

MONITOUCH

Web Machine Interface

Contents

1 VPN Remote Access Service



Hakko Electronics Co., Ltd.

Record of Revisions

Reference numbers are shown at the bottom left corner on the back cover of each manual.

Date	Reference No.	Revised Contents
February, 2015	1075NE0	First edition

1 VPN Remote Access Service

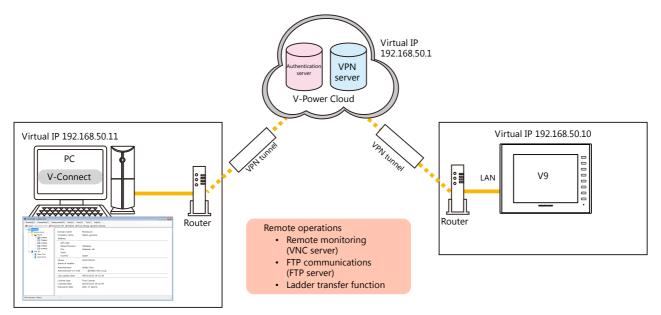
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1 VPN Remote Access Service

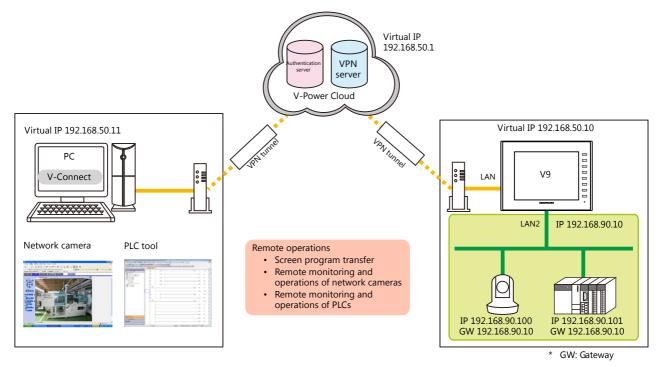
1.1 Overview

1.1.1 VPN Remote Access Service

- Easily enables remote access using V-Power Cloud (VPN server/authentication server) and V-Connect (management tool) that are prepared by Hakko Electronics.
- Configurable by simply preparing an Internet-connected environment.
- Prepare an environment that can perform communications using encryption protocols including HTTPS. There may be severe restrictions on the use of encrypted communications in your country or region. Operation is not guaranteed in such countries or regions.
- · Supports SSL-VPN to ensure safe remote access without any risk of eavesdropping or manipulation.



• Routing function (LAN2CH/3CH types only) Because the V9 series unit features a built-in routing function, devices on the local network can also be accessed.



• Remote operations available when connected to a VPN Remote operations are performed using the relevant software.

Remote Operation	Relevant Software
Screen program transfer	V-SFT-6
Remote monitoring and operation of V9 series units (VNC server function)	VNC client tool
FTP communications (FTP server function)	FTP client tool
Remote monitoring and operation of PLCs connected via serial connection to V9 series units (ladder transfer function)	LadderComOp PLC ladder tool
Remote management of V9 series units	TELLUS and V-Server (under development)
Remote monitoring and operation of network cameras on the local network where the V9 series unit is located	Network camera tool
Remote monitoring and operation of PLCs on the local network where the V9 series unit is located	PLC ladder tool

1.1.2 Applicable Models

The VPN remote access service can be used with the following versions and ports. For older versions, perform an OS and system updates as required.

V9	V9 Series Unit Version		VPN Connection Port *			
	OS	SYSTEM	LAN	LAN2	WLAN	CUR-03
V9 Advanced			0	0	0	×
V9 Standard	Ver. 1.10 or higher	Ver. 1.060 or higher	0	0	0	Х
V9 Lite			0	-	-	Х

* Only one port is used for VPN connection. The other ports are used to connect to the local network.

1.1.3 License

A license must be purchased in order to use the VPN remote access service.

The following table lists the license types and available number of access points and VPN terminal registrations.

Item		License				
		Free ^{*1}	Value	Simple	Wide	Extra
Access points *2		1	1	1	Unlimited	Unlimited
VPN terminals (V9)		5	10	30	100	Unlimited
Number of registered users		20	20	20	20	20
	1:1					
Connection	1:n	0	0	0		
type *3	1:n:m		0	0	0	0
	n:n	×				

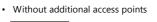
*1 A free license can be registered using the "V-Connect" management tool. The free license provides 30 days of use from the date of registration free of charge. To continue use after 30 days, switch to a paid license.

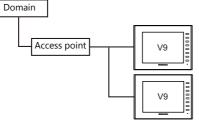
Switch to a paid license by downloading the application form for a paid Web Machine Interface license, entering the required information, and submitting the form to your local retailer.

