

OneAgent TR

TR-069 Based Client Software

With worldwide telecom service providers start delivering TR-069 based device management solution, it becomes very important that device vendor can provide TR-069 ready devices in Broadband Network with xDSL, Cable, xPON, VoIP, WiFi or IPTV services, and Mobile Network with VoIP, IPTV services or 3G/4G FemtoBS to meet the market demands. To ease device vendors' effort in delivering TR-069 capable device, Works Systems provides a cost effective device middleware solution that can surely reduce the deliver cost and shorten the time to market.

A Turnkey Middleware Agent

Works Systems OneAgent TR is a TR-069 based client software operated on many embedded OS platform. With offering a standardized set of APIs, it minimizes middleware integration efforts and dramatically reduces the time and cost on in-house development and maintenance.

Size Does Matter

Memory size is the major concern of device vendor and Works Systems fully understand this, the OneAgent TR is fully optimized in memory storage and run time memory requirement, it can fit most device memory requirement. For some small memory footprint devices, such as IP Phone and WiFi Phone, Works Systems OneAgent TR are also able to meet the extreme low memory condition.

Complete TR-069 Standard Support

Works Systems OneAgent TR provides full support to Broadband Forum TR-069 series standards, such as TR-069, TR-098, TR-106 and TR-111, and with all major security implementation like SSL3.0 and TLS1.0, plus all required RPC methods.

Telecom Proved Agent Implementation

With Works Systems' profound experience in telecom TR-069 Device Management and TR-069 ACS solution development, the OneAgent TR can truly meet and fulfill the real world deployment in telecom environment.



Product Summary

Device Management Features

Works Systems OneAgent TR provides a rich feature sets to support TR-069 device manageability (include TR-104(VoIP), TR-135(STB), TR-196(Femto AP) and other TR family specification):

- Auto-configuration
- Dynamic service provisioning
- Device firmware image management
- Status and performance monitoring
- Diagnostics

With TR-143, OneAgent TR is able to help service providers collect Network throughput performance information in order to optimize the network deployment.

Device Configuration Management

Based on device capability and implementation detail, Works Systems OneAgent TR can offer TR-069 ready devices to manage:

- TCP/UDP Profiles
- QoS Profiles
- Ethernet Device Configurations
- xDSL Device Configurations
- Cable Device Configurations
- xPON Device Configurations
- WiFi Device Configurations
- SIP/VoIP Device Configurations
- STB Device Configurations
- Storage Device Configurations
- 3G FemtoBS Device Configurations

Security

Works Systems OneAgent TR is designed to provide a high degree and scalable of security. It is intended to allow basic security to accommodate less robust device implementations, while allowing higher security for those that can support more advanced security mechanisms. The following security mechanisms are implemented in Works Systems OneAgent TR:

- The protocol supports the use of SSL/TLS for communications transport between device and ACS. This provides transaction confidentiality, data integrity, and allows certificate-based authentication between the device and ACS.
- The HTTP layer provides an alternative means of device authentication based on shared secrets.

Specification Overview

Standard Compliance

- TR-069 Amendment 2
- TR-111 Part2
- TR-142
- TR-143 Cor-1

Pre-Made Date Models

- TR-098 Amendment 2 (Internet Gateway Device)
- TR-104 (VoIP)
- TR-106 Amendment 2 (Device)
- TR-135 (STB)
- TR-140 (Storage)
- TR-196 (Femto AP, FemtoBS)

Security Methods

- SSL 3.0 and TLS 1.0: The Internet transport layer security protocols
- DES/3DES/AES

Presentation and Session Protocols

- XML/SOAP 1.1
- HTTP 1.1
- Standard TCP/IP

System Requirement

OS Support

Linux 2.6, VxWorks 5/6, Windows CE 5.0

Flash and RAM

250K* Flash and 2M RAM is for the basic parameter management**.

- *This is expected the Device firmware already include SSL library support.*
- *The actual Flash and RAM usage will depend on the required parameter list plus special features, such as whether firmware upgrade is needed.*

UNITED STATES

Works Systems, Inc.
7291 Coronado Drive, Suite 2
San Jose, California 95129
USA
Email: us.sales@workssys.com
Phone: +1 408-777-2967

CHINA (Sales Office)

Works Systems Co, Ltd
Room 1503, 15th.fl. Canway Building,
66 Nanlishi Road, Xicheng District
Beijing, 100045PR.
China
Email: cn.sales@workssys.com
Phone: +86-10-6808-6803

DENMARK

Works Systems Europe A/S
Hvilevej 18
2900 Hellerup, Copenhagen
Denmark
Email: eu.sales@workssys.com
Phone: +45 3314 4723

TAIWAN

Works Systems, Inc.Taiwan Branch
12F-4 141 Sec.1 Keelung Rd.
Taipei 110
Taiwan, R.O.C.
Email: tw.sales@workssys.com
Phone: +886-2-2528-4818 ext 2600
+886-2-25284820 (FAX)

UNITED KINGDOM

Works Systems UK
The Courtyard
High Street, Ascot
Berkshire SL5 7HP
United Kingdom
Email: eu.sales@workssys.com
Phone: +44 (0) 870 4711 287

JAPAN

Works Systems Japan Co., Ltd
Nakanishi Bldg. 1102, 11F
5-29-11 Sendagaya Shibuya-ku
Tokyo
Japan
Email: jp.sales@workssys.com
Phone: +81-(0)3-6457-7781
+81-(0)3-6457-7782 (FAX)

CHINA R&D Center

Works Systems Co, Ltd
Room 1702 Section A, Xin Mao Tian Cai Building
No. 1, Rong Yuan Road, Hua Yuan Industrial Park
Tianjin, 300384
P.R. China
Email: cn.sales@workssys.com
Phone: +86-22-5839-7112
+86-22-8371-9375 (FAX)

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