

Manuel Almagro Rivas

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Profile

Senior Integration Consultant specialized in **SAP Integration Suite**, BTP, and S/4HANA (Cloud and On-Premise), with particular depth in **API design** and **event-driven architecture**. I have delivered and operated stable production integrations across finance, biomedical, logistics, and energy, with strong expertise in API Management and secure integration patterns.

Experience

Avvale Spain — Dec 2023 – Present

SAP Integration Consultancy

Senior Integration Consultant — Dec 2025 – Present

- Led the move to event-based integration for several clients across the energy, public, and chemical sectors, taking them beyond synchronous propagation to real-time, decoupled distribution over SAP Event Mesh.
- Designed a batching system to load several thousand orders/month into S/4HANA under a fully synchronous client landscape (no JMS, Event Mesh, or Data Store), decoupling database reads from target loading with idempotency, final reporting, and manual reprocessing via a custom S/4HANA CBO; freed a ~10-person team from manual work to become key business users, with a design portable to event-driven once they adopt it.
- Led incident resolution during critical go-lives as the lead integration resource, owning in-flight production incidents including data-loss scenarios and post-cutover changes.
- Audited integration designs in monthly architecture reviews, correcting costly decisions (e.g. replacing 30 duplicated reporting deployments with a single reusable one; switching a custom store to Integration Suite's native Data Store for ~30× throughput and a comparable cut in billable calls; caching shared API data locally to reduce calls fivefold), reducing technical debt and easing governance.
- Authored integration standards (error handling, monitoring and design patterns, best practices) adopted across a ~50-person area, half of it on SAP integration, establishing common patterns across delivery teams.
- Mentored 4–5 consultants at any given time, unblocking their developments and coaching them on design trade-offs.

Integration Consultant — Dec 2024 – Dec 2025

- Designed and delivered two core sales-order loading processes into S/4HANA, modularised into ~10 processes handling all client-specific logic (type-based routing, custom pricing strategies). Loading daily, at a rate of thousands of orders per month, with zero data loss 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.
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Skills

Event-Driven Architecture — SAP Event Mesh (event configuration and emission from S/4HANA, both on-prem & public cloud); change data capture patterns for database sourcing; resilience and delivery patterns (dead-letter queues, retry with exponential backoff, idempotency); exception handling across synchronous and asynchronous flows; architectural tuning for throughput and stability (batching, concurrency, prefetch). Working knowledge of Apache Kafka. Delivered event-based designs across multiple client projects in the energy, public, and chemical sectors.

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 (on-prem and public cloud); exposure to ECC, SuccessFactors, C4C, CDC, Ariba, Concur, Emarsys; CDS views, BAPI and Custom Business Objects.

Integration & APIs — Message mapping using different protocols & formats (XML, JSON, IDoc, EDI, CSV); REST and SOAP API development; OData V2/V4; XSLT; GraphQL; Async adapters: JMS, DataStore, AMQP, Kafka; 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