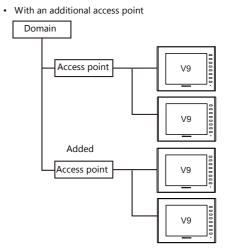
http://monitouch.fujielectric.com/site/support-e/download-index-01.html

Users - Owned - Developed	≫ Products ≫ Support ≫ FAQ	≫ Distributors
Home > Support > Download		
Support	Download	
Connectable Equipment	About Download	
PLC Temperature Controllers	>> V-SFT Member's Only	>> V-Connect Member's Only
Recommended Peripheral Equipment	MONITOUCH screen configuration software V-SFT and related files can be downloaded. >Information on version update	Download a management tool for Web Machine Interface (VPN remote access). >> Application form
List of Compatible Bar-code Readers	V-SFT Ver.5 V-SFT Ver.5 V-SFT Ver.5	Click here for license application form.
List of Recommended CF Cards	V-SFT Ver.2	Click here for a terms of service.
List of compatible printers	> Improvement information V-SFT Ver.6	

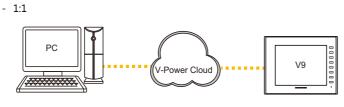
*2 Access points



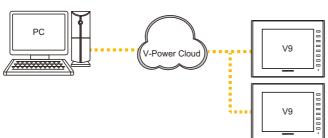




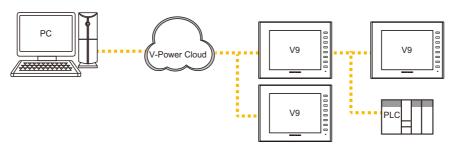
*3 Connection type



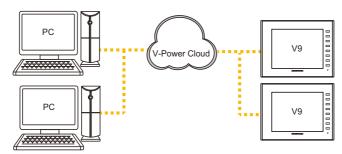
- 1:n



- 1:n:m



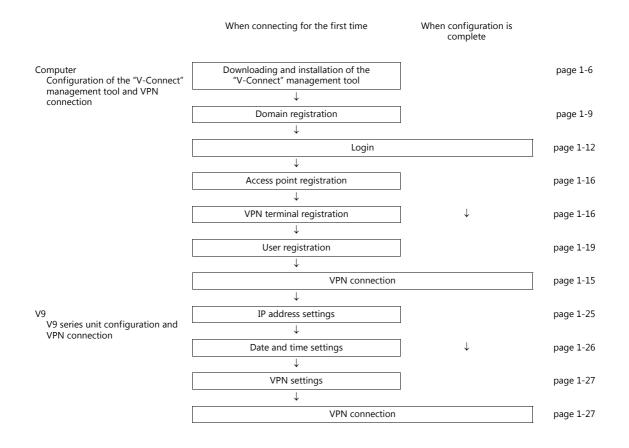
- n:n



1

1.2 VPN Connection Sequence

The sequence of configuration for connecting a computer and V9 series unit to the VPN is shown below. The "V-Connect" management tool (Ver. 1.1.0.0) must be installed on the computer.



1.3 V-Connect Management Tool

1.3.1 Operating Environment

Make sure that your system meets the following system requirements before starting V-Connect (version 1.1.0.0).

Computer	PC/AT compatible computer running Windows	
OS *	Windows 7 (32-bit, 64-bit) / 8 (32-bit, 64-bit) / 8.1 (32-bit, 64-bit)	
CPU	Min. 1.0GHz	
Memory	Min. 1.0 GB for 32-bit, min. 2.0 GB for 64-bit	
Hard disk	At installation: Min. 1.0 GB for 32-bit, min. 2.0 GB for 64-bit	
Display resolution	1024 × 768 dots (XGA) or higher	
Display colors	High color (16-bit) or higher	

* Administrator privileges are required for installation.

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- · Windows is a registered trademark of Microsoft Corporation in the United States.
- All other product names are trademarks or registered trademarks of their respective holders.

Notes on Usage

• The software may not be correctly installed if resident programs and applications such as an antivirus program are running. Be sure to close all applications before installing the software.

1.3.2 User Types and Privileges

The following table lists the types of users that can operate V-Connect and the corresponding user privileges.

Item			User Type and Privileges			
	Item	Domain Administrator	Administrator	Normal User		
Domain	Register domain		×	×		
	Modify Domain		~			
Connection	Connect VPN			0		
	Disconnect VPN					
Access points	New access point		0			
	Delete access point			×		
	Modify access point					
User	New user					
	Delete user		0	×		
	Modify user	0	*1			
	Change user password					
View	Show domain			0		
	Refresh					
	Log info (for management)			×		
	Log information (for VPN connection)	_	0	0		
Tool	Proxy settings					
	Option settings			0		
Help	About					

*1 Registration, deletion, and modification of other administrator accounts and modifying the privileges of normal users cannot be performed.

1.3.3 Installation

Procedure

Example: Windows 7

- Download the "V-Connect Ver. 1.1.0.0" management tool from the Hakko Electronics website. URL: http://monitouch.fujielectric.com/site/support-e/download-index-01.html
 - * User registration is required to download the software.



