

① Preventive Maintenance (Condition-based Maintenance)

Remote maintenance system enables systematic maintenance of the equipment by monitoring the operating status and checking for signs of abnormality. Appropriate maintenance can extend the machine's lifespan and reduce the frequency of accidental stoppages.

Before application of WMI

Cleaning and oil supply are carried out by daily inspection and consumables are replaced by periodical inspection.

- Malfunction suddenly occurs
- Unexpected repair cost incurred
- Machine operation rate significantly drops

After application of WMI

Well-planned maintenance can be carried out by monitoring the condition of the equipment and not missing any signs of abnormality.

- Increased equipment operation rate
- Constant product quality
- Extension of equipment life
- Leveling of maintenance cost

② Improvement of Service and Work Efficiency

With remote maintenance, the operating status of the equipment can be monitored and information obtained. Planned patrol according to the operating hours is carried out, which improves inspection and maintenance efficiency.

Before application of WMI

Periodical inspection is carried out regardless of operating hours.

- Periodical patrol regardless of operating hours
- Inefficient inspection work

After application of WMI

Planned patrol is carried out according to operating hours of the equipment.

- Planned patrol according to operating hours of the equipment
- Efficient inspection work

Programmable Operator Interface MONITOUCH V9 series

MONITOUCH has completely revolutionized the man-machine interface of production sites. The new V9 MONITOUCH series with user-intuitive operability and expressive functions adds a new dimension to the future potential of your production site.

New Concept Web Machine Interface



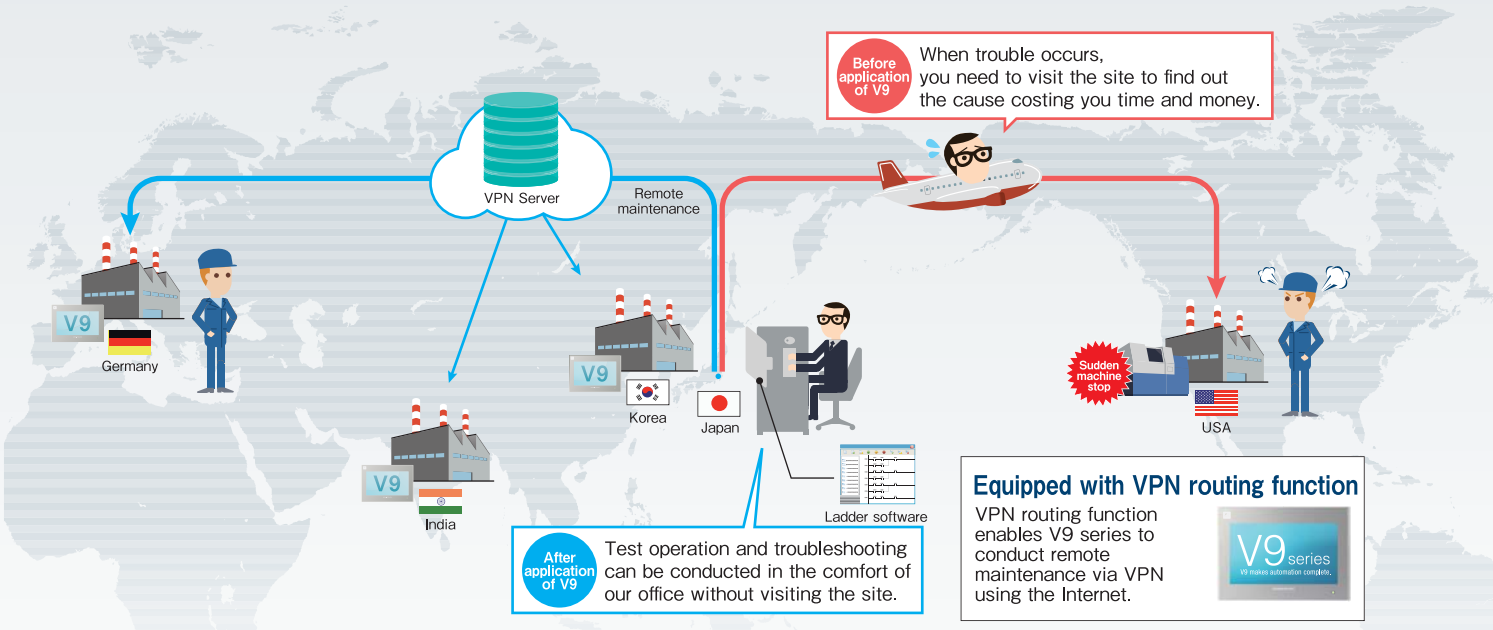
WMI connects you to the world through low-cost, secure remote access.



