

SAI VARUN THIRUVAIPATI

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Professional Summary

- Over **6+ years of experience in SAP Integration** with expertise in **SAP PI/PO**, **SAP Cloud Platform Integration (CPI)**, and **SAP API Management (APIM)**.
- Good experience in **end-to-end SAP PI/PO development, migration, and production support**, with extensive hands-on experience in **interface design, mapping, and monitoring**.
- Skilled in various **mapping technologies** including **Graphical, XSLT, and Java mappings**.
- Strong functional integration experience across modules like **HR, RTR, and FIN**.
- Configured and implemented standard and custom interfaces in **SAP CPI**, utilizing components such as **Content Modifier, Request Reply, Multicast Router, Local Integration Processes, and Exception Subprocesses**.
- Proficient in **SAP and non-SAP system integrations** using both **cloud** and **on-premises** landscapes.
- Experienced in **Google Cloud Platform (GCP)** integrations with SAP and **SAP CPI integration with on-premises systems** via **SAP Cloud Connector**.
- Developed and optimized interfaces using **Groovy scripts, Splitter, Gather, Join, and Message Mapping** for complex transformation logic.
- Worked on **SAP APIM** to manage, secure, and scale APIs as part of CPI scenarios.
- Deep knowledge of **SAP PI/PO Adapters**: File, SFTP, RFC, IDOC, JDBC, HTTP, SOAP, ODATA and Mail.
- Hands-on experience in **adapter configuration, alert management, message monitoring, queue/cache monitoring, and runtime workbench**.
- Proficient in **end-to-end interface lifecycles** including **design, documentation, implementation, cutover, Go-Live, and hyper care support**.
- Expertise in **PGP encryption setup**, including **public/private key configurations** for secure communication.
- Involved in **IDoc, RFC, and Proxy** configurations for various integration scenarios.
- Experienced in **AMS support**, resolving critical production issues, generating reports, and ensuring SLA compliance.
- Solely managed **CTS+ transports** across **Dev, Unit, QA, and Production** environments.
- Experience in **creating SLD (System Landscape Directory) components** and performing **NWA monitoring**.
- Strong ability to understand **interface design** and perform **solution analysis** during requirement gathering and **test plan creation**.

- Worked with **Java and XSLT mappings** using **NetWeaver Developer Studio (NWDS)** for preparing technical specs, mapping docs, and test plans based on discussions with functional teams.
- Knowledge of key SAP PI/PO components: **SLD, Integration Repository, Integration Directory, and Runtime Workbench (RWB)**.
- Good experience with **cloud integrations**, including handling **bypass scenarios** using different adapters.
- Collaborated with **functional teams** to resolve integration issues in **lower environments** (SIT, USAT) and ensured smooth go-lives.
- Maintained **100% QA review compliance** across all project workstreams as per defined expectations.
- Exposure to using **lookups** in integrations, especially with **RFC and JDBC** adapters.

Technical Skills

Category	Skills
Integration & Middleware	SAP Cloud Platform Integration (CPI), SAP PI/PO, SAP API Management, Event Mesh, Cloud Connector, SAP Integration Suite
SAP Ecosystem	SAP S/4HANA, SAP SuccessFactors, SAP UI5, SAP BTP
Protocols & Adapters	OData, REST, SOAP, IDoc, JDBC, SFTP, JMS, AS2, FTP
Development & Scripting	Groovy, JavaScript, XSLT, Value Mapping, Parameterized Mapping
B2B & EDI Integration	EDI X12, EDIFACT, Trading Partner Management (TPM), Integration Advisor (IA)
Security & Compliance	OAuth 2.0, JWT, PGP Encryption, Secure File Transfers, Identity & Access Management
CI/CD & DevOps	Jenkins, GitHub Actions, OpenShift, Kubernetes
Monitoring & Debugging	Message Processing Logs (MPL), API Performance Optimization, Splunk, Postman
Project Management	Agile/Scrum, Jira, SIT & UAT Testing, Documentation & Best Practices

Certifications

- Certified in Accelerate Enterprise Integrations with SAP Integration Suite
- Certified in Infosys global Agile developer
- SAP Certified Development Associate

