



ClearBlade IoT Core & GCP Automated Migration



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ClearBlade Introduction





CLEAR BLADE is an IoT, Edge, and Al software company





Solution Overview

- ClearBlade is an IoT, Edge computing and AI software company to enable running secure, real-time and scalable IoT applications
- Built as a Universal Platform for several industries including Transportation,
 Manufacturing, Oil & Gas, Healthcare, Energy, Smart cities
- Edge Platform to get data from several sources and centralizing information in the Cloud
- Fully Automated, Quick Deployment and Fast-track migration to GCP

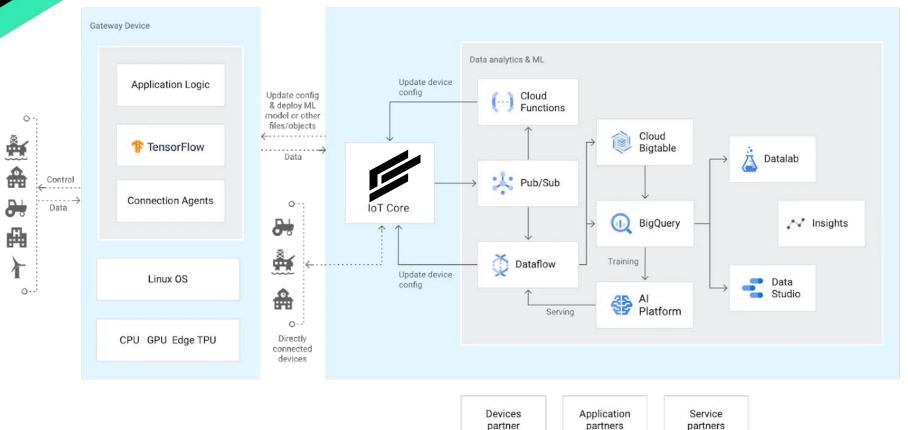




ClearBlade IoT Core

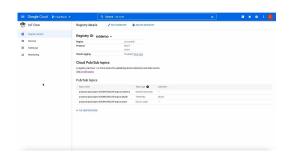


ClearBlade is complementary to GCP Cloud Architecture



ClearBlade capabilities easily map to Google IoT Core



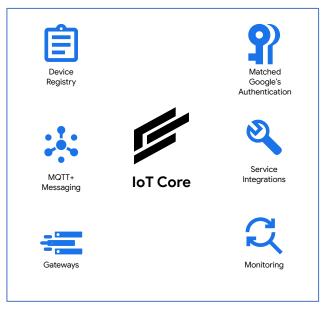






- Scalable
- Fast
- Flexible









Google IoT Migration





ClearBlade provides a simple "1-click" Migration

Low Impact

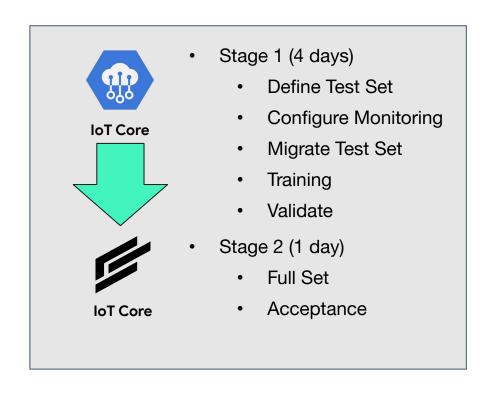
- No cloud services impacted
- Device updates

