloud
- Business Technology Platform
- Concur
- What is next?…

SAP Concur

SAP SuccessFactors

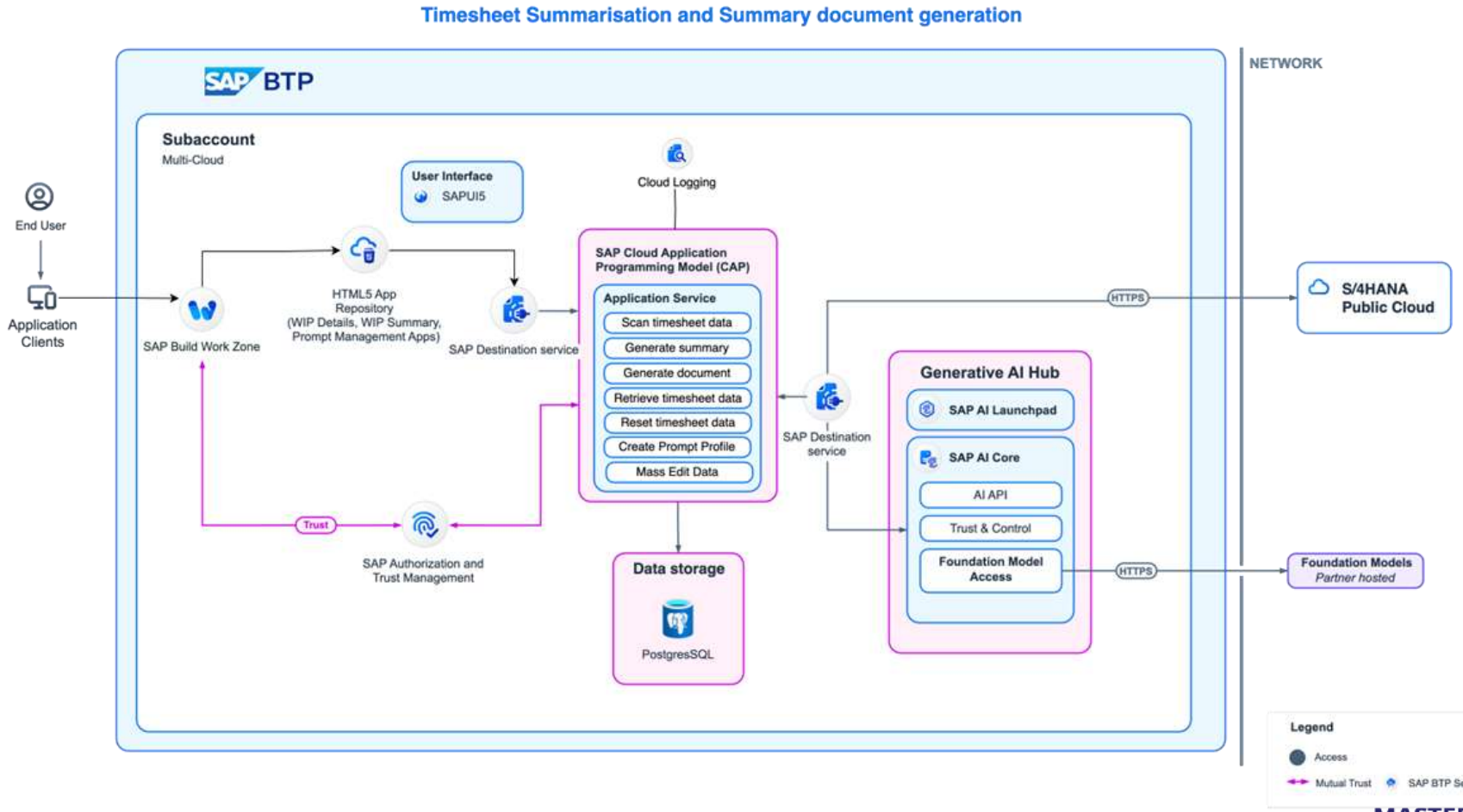
The Proof of Concept

The Problem	Business Impact	Opportunity
• Unstructured data needing summarization • Timeliness of completing client reports • Excessive timesheet entries complicate reporting • Ability to update entries in real time	• Extended hours and effort to deliver reports leading to client dissatisfaction • Manual manipulation of data off systems	• Accurate and timely reporting • Streamlined processing • PoC of Gen AI in SAP



Use Case	High level description	Solution Workflow	Solution Components
2. Document Information Extraction for Timesheet summarization	Timesheet details at present have to be extracted from the Time sheet app to an excel/word. This is then enriched with details manually. Document Information Extraction can be used to automate data extraction from digital documents instead of having a person manually extracting this.	Extract data from timesheet app, use Gen AI hub with LLM to enrich the data which can then be sent via API to S/4HANA for invoice/billing	1. Generative AI Hub in SAP BTP environment 2. Large Language Models

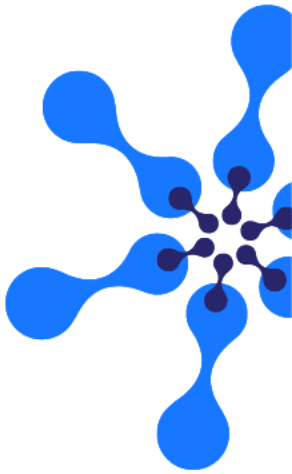
The Solution



WIP Details App

The WIP details app is used to refresh and evaluate the data from S/4HANA Public Cloud.