Professional Experience

Client: SIMPLPOS, Michigan

Present Role: SAP CPI Developer

November 2024 – Till Date

Responsibilities:

- Designed and implemented end-to-end SAP CPI integrations between POS systems, backoffice platforms, and **SAP backend (ECC/S4HANA)**.
- Developed iFlows with **REST, OData, and SOAP** adapters to enable seamless third-party integrations (e.g., Uber Eats, DoorDash, Grubhub).
- Built custom integration flows using **Content Modifier, Router, Splitter, Process Call, and Exception Subprocess** to manage order processing.
- Delivered real-time data exchange between the **cloud-based POS** and SAP via **Cloud Connector** and secure APIs.
- Enabled secure on-prem to cloud communication using SAP Cloud Connector with **OAuth 2.0** authentication.
- Designed and deployed APIs through **SAP API Management** for external vendor access and system integrations.
- Managed menu sync, order ingestion, and delivery updates via CPI for food delivery apps using real-time integration patterns.
- Worked on integrations to support digital ordering channels, **QR code-based ordering**, and selfservice kiosks.
- Used **Event Mesh** to handle event-driven architecture for inventory and sales updates across distributed systems.
- Implemented dynamic routing and header enrichment for improved message traceability and audit control.
- Built reusable iFlow templates to speed up the onboarding of new stores and integration endpoints.
- Developed **RFC, JDBC, and SOAP** lookups for dynamic data retrieval from SAP during order validation and pricing.
- Supported multi-platform integrations with Urban Piper for unified management of delivery platforms.
- Designed robust **exception handling** logic for all iFlows, reducing incident resolution time.
- Configured **PGP encryption and decryption** modules in CPI for secure data exchange with banking and compliance-sensitive systems.

- Created **Graphical Mappings, Parameterized Mappings, and Value Mappings** to support complex business data transformations.
- Used UDFs (**User-Defined Functions**) and **Node Functions** to implement custom logic in message mappings.
- Migrated legacy **SAP PI/PO** interfaces to SAP CPI to improve scalability, reduce latency, and simplify architecture.
- Performed unit testing, **regression testing**, and peer reviews to ensure high-quality integration delivery.
- Maintained version control and automated CPI deployments using **Jenkins, GitHub Actions, and OpenShift**.
- Monitored and troubleshoot interface issues using **Message Processing Logs (MPL), custom alerts, and trace logs**.
- Led daily standups, sprint planning, and backlog grooming as part of Agile ceremonies.
- Defined **technical documentation**, integration specifications, and API contracts to support crossfunctional collaboration.
- Collaborated with product, QA, infrastructure, and security teams to align integration roadmaps with business needs.
- Provided training and technical guidance to junior developers and business users on CPI interfaces and tools.
- Worked on performance tuning of CPI interfaces to handle peak-hour traffic for high-volume retail transactions.
- Ensured smooth **go-live support and hyper care** by proactively resolving high-priority production issues.
- Supported operational reporting by routing transactional data into SAP for downstream analytics and dashboards.

Client: USAA

Role: SAP CPI Developer

August 2023 – Oct 2024

Responsibilities:

- Designed and developed end-to-end integrations using SAP Cloud Platform Integration (CPI) to connect USAA's SAP systems with third-party financial, banking, and claims platforms.
- Implemented and supported interfaces using SAP Process Integration/Process Orchestration (PI/PO) to enable secure and reliable message flows between SAP and non-SAP systems.
- Developed and managed REST, SOAP, OData, and IDoc-based interfaces to support critical insurance functions such as policy issuance, claims processing, and premium payments.

