

Technology Orchestration

for As-a-Service business models

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With epic technology disruptions affecting companies across industries, customers increasingly are demanding more flexibility from their technology solutions at a more manageable and predictable cost. High-tech companies, in response, are exploring a shift from their traditional business model of selling products to one that enables customers to buy those products as a service.

In addition to providing an enhanced customer experience and fostering greater customer loyalty, As-a-Service models are inherently more flexible and scalable; enable customers to move their technology spend from CAPEX to OPEX; and help companies efficiently monetize data to drive innovation and growth.

However, while As-a-Service business models provide significant benefits to both high-tech companies and their customers, adopting them is far from easy. It requires not only a comprehensive, well-articulated business strategy backed by strong organization change management, but also new or substantially upgraded capabilities across product engineering, sales and marketing, manufacturing and supply chain, after sales, billing, and core finance.

An As-a-Service transformation is highly cross-functional and requires new capabilities across enterprise processes.

Legacy capabilities

Waterfall Product Development
Siloed Hardware & Software Development

Traditional CPQ
Single order
Product pricing
Individual products one fit for all

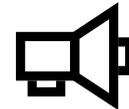
Siloed product
Physical delivery
Traditional logistics & distribution

Warranty sales Reactive process
Periodic maintenance Manual renewal
Sporadic customer engagement

Hardware sales revenue recognition
Hardware & software siloed billing



R&D



Sales & Marketing



Mfg. & Supply Chain



After Sales



Enterprise Functions

New capabilities for EAAS

Connected products
PLM – ALM integration
Digital thread

Bundled offerings Consumption pricing
Entitlement management Sales order split
eCommerce based CPQ

Connected offerings (IoT): Telemetry capability
Fixed delivery + Virtual provisioning

Cross sell/up sell
Proactive device monitoring
Proactive customer engagement
Analytics driven renewal

Convergent invoicing
Usage based convergent invoicing
New revenue recognition methods

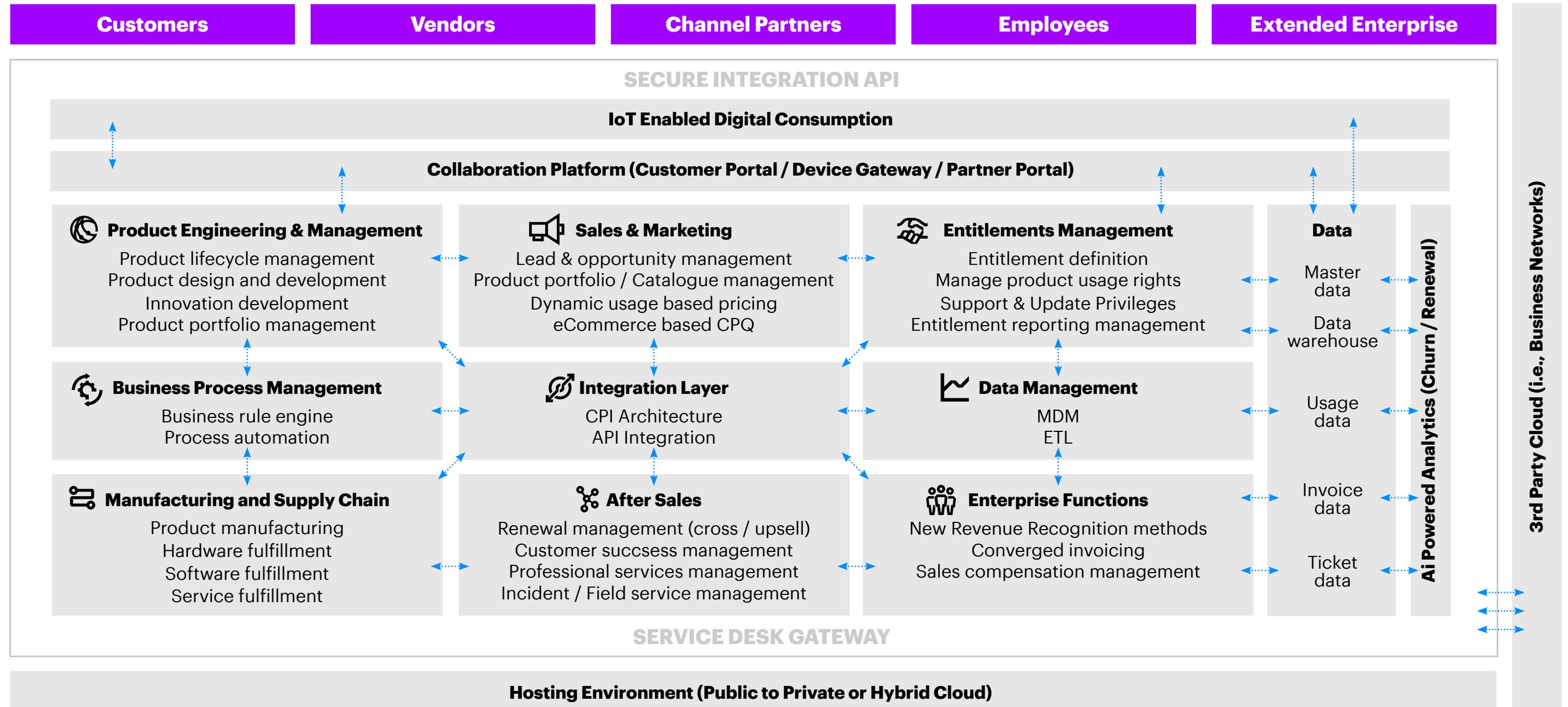
A holistic reference architecture for technology enablement