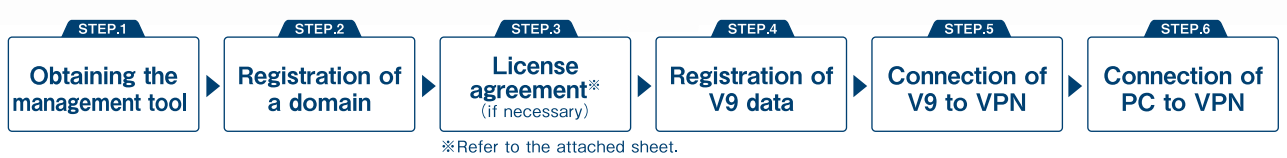
Hakko Electronics Co., Ltd.

The WMI system enables safe remote access through VPN.

Remote maintenance by VPN



Flow of VPN Remote Access Service

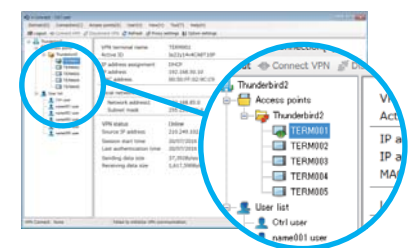


"V-Connect" management tool

When the "V-Connect" management tool is launched, the V9 units that have been registered are indicated on the screen. Click a unit to connect, and remote access via WMI is available.

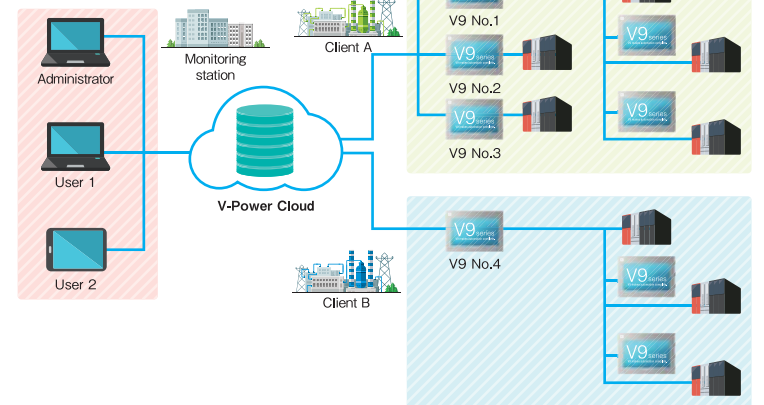
Connection status of the VPN server is instantly identifiable.

V9 is identified by an icon in the list.



