RT1 series

Secure Remote Access Solution for Maintenance Services

OMRON

4G, WIFI, LAN Connectivity in Uplink
Variety of options to match with all you need to connect a machine remotely

Security first
Security Audited & Certified solution: Regularly Security audited & certified against IEC62443 and Industry 4.0

LAN, Serial and USB connectivity to devices
Sysmac and legacy controllers can be connected using Ethernet, Serial or USB connection

On Demand connection
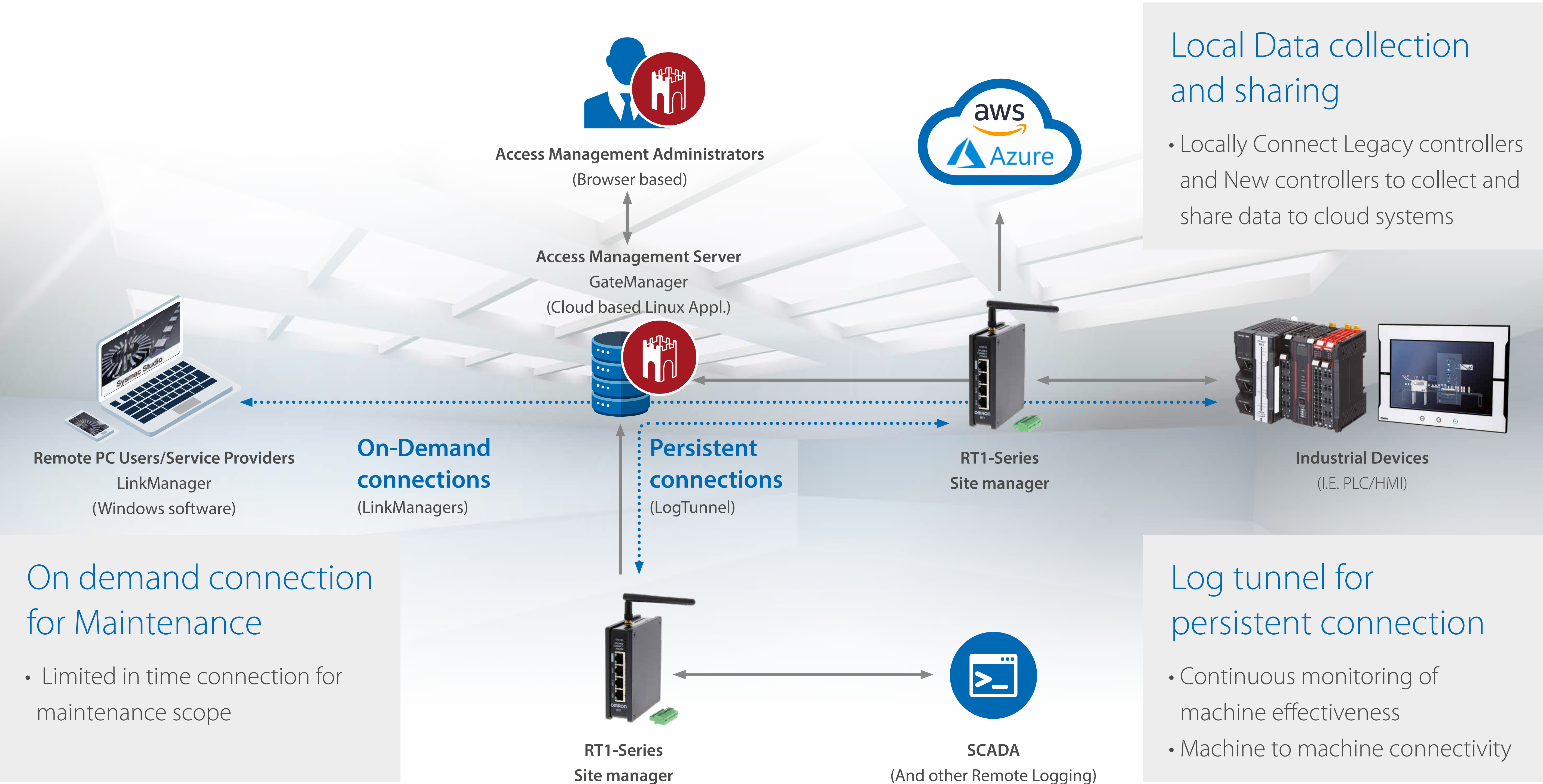For remote maintenance and commissioning

