

INFOR ON AWS

Modern software for Industry 4.0 success

Simplify operations for increased productivity

Successful manufacturers have weathered a series of tectonic shifts in operations with the continued introduction of new technologies and optimized processes, but none have amassed the transformative power of Industry 4.0.

The fourth digital revolution is an amalgamation of hundreds of years of innovation paired with cutting-edge technologies ranging from the Internet of Things (IoT), to cloud computing, smart data exchange, and robotics. This evolution has helped enhance automation, precision, supply chain connectivity, and the efficient, digitized manufacturing of goods and services.

It's time to embrace the fourth digital revolution for connected, smarter, agile manufacturing.

CHALLENGES

Legacy software impedes manufacturing productivity

Manufacturing productivity has been stagnant over the past decade. Industry 4.0 is here with a wealth of innovative technologies and workflows built to address manufacturing productivity challenges

Legacy software systems are no match for the expectations faced by today's manufacturer. The value of modern, Industry 4.0-ready software lies in its ability to automate workflows and improve business processes—via technologies such as digitization, advanced and predictive analytics, virtual and augmented reality, and the industrial internet of things (IIoT)—making it easier to run operations and deliver products faster.

Manufacturers need to rapidly identify the limitations across process execution, workforce development, asset management, and customer experience areas and invest in modern software technologies to achieve productivity gains, reduce labor costs, and uncover new revenue streams

Cloud-based software systems are imperative for manufacturers looking to quickly transform their operations and become a competitive force.

Top 10 reasons manufacturers need Industry 4.0-ready software

1. Manufacturers have reached limits of productivity
2. Expansion into new business models (i.e. service and subscription)
3. Ability to improve connectivity through low cost sensors
4. Trend toward “smart manufacturing” and the factory of the future
5. Availability of cloud computing to share data globally and externally
6. Potential to improve asset ROI and utilization through optimized maintenance
7. New generation of workers demand connectivity, collaboration, and analytics
8. Drive to reduce costs
9. Global supply networks and demand for flexibility
10. Customer demand for customization, fast delivery, and communication on their terms

WHERE TO START

Quickly optimize manufacturing operations

Manufacturers willing to embrace Industry 4.0 connectivity and modern automation opportunities stand to see significant improvements in productivity—not only on the shop floor, but also across the enterprise.

Here's a look at the key business areas manufacturers should examine first for the quickest gains within their operations.

1. Shop-floor optimization

Manufacturers can use Industry 4.0-ready technologies to help digitize shop-floor processes that are still largely paper-based. Modern software provides ways to automate and streamline steps as new functionality anticipates the needs of the user, based on roles and custom-defined workflows.

2. Predictive asset maintenance

Manufacturers need their mission-critical shop-floor equipment and assets to keep running—even when the machinery is past its prime and needs frequent repairs or even replacement. Today's manufacturers leverage widely-available sensors to access the internet of things and pull that data into enterprise systems. Modern enterprise asset management software systems contain powerful predictive capabilities combined with innovative business intelligence (BI) and artificial intelligence (AI) that uses algorithms and data science to identify patterns in data points and project likely outcomes.

3. Transparent supply chain

Efficiently filling customer orders is top of mind for manufacturers. They need end-to-end supply chain technologies that give them a network-wide view of inventory on order, so they can see where potential bottlenecks may be—whether it's from the supplier during transport, or once it makes it to the manufacturing facility. In today's global manufacturing environment, belonging to a world-wide commerce network is becoming a key component of doing business.

4. Workforce development

New ways of doing business mean new jobs and responsibilities for manufacturing employees. Workforce management and human capital management systems can help a manufacturer's employees succeed as the roles and responsibilities within the workplace shift. These software tools can provide ease of use, automation, and analytics that help managers plan the use of resources and control labor costs, while also enhancing the employee experience. AI and machine learning embedded into software can help to augment human decisions for a more effective workforce.

5. Customer-centric product development and enhanced customer service

Customers are increasingly demanding participation in the product development process, and this collaboration can introduce more complexity into an already complicated manufacturing process. By using the latest innovations in configuration, product lifecycle management, and supply chain software, manufacturers will be well-positioned to collaborate efficiently with customers to deliver the customized products and services they need.

MODERN SOFTWARE FOR TODAY'S MANUFACTURER

Designed to provide an unmatched user experience, Infor CloudSuite solutions deliver manufacturing-specific capabilities without extensive customizations or integrations. Infor CloudSuite solutions combine the Infor cloud platform built on infrastructure services from Amazon Web Services (AWS), and Infor OS—enabling cloud applications to work collaboratively.

Manufacturers need to leverage modern technologies to win during Industry 4.0. Forward-thinking manufacturers may find they need a collection of new capabilities—such as the cloud, analytics, artificial intelligence (AI), and the internet of things (IoT)—to support organizational initiatives and connect people, processes, and data.