With a shift to As-a-Service, a company's operating model and business processes clearly undergo a significant change. But that change can't happen without an accompanying holistic technology and infrastructure transformation to enable the new As-A-Service model. The fact is, most companies' legacy technology environment, which has served the product-centric model well, can't provide the capabilities—not to mention the flexibility, scalability, and security—that As-a-Service models need to succeed.

The technology to enable the adoption of an As-a-Service shift not only affects an enterprise's inherent capabilities, but also transforms the experience across a company's ecosystem.



This reference architecture provides a high-level view of the solutions that are key to deploying a holistic As-a-Service infrastructure.



Key business function requirements for new technology and infrastructure



Product Engineering and R&D

A prerequisite for As-a-Service is that products are “connected” and the company can continuously track their usage. As a result, the technology architecture must be able to capture the essential operational performance data from the deployed products, and feed that data back to the company’s R&D function to provide insights that can accelerate product releases and upgrades that align with customer requirements. Technologies like digital twin and digital thread play a pivotal role here by tracking products from their launch to end of life.



Sales & Marketing

Companies need to pivot from a “sales event” mindset to a “customer success” mindset that focuses on ensuring sustained product usage, surpassing customer expectations, and building strong customer relationships. The new technology must enable sales people to bundle hardware, software, and services to create an integrated offering for customers, as well as allow customers to configure own offerings with custom billing contracts and usage terms. Also needed are advanced CPQ features like guided selling, automated quoting, and intelligent approval workflows to minimize administrative overhead and allow sales reps time to have focused customer conversations to build more meaningful relationships. Finally, technologies must be in place to support new sales compensation structures aligned to new customer success metrics, as well as to enable a shift from demonstrations and proofs of concepts to self-service, fully functional solution trials that are key elements of a “land and expand” sales model.

Entitlements Management

Because an As-a-Service model facilitates the sale of offerings that are flexible, scalable, and personalized to meet customers' usage requirements, it must allow companies to offer multiple entitlement models from which customers can choose to suit their business objectives. Entitlements remain an integral part of an offering throughout its lifecycle, requiring a close monitoring across the fulfilment, billing, and after sales cycles. Hence, entitlements systems must be tightly coupled with e-commerce sales, order management, CPQ, billing, licensing, and provisioning systems to enable real-time analytics and reporting for actionable insights.

Billing

In an As-a-Service model, invoice accuracy and a single "convergent invoice" experience are extremely important to customer satisfaction. That's why the technology must be able to handle a high volume of complex, usage-based invoices that cover hardware, software, and services. While the choice of an appropriate billing process is up to the company, technology should support two major billing dimensions: billing type (fixed usage, tiered usage, subscription, etc.) and billing frequency (fixed, dynamic, or hybrid). The technology architecture may be further enhanced to accommodate additional options based on services rolled out over time.