Local I/Os
Can trigger event or enable and discble remote access

Persistent connection
To securely collect/exchange data from different plants

Manage your accounts and access
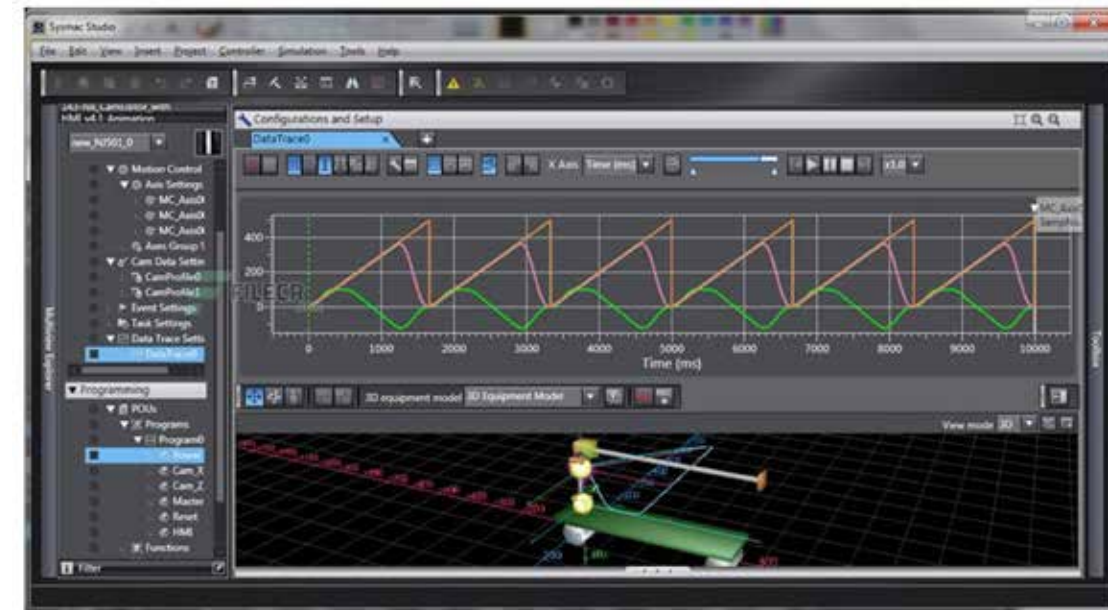With GateManager, you control user roles, you control authentication and you control authorization

Connectivity to OMRON Devices
Freely to remote connect all
OMRON Automation devices

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Access Management Administrators
(Browser based)

aws
Azure

Local Data collection and sharing

• Locally Connect Legacy controllers and New controllers to collect and share data to cloud systems

Access Management Server
GateManager
(Cloud based Linux Appl.)

Remote PC Users/Service Providers
LinkManager
(Windows software)

On-Demand connections
(LinkManagers)

Persistent connections
(LogTunnel)

RT1-Series
Site manager

Industrial Devices
(I.E. PLC/HMI)

On demand connection for Maintenance

• Limited in time connection for maintenance scope

RT1-Series
Site manager

SCADA
(And other Remote Logging)

Log tunnel for persistent connection

• Continuous monitoring of machine effectiveness
• Machine to machine connectivity

RT1 series

## Monitor Machines and access to key assets

- Execute a quick connection to machine to get relevant information and monitor machine status
- Remote access with programming tools to all the key assets of the machine and troubleshooting tools
- Access to Ip Camera to see machine by remote and understand the issue