2. Double-click on the downloaded file to start the installation process.

V-Connect Setup	
	Welcome to the V-Connect Setup Wizard This wizard will guide you through the installation of V-Cornect. It is recommended that you close all other applications before starting Setup. This will make it possible to update relevant system files without having to reboot your computer.
R	Click Next to continue.
	Next > Cancel

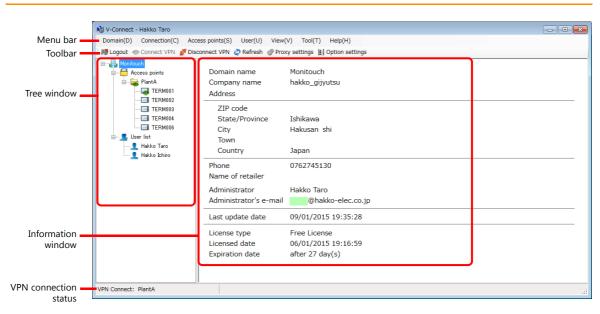
3. Proceed according to the displayed instructions and when the [Installation Complete] window appears, click [Close].

P V-Connect Setup	- • ×
Installation Complete Setup was completed successfully.	6
Completed	
Show details	
Hakko Electronics Co., Ltd	Close Cancel

This completes the installation procedure. The software can be started from the Start menu.

1.3.4 V-Connect Configuration

Names of Parts



Menu Bar

Domain(D) Connection(C) Access points(S) User(U) View(V) Tool(T)	Help(H)
--	---------

	Item	Description	Refer to	
Domain	Modify Domain	Modify registered domain information.	page 1-14	
	Logout	Log out.		
Connection	Connect VPN	Establish a VPN connection with the selected access point.	page 1-15	
	Disconnect VPN	Disconnect the current VPN connection.		
Access points	New access point	Register an access point and VPN terminal (V9).	page 1-16	
	Delete access point	Delete an access point and VPN terminal (V9).	page 1-18	
	Modify access point	Change access point and VPN terminal (V9) settings.		
User	New user	Perform user registration.	page 1-19	
	Delete user	Delete a user.	page 1-20	
	Modify user	Modify user settings.		
	Change user password	Change a user password.		
View	Show domain	Display domain information.	page 1-21	
	Refresh	Obtain information on the current domain from the authentication server and display it.		
	Log info	Check V-Connect operation logs and VPN connection history.		
Tool	Proxy settings	Configure proxy settings.	page 1-23	
	Option settings	Configure tool operation.		
Help	About	Check the V-Connect version information and license agreement.	page 1-24	

Toolbar

🗱 Logout 🚸 Connect VPN 🚿 Disconnect VPN 🧔 Refresh 🛷 Proxy settings 👔 Option settings

Item	Description	Refer to
Logout	Log out.	page 1-14
Connect VPN	Establish a VPN connection with the selected access point.	page 1-15
Disconnect VPN	Disconnect the current VPN connection.	
Refresh	Obtain information on the current domain from the authentication server and display it.	page 1-21
Proxy settings	Configure proxy settings.	page 1-23
Option settings	Configure tool operation.	

Tree Window/Information Window

The details of the item selected in the tree window can be checked in the information window.

• Domain

谢 V-Connect - Hakko Taro			
Domain(D) Connection(C) Acc	ess points(S) User(U) Vie	w(V) Tool(T) Help(H)	
🗱 Logout 🐵 Connect VPN 🚿 Disc	connect VPN 🧔 Refresh 🛷 P	oxy settings 👔 Option settings	
Controuct Access points Access points Access points TERM001 TERM002 TERM004 TERM004 TERM004 TERM004 Access points User list Hakko Taro Hakko Taro	Domain name Company name Address ZIP code State/Province City Town Country	Monitouch hakko_gijyutsu Ishikawa Hakusan shi Japan	
	Phone	0762745130	
	Name of retailer		

• Access points

V-Connect - Hakko Taro							
Domain(D) Connection(C) Ac	cess points(S) User(U) Viev	w(V) Tool(T) Help(H)				
🗿 Logout 🚸 Connect VPN 🛛 💕 Di:	sconnect VPN 🧔 Refresh 🛷 Pr	oxy settings 👔 Option s	ettings				
- Access points	Access point name	Pla	ntA				
E PlantA	IP address	192	2.168.50).1			
La TERMODI	Subnet mask	255	5.255.25	5.0			
TERM002	DHCP Start Address	192	2.168.50	0.10			
TERM003	DHCP assignment ip a	address number 100)				
TERM004							
TERM006	Routing reconfigu	ration					
iser list ∎ Hakko Taro							
Hakko Taro	VPN Terminal name	Active ID	Туре	IP address	SubnetMask	LocalNetwork1	SubnetMask1
	TERM001	5TCuV026v01164A1	DHCP			192.168.90.0	255.255.255.0
Disconnected	TERM002	5TCuV026v01564A1	DHCP				
	TERM003	5TCuV026v0c274A1	DHCP				
浸 Connected	TERM004	5TCuV02Jv0c874A1	DHCP				
	TERM006	5TCKV02p4f1159A1					

