**Intelligent IoT Gateway Framework: Architect your Next-Gen Connected Solutions**

IoT Gateway helps in managing and controlling the complex and disparate IoT environment.

Bridges the communication gap between devices, sensors, systems, and cloud, and offers local processing and storage.

Enables customers to securely aggregate, process, and filter data for analysis.

Ensures that the federated data generated by devices and systems can travel securely and safely from the edge to the cloud.

**Unique Features:**
- Interoperability
- Vertical and Horizontal Scalability
- High Availability
- Edge Computing and Dynamic Rule Engine
- Security and Access Management
- Application and Device Lifecycle Management
- Cloud (Edge over API)

**Key Outcomes:**
- Faster time to market: Plug and play devices and applications
- Intelligent connectivity: Compute on the edge and maintain device shadows
- Common software stack: Stack reuse across gateways and devices
- Security out of the box: Access controlled and encrypted for end-to-end security

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**Micro-services Architecture**
- Each application container is a Micro-service
- Enables vertical scaling through multiple instances of a Micro-service

**End-to-End Connectivity Solution**
- Quick on-boarding of devices
- Quick connectivity with Cloud

**Common Software Stack**
- Multi Infra
- Multi OS
- Multi Hardware

**Support for a Variety of Secured Messaging Protocols**
- MQTT
- CoAP
- DDS
- STOMP
- AMQP
- XMPP

**Support for Multiple Device Protocols**
- Zigbee
- BLE
- Thread
- Z-Wave
- OPC-UA
- Wi-Fi

**Gateway Clustering**
- Clustered gateways provide high availability
- Geographically-correlated auto resilient gateway feature ensures uptime by auto transferring the devices

**Device Lifecycle Management**
- Onboarding
- Registering
- Monitoring

**Application Lifecycle Management**
- Cloud Deployed, Cloud Controlled, and Cloud Managed
- Dynamically resource balanced at Gateway and Network level

**Load Balancing**
- Peer-to-peer gateway communication
- Enable horizontal scaling through intra-gateway & inter-gateway transfer of application container

**Enabling Collaborative Edge Computing**
- Dynamic rule engine
- Adaptive rule engine
- Sharing / off-loading

**Layered IoT Security**
- Adaptive “Chain of Trust”
- Trusted Platform Management
- Role and attribute based Access

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eInfochips is a global technology firm headquartered in San Jose, CA, specializing in Product Engineering and Software R&D services.

Gartner, Frost & Sullivan, NASSCOM and Zinnov recognize the company for technology leadership. eInfochips has contributed to 500+ products for top global companies, with more than 40 million+ deployments across the world.

From silicon to embedded systems to software, from deployment to sustenance, we map the journey of our customers. We have the expertise and experience to deliver complex, critical, and connected products across multiple domains, for projects as small as a one-time app development to a complete turnkey product design.

We continuously invest and fuel innovations in the areas of Product Engineering, IoT Device Lifecycle Management, DevOps for IoT, IoT & Cloud Frameworks, Intelligent Automation, and Video Management.