By moving critical business applications to an Infor CloudSuite, businesses can take advantage of automatic upgrades that deliver the latest advances in enterprise functionality. As users become more productive, technology teams can spend less time managing software deployments and customizations—and everyone can focus on more strategic initiatives.

Keep applications current and connected, leverage powerful functionality, and optimize critical business processes—with Infor CloudSuite.



World-class infrastructure

The Infor cloud is built on AWS, the market leader for cloud-based infrastructure as a service (IaaS) and platform as a service (PaaS) for over 10 years. Leveraging the multi-billion-dollar annual R&D investment in technology by AWS, Infor is able to focus on its core mission of building critical capabilities into its applications.

Infor has partnered with AWS to deploy Infor CloudSuite solutions in more than 20 AWS regions and 61 Availability Zones (AZs) across the globe—and that footprint continues to grow to meet customer requirements.

THE INFOR SOLUTION

Supporting modern manufacturers—today and tomorrow

Infor CloudSuite solutions on AWS leverage modern technology to help manufacturers achieve their productivity goals and overcome the complexity of legacy software and hardware while increasing overall agility and scalability.

Infor OS and Infor CloudSuite can help manufacturers rapidly modernize their IT environments and seamlessly bridge the gap between on-premises data centers and the cloud. This combination of services can improve employee productivity with high application availability and the daily delivery of transparent and easily accessible business data.

By increasing uptime and scalability, and incorporating IoT, workflow, and business capabilities, Infor OS, Infor CloudSuite, and AWS ensure fewer disruptions and enable you to achieve your goals faster.



Innovate to drive differentiation

Gain a competitive advantage with solutions tailored to your specific industry needs by connecting and extending Infor OS to utilize machine learning on AWS.



Simplify modernization

Deploying Infor OS and Infor CloudSuite eases the burden on your IT and Dev teams through remote management, meaning no more upgrades, no more testing, and no more maintenance.



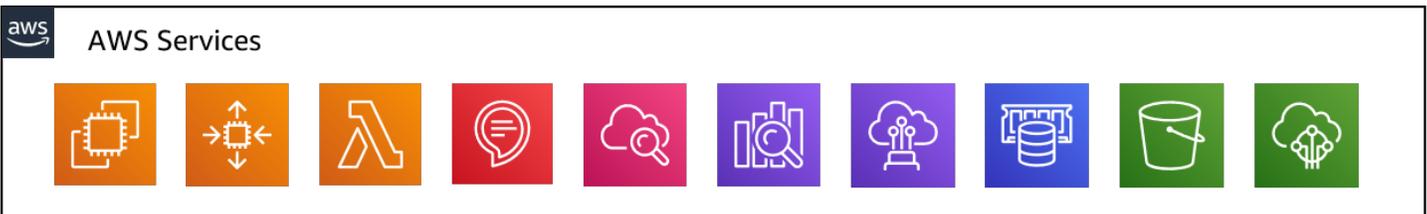
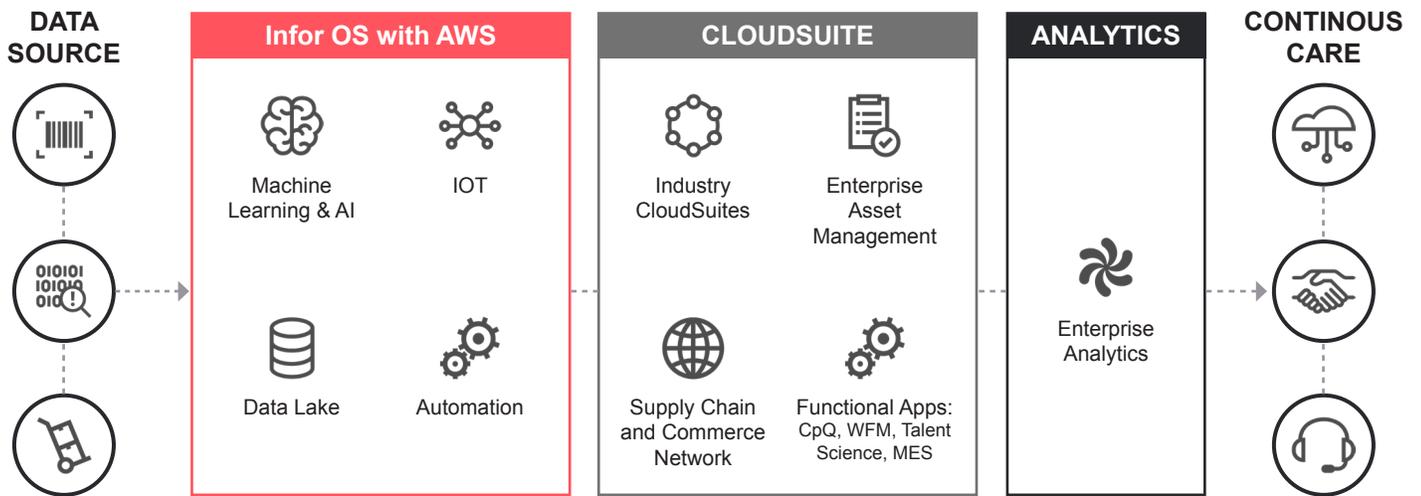
Process integration

Integrate Infor OS and Infor CloudSuite with AWS and other solutions you already have deployed to realize the benefits of a simple, powerful, scalable network.