• VPN terminals

👌 V-Connect - Hakko Taro				
Domain(D) Connection(C) Acce	ss points(S) User(U) View(V)	Tool(T) Help(H)		
🏙 Logout 🐵 Connect VPN 🛯 💕 Disc	onnect VPN 🧔 Refresh 💣 Proxy se	ettings 🛔 Option settings		
Monitouch Access points PlantA PlantA TERM001 TERM001 TERM002	VPN terminal name Active ID IP address assignment IP address	TERM001 5TCuV026v01164A1 DHCP 192.168.50.10	Subnet mask	255.255.255.0
	MAC address	00:50:FF:08:AB:0C		
👤 Hakko T 👤 Hakko I	Network address1 Subnet mask	192.168.90.0 255.255.255.0	Network address2 Subnet mask	192.168.10.0 255.255.255.0
Connected	VPN status Source IP address	Online 61.121.103.156		
Disconnected	Session start time Last authentication time	09/01/2015 19:39:20 09/01/2015 19:39:20		
	Sending data size Receiving data size	1,024Bytes 49,310Bytes		

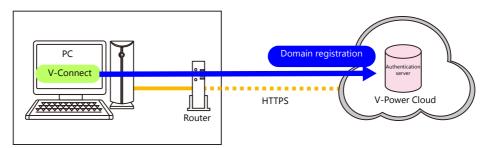
• Users

👌 V-Connect - Hakko Taro			
Domain(D) Connection(C) A	ccess points(S) User(U) View(V) Tool(T) Help(H)	
🗱 Logout 🚸 Connect VPN 🚿 D	isconnect VPN 🧔 Refresh 🛷 Prox	y settings 🛔 Option settings	
🖃 🗐 Monitouch			
🖶 🕂 Access points	Full name	Hakko Ichiro	
🗄 🖓 🙀 PlantA	User ID	user_0123456	
TERM001			
	Company and/or Depar	tment	
ERM003	E-mail		
🔚 TERM004	Types of authority	User	
TERM006			
🖮 🚣 User list			
Hakko Taro			
Hakko Ichiro			

1.3.5 Domain

Registering a Domain

Use the "V-Connect" management tool to register domain information to the "V-Power Cloud" authentication server. Domain registration must be performed by a domain administrator.



Procedure

- 1. Start V-Connect.
- 2. Click the [New Domain] button.

N-Connect Login		
Domain name		
User ID		
Password		
	□ Remember the domain name and user ID	Option(0)
New domain(D	ОК	Cancel

3. Enter the information required to register a domain and click the [OK] button. An asterisk (*) denotes a mandatory field.

Domain Information					
		ation (free license)			
Set the domain inf	orma	ition.			
(*: Required)					
Domain name	*		Administrator information		
			User ID	*	
Country		Japan 🔻	Password	*	
Company name	*		Password (Confirm)	*	
Phone	*		Company and/or		
ZIP code			Department		
			FullName	*	
State/Province	*		E-mail address	*	
City	*		E-mail address (Confirm)	*	
Town					
Name of retailer					
					OK Cancel

	Item	Max. Characters	Remarks
Domain information	Domain name	4 to 16	One-byte alphanumeric characters (case-sensitive) Symbols: !, #, \$, %, &, -, ^, @, ., and _
	Country	-	
	Company name	100	Maximum of 100 one-byte or two-byte characters
	Phone	30	One-byte numerals Symbols: (,), -, +, _ , ., and space
	ZIP code	20	One-byte alphanumeric characters (case-sensitive) Symbols: -, _, ., and space
	State/Province	60	Maximum of 60 one-byte or two-byte characters
	City	120	Maximum of 120 one-byte or two-byte characters
	Town	120	Maximum of 120 one-byte or two-byte characters
	Name of retailer	100	Maximum of 100 one-byte or two-byte characters

	Item	Max. Characters	Remarks
Administrator information	User ID	8 to 20	One-byte alphanumeric characters (not case-sensitive) Symbols: #, %, &, -, ., and _
	Password	6 to 20	One-byte alphanumeric characters (case-sensitive)
	Password (Confirm)		Symbols: #, %, &, -, ., and _
	Company and/or Department	100	Maximum of 100 one-byte or two-byte characters
	Full Name	60	Maximum of 60 one-byte or two-byte characters
	E-mail address	256	
	E-mail address (Confirm)		

4. Click [Send] in the [Send Domain Information] dialog box. A message indicating that temporary domain registration is complete is displayed.

To revise the entered information, click [Cancel] to return to the entry window. An error message is displayed if there is a mistake in the information for registration. Correctly enter the information and try again.

Send Domain Information		
Domain information will be temp registration notification will be se Are you sure? * Information to send will be enc		
	Send Cancel	Return to the entry window.
	Temporary Domain Registration Completion	
	Temporary domain registration is	completed.
	A temporary registration completion me	essage has been sent via e-mail.
	Confirm your registration using the aut within 72 hours .	hentication code given in the e-mail
	Confirm domain	n registration

5. Click the [Confirm domain registration] button. The [Domain Registration Confirmation] window is displayed.

Domain Registration Confirmation	×
Confirm registration of domain.	
An authentication code is required to complete (confirm) the domain registration .	
Enter the authentication code given in the temporary registration completion notification.	
Authentication code	
* Confirm your registration within 72 hours from temporary registration.	
Registration can be confirmed with the temporarily registered domain name and administrator user ID.	
OK Cancel	

6. Check that the administrator receives an email with the subject "Hakko Electronics Web Machine Interface - VPN Service Temporary Registration".

