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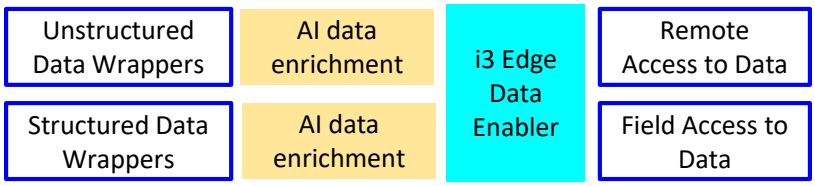
i3 Edge Data Enabler

Reducing Data Costs While Improving Data Availability

Most data acquisition systems assume the source of the data will be directly fed to a centralized application over the internet. Directly connecting data sources to an application seldom provide an operationally optimized solution in a data-rich environment. The i3 Edge Enabler acts as an information multiplexer combining multiple data streams into one logical data stream in order to reduce operational and maintenance costs. This same feature can also sharply reduce mobile data service costs if the remote data is to be transmitted over a mobile/cellular network. The i3 Edge Enabler also supports customer developed plugins that able to analyze video imagery and extract situational alerts from the raw data. In addition, the i3 Edge Data Enabler provides a local access point that allows local users the ability to access the data without the delay and cost of sending data on a needless round-trip transmission to some centralized data center. Luckily, i3 Systems has stepped forward to create an edge data enabler that improves the generation and consumption of data through a distributed data management system.



The i3 Edge Data Enabler serves as a remote data collection and enhancement system that provides local and remote access to data. The system allows customers to plugin AI data enrichment modules which increases the value of the incoming raw data. The i3 Edge Data Enabler allows local data processes to be distributed to the edge of the network to improve performance and capabilities of a distributed information infrastructure.

Why i3 Edge Systems?

Reduce Data Back Haul Costs	Move away from dedicated communication links for each data stream. By consolidating data streams at the edge, maintenance processes can be simplified and networking costs can be reduced
Support Field Access to Data	Avoid hair pinning data to a central core and then back to the area where data was first ingested. By giving users near a data collection site access to nearby data performance, security, and costs can be improved.
Embellish Raw Data Streams	Simplify operations by embellishing the data so it can be used for many purposes. The i3 technology makes it raw data streams allowing a company's investment in data collection systems to go further.
Support Privacy at the Infrastructure Edge	Improve privacy protection by eliminating needless transport of sensitive data. I3 Edge technology can be used to anonymize, mask, or delete sensitive data at the edge of the network in order to avoid exposure concerns in the cloud or while data is in transit.
Support Mobile and Fixed Data Collection	Avoid geographic restrictions on data collection activities. Not all data originates at a fixed source but because i3's edge system supports both fixed and mobile configurations from a common platform, data collection processes do not need to be limited to one type of data.

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Headache Free Remote Data Collection and Consolidation

It is a well known fact that the cost of deoplying and operating a distributed data acqusition network can be extremely burdensome. The i3 System's Edge Data Enabler has been designed to overcome the barriers associated with expansive information collection networks. These sophisticated edge data appliances consolidate multiple data streams to reduce networking costs and provide the tools needed to restructure and enhance message flows to make them tolerant of network dynamics.

i3 Key Edge Data Enabler Features

- Reformatting/restructuring of data streams to meet organizational standards
- Support for plugin AI modules to create organization specific data streams
- Deployable in fixed or mobile environments (e.g. truck or bus installation)
- Integrated support for unstructured video streams and message based data flows
- Data integration and consolidation to reduce networking costs
- Designed as a data appliance capable working independently or with the i3 Core data fabric
- Supports remote monitoring and management