Reduce cost by reducing on site services

- Get info of spare parts needed before the service is executed (save time for maintenance)
- Fast fix of the problems by Remote
- Fast fix of the problem by having all the troubleshooting info needed before the service
- Remote Fine tune after commissioning

Reduce Travel
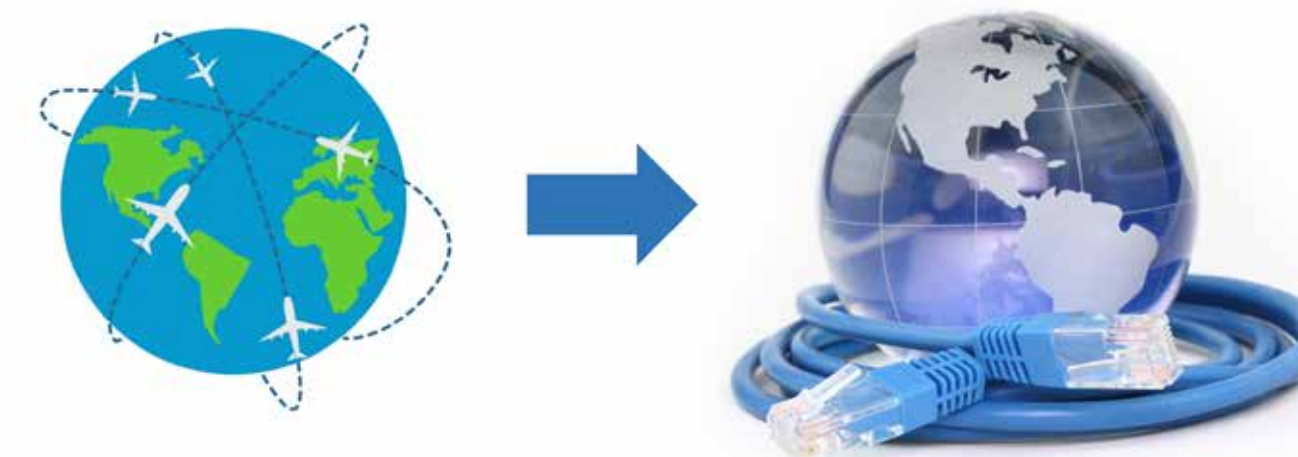
- By connecting 2 remote site securely
- By enabling remote commissioning and Maintenance
- By fixing the problems without being on site

Positive impact for the society

- Sustainability by reducing CO_2 footprint due to Travel reduction
- Reduce risk for operators working is potential risky areas
- Improve work/life balance of technical team (by reducing impact of emergences)

Extended Warranty

- Monitor status of consumables
- Implementation Machine as a Service Business model:
  - order of consumable parts on need after the initial purchase
  - Preventive maintenance be regular machine check-up
  - Priority fast support by remote connection
- Support of Machine Manufacturer with High skills to maintenance people

Continuous data collection

- Direct Access to Machine on rental installations for monitoring correctness of Use and status of productivity
- Collection of data by Distributed solution to provide immediate support
- Collect production data for optimization

