



Easy Gateway[®] Remote access, reinvented

Remote access to control systems for maintenance and support purposes has long since become standard. However, present modem connections are being phased out and need to be replaced. Aartesys has the solution.

The end of the modem

Circuit-switched telecommunication networks are increasingly being replaced by IP-based networks. As a result, classic modems are becoming obsolete. Soon, operators will probably also disconnect mobile modem services (CSD). IP networks are available to replace these; for example broadband Internet connections (xDSL, Fiber) or mobile data connections (GPRS, UMTS, LTE). However, the devices connected to such networks are not publicly viewable due to their protective mechanisms, and cannot be accessed directly either. Naturally, this challenge can be circumvented by the use of VPN or static IP addresses. But this is expensive and cumbersome.



The solution is called connect2control

Aartesys provides a generic approach that elegantly circumvents this problem. connect2control (C2C) is a simple and secure solution that ensures accessibility of the devices to be controlled.

- + The intended «target» (a control system, a measuring device, etc.) is directly connected to the Internet or a company network via C2C EasyGateway®. Different WAN interfaces are available for this purpose, from xDSL (Ethernet) through to direct fiber optic connectors. Even a mobile connection can be implemented without difficulty.
- + The C2C EasyGateway® completes an automatic login process at the C2C Control Center and configures itself. Aside from the configuration for software updates, the Control Center is responsible for monitoring and switching the connections.
- + All the customer needs is a PC with browser. He goes to connect.aartesys.ch and sends a request to connect with the C2C portal. The portal establishes a secure data connection to the target using tried-and-tested authentication processes; the transmission is end-to-end encrypted.
- + The C2C EasyGateway® is monitored during the process. As soon as it can no longer be reached, the C2C Control Center triggers an alarm.

Benefits

The customer only needs to purchase the necessary C2C EasyGateway® devices and signs a

service contract. Even if a mobile connection solution is chosen, it will work out less expensive than a system that uses conventional switched lines.

The devices of the EasyGateway® family have been used successfully in countless projects; and also the C2C portal has been tried and tested both in normal and extreme conditions. Thanks to its generic approach, C2C is extremely flexible and can be adapted to the requirements of the customer. Customers can continue using existing applications without any difficulty.

Target devices

Possible targets include control systems, machines and any type of measuring devices, but also locking systems, and many more. Typical applications include the integration of home control systems and also (smart) metering. In both cases, access is via the same secure communication connection. This means that near real-time data logging and transmission, generation of local load profiles, switching of control signals, threshold monitoring for measured values and criteria, and much more, can be implemented.

Aartesys

Aartesys designs products and services in the field of communications engineering. These include all-IP solutions for the access, transmission and evaluation of data in the area of machine-to-machine communication, but also for meter read-out where Aartesys systems help make the Smart Grid a reality.

Aartesys impresses with innovative solutions, customer-focussed consulting and efficient operation support. These can beneficially be used by SME and globally operating corporations alike, in particular in business-critical areas in the energy and telecommunications industries, but also in many other commercial and industrial applications.

A satisfied customer



Janitza electronics GmbH designs energy and voltage quality meters, among other things, that customers can now access using C2C from Aartesys. The necessary features were integrated into the Janitza software so that automatic establishment of the connection and access to the quality measurement data are extremely easy for the customer. «It is a truly clean solution that provides very quick read-outs», Tino Wagner, Head of Service/Application at Janitza, explains. «This is the first time that we have found a really good solution to replace the modem. And it also works excellently in other countries. Perfect!»

Janitza electronics GmbH