



Datasheet

IOT Devices Management

A secure, reliable solution for managing IOT updates and analytics across a diverse device ecosystem.





IOT Devices Management is a solution for IOT updates management and delivery. It utilizes an efficient agent that employs byte / file level differencing, compression and robust security in order to deliver IOT updates in challenging environments robustly and securely. IOT Devices Management provides administrators, the ability to accurately record status of ongoing deployments and overall health of the infrastructure. It allows administrators to securely and quickly manage IOT updates via a robust assignment driven cloud based or on-premise solution.

Use Cases

1\ Firmware update management

2\ Software and Patch deployment over the internet

3\ Manage and monitor connected devices

Benefits



Reliable update experience

Supports compression, checkpoint restart, bandwidth throttling, byte / file level differencing to efficiently download the smallest possible payload during an IOT update.



Customizable IOT rollouts

Rollouts can be customized right from the point of assignment to the actual IOT experience on the devices.



Efficient IOT

Efficient packager utility that generates the smallest possible IOT package distribution, and can be organized and assigned by multiple criteria.

Secure

- End to end TLS encryption
- Ability to digitally sign IOT updates
- Strict role based access to console

Reliable

- Efficient data transfer protocol for IOT updates
- Near real time deployment status
- Robust error recovery

Scalable

- Handle increase in device footprint seamlessly
- Delta downloads capability reduces traffic to servers

Intuitive

- Single silo for managing all devices receiving IOT updates
- Manage entire process from packaging to rollout from single console
- Modern console to easily navigate

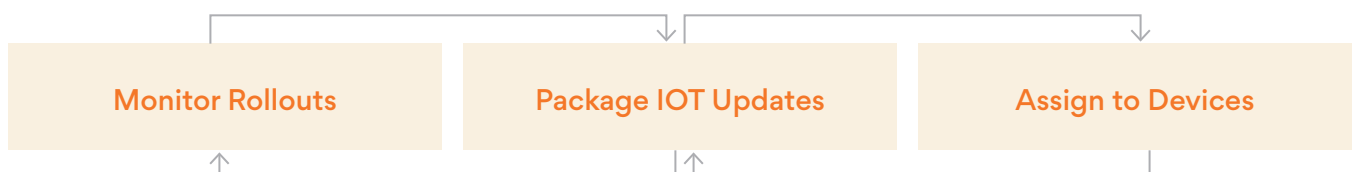
Heterogenous

- Works with variety of devices
- Unified experience across devices and operating systems
- Supports IoT devices too

Technical Overview

IOT Devices Management operations are primarily driven by easily manageable agents that target major operating systems for traditional and specialty devices running Windows, Linux, Android and Embedded

Linux. These are assigned packages that contain the IOT update to comprise a rollout that results in the IOT update being delivered (and reporting back to the console).



Core Differentiators



Checkpoint Restart

Recovers from communication failures and downloads remaining bytes as against getting full data.



Delta Update

Delivers delta updates through byte level differencing technique to optimize subsequent transfers.



Robust and Scalable

Scales indefinitely and supports different transport models including MESH.



Heterogenous

Works across device types including sensors and gateways.

About Persistent

With over 15,500 employees located in 18 countries, Persistent Systems is a global services and solutions company delivering Digital Engineering and Enterprise Modernization. We combine deep technical expertise and industry experience to help our clients anticipate what's next and develop solutions that create unique competitive advantage. Persistent was named to the Forbes Asia Best Under a Billion 2021 list, representing consistent top-and bottom-line performance as well as growth.

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