Secure Certified Solution

secomea Security Certificate

Security Audit
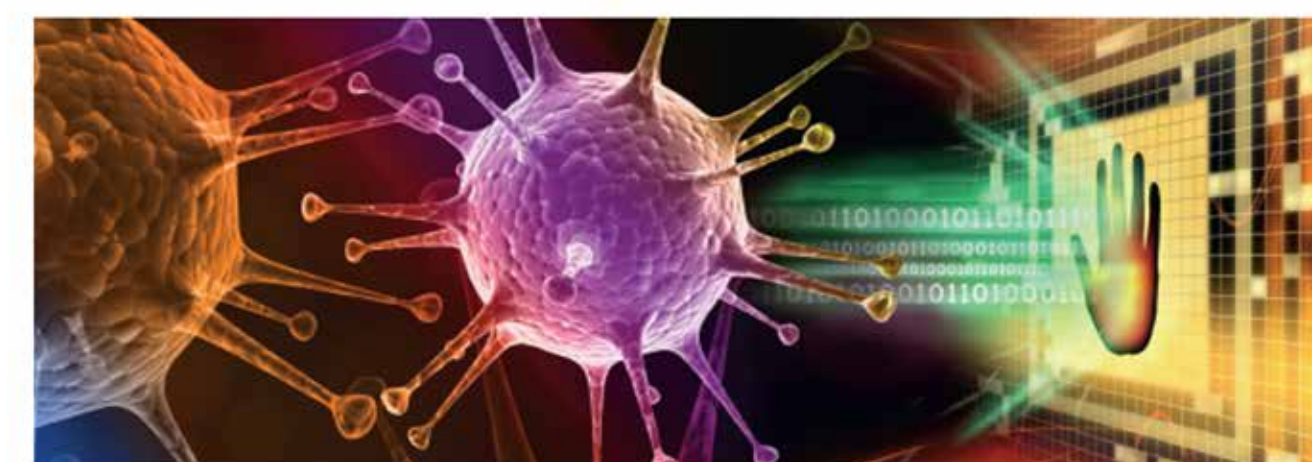
- Security Audited & Certified solution:
  - Regularly Security audited & certified against IEC62443 and Industry 4.0

Expand value of Omron Automation Solution

- Connect all Omron Automation Devices
- Open Remote access to Legacy solution already installed in existing plans/Machines
- Expand Omron Automation Solutions with Remote access functionalities in New machines

RT1 series Portfolio

OMRON Model	SiteManager HW
RT100-EMM3010	SiteManager LAN
RT100-W5M3010	SiteManager WiFi
RT100-4GM3010-G	SiteManager 4G- Global

LAN Model

WIFI Model

4G Model

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SiteManager (Network Setup)

UPLINK2 (4G, WiFi)

UPLINK (WAN) Side

DEV (LAN) Side

STATUS
UPLINK2
CONNECT
POWER

- DHCP Server can be enabled
- 3 ports in one subnet (Switch functionality)
- 3 different subnets
- Default IP 10.0.0.1

