



NVIDIA is a global semiconductor company with operations in multiple countries and regions, producing a wide range of products, including integrated circuits, memory chips, and sensors. The company has implemented SAP Integrated Business Planning (IBP) to support its sales and operations planning (S&OP) process, demand planning, supply planning, inventory optimization, and allocation and order-based planning.

Challenges	Solution	Results
<ul style="list-style-type: none"> • <u>Lack of visibility and accuracy in demand forecasting:</u> NVIDIA's demand forecasting process was manual and fragmented, resulting in inaccurate and unreliable demand forecasts. • <u>Inefficient supply planning:</u> The supply planning process was slow and required significant manual effort to maintain and update. NVIDIA also faced challenges in balancing inventory levels with demand. • <u>Inadequate reporting and analytics:</u> The existing reporting and analytics capabilities were limited, making it difficult for NVIDIA to gain insights into the performance of its planning processes. • <u>Poor allocation and order-based planning capabilities:</u> NVIDIA was struggling to effectively allocate available inventory to meet customer demand and to efficiently plan production in response to specific customer orders. 	<ul style="list-style-type: none"> • <u>Demand Planning:</u> CloudPaths implemented a demand planning process using statistical forecasting and demand sensing techniques. The approach incorporated real-time data feeds from multiple sources, such as point-of-sale data and social media feeds. • <u>Supply Planning:</u> CloudPaths implemented a supply planning process utilizing SAP IBP's optimization capabilities to generate feasible and optimized supply plans. The approach included the creation of a multi-echelon inventory optimization model that balanced inventory levels with demand and supply constraints. • <u>Reporting and Analytics:</u> CloudPaths implemented a suite of reporting and analytics capabilities utilizing SAP IBP's embedded analytics and dashboards to provide visibility into the performance of the planning processes. • <u>Allocation and Order-Based Planning:</u> CloudPaths implemented an allocation and order-based planning process that leveraged the SAP IBP's allocation and order-based planning capabilities. The rules-based allocation model prioritized orders based on criteria such as; customer importance, product profitability, and delivery date, which created production orders directly from customer orders, ensuring that production was aligned with customer demand. 	<ul style="list-style-type: none"> • Engaging CloudPaths resulted in several benefits for NVIDIA, including: • <u>Improved demand forecasting accuracy and visibility:</u> reducing inventory levels and improving customer service levels. • <u>Streamlined supply planning process:</u> resulting in increased supply chain efficiency and reduced lead times. • <u>Enhanced reporting and analytics capabilities:</u> enabling the company to gain insights into the performance of its planning processes and make data-driven decisions. • <u>Improved allocation and order-based planning capabilities:</u> resulting in increased customer satisfaction, improved delivery performance, and reduced inventory levels.
<ul style="list-style-type: none"> • Conclusion - Overall, CloudPaths' SAP IBP support and enhancement services were integral in enabling NVIDIA to improve its planning processes, reduce costs, and improve customer service levels. The implementation of allocation and order-based planning capabilities enabled NVIDIA to respond more effectively to customer demand and increase its competitive advantage in the market. 		