- Built reusable iFlows in SAP CPI to support real-time transactions across USAA's internal applications and cloud-based services.
- Configured **SAP API Management** to expose, monitor, and secure APIs with policies such as rate-limiting, access control, and key-based authentication.
- Enabled asynchronous event-driven architectures using **SAP Event Mesh**, supporting decoupled integrations for time-sensitive financial events.
- Utilized SAP Cloud Connector to securely integrate on-premises USAA systems with cloud-based SAP services, ensuring compliance and data security.
- Worked closely with USAA's architecture and security teams to enforce **OAuth 2.0, JWT**, and basic authentication mechanisms for secure interface access.
- Integrated SAP S/4HANA with external regulatory, treasury, and banking systems, ensuring timely and accurate financial data exchange.
- Created and consumed **OData APIs for SAP Fiori/UI5** applications used by USAA teams to manage policies, claims, and financial records.
- Configured adapters in CPI and PI/PO including **SFTP, REST, SOAP, IDoc, and JDBC** to handle diverse data exchange requirements.
- Supported SAP FS-CD (Collections & Disbursements) integrations, automating payment collections, disbursements, and financial reporting.
- Implemented robust **error handling, logging, and alerting** frameworks in CPI and PI/PO to minimize downtime and ensure interface stability.
- Conducted unit testing, integration testing, and supported UAT for deployed interfaces in collaboration with USAA's finance and QA teams.
- Provided **production support and resolved real-time integration issues** during month-end, quarter-end, and year-end closing periods.
- Developed **ABAP-based enhancements** to extend standard SAP functionality in support of custom finance and insurance workflows.
- Participated in **Agile/Scrum-based delivery** teams, delivering prioritized integration features aligned with USAA's digital roadmap.
- Authored comprehensive technical documentation, including interface design specs, mapping documents, and deployment guides.
- Ensured all integration solutions adhered to USAA's internal compliance, SOX, and data governance policies.
- Played a key role in modernizing USAA's integration strategy, promoting API-first, cloud-native, and event-driven design principles across SAP landscapes.

- This list is concise, realistic, and role-specific, covering the full technical stack, compliance, USAA's domain, and your impact as an SAP integration expert. Let me know if you want this formatted for LinkedIn or tailored for a project-specific section.

Client: WIN Waste Innovations, NH
SAP CPI Integration Developer

Dec 2021 – Jul 2023 **Role:**

Responsibilities:

- Developed and maintained **SAP CPI iFlows to integrate SAP S/4HANA** with external systems for waste management operations, route planning, and customer billing.
- **Designed API-based interfaces** between SAP and third-party logistics platforms to synchronize service orders, equipment status, and dispatch updates.
- Integrated cloud-based CRM and **ticketing platforms with SAP using REST/OData** interfaces to streamline customer service and complaints management.
- Implemented end-to-end CPI interfaces for vendor onboarding, including real-time tax validation, vendor master creation, and invoice posting.
- Built **message mappings and transformations** for service-related documents such as Work Orders, Equipment Tracking, and Disposal Receipts.
- Worked on **CPI integrations with Microsoft Dynamics** and field-service tools used by WIN Waste for real-time operations monitoring.
- Enabled secure communication between SAP and third-party hauling partners using **SOAP, IDoc, and PGP-encrypted files via SFTP adapters**.
- Created CPI interfaces to send and receive pricing data, contract details, and customer renewals from external quoting tools.
- Used SAP Cloud Connector to enable secure on-premises connectivity for **legacy ERP** and weighbridge system integrations.
- Configured **alerting, logging, and error-handling mechanisms** using **Message Processing Logs (MPL) and Exception Subprocesses** to ensure reliability.
- Integrated CPI with WIN Waste's BI/reporting systems to send customer data, billing summaries, and disposal metrics for analytics.
- **Automated job scheduling** and CPI interface monitoring for route settlement, bin pickups, and fuel usage reconciliation processes.
- Collaborated with **SAP SD, MM, and FICO** functional teams to define integration specifications for waste invoicing, payments, and inventory.

- Developed custom **Groovy scripts** within iFlows to enrich data and apply conditional logic for waste container movement and asset management.
- Supported production CPI interfaces, handled critical incident resolutions, and optimized performance for high-volume transaction flows.