 Copy the authentication code in the email and paste it into the [Authentication code] field in the [Domain Registration Confirmation] window.
 Click [OK].

Hakko Electronics Web Machine Interface - VPN Service Temporary Regis	stration
Web Machine Interface <wmi-info@vpower-cloud.com></wmi-info@vpower-cloud.com>	
Sent : 2015/01/09 (金) 20:09	
To: Hakko Taro	
Subject: Hakko Electronics Web Machine Interface - VPN Service Temporary Registr	ation.
Thank you very much for choosing Hakko Electronics Web Machine Interface VPN ser	vice.
	Domain Registration Confirmation
The email address <u>Chakko-elec.co.jp</u> was temporarily registered as the emai	Confirm registration of domain.
[Authentication code]	An authentication code is required to complete (confirm) the domain registration .
29e9	Enter the authentication code given in the temporary registration completion notification.
Start the V-Connect software and enter the authentication code to finalize your	
	Authentication code 29e9
<validity of="" registration="" temporary=""></validity>	
You must finalize your registration within 72 hours. In case your finalization is not confirmed within this period, the authentication	* Confirm your registration within 72 hours from temporary registration.
be voided.	Registration can be confirmed with the temporarily registered domain name
	and administrator user ID.
<if by="" email="" feel="" mistake="" receive="" this="" you=""> This email is a system-generate</if>	OK Cancel
Please discard this email if you think you received it in error.	
Your email address information will be automatically deleted in 72 hours.	



Period of temporary registration validity If the email indicating that temporary registration is complete cannot be checked right away, registration can be completed at a later time by closing V-Connect with the [Cancel] button. However, note that the validity period of temporary registration is 72 hours. If registration is not completed within 72 hours, both the authentication code and temporary registration information are

If registration is not completed within 72 hours, both the authentication code and temporary registration information are invalidated.

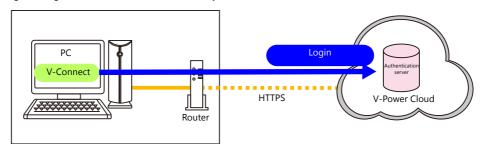
8. Click [Yes] in the confirmation window. A registration complete message is displayed.



This completes the registration process.

Login

Log into the "V-Power Cloud" authentication server from the "V-Connect" management tool. * Always log in using the administrator ID immediately after domain creation.



Procedure

- 1. Start V-Connect.
- Enter the information (domain name/user ID/password) for the registered domain.
 To avoid having to enter the domain name and user ID from the next time V-Connect is started, select the [Remember the domain name and user ID] checkbox.

💐 V-Connect Login	×
Domain name	
User ID	
Password	
	Remember the domain name and user ID Option(0)
New domain(<u>D</u>)	OK Cancel

3. Configure the proxy settings and option settings.

• Proxy settings

Configure these settings when connecting to the Internet via a proxy server.

	Internet connection proxy settings					
Option(0)	 Direct connection to internet(<u>D</u>) Connect to internet via HTTP proxy server(<u>I</u>) 					
Proxy settings(P)	Host name(<u>H</u>)					
Cancel 1 Option settings(0)	Port number(<u>N</u>)					
	User(U) (Option)					
	Password(P) (Option)					
	OK Can	cel				

Item		Description			
Direct connection to internet		Connect to the Internet directly without using a proxy server in cases such as when connecting to a mobile router.			
Connect to internet via HTTP proxy server *1	Host name	Set the IP address of the proxy server.			
	Port number	Set the port number of the proxy server.			
	User	Set the user ID for logging into the proxy server.			
	Password	Set the password for logging into the proxy server.			

*1 For information on proxy server settings, consult your network administrator.

 Option settings Configure V-Connect operation.
 Option (0) Opti

and the second se	Preferences
Option(O)	■ Put in the Task Tray when minimized(<u>M</u>)
Cancel [1] Option settings(0)	Refresh cycle of VPN terminals status(<u>C</u>) <u>5 minutes</u>
	OK Cancel
Item	Description
Class a window when lagout	Selected: Class V Connect after logging out

Item	Description
Close a window when logout	Selected: Close V-Connect after logging out. Unselected: Return to the V-Connect login window after logging out.
Put in the Task Tray when minimized	Selected: Display a management tool icon in the task tray when the window is minimized. Unselected: Display the management tool on the task bar when the window is minimized.
Refresh cycle of VPN terminals status	Set the cycle for refreshing the status of VPN terminal icons in the tree window. The information window is also refreshed when a VPN terminal is selected. None (no automatic refresh) ^{*1} /1 minute/5 minutes/10 minutes/30 minutes/60 minutes

*1 Refresh the status by clicking [View] \rightarrow [Refresh].

4. Return to the [V-Connect Login] window and click [OK].

N-Connect Login	×
Domain name	Monitouch
User ID	xxxxhakko
Password	******
	□ Remember the domain name and user ID Option(0) ▼
New domain(<u>D</u>)	OK Cancel

5. The following window is displayed after successfully logging in.



The following message is displayed if there are no registered access points. Register an access point, VPN terminals, and users.