: Connected with the VPN server
 : Disconnected from the VPN server

Image of connection configuration

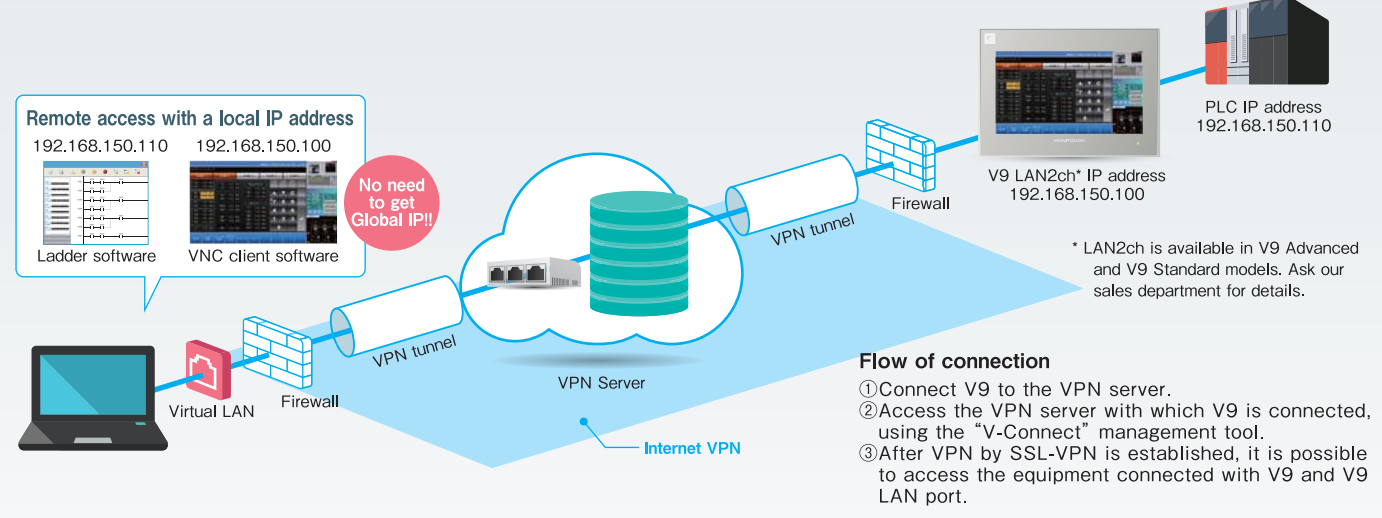


Operating environment of the "V-Connect" management tool

PC	Windows compatible PC/AT unit	CPU	1.0GHz or more
OS	Windows 7 (32bit, 64bit) / 8, 8.1 (32bit, 64bit) / 10 (64bit)	Memory	1.0GB or more (32bit), 2.0GB or more (64bit)
		Hard disk	For installation: 1.0GB or more (32bit), 2.0GB or more (64bit) required

* Installation requires administrator authority.

VPN connection



Features

Low cost remote access and VPN environment construction

When you have internet connectivity, the VPN environment can be established only by V9 without using a VPN router.

Safe and secure remote access

SSL-VPN enables safe and secure remote access.

Remote access to peripheral equipment

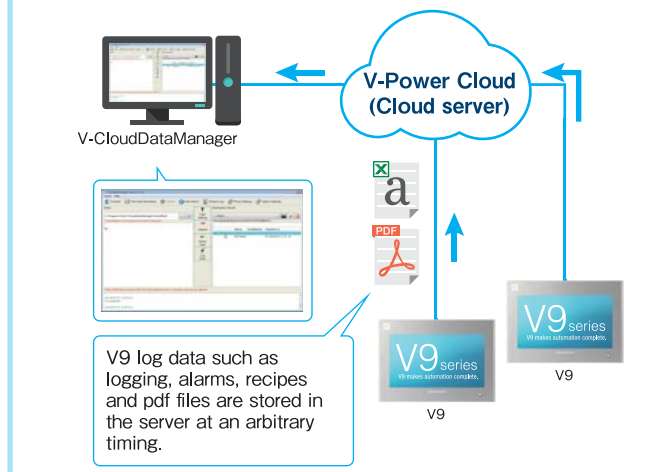
WMI equipped with routing function enables easy remote access to PLCs and other equipment connected to V9 via Ethernet.