Amend any changes and use AI features to scan for anomalies and also execute the summarization to generate the invoice document



Features:

- Read data from S/4HANA Public Cloud
- Update work package, work item, billable and written off status
- Mass editing
- Call Scan and Summarize functionality from AI Core

WIP Summary App

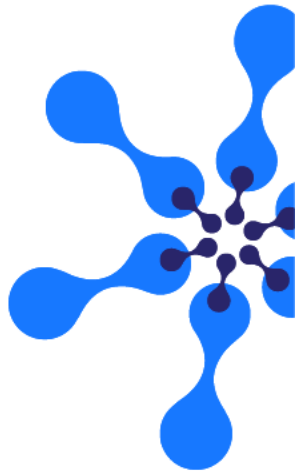
The selections are summed up in amount and hours. The list has grouped data by project, to and from dates to ensure accurate summarisation.

The WIP Summary app shows the aggregation of hours and amount, which is populated when running the Summarize from the WIP Detail app.

The summed-up items selected in the app can be used to generate a summary for the ARITA* document.

Features:

- Generate document



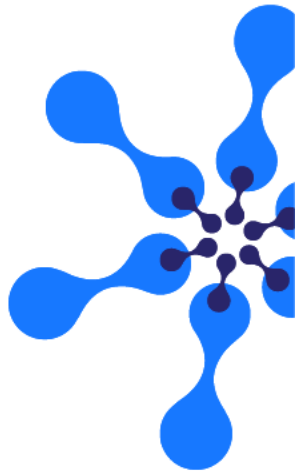
*Australian Restructuring Insolvency & Turnaround Association

Prompt Management App

The Prompt management app is designed to facilitate the creation, storage, and management of custom prompts that can be used for scanning and summarizing data on WIP Detail app.

Saved prompts from the Prompt Management App are integrated in the WIP Detail App, allowing users to directly scan or summarize data.

Only users with the Prompt Admin role can change standard prompts.

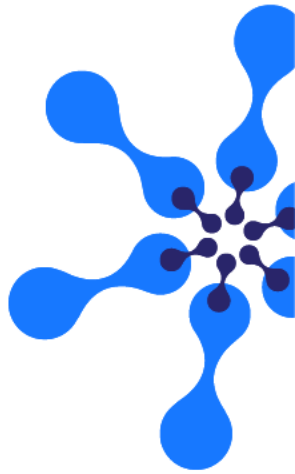


Features:

- Use default Scan and Summarise prompts
- Create custom prompts*
- Edit custom prompts*
- Add prompt tags
- Delete custom prompts

*User can only create/edit custom prompt field, base prompts are read-only

A Little Tech Detail



GPT-4o was deployed as the chosen **LLM within AI launchpad.**

While GPT-4o supports a **128,000-token context window** for both input and output, this does **not** mean all input data will efficiently be processed up to context window limit. Therefore, token restrictions need to be set in place to avoid poorly generated responses with truncated responses due to max output tokens being 4,000 tokens.

To achieve this, the summary and scan services **has a set limit of the maximum input tokens to 20,000**. This ensures that enough tokens remain available for generating high-quality, meaningful output. If the input were too large, the model would have limited capacity to produce a detailed response, leading to potential truncation or incomplete answers.

By **restricting input size**, SAP AI Core ensures **optimal input-to-output ratio**, allowing the model to generate **comprehensive responses** even for large data inputs

Making Requests

The **AzureOpenAiChatClient** is used to send **chat completion requests** to the **GPT-4o model** deployed in **SAP Generative AI Hub**. The client interacts with the **Azure OpenAI API**, ensuring seamless integration with SAP AI services.

LLM Integration

The **LLM Integration Service** connects to **SAP AI SDK** to send requests to **Azure OpenAI GPT-4o** for **text generation and summarisation**. It provides **multiple levels of request handling**, including **single message tests, full summarisation requests, and retry mechanisms**.

Recap of the Solution

Scan

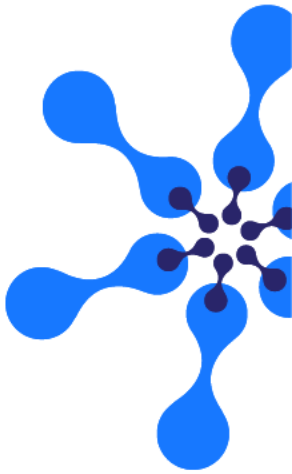
Anomaly Detection

The **user-selected prompt** and **timesheet entries** are processed and sent to the **LLM**, which inspects the data for anomalies. The **LLM identifies and flags discrepancies**, classifying detected issues as either **'Warning'** (potential misalignment) or **'Information'** (billing-related inconsistencies).