Fully Automated

- Device Registries
- Any Cloud Region
- Authorization
- Pub/Sub Topic Mappings

Flexible Deployment

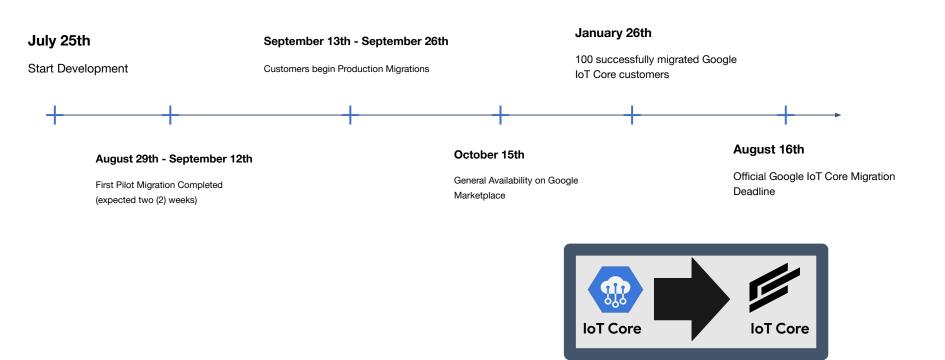
- Customer Project Areas
- Hosted by ClearBlade



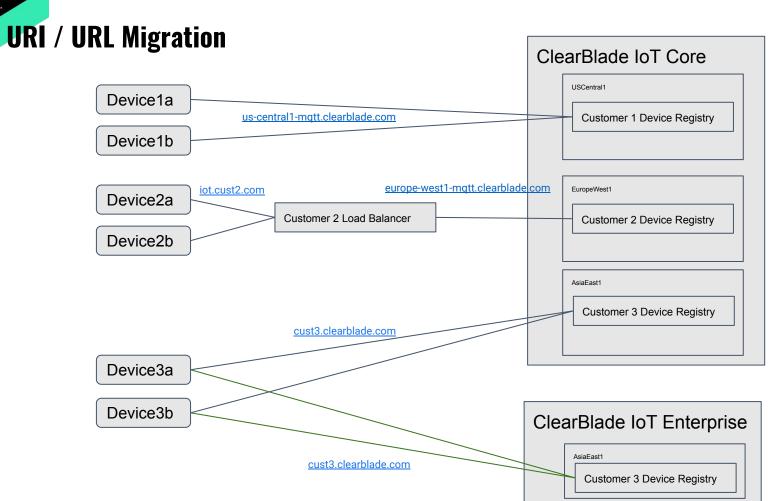


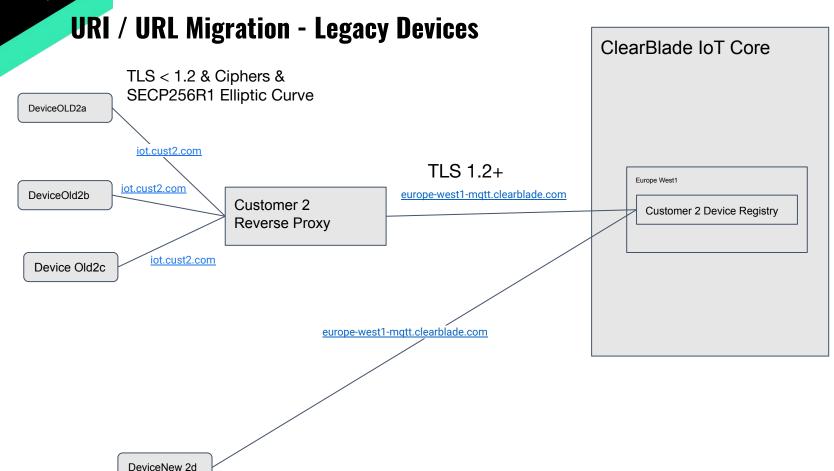


ClearBlade Migrations Readiness & Timeline











Retargeting Devices

Replacement of MQTT URL / URI

· Googleapis.com



· Clearblade.com

Update for Root CA on device

• Google Pseudo self signed



DigiCert Global Root CA

New SDK forks













Retargeting Devices



Created by Aaron Allsbroo

Last updated: Dec 12, 2022 by Jeff Slavin • 1 min read • 🗠 18 people viewed

While all information is copied during a migration to make authentication and data flow unchanged, it is necessary to retarget each device and gateway to the new ClearBlade IoT Core offering.

Information regarding that change is here.