Cloud database service

Adding Cloud Database Service to VPN Remote Access Service enables provision of the following services:

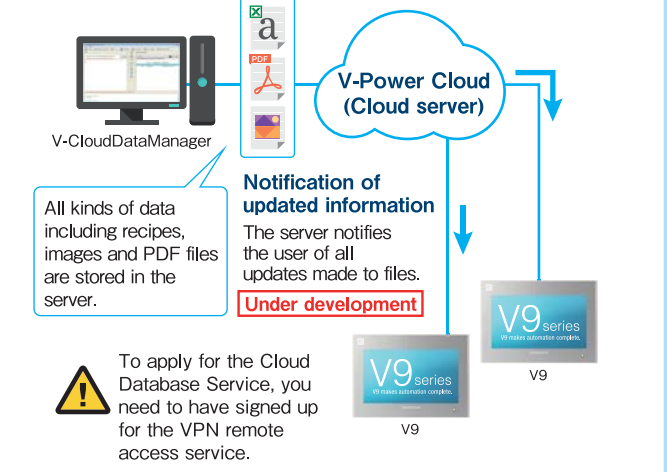
Data storage service

You can easily check the status of a remote site through the V9 log data in the cloud server from "V-CloudDataManager".



Data distribution service

Updated recipe and PDF files are distributed from the cloud server to the V9.



Operating environment of the "V-CloudDataManager" management tool

PC	Windows compatible PC/AT unit	CPU	2.0GHz or more
OS	Windows 7 (32bit, 64bit) / 8, 8.1 (32bit, 64bit) / 10 (64bit)	Memory	1.0GB or more (32bit), 2.0GB or more (64bit)
		Hard disk	For installation: 1.0GB or more (32bit), 2.0GB or more (64bit) required

* Installation requires administrator authority.

Web Machine Interface

VPN Remote Access Service / Cloud Data Service

VPN Remote Access Service

To start VPN remote access service, domain registration is required. Cost of a license, free or paid, depends on the license type you choose. You will receive necessary information to start the service after you register.

License Types

Type		Free* ¹	Value	Simple	Wide	Extra
System Configuration (see below)	1:1	OK	OK	OK	OK	OK
	1:n	OK	OK	OK	OK	OK
	1:n:m	OK	OK	OK	OK	OK
	n:n	-	OK	OK	OK	OK
V9 stations (max)		5	10	30	100	Unlimited
Part Number	Additional connection * ²	-			VPN-A	
	1st Year	-	VPN-V	VPN-S	VPN-W	VPN-E
	Renewal (annual)	-	VPN-VR	VPN-SR	VPN-WR	VPN-ER
	Notes	30 days (To be deactivated if paid license is not registered within the period.)				

*¹ Cloud data service is not available for a Free license.

*² Registered V9 panels are usually connected as a same network when VPN connection is established.
If you wish to use particular V9 panel(s) as different network, you need additional connection (subdomain) as many as necessary (see next page).
Cost of additional connection (subdomain) will incur during the time of application only (no additional cost for renewal).

Cloud Data Service

To start cloud data service, paid license of VPN remote access service is required. You will receive necessary information to start service after you register.

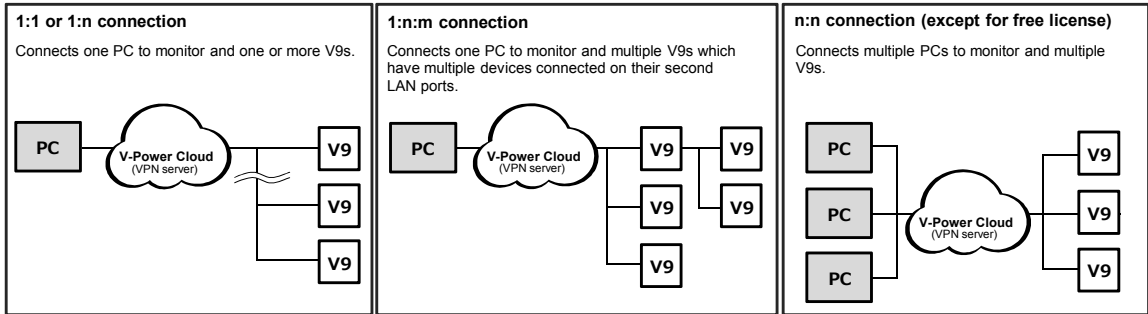
License Types

Plan * ¹	Type	New contract		Renewal contract	
		CDM-5	CDM-10	CDM-5R	CDM-10R
Data capacity		500MB	1GB	500MB	1GB

