



# Plant Operations



## Microsoft® and aspenONE™ for the Process Industries Help Manufacturers Achieve Higher Levels of Operational Excellence

Together, AspenTech and Microsoft provide a powerful offering that addresses some of the most critical business challenges the process industries face, including business performance, asset productivity, and margin and cost management. As a Microsoft Gold Alliance Partner, AspenTech's aspenONE solutions are built on the solid framework of Microsoft technologies. Customers experience significant productivity improvements through the seamless integration between aspenONE and Microsoft's many business applications such as Microsoft Office Excel®, Microsoft Office SharePoint® Server and Microsoft BizTalk® Server. With the broadest solution footprint in the process industries – from engineering through operations and across the extended supply chain – combined with industry-leading applications built on Microsoft, customers are empowered with an unparalleled competitive advantage to drive and sustain operational excellence.

### Solution Overview

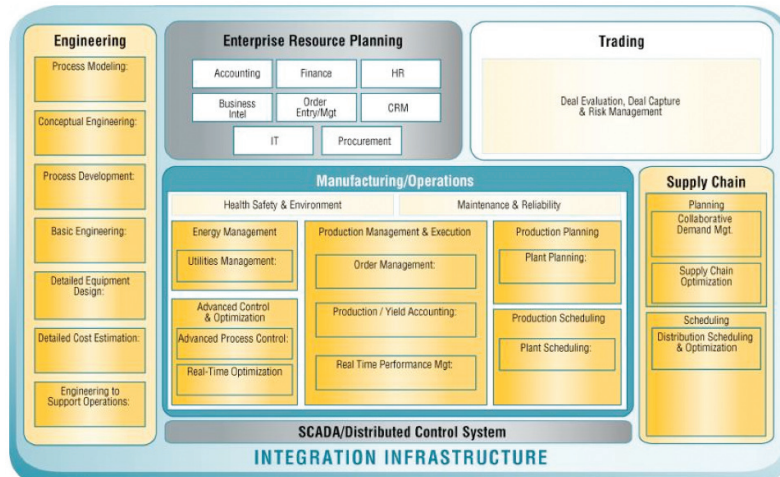
aspenONE, now Windows Vista™ compliant, is the market-leading application suite that integrates and optimizes engineering, manufacturing, and supply chain operations for the process industries. Unlike point solutions that only address specific process areas, aspenONE addresses inefficiencies end-to-end throughout engineering, the plant and the supply chain.

aspenONE, leveraging Microsoft's platform technologies and applications, allows customers to make sound, economically based decisions more quickly, closer to the process; to collaborate more easily across traditional silos within the organization, to reduce deployment and support costs through the integrated application suites, and perform mission-critical operations on a more secure and common desktop platform. Process manufacturers are realizing greater business value through their investments in AspenTech's aspenONE solutions – and this is empowered by Microsoft's next generation desktop operating system.

The aspenONE application suite includes process simulation and optimization, production planning and scheduling, plant information management and execution, advanced process control, and supply and distribution for the Energy market (upstream and downstream), the Chemicals industry (Bulk Chemicals to Polymers through to Specialty Chemicals), the Pharmaceutical industry (including recipe development and plant execution) and into the Consumer Packaged Goods, Power & Utilities, Metals & Mining and Pulp & Paper markets. Through the continual development of innovative solutions based on the latest Microsoft technologies such as Microsoft's Application Virtualization and Microsoft's Office Business Applications, AspenTech helps manufacturers to quickly achieve higher levels of operational excellence, ensuring a rapid return on investment with low total cost of ownership.

**aspenONE is a flexible and scalable solution designed to meet the distinctive needs of the key process industries, as follows:**

- **Engineering and Construction:** Enable engineering, procurement and construction companies to deliver projects faster and more economically while collaborating closely with customers and vendors and improving engineering quality.
- **Exploration and Production:** Significantly shorten capital investment analysis and time to first production, centralize and leverage limited process expertise to reduce off-shore personnel, and optimize production system performance in real-time.



- **Refining and Marketing:** Optimize feedstock selection and scheduling, optimize plant performance given the trade-offs between capacity, yield and energy, and exploit market volatility through increased visibility, flexibility and response time.
- **Chemicals (Bulk and Olefins):** Optimize feedstock selection and scheduling, improve plant efficiency through continuous process innovation, maximize capital efficiency and reduce environmental risk.
- **Polymers:** Consistently identify optimum operating conditions, minimum inventories, transition strategies and new grades and drive increased quality and agility in production.
- **Specialty Chemicals and Pharmaceuticals:** Accelerate new product innovation and time-to-market, maintain regulatory compliance, deliver superior customer service without excessive inventory, and reduce cost of goods.

This solution map depicts aspenONE's integrated applications spanning engineering, manufacturing, and supply chain.

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## About AspenTech

AspenTech is the leading provider of award-winning process optimization software and services. AspenTech's integrated aspenONE solutions enable manufacturers to reduce costs, increase capacity, and optimize operational performance end-to-end throughout the engineering, plant operations, and supply chain management processes. For more information, visit [www.aspentech.com](http://www.aspentech.com).

## About Microsoft in Manufacturing Operations

Microsoft's technologies, software, and infrastructure platform provide unequaled collaborative capabilities with security and enterprise business process flows. Using partner solutions built on these technologies, people in manufacturing can access needed product information using familiar desktop tools, empowering their connected community of users to make fast and accurate fact-based decisions. Using real-time information, people can view industry-specific KPIs, trace every action taken for a specific component for a particular order, and provide customers with transparency into inventory and product availability. The results: Faster decisions, reduced costs, greater customer satisfaction and improved operational efficiency.

Over 80% of all Manufacturing Control Systems currently installed are based on Microsoft and our ISV partner solutions. Microsoft and our expansive ISV partner community deliver the strongest heterogeneous platform to provide end-to-end solutions for collaboration, analytics and integration.

Microsoft was a founding member of OPC (OLE for Process Control) and Microsoft is actively involved in ISA95 standards setting.

[www.microsoft.com/industry/manufacturing](http://www.microsoft.com/industry/manufacturing)

## About Microsoft

Founded in 1975, Microsoft (Nasdaq "MSFT") is a worldwide leader in software, services and solutions that help people and businesses realize their full potential.

[www.microsoft.com](http://www.microsoft.com)

people  ready

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