Confirm Access Point Registration				
No access point is registered.				
Register an access point and VPN terminal from the [Access point] / [New access point] menu.				
ОК				

Modifying the Domain

Modify registered domain information.

* Only the domain administrator can perform modifications.

Procedure

1. Select a domain in the tree window.

褖 V-Connect - Hakko Taro			- • ×
Domain(D) Connection(C) Acc	ess points(S) User(U) Vie	w(V) Tool(T) Help(H)	
👬 🗱 Logout 🐵 Connect VPN 💣 Disc	connect VPN 🧔 Refresh 🛷 Pr	roxy settings 🛓 Option settings	
Honitouch Access points PlantA TERM001 TERM002	Domain name Company name Address	Monitouch hakko_gijyutsu	
TECM003 TERM004 TERM004 TERM004 TERM006 Jerlist Hakko Taro Hakko Taro Hakko Taro	ZIP code State/Province City Town Country	Ishikawa Hakusan shi Japan	

2. Click [Domain] → [Modify Domain]. The [Domain Information] window is displayed.

Domain(D)	Domain Information		
Modify Domain(M)	Domain name		Monitouch
10 Logout(O)	Country		Japan 🔹
	Company name	*	hakko_gijyutsu
	Phone	*	0762745130
	ZIP code		
	State/Province	*	Ishikawa
	City	*	Hakusan shi
	Town		
	Name of retailer		
			OK Cancel

3. Perform any modifications and click [OK] when finished.

Logout

Log out of V-Connect. If a VPN connection is established, the software also disconnects from the VPN.

Procedure

1. Click the [Logout] icon or [Domain] \rightarrow [Logout]. A confirmation dialog box is displayed.

	V-Connect
N Logout	
	Are your sure you want to logout?
Domain(D)	Ŭ
Modify Domain(M)	ОК Cancel
Logout(O)	Cancer

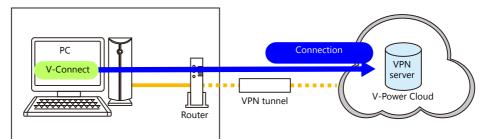
2. Click [OK] to log out.

1

1.3.6 Connection

Establishing a VPN Connection

Connect the "V-Connect" management tool to the "V-Power Cloud" access point.

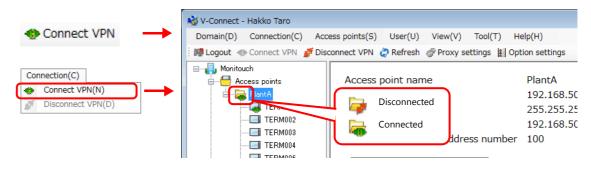


Procedure

1. Select an access point in the tree window.

N-Connect - Hakko Taro							- • • •×
Domain(D) Connection(C) Acc	ess points(S) User(U) View(V)	Tool(T) Help(H)					
🗄 🏙 Logout 🚸 Connect VPN 🚿 Dis	connect VPN 🧔 Refresh 💣 Proxy	settings 📳 Option se	ttings				
Monitouch	Access point name IP address Subnet mask DHCP Start Address DHCP assignment ip addr Routing reconfigurati	255 192 ress number 100	.168.50. .255.255 .168.50.	.0			
Hakko Taro	VPN Terminal name	Active ID	Туре	IP address	SubnetMask	LocalNetwork1	SubnetMask1
_	TERM001	5TCuV026v01164A1	DHCP			192.168.90.0	255.255.255.0

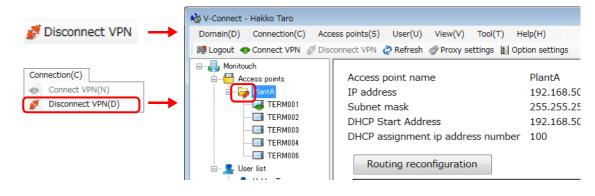
2. Click the [Connect VPN] icon or [Connection] → [Connect VPN]. A VPN connection is established.



Disconnecting a VPN Connection

Procedure

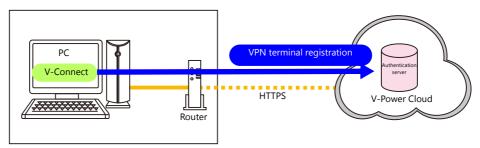
- 1. Select an access point in the tree window.
- 2. Click the [Disconnect VPN] icon or [Connection] \rightarrow [Disconnect VPN]. The VPN connection is disconnected.



1.3.7 Access Points

Registering Access Points

Use the "V-Connect" management tool to register access points and VPN terminals to the "V-Power Cloud" authentication server.



Procedure

- 1. Click [Access points] → [New access point]. The [Access Point Information] window is displayed.
- 2. Set the access point information.