Productivity delivered



Innovation architecture



How it works

Infor helps deliver automated deployments and high availability by streamlining the deployment process. This enables your manufacturing facilities to use Infor OS and Infor CloudSuite as a reference development platform for your modern network and applications. Infor delivers the most comprehensive solutions to fulfill the performance needs of your network and application updates in near real time. These solutions also employ built-in features to help you reduce downtime. Deploying Infor on AWS makes it possible for your organization to more rapidly unlock data intelligence and drive innovation.

Solution capabilities

Benefit from such features as the automation of multi-step and complex tasks, a unified user experience, an application builder, networked analytics and BI, as well as open business process integration. These components enable:

Rapid scalability

Infor CloudSuite solutions can easily adjust to changes in processing volume as your business demands fluctuate. This is, in part, because of the way Elastic Load Balancing automatically adjusts to cover shifting capacity requirements. This often proves to be important in businesses that need to respond to highly variable levels of demand, such as seasonal sales or annual events.

High availability

Infor OS and Infor CloudSuite can be spread across multiple AWS Regions and AWS AZs to optimize fault tolerance and reduce risk of downtime. These solutions minimize single points of failure to keep your global manufacturing operations running 24x7.

Enhanced elasticity

Rapidly deploy mission-critical enterprise applications with a wide variety of server configurations and varying utilization, based on the flexibility and power of Amazon Elastic Compute Cloud (Amazon EC2). This is because Amazon EC2 replaces vast amounts of physical server hardware you would otherwise have to purchase and deploy, leaving you with reliability and availability at no additional cost.

Auditing and compliance

For several industries, compliance and audit needs are critical requirements. Since Infor supports compliance at the application level and AWS maintains high compliance standards for the underlying infrastructure, customers gain an important advantage in complying with detailed industry standards.

Rapid disaster recovery

Infor solutions on AWS help ensure business continuity in the face of the most challenging disaster recovery scenarios. They can be distributed globally, in addition to the fact that AWS offers sophisticated failover capabilities everywhere they operate. Combine the two, and you get rapid redeployment of both applications and data in response to nearly any service disruption.

Automate data recovery

Automate data recovery and minimize disruptions with storage security features using this advanced, high availability solution.

Extensibility

Quickly develop enterprise capabilities tailored to your needs with the extensibility provided by Infor OS. Whether you seek an intuitive consumer-grade web interface or a high-productivity form, Infor OS can help create the right experience with minimal coding via desktop, tablet, or smartphone. The OS Developer Portal offers self-service tools for customers to tailor Infor OS to their own business applications and needs.

Accelerate time to value

Deploy rapidly, reduce operational complexity, and eliminate capital hardware expenses.

Performance

Take advantage of more than 50 services provided by AWS to optimize compute performance, data persistence, networking, caching, monitoring, and incident response. Infor cloud services utilize content distribution networks (CDN) to cache static content across a network of geographically distributed edge devices. Edge caching and dynamic point-of-presence optimization enables our customers to experience low latency globally.

Agility

Infor has built a sophisticated continuous integration and continuous deployment pipeline (CI/CD), empowering developers to rapidly build, test, and deploy Infor CloudSuite enhancements to AWS. Using state-of-the-art tooling, Infor's automated release process allows customers to benefit from rapid product innovation with no requirement for costly professional services engagement for upgrades.

Security

Infor CloudSuite solutions are deployed in data centers with multiple layers of operational and physical security that maintain compliance with industry standards (more details and security certifications can be found at trust.infor.com). Infor uses multi-tiered monitoring to identify, analyze, and act upon issues. Extensive use of telemetry allows for automated notifications or self-healing with continuous focus on predictive and preventative issue management.

Infor and AWS

AWS and Infor share a common focus on several key strategic imperatives: Customer experience, rapid pace of innovation, and standards-based architecture. Based on decades of practical application and continuous enhancements from the latest innovations--from mobile access and social technologies to market-driven analytics--Infor solutions are built to deliver customer success. By leveraging the AWS global infrastructure, Infor empowers customers to benefit from AWS cloud expertise and economies of scale.

Get started with Infor on AWS

Get more information on these solutions:

[Infor OS](#) | [Infor CloudSuite™](#)

Contact a sales rep to get started today
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