Production URL / URLs

MQTT (regional)

us-central1-mqtt.clearblade.com europe-west1-mqtt.clearblade.com asia-east1-mqtt.clearblade.com ports available 8883 and 443

HTTP (regional - for device calls)

https://us-central1.clearblade.com https://europe-west1.clearblade.com https://asia-east1.clearblade.com port 443

HTTP (global - for list registry calls)

https://iot.clearblade.com

Root CA

The ClearBlade IoT Core environments leverage DigiCert root certificates for SSL / TLS termination. The current Root CA from DigiCert can be downloaded here.

Replacement SDKS

ClearBlade is providing SDKs for drop-in replacement.





ClearBlade Google Marketplace Offerings





ClearBlade IoT Core available in the Marketplace

IoT Core Pricing (ClearBlade hosted)

Monthly data volume	Price per MB
up to 250 MB	\$0.00
250 MB to 250 GB	\$0.0045
250 GB to 5 TB	\$0.0020
5 TB	\$0.00045

Additional Terms Available for

- Customer Environments
- Enterprise Tiers



Overview

ClearBlade is an IoT, Edge, and AI Software company driving enterprise digital transformation through its IoT Core, IoT Enterprise, and Intelligent Assets offerings on Google Cloud. ClearBlade offers fully scalable, secure, flexible, and autonomous solutions that enable companies to ingest, analyze, adapt, and act on any data in real-time and at extreme scale.

Learn more 2

About managed services

Managed Services are fully hosted, managed, and supported by the service providers. Although you register with the service provider to use the service, Google handles all billing.

Additional details

Runs on: ClearBlade Inc. Cloud Servers

Type: SaaS & APIs

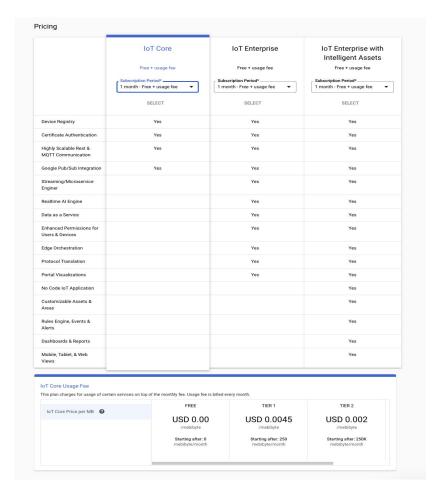
Last updated: 8/15/22

Category: Big data, Analytics, Machine learning, Compute



Other ClearBlade Offerings:

- IoT Core
 - Priced by MB
 - Monthly
- IoT Enterprise
 - Per vCPU
 - Per Edges Pricing Available
- IoT Enterprise w/ Intelligent Assets
 - Per vCPU
 - Supports Multiple Applications
 - Per Edges Pricing Available





