

Advanced Manufacturing Case Study

Customer Overview

As a leading provider of advanced, life-enriching technologies, this company serves global market leaders in the life sciences, advanced industrial, next-generation semiconductors, and avionics end markets. Headquartered in Pittsburgh, Pennsylvania, the company is an essential partner in the design, development, and manufacture of advanced technologies, offering leading-edge innovation in sensing, detection, imaging, optics, and specialty illumination for customers worldwide.

The company is at the forefront of addressing many of the relevant trends impacting the world today, including precision medicine, industrial automation, artificial intelligence, and connected devices (IoT).

Challenges

The company made a carve-out acquisition in 2023. As part of the Transition Services Agreement (TSA), the company needed to complete the IT part of the carve-out transaction by the end of 2025.

As the TSA-mandated deadline approached, the company faced the challenge of fully separating and taking ownership of the purchased company's SAP ECC 6.0 environment from its existing IT landscape.

The project was complicated by:

- A highly complex SAP environment with over 50 known interfaces, third-party applications, and peripheral systems spanning SAP EWM, SAP GTS, OpenText, Pronovia, Seal Systems, all requiring careful separation planning.
- A hard TSA deadline requiring precise coordination between the company, its acquisition, and the original parent company across multiple workstreams.
- Dependencies on the separation of the general IT infrastructure with network and clients.

Why AWS

The customer chose AWS for several compelling reasons:

- **Scalability:** AWS provides the elastic, enterprise grade compute resources needed to run SAP ECC and its associated systems (EWM, GTS, peripheral applications) at production scale.
- **Cost Efficiency:** AWS infrastructure costs for both the project phase and ongoing operations were calculated and contractually agreed upon upfront, providing cost predictability.
- **Reliability:** AWS enables Syntax to manage the full carve-out lifecycle — from standing up isolated sandbox and project environments to hosting the final production cutover — all within a single, consistently managed infrastructure.
- **Innovation:** Deploying in AWS positions the company for future SAP modernization initiatives, such as an eventual S/4HANA migration, without the need to replatform the underlying infrastructure.

The AWS component is necessary to successfully complete the carve-out and separate the SAP systems and related environment from the original parent company's IT infrastructure.

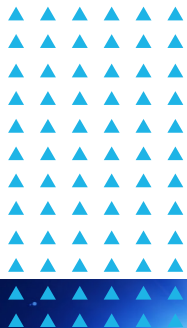
AWS services deployed include EC2 (r7i, r6a, m6a, c6a instances), EBS (gp3), EFS, S3, KMS, Transit Gateway, VPC Endpoints, CloudWatch, AWS Config, and Secrets Manager.



Why Syntax

The company selected Syntax to lead the SAP carve-out project, providing AWS infrastructure setup, SAP Basis (ECC, EWM) management, interface reconfiguration, cutover planning, and ongoing managed services. It partnered with Syntax because of their:

- **Expertise:** Syntax has deep expertise in SAP ECC carve-outs and AWS-hosted SAP environments, including the specific skills needed to manage complex multi-system landscapes with EWM, GTS, and numerous third-party integrations. Syntax also provides post-cutover AWS infrastructure managed services and ongoing SAP Basis support.
- **Support:** Syntax's dedicated team provided continuous coordination across the purchased company, original parent company, and third-party vendors throughout all project phases — Discovery, Build/Separation, Cutover Preparation, Cutover, and Hypercare — ensuring alignment and rapid issue resolution.
- **Proven Track Record:** Syntax's global presence and proven track record with complex SAP carve-outs and AWS-hosted enterprise ERP environments gave the company confidence in their ability to deliver a low-risk, on-time transition at the scale and complexity required.
- **Global Presence:** Syntax combines worldwide delivery capabilities and regional expertise to provide consistent, scalable support across geographies, time zones, and complex business environments.

