iDigi®
Machine Cloud Solution

Scalable, on-demand, secure cloud computing platform offers device management and application integration services.

Overview

The iDigi platform is a cloud solution designed to provide application integration with Machine-to-Machine (M2M) networks. Based upon an extended cloud computing model, the iDigi platform is focused on solving the challenges of massive scalability, service reliability and security requirements. Application integration is straightforward through an abstraction layer that provides access and control of machine networks. Integrating client software, web applications or mobile applications to the iDigi platform is easy through a variety of published iDigi Application Programming Interfaces (APIs).

The iDigi Developer Cloud

The iDigi platform is available in two forms: developer and production. Serving the needs of research and development, testing, prototyping and demonstration, the Developer Cloud provides a safe test-bed for developers preparing for a launch of their solution. The Developer Cloud has the identical attributes as the Production Cloud so accurate systems assurance testing can be performed. The Developer Cloud portal includes tools, reference designs, device developer kits and tutorials about deploying machine network applications.

The iDigi Production Cloud

The iDigi production environment is designed and tested to meet the rigorous requirements of large-scale deployments of machine networks. Hosted on a commercial-class infrastructure utilizing virtual and dedicated resources, the iDigi Production Cloud provides on-demand scaling, active monitoring and high-availability of services delivered with the assurance of the iDigi Security Policy.

Diagram

Applications

Abstraction Layer

iDigi®
Platform As a Service

Backhaul Network

Machine Network

Features/Benefits

- No-cost development platform
- Easy application integration with open, published APIs
- Industry applications include energy, fleet, tank, hospitality, medical, industrial equipment and consumer appliances
- No scalability planning required
- No infrastructure planning required
- Broadcast network grade service availability
- Usage-only based fees
- Very low cost-of-service
- Instant device connectivity
- Industry-leading security

Scalability

Today's machine network deployments must be able to adapt and expand seamlessly to support large numbers of devices, data-points and messaging. Depending on application requirements, the throughput requirements can easily exceed the transactional levels of the global social network services today. The iDigi platform's throughput capability sets the standard for verified scalability elasticity.

Service Reliability

The iDigi platform is designed to meet or exceed the service availability of requirements through commercial class clustering and fail-over technologies. On par with the service availability requirements of major media broadcast networks, the iDigi Operations organization manages and monitors iDigi twenty-four hours a day, year-round.

Security

The iDigi Security Policy is based upon a control matrix developed to support the standards set forth by the National Institute of Standards and Technology (NIST), ISO/IEC 27002, North American Electric Reliability Corporation - Critical Infrastructure Protection (NERC-CIP) and the Cloud Security Alliance (CSA). Within the cloud, iDigi Security relies upon technologies and processes to prevent, detect, respond and audit cyber threats on a continuous basis.

Infrastructure

The iDigi platform is hosted in multiple commercial-class SAS70 certified facilities. Available in any region in the world, we support our application partners twenty-four hours a day, year-round through iDigi Technical Support.

Machine Device Support

All Digi gateways, routers and embedded components are "iDigi Ready" and therefore can be instantly provisioned on the iDigi platform and made accessible to iDigi applications. This includes the ConnectPort® and Digi TransPort® product families, and ConnectCore™, XBee® and Rabbit® component product families. Additionally, non-Digi devices can be integrated to the iDigi platform using iDigi DDK which includes a reference design for Linux.

iDigi Manager Pro™

The iDigi Manager Pro software as a service delivers capabilities that empower IT, network operations and challenges of managing the vast array of equipment in their machine networks. iDigi Manager Pro addresses the problems of:
- Centralized access and control of network equipment
- Complexity of services
- Security
- Provisioning of new equipment
- Decommissioning of equipment
- Adding functionality to the network