	Access Point Information	×		
	Set the relevant information of the access point. (*: Required)			
Access point	Access point name * PlantA)		
information	IP address * 192 . 168 . 50 . 1 Subnet mask * 255 . 255 . 255 . 0			
	DHCP start address * 192 . 168 . 50 . 10 DHCP assignment * 100 ip address number	J		
	Allowable number of additional 5 VPN terminals			
VPN terminal information	Registered VPN terminals in domain 0 Additional number 5 VPN terminals registered 0 of VPN terminals for this access point			
	Active ID VPN Terminal name CSV output OK Cancel			

Item	Description	Remarks
Access point name	Access point name	Maximum of 100 characters
IP address	Virtual IP address of the access point *1	IPV4 address classes A through C can be specified.
Subnet mask	Subnet mask of the access point	
DHCP start address	Start IP address used when allocating virtual IP addresses ^{*1} of VPN terminals (V9) using DHCP	
DHCP assignment IP address number	Maximum number of VPN terminals for allocating virtual IP addresses ^{*1} using DHCP	0 to 254
Allowable number of additional VPN terminals	Allowable number of additional VPN terminals that can be registered	0 to 999 ^{*2}
Registered VPN terminals in domain	Number of VPN terminals that can be registered to the domain	
VPN terminals registered for this access point	Number of VPN terminals registered to the selected access point	
Additional number of VPN terminals	Register additional VPN terminals	0 to 999 ^{*2}
CSV output	Output VPN terminal information to CSV file	

*1 Virtual IP addresses

IP addresses that are only allocated for the purpose of VPN connection. These IP addresses cannot be used for any other purpose.

*2 The maximum number differs depending on the license type. Refer to "1.1.3 License"

3. Register VPN terminals (V9).

Enter a value for [Additional number of VPN terminals] and click [Add]. The number of specified VPN terminals are temporarily registered.

	VPN terminals registered for this access point	Additional num 5 of VPN termina		Add
Additional number 5 Add	Active ID	VPN Terminal name		^
of VPN terminals	5TCuV026v01164A1	TERM001	Edit	Delete
minal name	5TCuV026v01564A1	TERM002	Edit	Delete
	5TCuV026v0c274A1	TERM003	Edit	Delete
	5TCuV02Jv0c874A1	TERM004	Edit	Delete
	CSV output	[ОК	Cancel

4. If VPN terminal information requires modification, click [Edit] to modify and [OK] to accept the changes.

Active ID	5TCuV026v01164A1
VPN terminal name 🔹	TERM001
	● DHCP ○ Static IP
IP address	
Subnet mask	• • •
Local network1	Local network2
Subnet mask	Subnet mask

Item	Description	Remarks	
Active ID	VPN terminal ID This ID is automatically issued by the authentication server.	Registered VPN terminals can be updated by clicking [Delete] \rightarrow [Add].	
VPN terminal name	Name of the VPN terminal		
DHCP ^{*1} Static IP ^{*2}	IP address allocation method for the VPN terminal	[DHCP]: Automatically issued from the server	
IP address	IP address of the VPN terminal	[Static IP]: User-defined	
Subnet mask	Subnet mask of the VPN terminal		
Local network1	Address of local network 1 of the VPN terminal	Settable with LAN2CH and LAN3CH	
Subnet mask	Subnet mask of local network 1 of the VPN terminal	types	
Local network2	Address of local network 2 of the VPN terminal	Settable with LAN3CH type	
Subnet mask	Subnet mask of local network 2 of the VPN terminal		

- *1 The IP address may change because it is automatically allocated by the server.
- *2 The set IP address and subnet mask are always allocated.
- 5. When all VPN terminal settings are configured, click [OK]. The access point and VPN terminal are registered to the authentication server.

VPN terminals registered for this access point	5	Additional num of VPN termina		Add	
Active ID	VPN Term	inal name			
5TCuV026v01164A1	TERM001		Edit	Delete	
5TCuV026v01564A1	TERM002		Edit	Delete	≡
5TCuV026v0c274A1	TERM003		Edit	Delete	<u>]</u>
5TCuV02Jv0c874A1	TERM004		Edit	Delete].
CSV output			ОК	Cancel	

6. To delete a VPN terminal, click [Delete] and [OK].



Deleting a VPN terminal causes the active ID to disappear completely. When registering the VPN terminal again, a different active ID is allocated. Take sufficient care when deleting VPN terminals in use.

Deleting Access Points

Delete registered access points.

Procedure

- 1. Select an access point to delete in the tree window.
- Click [Access points] → [Delete access point]. A confirmation dialog box is displayed. If deleting an access point when a VPN connection is established, select the [Force Delete] checkbox.

Access points(S)	Delete Access Point	—
New access point(A)	The next access point	will be deleted.
🛬 Delete access point(R)	The next decess point	Win De deleted.
Modify access point(M)	Access point name	PlantA
		Force Delete
	ОК	Cancel

3. Click [OK] to delete the access point.

Modifying Access Points

Modify registered access point information and VPN terminal information and delete VPN terminals.

Procedure

- 1. Select an access point in the tree window.
- 2. Click [Access points] → [Modify access point]. The [Access Point Information] window is displayed.

