

Manuel Almagro Rivas

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Profile

Senior SAP Integration Consultant specialized in SAP Integration Suite, BTP, and S/4HANA (Cloud and On-Premise), with proven experience designing and delivering scalable integration architectures based on APIs and event-driven patterns. I have implemented and operated stable production integrations across multiple industries, including finance, biomedical, logistics, and energy. Strong expertise in API Management, Event Mesh, secure integration patterns, and enterprise integration best practices, combining architectural vision with hands-on delivery and technical leadership.

Experience

Avvale Spain — Dec 2023 – Present

SAP Integration Consultancy

Senior Integration Consultant — Dec 2025 – Present

- Entrusted with a growing share of architectural work: auditing third-party integration designs and decisions, reviewing existing landscapes, and aligning them with SAP standards.
- Designed high-volume integration scenarios under client platform constraints (e.g. basic-tier licensing without native queueing), including custom batching strategies now running in production.
- Implemented event-enabled integration for several clients across the energy, public, and chemical sectors, moving them beyond IDoc-based propagation to real-time, decoupled event-driven distribution.
- Lead integration resource during critical go-lives, owning resolution of in-flight production incidents, including data-loss scenarios and post-cutover changes resolved during the incident itself.
- Technical reference for the team, mentoring 4–5 consultants at any given time on delivery practice and acting as the link between client functional teams and external providers.
- Authored integration standards covering design, operations, and security practices, establishing common patterns across delivery teams.

Integration Consultant — Dec 2024 – Dec 2025

- Designed and delivered two core sales-order loading processes into S/4HANA, modularised into ~10 independent, connected integrations handling all client-specific logic (type-based routing, custom pricing strategies). Loading daily, at a rate of thousands of orders per month, with near-zero downtime since go-live.
- Worked across projects in finance, biomedical, logistics, and energy. Migrated legacy on-premise integration processes to SAP BTP cloud solutions. Implemented standard and custom integrations covering REST, SOAP, and OData APIs, with frequent use of Groovy and Java for scripting and automation. Took on client-facing responsibilities including technical documentation, effort estimation, and incident resolution within SLAs.

Junior Integration Consultant — Dec 2023 – Dec 2024

- Started in SAP integration monitoring and support, progressing to supervised delivery of standard and custom integrations. Industries included biomedical, education, and logistics.
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Education

University of Granada — 2016 – 2023

Bachelor's degree in Physics, Granada, Spain

- Completed while working part-time, with a focus on computational physics and data analysis.
Bachelor's thesis: "Photon absorption in a periodic lattice of quantum dots."

University of Jaén — 2013 – 2016

Bachelor's degree in Chemistry, Jaén, Spain

- Awarded for the highest university entrance score in the province. Transferred to the Physics degree in 2016.

Skills

SAP Ecosystem — SAP Integration Suite (Cloud Integration, API Management, Event Mesh) and Master Data Integration; SAP BTP (Neo and Cloud Foundry); Cloud ALM; SAP Cloud Connector; S/4HANA Cloud (Public Edition); exposure to ECC, SuccessFactors, C4C, CDC, Ariba, Concur, Emarsys; CDS views, BAPI and Custom Business Objects.

Integration & APIs — Message mapping (XML, JSON, IDoc, EDI, CSV); JMS and Data Store for async handling; REST and SOAP API development; OData V2/V4; XSLT; GraphQL; MCP for LLM integration. Authentication: OAuth 2.0, client-certificate, JWT, API key, Basic, CSRF.

Programming & Databases — Groovy and Java for integration development; Bash on macOS/Linux; SQL over Microsoft SQL Server, SAP HANA and MariaDB, with JDBC connectivity from integration runtimes (on-premise and cloud).

Platform & Infrastructure — Deployment to SAP BTP Cloud Foundry with auto-scaled Docker containers; DNS, reverse proxies and hosting; FTP/SFTP maintenance; SSL/TLS certificate automation; PKI (certificates, keystores, trust chains); basic Linux administration.

Testing & Debugging — Schema-driven API testing across REST (OpenAPI), SOAP (WSDL), OData and GraphQL with Postman, Bruno and SoapUI; functional, negative and regression testing; stress testing and timeout/retry/rate-limit validation; cross-system debugging with server-side logs and correlation IDs for distributed tracing.

Languages

Spanish — Native

English — C2 — Certificate of Proficiency in English (CPE), University of Cambridge Grade B: 219/230 — Nov 2018

Russian — B1 — Certificate in Russian Language and Culture, University of Granada Jun 2021

Certifications

- SAP Certified Associate — Integration Developer — Jul 2025
- Solace Certified Event-Driven Integration — SAP — Apr 2026