

General Specification

Exaquantum's
Virtual Private Network Manager



GS GMSCK0601-01E

■ The Problem

Standard OPC connectivity relies heavily upon Microsoft technologies such as DCOM. While it provides effective application integration, DCOM also represents a potential security risk due to the requirement for extensive TCP port usage.

■ The Solution

Yokogawa has recognized this issue and has developed a secure access mechanism based upon VPN technology that enables the normal operation of OPC connections without the security issues it introduces. Yokogawa customers who wish to provide effective and secure connections to the Process Control Domain can now do so utilizing Yokogawa's VPN Software Package.

The VPN Software Package can operate through a single port and single protocol (GRE). Network Address Translation (NAT) is also supported.

VPN effectively encapsulates the connection allowing DCOM to run within it. As an additional security measure, the VPN connection using a Windows Firewall can be restricted further to allow only specific DCOM connections to be established through it, such as Exaopc DA, A&E, HDA and Batch.

The VPN Software Package installs a small program on the OPC server (the OPC server program must run as a service) to allow a VPN connection to be initiated from the OPC server to the OPC client. If the VPN connection is lost, then this program will keep attempting to re-establish the VPN connection to the OPC client.

Exaquantum is not required.

■ Key Features

- Single firewall port required
- Allows firewalls to be NAT enabled
- Enhanced network security
- RPCs (Remote Procedure Calls) cannot be executed
- Secure VPN Protocol: PPTP (Point-to-point tunneling protocol)
- Data is encrypted
- Connection is initiated from an OPC server for increased security
- Redundant OPC connections supported (Exaopc-RD)
- Simple to install

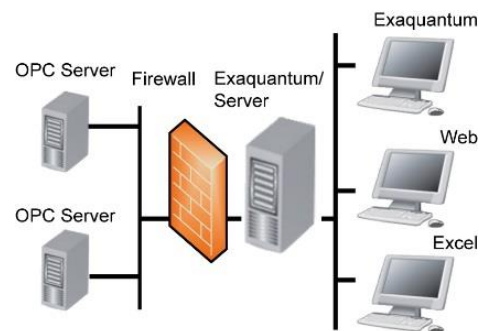
■ Models and Suffix Codes

Table: Exaquantum/VPN License

		Description
Model	GMSCK06	Exaquantum/VPN
Suffix Codes	-S	Always 'S'
	1	New Order (with Media)
	1	English version
	-N□□	Enter the required number of Exaquantum/VPN licenses into □□
	-YY/R□□	Enter the number of Redundant Exaquantum/VPN Licenses (one per redundant OPC server) into □□

Table: Exaquantum/VPN Maintenance Service

		Description
Model	GMSCK80	Exaquantum/VPN Maintenance
Suffix Codes	-S	Always 'S'
	1	Always 1
	1	Always 1
	-6N□□	Enter the number of VPN Manager Licenses in □□
	-YY/6R□□	Enter the number of redundant VPN Manager Licenses in □□



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