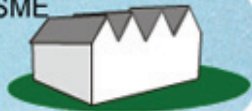


Residential



SME



Corporate



DATAFLEX

TR-069 – Protocol for Secure Auto-Configuration of CPE Devices

TR-069 is a specification administered by the Broadband Forum, formerly the DSL Forum, which allows customer premises equipment (CPE) to communicate with a remote server for the purposes of secure auto-configuration. TR-069 is also known as the CPE WAN management protocol.

With the increased penetration of broadband access, CPE devices have grown more complex. At the same time, the number of devices has proliferated creating a need to allow Communications Service Providers (CSPs) reduce the overhead required for their configuration, deployment and management. Enterprises and SMEs, often with limited in-house IT resources also need a “plug and play” approach to the installation of CPE devices.

TR-069 addresses this problem by providing a common framework for secure auto-configuration. This includes both initial configuration when devices are shipped to customers by the CSP, and remote configuration should some form of change be necessary. By removing the need for enterprises to configure their devices on delivery, the CSP can simply ship new CPE devices to its customer base.



Reduced complexity – reduced costs

This significantly reduces the complexity of installing CPE devices for enterprises and lowers management costs for the CSP delivering their services. Many enterprises have a broad range of devices that they need to connect to their broadband service, such as telephones, key systems, PBXs, faxes, etc. Using a single router device, such as Dataflex’s range of Multi Service Access Gateways, to connect to broadband trunks offers clear advantages, but the task can appear daunting, particularly to an enterprise or SME that has limited IT resources. TR-069 provides a simple, secure means of removing this problem, ensuring that enterprises can enjoy trouble-free installation and the benefits of new services offered by the CSP.

TR-069 offers additional features to help CSPs minimise ongoing management costs and to ensure trouble-free operation in the enterprise. For example, should a change in the device’s firmware be necessary, this can also be managed remotely. The CSP can check that the device is using the correct firmware build, or perform an update should new firmware become available.

Remove market barriers and promote service adoption

It’s also essential that enterprises and SMEs are able to take advantage of new services without being required to assume management of unfamiliar devices. This can be a real barrier to service uptake and limit market adoption. In many markets, there can be real fear of new services because of a perceived complexity in their deployment and management. Enterprises need simple solutions that can be rapidly deployed. Buying and using a service needs to be straightforward and not to impose additional burden on the enterprise. TR-069 explicitly addresses these concerns and conveys considerable benefits to the end user. Ultimately, it ensures that CSP services can address the widest possible market.



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TR-069 – standard feature across the Dataflex range

All Dataflex Multi Service Access Gateway and Integrated Access Devices offer full support for TR-069, ensuring that CSPs and their customers can enjoy the benefits it offers. OPEX costs are a significant proportion of a CSP's overall cost base and it is essential that equipment selected to meet the demands of customers and services is able to contribute to ongoing OPEX management goals. TR-069 directly contributes to this by:

- Reducing the need for customisation
- Enabling remote, auto configuration
- Promoting "plug and play"
- Enabling remote management and fault diagnosis

About Us

Founded in 2003, Dataflex supplies enterprise access solutions to communications service providers around the world, ensuring seamless network connectivity and smooth migration towards next generation services for their enterprise and SME customers.

Dataflex's access solutions enable the delivery of all classes of enterprise communications services, from voice to video to data, providing a single access point from the carrier network and bridging the gap to the enterprise. A single ViNE platform combines multiple features and capabilities, allowing each ViNE solution to service a variety of functions simultaneously.



Dataflex ViNE Solutions combine critical functions into a single, scalable range of Multi Service Access Gateway and Integrated Access products

Voice Gateway

Data Router

Firewall

QoS

Local Proxy

Ethernet

Session Border Control

NAT

xDSL

WLAN

Versatile Gateway Solutions for Service Providers

Dataflex's Multi Service Access Gateway solutions help communications service providers meet CAPEX goals by providing simplified deployment options and eliminating the need for dedicated PSTN gateways.

Dataflex's ViNE range also supports OPEX control goals through lightweight management requirements, such as auto-provisioning and self-installation, reducing the cost burden of managing customer connections.

Dataflex's customers include fixed, mobile, cable and VoIP operators, which all share a common goal: to deliver world-class services to their enterprise customers, both now and in the future. Dataflex is the missing link that enables this to happen.

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