Result Compilation

All **detected anomaly warnings** are then **inserted into** the Database, ensuring structured tracking and validation of flagged timesheet entries within the WIP details app.

Summarise



Summary Generation

Timesheet entries are grouped based on **Work Package and Work Item** for structured analysis. The grouped entries are then processed by **GPT-4o**, which generates a **General Description** of the work package along with **Task Summaries** that highlight key activities.

Result Compilation

Complete **WIP Summaries** are created based on the filtered **Project and Date Range**. The summarised data is then **inserted into the** WIPSUMMARY_ITEMS **table**. Once finalised, these summaries are extracted to generate the templated **summary document**, which is available for download.

Recap of the Solution

Document Generation

Service Overview

The GENERATE_DOCUMENT service creates a **Microsoft Word (DOCX) report** summarising project remuneration details. It retrieves data from the database and structures it into tables with project metadata, work package summaries, and task breakdowns.

Service Details

Event Handler: this.on("SUMMARIZE", async (req) => { ... });

Service Location: srv/service.ts

Database Tables:

WIPDETAIL_SUMMARY (Raw timesheet data)

WIPSUMMARY_HEADER (Project summary)

WIPSUMMARY_ITEMS (Task-level summaries)

The Result needed

- Hundreds and sometimes thousands of Timesheets entries summarized into standard reporting
- Draft report generated
- Compliant

Remuneration Report for project [redacted]s Transaction DOCA

		Retrospective remuneration for project [redacted]Transaction DOCA
Period		1 June 2024 to 19 June 2024
Amount (ex GST)		$482,045.99
Task Area	**General Description**	**Tasks**
Assets Hours: 34.70 Amount: $25,215.00	Asset Updates	Provide updates on circulating [redacted]assets.
	Site Management	Update stakeholders on A[redacted]site status and EPA communication.
	Asset Management	Coordinate sale processes and communication for [redacted]assets.
	Equipment Sale Management	Manage eXsource sale and potential equipment transactions.
	Asset Recovery	Address residual asset recoveries and correspondence.
Creditors Hours: 105.80 Amount: $64,794.00	Creditor Communication	Update secured creditor reports and communicate key updates.
	Funding Requests	Handle utilisation requests and review funding status.
	Performance Updates	Prepare updates for weekly monitoring reports.
	Creditors Meetings	Conduct COI meetings and prepare associated reports. Review meeting notices and communications materials.
	Secured Creditors	Review PPSR claims and creditor documentation. Draft communications related to creditor settlements.
	Unsecured Creditors	Manage creditor submissions and documentation. Coordinate communications and adjudication processes.
	Reporting and Monitoring	Prepare and update weekly financial and monitoring reports. Analyse employee entitlements and related data.
	Creditors Guidance	Prepare guiding materials for creditors' meetings. Coordinate COI meetings and remuneration discussions.
Dividend Hours: 28.70 Amount: $13,567.00	Adjudications for Dividends	Conduct POD adjudications and compile creditor information.
Employees Hours: 114.00 Amount: $74,244.00	Employee Relations	Allocate tasks related to resigned employees and redundancy.
	Employee Matters	Handle employee entitlements, terminations, and payroll. Engage in HR and union meetings for resolutions.
	Payroll Verification	Verify payroll claims and address variances. Calculate and update payroll spreadsheets.
Statutory & Administration Hours: 146.10 Amount: $82,480.41	Corporate Compliance	Draft and review ASIC statutory forms. Discuss form reviews and compliance issues.
	Tax Compliance	Review BAS lodgements for several entities. Evaluate and file BAS returns.
	Legal Administration	Process DOCA legal lodgements with ASIC.
	Financial Communications	Attend meetings for engagement team reporting.
	Software Licences	Assess software licences for [redacted]
	Payment Processing	Facilitate payments and organise banking tasks. Prepare and approve weekly wages and supplier payments.
	Financial Compliance	Lodge and discuss preparation of ASIC forms. Organise DOCA statutory lodgements.
	Taxation Discussions	Undertake discussions with ATO regarding BAS processes. Address GST registration and financial reconciliations.
	Task Check-ins	Conduct regular checkins for team administration.

Future Extensions

- Write back to S/4HANA Public Cloud with updates to Timesheets and Project Billing Requests
- Further AI enhancements on prompts – fine tuning the model
- Integration of workflows for approvals
- Joule integration (Executing scan, summarize and document generation, when viewing the project in S/4HANA Public Cloud)
- Automated corrections of assessments generated in scan based on confidence
- Property for whether an item is used for summarization
- Joule functionality to help customize prompts
- CI/CD Pipeline integration

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