Client: Infosys, Hyderabad
Role: SAP CPI Integration Developer

June 2020 – November 2021

Responsibilities:

- Designed and implemented **SAP CPI integration flows (iFlows)** for various business scenarios including SAP-to-SAP and SAP-to-non-SAP integrations.
- Collaborated with **functional consultants to analyze business requirements** and develop efficient integration solutions.
- Developed custom **OData services and value mappings** to enhance real-time data exchange between applications.
- Integrated SAP S/4HANA, SuccessFactors, and external applications using **REST, SOAP, IDoc, JDBC, and OData adapters**.
- Developed complex mappings including **Graphical Mapping, XSLT, and Java/Groovy scripting** for transformation and routing logic.
- Designed and optimized **API proxies in SAP API Management**, applying policies for authentication, rate limiting, and security.
- Configured **SAP Event Mesh** for real-time event-driven messaging between cloud and on-premises systems.
- Implemented Business Rules and Workflow Management on SAP BTP to automate integration processes.
- Developed secure file transfers in banking interfaces using **PGP encryption/decryption** with Kleopatra and GPA tools.
- Created dynamic **routing and header processing mechanisms** for intelligent message tracking and handling.
- Configured Cloud Connector and Destination Services to establish secure hybrid connectivity with on-premise systems.
- Built and optimized **OAuth 2.0-secured APIs** for secure and controlled third-party system access.
- Automated CI/CD pipeline deployments for SAP CPI using **Jenkins, GitHub Actions, and OpenShift**.
- Managed **SAP Integration Builder configurations**, ensuring efficient system connectivity and reducing latency.
- Conducted **Message Processing Log (MPL) monitoring, setting up alerts and exception handling workflows**.
- Performed **system integration testing (SIT) and user acceptance testing (UAT)**, validating business scenarios before go-live.
- Utilized **Agile/Scrum methodologies**, managing development sprints and tracking tasks using Jira.
- **Documented technical designs**, best practices, and troubleshooting guides for seamless knowledge transfer.
- Led troubleshooting and performance optimization sessions, reducing API response time by 30%.
- **Provided technical guidance** and mentoring to junior developers, ensuring best practices in SAP CPI development.

Client: Magneq Software Solutions, Hyderabad, India

Role: System Engineer *Jan*

2019 – May 2020

Responsibilities:

- Configured **SAP CPI integration flows** (iFlows) for various business processes, ensuring seamless data exchange between SAP and non-SAP systems.
- Assisted in **interface development, testing, and deployment, following Agile/Scrum methodologies.**
- Supported **technical documentation** of integration solutions, improving client understanding of integration architecture and processes.
- Worked with **OData, REST, SOAP, IDoc, and JDBC adapters** for data transformation and mapping.
- Assisted in **troubleshooting message** failures and debugging errors using Message Processing Logs (MPL).
- Developed basic **Groovy and JavaScript scripts** to enhance iFlow functionalities.
- Supported **System Integration Testing (SIT) and User Acceptance Testing (UAT)** for new integration scenarios.
- Gained experience in **SAP API Management**, assisting in API proxy configuration and policy implementation.
- Worked on **message routing, error handling, and exception processing** to improve system resilience and performance.
- Assisted in the configuration of **SAP Cloud Connector**, enabling secure connectivity between on-premises and cloud systems.

Client: Walking Tree Technologies, Hyderabad, India

Role: System Engineer Intern

Jun 2018 – Dec 2018

Responsibilities:

- Gained foundational knowledge of **SAP Cloud Platform Integration (CPI) concepts.**
- Assisted in understanding iFlow structures and basic CPI components like **Content Modifier and Message Mapping.**
- Observed how **REST and SOAP APIs** are configured and consumed in CPI scenarios.
- Learned basic **XML, JSON**, and data transformation techniques relevant to CPI.
- Supported team with **documentation** of integration flows and interface mapping.
- Gained **hands-on exposure to SAP CPI Web UI** and design tools in a test environment.
- Understood on-premise and cloud system integrations.
- Practiced basic **error handling and message monitoring in CPI sandbox scenarios.**

- Assisted with version control using Git for **CPI iFlow artifacts**.
- Participated in discussions on **CPI deployment and transport process**.
- Understood the **use of Groovy scripts** in simple data manipulation tasks.
- Observed the end-to-end process of building integrations in a CI/CD setup.
- Helped prepare **user manuals and functional documentation** for internal CPI demos.
- Collaborated with the team in learning sessions on SAP integration architecture.

Education:

Master of Science, Information Systems | Central Michigan University. USA
Bachelors in Technology, Mechanical Engineering | Nalla Narsimha Reddy
Institutions, India