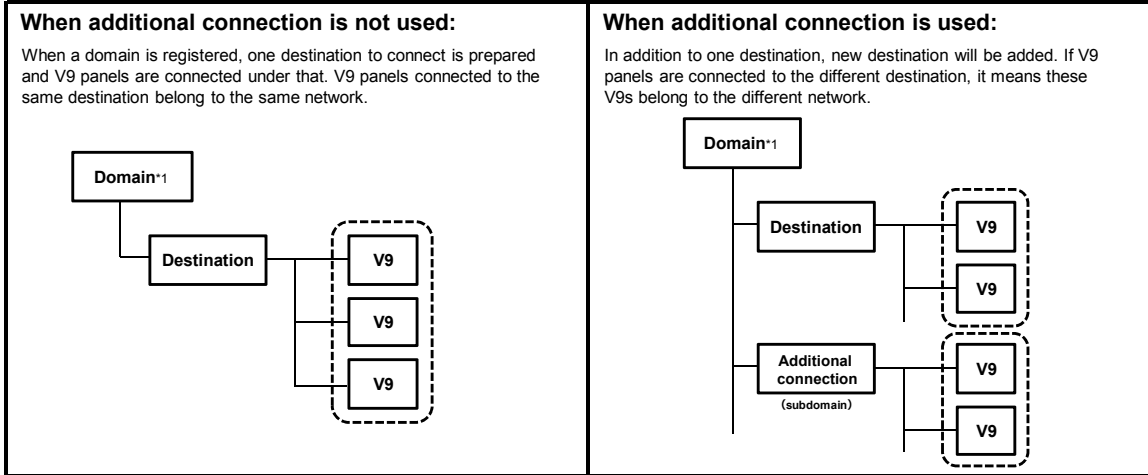
*¹ To use cloud data service, paid license for VPN remote access service is required.

System Configuration of VPN Remote Access Service

System configurations below are possible.

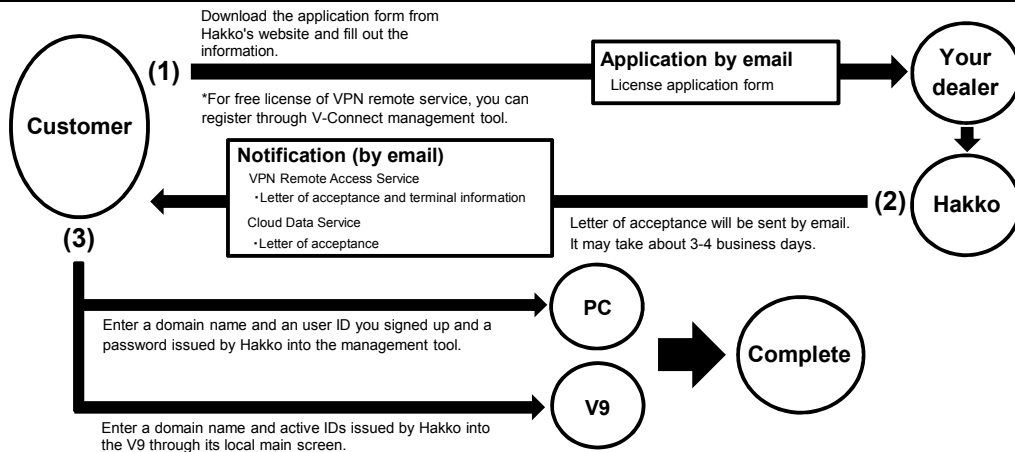


Additional connection (subdomain) of VPN Remote Access Service



*1 A domain is an ID to identify a user and this is required when you use VPN remote access service.

Application Procedure



Download site for the management tool and a license application form:

FAQs on Web Machine Interface is also available from Hakko's website.

URL : <http://monitouch.fujielectric.com/site/support-e/download-index-01.html>

Hakko Electronics Co., Ltd.

<http://www.monitouch.com>

Overseas Sales Department

Tel. +81-76-274-2144 Fax. +81-76-274-5136