



Data Logistics Cloud

Data Acceleration For IoT Revolution



**HIGH PERFORMANCE
DATA DELIVERY**



**DATA PIPELINING
& PROCESSING**



**ADVANCED NETWORK
INFRASTRUCTURE**



DATA VAULT



MARKETPLACE & MEC



DATA HARVESTING



DEVICE MANAGEMENT



**DEVICE AND
DATA SECURITY**

SECURITY

- End to End Encrypted Communication
- Secure device enrollment and authorisation

LATENCY

- Radically improved latency by SkyLab Transport Acceleration over SkyLab Overlay Network
- Guaranteed SLA in latency

SCALABILITY

- Global scale data delivery network
- High level of flexibility in capacity planning

Accelerate IoT Adoption with Data Logistics Cloud™

IoT is revolutionizing and changing the way we make decisions both at the macro and at the micro level every minute of our day. From building smart homes to smart and green cities IoT solutions need a robust and always available Infrastructure. SkyLab has designed an upstream to downstream data integration and technology solution - Data Logistics Cloud (DLC) that can drive synergies and network effects through improved Security, Latency and Scalability across multi-generations of control systems over a large scale network.

Technology Offerings



Accelerating Data Delivery over Heterogeneous Networks with SkyLab Transport Accelerator™

Transmitting data across the long distance and various networks require the understanding and cooperation of different network technologies. We develop SkyLab Transport Accelerator (STA) to speed up data delivery. SkyLab has the expertise to seamlessly integrate the various networks to accelerate the data transmission entirely transparent to the end users.



Data Pipelining and Processing

Data does not just originate from your IoT devices, you may need to also ingest data from existing systems, transform this data and output to other destinations. DLC provides the tools to not only take control of the ins-and-outs of your data's journey and lifecycle, but apply advanced data processing to fully realise your data's potential.



Device Management

Support for devices of any type and scalable into the millions, DLC caters for any number of different device type amidst millions of devices. From gateways to sensors and even servers and network equipment, centrally manage all your devices remotely and securely



Marketplace and MEC

With an integrated marketplace allowing for any number of edge computing applications to be uploaded, purchased and deployed to your edge devices through DLC's centralised portal. Combined with SkyLab's Multi-access Edge Computing devices or MECs, allows for powerful containerised applications via docker technology to be deployed and run effortlessly, from video analytics to facility management and more.



Safeguard your Unstructured Data with SkyLab Data Vault

Our Secured Unstructured Data Vault provides a highly-secure mechanism for storing any type of data without restrictions on data structure or its format. It also provides a user-friendly interface that lets customers effortlessly generate business reports.



Supervise and collect all data types with SkyLab Data Gathering System

SkyLab has developed our data gathering platform to address the potential for software growth in managing and processing distributed data in highly networked IoT spaces between diverse computing and embedded devices. We are able to secure delivery of unlimited sets of both structured and unstructured data. We know each data set is precious because it is unique within the time domain when it was transmitted and received. These data sets become a new form of asset class for any data driven organization.



Unified all IoT Application with SkyLab Advanced Network Technology

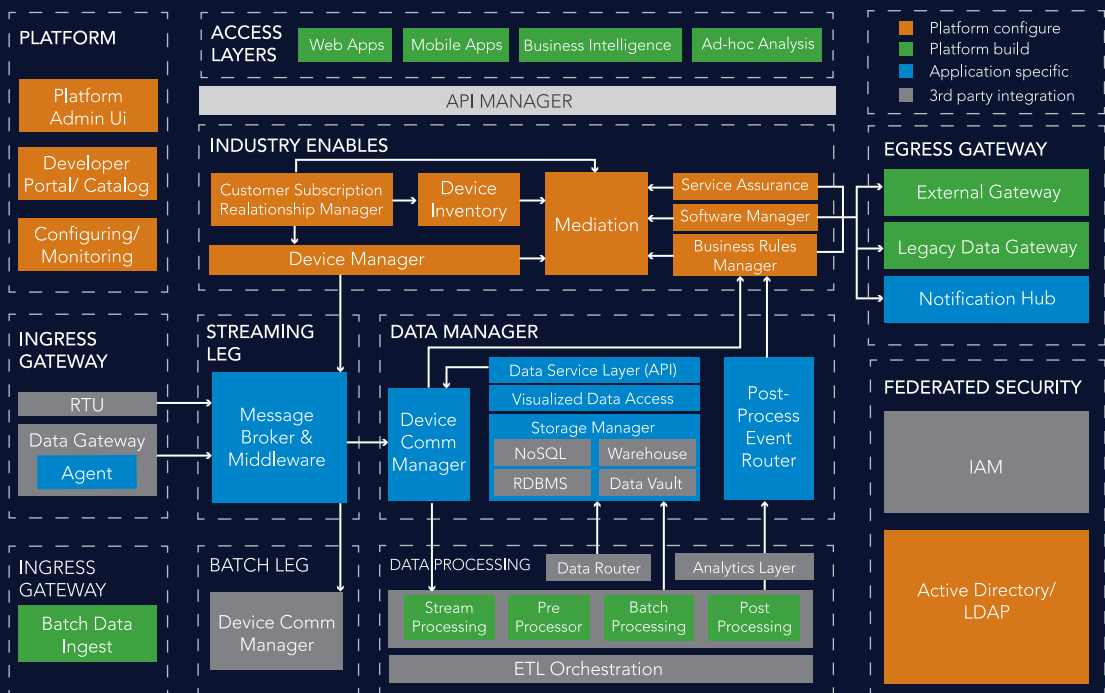
Machine-to-Machine (M2M) interface that provides a unified communication channel with support of different device types such as sensors, PLC and machinery equipment.



Device and Data Security

Secure device enrollment with automated Device Certificate Exchange using X.509 along with secure data transmission using (TLS) for all device communication. Multi-tenancy, role based user access and full device and user audit logs

Software Reference Architecture



Solutions overview



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STA accelerates traffic by analysing traffic & routing conditions in real time to find the fastest route between the data source and the destination even on 2G/3G/4G, satellite and many types of IoT radio networks. STA reduces network latency, increases throughput, optimizes transport layer performance and reduce overall network congestion problem.



IGX Series: A new breed of IoT gateway with a modular design for both physical device connectivity and network backhaul capabilities. Powered by an advanced multi-protocol aware middleware allowing you to interface with any kind of IoT data source and destination. This allows IGX to scale efficiently and rapidly to support billions of devices while keeping costs low



SkyLab's Multi-access Edge Computing, or MECs, are designed to be deployed at the edge along with your other devices and systems, either as a physical or virtual appliance. With additional computing, storage and processing power, using the latest in containerisation technology to ensure operability for whichever application you choose to run and however you choose to develop it. Running your applications at the edge means you can offload processing, network usage and time from the cloud, complimenting your existing infrastructure.