Vcinity for Manufacturing

Create a Better Future

Solution Brief

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Complex supply chain workflows, legacy machinery, interoperable systems, and the existence of multiple copies of data have collectively posed significant challenges in modernizing and optimizing workflows and operational processes for the manufacturing industry. Additionally, with teams and supply chains spanning across continents, transferring large files to and from facilities, unlocking data siloes, and waiting for data to arrive has proven to be cumbersome, time-consuming, and expensive. To stay agile amidst evolving market changes and innovate to accommodate customer demand, manufacturing organizations must start using data to their advantage.

Manufacturing firms strive to adopt scalable strategies to manage, protect, and work with data and deliver excellent service. That can mean modernizing infrastructure and deploying enhanced data analytics and AI algorithms to increase efficiency. The future of manufacturing rests in manufacturing institutions' ability to best use their data.

Reimagining Manufacturing with Vcinity

As data creation is booming, efficiently making that data accessible to equally dispersed workloads, artificial intelligence, analytic engines, and manufacturing teams is increasingly difficult due to geographical distance, network, bandwidth, and more.

Vcinity breaks down data transfer barriers of time and proximity. It empowers manufacturing companies with the agility to choose how and where they want to use their data by using one or both of two key capabilities. First, to securely move their data ultra-fast to and from anywhere. Second, to remotely access data in near real-time without first having to move copies of the data to the application. Now, global teams anywhere can have accelerated access to data everywhere so you and your team can focus on what to do with that data, not how to get ahold of it.

Unbounded and simplified data access across geographies, hardware and software platforms, and hybrid locations creates data transparency, availability, and agility. From an operational perspective, this allows your manufacturing organization to stay compliant, get better business insights, make better decisions, and drive up revenues. From a supplier perspective, Vcinity can help organizations like yours drive more transparency and reduce complexity across disparate systems, leading to increased agility and resilience.

Use Cases

Let's look at a few examples of how near-instant data access everywhere can drive a myriad of benefits across common manufacturing workloads and projects:

1. Cloud Migration and/or Datacenter Consolidation

Manufacturing organizations may choose to move huge volumes of data from legacy to new and often different infrastructures. This may be a part of a digital transformation initiative or due to a merger or acquisition. Ideally, this move should provide a basis for more efficient organization systems, workflows, and profitability—but the transition itself is complex, time-consuming, and expensive.

Vcinity Solution: Accelerate Data Transfers to and from Anywhere with Ultra-Fast Data Movement

With Vcinity, you can move data efficiently and securely from one location to another, regardless of distance between physical sites or data scale. Thus, you can maintain critical applications during the transition, reduce migration timelines, and save on overall project costs. Additionally, Vcinity's location-, cloud-, and storage-agnostic design gives organizations the flexibility to experiment with the mix of hybrid cloud.

2. Computer-Aided Engineering Product & Production Design

Working with design and engineering teams across continents can be challenging. Large files, like CAD drawings or parallel simulations, must be sent back and forth through a secure transmission portal as teams collaborate. Although version control is still difficult, and data is often still siloed. Waiting to transfer these datasets over latent networks delays the productivity of a specialized workforce and process. to make data tradeoffs or assumptions based on limited data.

Vcinity Solution: ccelerate Access to Drawings and Simulations, regardless of their Physical Location

With Vcinity's remote data access capability, engineering teams don't have to waste time waiting to download files—instead seamlessly collaborate with global teams with a single, globally accessible set of models and simulations. This allows teams to increase productivity, foster innovation, and enhance product time-to-market. Vcinity's software solutions minimize data siloes and lower the total cost of ownership by decreasing the number of copies. They also integrate more easily with secure, multi-user environments and provide a more efficient global collaboration across essential workloads.

3. Connected Supply Chain

Manufacturing companies experience very low efficiency—often a result of poor supply chain transparency—illustrated by decision-making stifled by large volumes of data, poor data quality, and data inaccuracy. Additionally, the widespread problem of siloed data across hybrid clouds and various geographies causes difficulty in accessing and using the correct data. This causes delivery delays, forecast inaccuracies, and increases costs.

Vcinity Solution: Create a Single, Globally Accessible Dataset

With Vcinity, manufacturing organizations can improve overall supply chain transparency and operational efficiencies by having near real-time access to the correct data. This will allow a better and faster reaction to real supply and demand changes. Forecasting and inventory management will also be more accurate with more supply chain visibility, thus improving data analytics, decision-making, and forecasting. With fewer data copies to storage and eased governance, manufacturing companies will also have improved security and compliance.

4. Data Curation for AI Modeling

AI has a wealth of applications in the manufacturing industry, such as automating repetitive production tasks, deploying digital twins, predicting demand, or supporting visual inspection. Collecting and curating data for AI models, from often widely geographically dispersed sources and systems across the edge to the cloud, has been overly laborious, time-consuming, and often involves data manipulation. This means model training data is often not representative or diverse, and existing datasets may be biased—driving AI hallucinations and subsequently dampening the potential impact and benefit of these AI applications.

Vcinity Solution: Train more Models more Quickly, using More Data

With Vcinity, manufacturing organizations accelerate access to more and better datasets to train AI models. This is done both by efficiently moving data from source to point of AI analysis ultra-fast, as well as allowing remote access to datasets that cannot be moved, such as due to compliance or data residency issues. With great variety and volume of input data, AI insights are improved, delivering enhanced business action and outcomes. Better outcomes include increasing operational agility, reducing common process-driven losses—such as better production yields—increasing workforce safety, and more.

Let's Get Started

Data is everywhere—are you ready to put it to work? Simplify and accelerate data access everywhere—to spearhead your competitive advantage in the manufacturing industry—with Vcinity.

Let's Chat

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