UP LINK

DEV3

DEV2

DEV1

OMRON
RT1

Company Router/Firewall
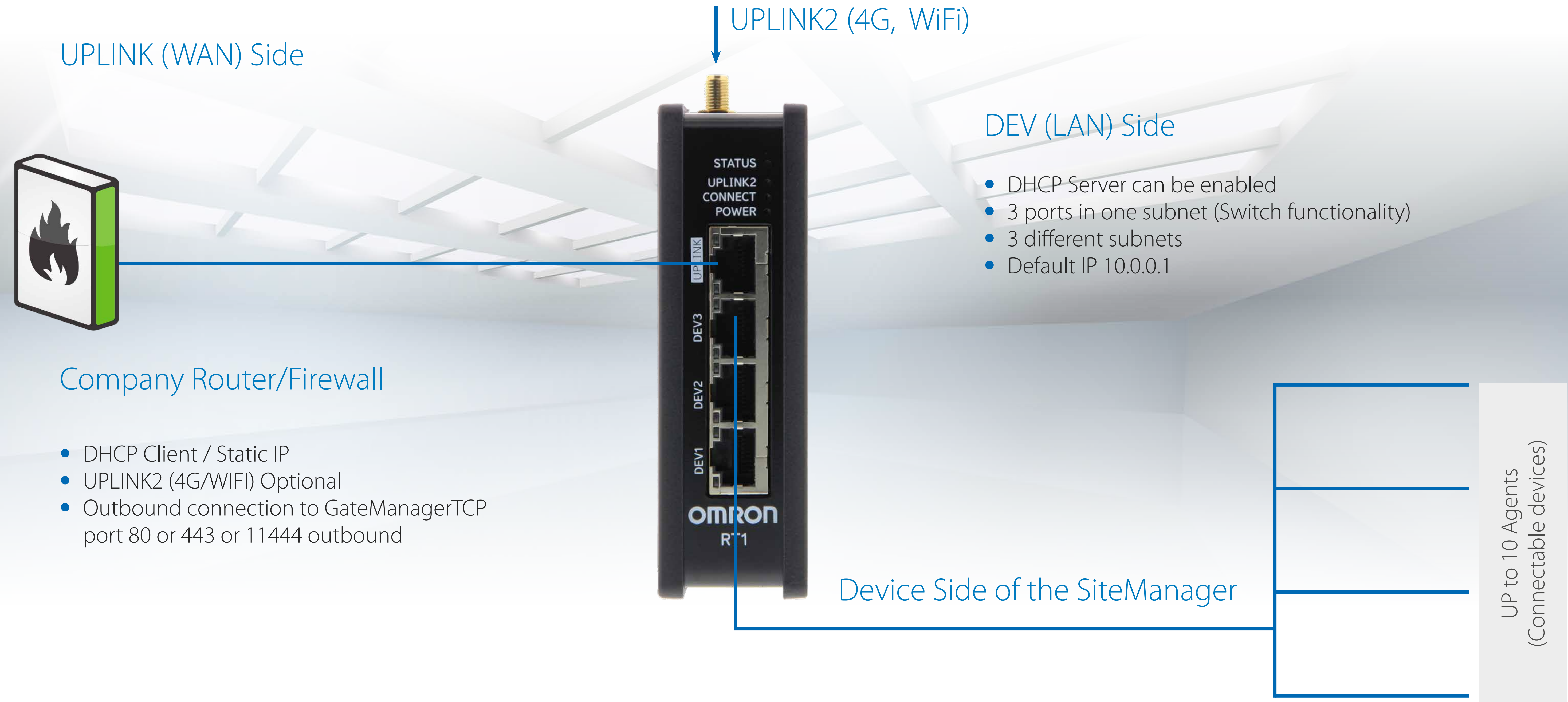
- DHCP Client / Static IP
- UPLINK2 (4G/WIFI) Optional
- Outbound connection to GateManagerTCP
  port 80 or 443 or 11444 outbound

Device Side of the SiteManager

UP to 10 Agents
(Connectable devices)

RT1 series Additional values

Security first

Firewall Friendly
Our solution is Firewall friendly. Only outbound connection required for the SiteManager. (either port 80 or 443 or 11444).

AES 256bit
AES 256bit encrypted tunnel based on TLS.

3rd Party Certification
Cyber security due dilligence: The entire solution is security audited by 3rd party company (ProtectEm) Audit based on NIST SP800, ISECOM OSSTMM, BSI, ISA99 and IEC62443.

User Management
Full control of who can access the SiteManager gateway – even access time frames can be specified at your preference.

Device Management
Control who gets access to your devices: Full control over which device can be accessed by whom, all the way down to IP address or port level.

Audit & Reporting
All access activity is logged for auditing and to provide full transparency of user activity.

Network Connectivity
Ethernet/WIFI or 3G/4G for total network separation.

Physical Control
IO ports to physically control remote access.

- The solution is designed specifically for the automation industry
- The solution is proven and endorsed by machine builders
- The solution is secure
- The solution is easy to deploy and maintain
- The solution is scalable
- The solution is fully supported
- The solution actively helps fulfil obligations for servicing installed machines
- The solution recoups its investment through saved maintenance cost

Reduce travel costs with online remote maintenance access

Industrial Remote Access connects you to machines and equipment to view and control interfaces, troubleshoot equipment and install updates from anywhere in the world. It enables you to remotely perform corrective maintenance without costly, time-consuming on-site visits.

Easily deploy a high security certified remote access solution

Security and ease-of-use are the Achilles heel of many remote access systems. Our solution is based on a proven, trustworthy and certified secure remote access platform. The RT-series can be swiftly deployed and utilized with all levels of operating experience.

Instantly improve customer service quality with remote access

- Workday independent 24/7 remote access to all production equipment
- Centralized maintenance and control
- Rapid response times
- Access to Sysmac Studio Platform and CX-One platform