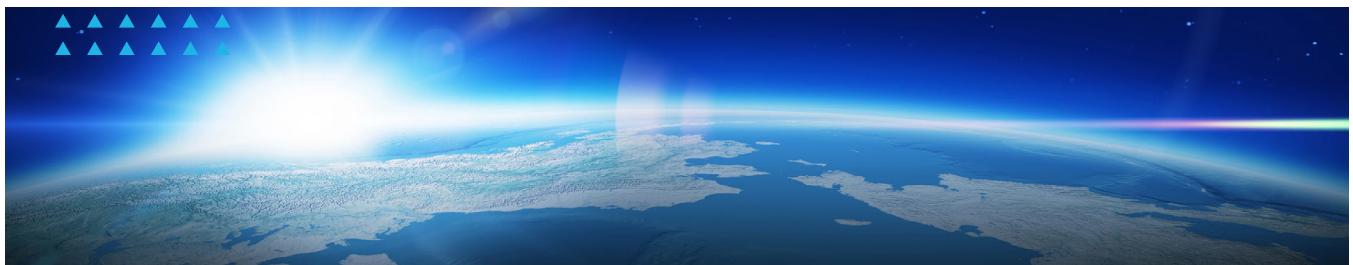


Project Overview

Following the evaluation of the most optimized path for upgrading the carved-out SAP solution, Syntax and the company commenced an agreement on October 2025, with AWS consumption and Syntax managed services starting in February 2026 and ongoing for a minimum of 3 years, to ensure the complete separation and transition of the SAP ECC 6.0 system— including its integrated environments and interfaces— from the original ERP landscape. The project was structured into five phases:

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- **Phase 1 - Discovery:** Confirmed the full list of interfaces and integrated add-ons, finalized scope, agreed on the migration strategy, and approved the AWS architecture.
- **Phase 2 - Build/Separation:** Syntax provisioned the AWS infrastructure, setting up separate IT infrastructure in AWS to accommodate the test and project environments. The environments were initially set up under the responsibility of the transferring company and then handed over to the buyer on a specific date along with the AWS infrastructure. This ensured access was guaranteed throughout the entire transition, and the handover took place in a single, coordinated event.
- **Phase 3 - Cutover Preparation:** Syntax ingested copies of development systems, performed interface adjustments, and conducted integration testing in the sandbox environment. It also restored dev systems as needed, conducted cutover rehearsals, replicated production changes to the test environment, and finalized all interface switch-over plans.
- **Phase 4 - Productive Cutover:** On cutover weekend, all interfaces and connections were converted. The AWS account was organizationally transferred from the original parent company to the purchasing company.
- **Phase 5 - Hypercare:** A standard four-week Hypercare phase followed to ensure operational stability.



Lessons Learned

Several key lessons emerged from the carve-out project:

- **Communication is Crucial:** A thorough discovery phase is essential in carve-out projects. Confirming the full interface and integration landscape upfront directly determines the overall project schedule and risk profile.
- **Thorough Analysis Required:** Greenfield and data migration alternatives (S/4HANA transformation, ECC data migration) were evaluated but rejected due to the integration complexity and business risk involved. Maintaining the ECC 6.0 lift-and-shift approach was the most viable path to meet the TSA deadline without disrupting operations.
- **Resource Commitment:** Parallel environment management, maintaining both the original parent company, controlled production environment and Syntax controlled sandbox/project environment simultaneously, enabled thorough testing and change preparation without impacting live operations until the defined cutover weekend.
- **Flexibility and Adaptability:** Coordinating the organizational transfer of the AWS account from the parent company to the purchasing company ahead of the cutover weekend — so that only network disconnection remained on go-live day — significantly reduced cutover day risk and simplified the final handover event.

Outcome

The SAP carve-out migration was completed successfully, followed by reliable and high-performance operation. The project represents a landmark IT separation achievement, delivering full ownership and operational independence of a complex, 50+ interface SAP ECC 6.0 environment on AWS. By executing the project in a structured fivephase approach—with parallel environments, rigorous testing, and a single coordinated cutover event—Syntax ensured business operations experienced zero disruption throughout the transition.

Results include **99.9% uptime** on AWS, **100% Response rate SLA** for critical and high alerts, and **\$0 CAPEX Investment**.

The success of this carve-out exemplifies the importance of meticulous planning, experienced SAP and AWS expertise, and close collaboration in navigating one of the most technically complex IT separation projects in enterprise ERP.



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About Syntax

Syntax is a leading global technology solutions provider driving enterprise transformation in the cloud. We help organizations modernize mission-critical applications through AI-enabled innovation, industry-tailored outcomes, and end-to-end solutions across strategic advisory, implementation, and managed services. Through our Boutique @ Scale approach, we tailor every engagement to our customers' priorities, blending boutique-level agility and care with the reach and resilience of a global enterprise. Supported by strategic partnerships with AWS and other technology leaders, we empower customers to scale faster, work smarter, and build for what's next. [Learn more at syntax.com](https://syntax.com).



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