After Sales

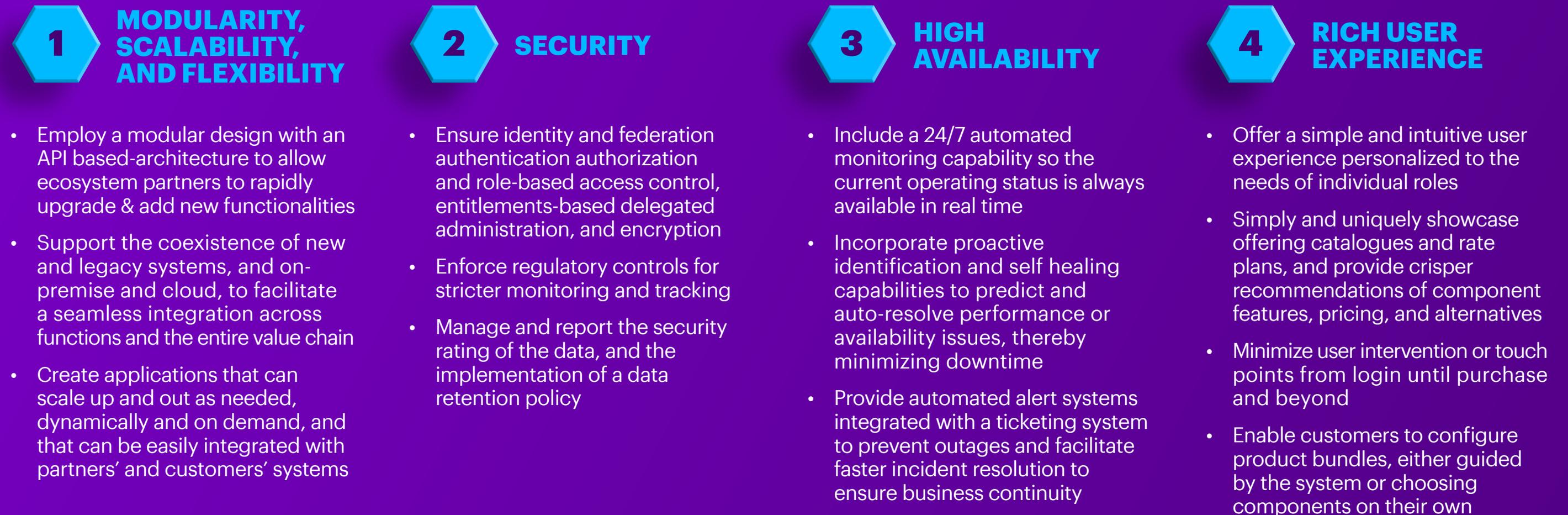
The success of an As-a-Service model hinges on a high renewal rate to boost customer lifetime value. As a result, a robust renewals management system with strong AI and analytics capabilities, and that is tightly integrated with asset management tools, is key. It generates insights from customer data that the Customer Success Manager can use to proactively deploy the right customer retention strategies and to identify and capture cross-sell and up-sell opportunities. The new architecture should support complex renewals; handle quotes for new opportunities, add-ons, and renewals all in one place; simplify advanced approvals; and provide actionable insights on products and pricing.

Finance

While As-a-Service business models enable organizations to mine new revenue streams, it can be challenging to understand their impact on the revenue recognition process. As organizations navigate to As-a-Service, the technology and infrastructure must be able to support the new financial accounting processes that emerge from personalized pricing options and recurring invoice payments. Because invoice accuracy is of utmost importance to customers, automated invoicing systems with minimal billing errors and accounting discrepancies are required to avoid time-consuming reconciliations.

Four key considerations for technology enablement

When envisioning the new technology and infrastructure landscape for the As-a-Service business, companies should keep four important things in mind.



Embracing an As-a-Service model requires a complete rethinking of how the business operates. Furthermore, planning, implementing and operating all the required capabilities typically involves a highly complex business and technology transformation. Contact us to learn more about how Accenture can help you master this complexity and execute a successful journey to an As-a-Service business.

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