

friendly | The IoT & Device technologies | Management Company

Friendly TR-369 USP

User Services Platform



Launch New Services Leveraging Your TR-069 Platform

TR-369 User Services Platform (USP) is a standard defined by the Broadband Forum, evolving from the TR-069 (CWMP). The new standard is a more flexible, secure, and standardized way to manage both existing use cases of TR-069 and new connected services such as IoT and Smart Home, at scale.

TR-369 USP is a natural evolution of the TR-069 standard that enables carriers and CSPs with an existing TR-069 solution to seamlessly migrate to TR-369 USP without a need for new integrations.

The Friendly TR-369 USP Solution

Friendly's TR-369 USP is an integrated solution for implementation and management of connected devices. The solution leverages the TR-069 protocol specification and enables carriers and CSPs to transform consumer broadband networks into flexible and secure IoT-enabled solutions.

Main Capabilities

- Managing additional types of devices TR-369 USP supports the management of IoT devices in addition to standard telecom devices.
- Variety of third-party integration options -TR-369 USP providesfreedom to add new customer services and third-party integrations.
- Coexistence with TR-069 (CWMP) systems -TR-369 USP meets the challenges of connected device management with an interoperable, non-proprietary standard, that easily evolves from existing TR-069 deployments.

- Service management TR-369 USP has the ability to manage specific services individually.
- Security TR-369 USP features an application-layer security, authentication, integrity, and privacy from the ground up.
- Management of containers and applications - TR-369 USP allows users to install, monitor, and manage the life cycle of software modules and execution containers on a system represented by a USP Agent, using objects, parameters, and operations built into the Device:2 data model.



Friendly TR-369 USP



Architecture

- > USP networks consist of controllers and agents that enable management of service elements.
- Connected devices the solution supports a greater number and more types of devices:

TR-069-based devices

Proxied devices - Standardized interfaces for Wi-Fi, Pv4, IPv6, and IoT interfaces like ZigBee, Z-Wave, and MQTT - for diagnostic tests, firmware management, and upgrades, and more.

- > Multi-controller a USP controller can be an existing TR-069 ACS, or any type of computing device in a data center, a back office, a smartphone, a laptop, etc. The USP agent can be accessed by multiple control points from a number of different stakeholders.
- Customer controls and third-party apps -TR-369 USP enables Wi-Fi optimization, network security, parental controls, home automation and security, IoT services, and custom apps.



Key Features

- Standardized IoT management unified management of devices based on non-IP protocols like ZigBee, Z-Wave, and others
- > Wi-Fi Optimization
- > Analytics collection and monitoring
- Self-support app monitoring, diagnostics and repair of connected devices and networks
- > Multi-tenant management
- > The application enabled Smart Gateways device management and the life cycle management of third-party applications like security, Wi-Fi telemetry, and parental controls

- Secure communication encrypted communications channel via TLS/DTLS
- Regular firmware upgrades to ensure that attack vectors are closed before there is a problem
- Power management advanced power usage options for IoT devices, sensors and meters
- Based on TR-181 the Friendly TR-369 USP can be implemented together with the TR-069 solution
- Future-ready solution freedom to offer new services, as they emerge

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