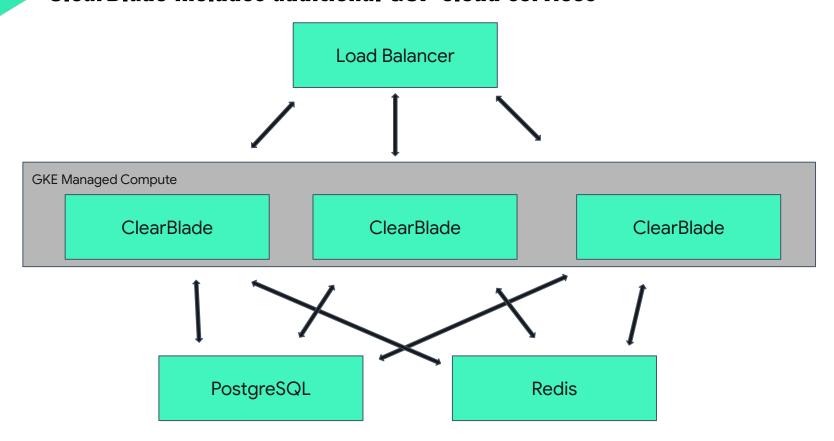


ClearBlade Google Cloud Integrations





ClearBlade includes additional GCP cloud services







ClearBlade Additional Offerings

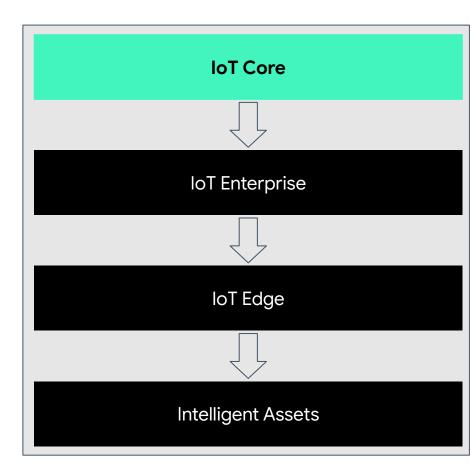




ClearBlade IoT Core

IoT Core Features

- Device Table
- Security
- MQTT+ Messaging
- Service Integrations
- Edges
- Monitoring







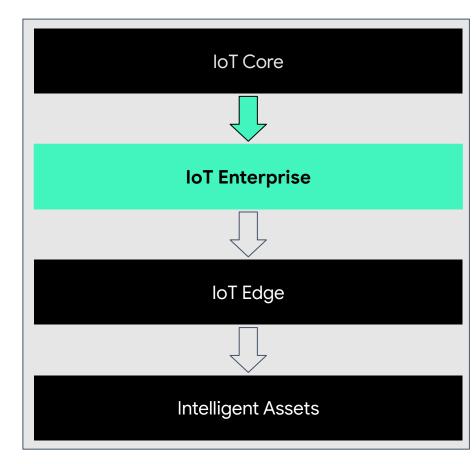
ClearBlade IoT Enterprise

IoT Enterprise Features

- Enhanced Permissions
- IoT Code Engine (Cloud/Edge)
- Edge Orchestration
- Data and Files
 - Buckets
 - Big Query
 - Streams and Microservices

Also Includes Enhanced IoT Modules

- IoT Portals
- IoT Protocol Adapters
- IoT Al Engine







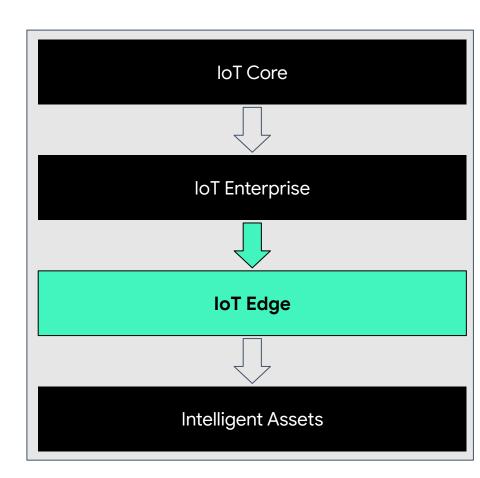
ClearBlade IoT Edge

IoT Edge - Full IoT Enterprise Stack at the Edge!

- Enhanced Permissions
- IoT Code Engine (Cloud/Edge)
- Data and Files
- Cloud/Edge Synchronization

Also Includes Enhanced IoT Modules

- IoT Edge Portals
- IoT Edge Protocol Adapters
- loT Edge Al Engine
- IoT Network Connectivity
- IoT Out of the Box Gateways







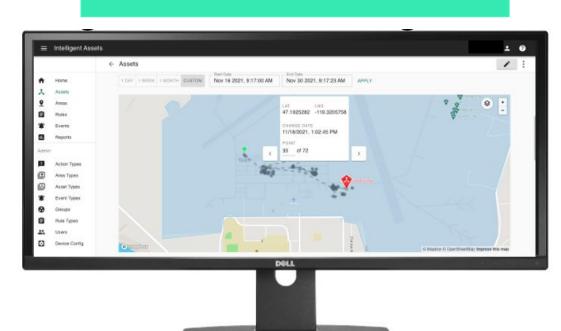


ClearBlade Intelligent Assets

Intelligent Assets

- No code application for operators
- Monitor/Track/Control any asset
- Edge integrated
 - Rules
 - Al
 - Data storage
- Proven across multiple industries
 - Aerospace
 - Rail
 - · Manufacturing

Intelligent Assets







Questions

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