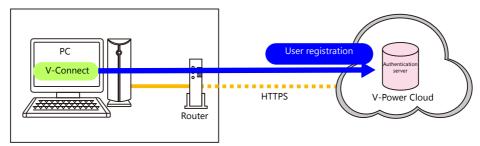
Access points(S)	Access Point Information
New access point(A) Delete access point(R)	Set the relevant information of the access point. (*: Required)
bodify access point(M)	Access point name * PlantA
	IP address * 192 . 168 . 50 . 1 Subnet mask * 255 . 255 . 255 . 0
	DHCP start address * 192.168.50.10 DHCP assignment * 100 ip address number
	Allowable number of additional 0 VPN terminals
	Registered VPN terminals in domain 5 Additional number Add VPN terminals registered 5 of VPN terminals Add for this access point Add Add Add
	Active ID VPN Terminal name
	5TCuV026v01164A1 TERM001 Edit Delete
	5TCuV026v01564A1 TERM002 Edit Delete
	5TCuV026v0c274A1 TERM003 Edit Delete
	5TCuV02Jv0c874A1 TERM004 Edit Delete
	CSV output OK Cancel

3. Modify the settings. For details on settings, refer to "Registering Access Points".

1.3.8 Users

Registering Users

Use the "V-Connect" management tool to register user information to the "V-Power Cloud" authentication server. A maximum of 20 users can be registered to a single domain.



Procedure

- 1. Click [User] \rightarrow [New user]. The [New User] window is displayed.
- 2. Register user information.

An asterisk (*) denotes a mandatory field.

Liese/LI)	New User	×
User(U) New user(A) Delete user(R) Modify user(M) Change user password(P)	UserID * Password (Confirm) * FullName * e-mail e-mail (Confirm) Company and/or Department Types of authority	User •

Item	Max. Characters	Remarks
User ID *	8 to 20	One-byte alphanumeric characters (not case-sensitive) Symbols: -, _ , #, %, &, and.
Password *	6 to 20	One-byte alphanumeric characters (case-sensitive)
Password (Confirm) *		Symbols: -, _ , #, %, &, and.
Full Name *	60	Maximum of 60 one-byte or two-byte characters
e-mail	256	
email (Confirm)		
Company and/or Department	100	Maximum of 100 one-byte or two-byte characters
Types of authority	-	Normal user/administrator For more information, refer to "1.3.2 User Types and Privileges".

3. Click [OK] to complete user registration.

Deleting Users

Delete registered users.

- 1. Select a user to delete from the user list in the tree window.
- 2. Click [User] \rightarrow [Delete user]. A confirmation window is displayed.
 - If deleting a user with an established VPN connection, select the [Force Delete] checkbox.

User(U)	Delete User		
New user(A) Delete user(R)	The next user accou	int will be deleted.	
Change user password(P)	UserID	user_0123456	
	FullName	Hakko Ichiro	
	e-mail		
	Company and/or Department		
	Types of authority	User	
		Force Delete	
	0	K Cancel	

3. Click [OK] to delete the user.

Modifying User Information

Modify registered user information.

- 1. Select a user to modify from the user list in the tree window.
- 2. Click [User] \rightarrow [Modify user]. The [Modify User] window is displayed.

	Modify User		
ser(A)			
user(R)	UserID	*	user_0123456
user(M)	FullName	*	Hakko Ichiro
	e-mail		
	e-mail (Confirm)		
	Company and/or		
	Department		
	Types of authority		User
			ОК

3. Modify the registered information and click [OK] when finished.

Changing User Passwords

Change a registered password.

- 1. Select the user whose password is to be changed from the user list in the tree window.
- 2. Click [User] \rightarrow [Change user password]. The [Change user password] window is displayed.

User(U)	Change user password
 New user(A) Delete user(R) Modify user(M) 	Please set the password to be changed. (Alphanumeric and#%_ 6-20 characters) Please also set the password for confirmation in order to prevent the change mistake.
Change user password(P)	New Password
	New Password (Confirm)
	OK Cancel

3. Enter a new password and click [OK] when finished.

1.3.9 View

Show Domain

Display the obtained domain information.

n Information		
Domain name	Monitouch	
Company name	hakko_gijyutsu	
Address		
ZIP code		
State/Province	Ishikawa	
City	Hakusan shi	
Town		
Country	Japan	
Phone	0762745130	
Name of retailer		
Administrator	Hakko Taro	
Administrator's e-m	@hakko-elec.co.jp	
Last update date	09/01/2015 20:48:19	
License type	Free License	
Licensed date	06/01/2015 19:16:59	
Expiration date	after 27 day(s)	
		ОК

Refresh

Obtain information on the current domain from the authentication server and refresh the display.

Log Info

Logs containing management operations performed using V-Connect and VPN connection history for the last three months can be checked.

The following table lists the log information that can be referenced and which users can reference it.

Operation		Log Information	Domain Administrator Administrator	Normal User	
Management operations	Register user	Date/time Registered user ID, name User ID and name of user that performed registration			
	Delete user	Date/time Deleted user ID, name User ID and name of user that performed deletion	-		
	New access point	Date/time Registered access point name User ID and name of user that performed registration		~	
	Delete access point	Date/time Deleted access point name User ID and name of user that performed deletion		×	
	VPN terminal registration	Date/time Registered VPN terminal name User ID and name of user that performed registration			
	VPN terminal deletion	Date/time Deleted VPN terminal name User ID and name of user that performed deletion	-		
VPN connections	User VPN connection	Date/time User ID and name			
	User VPN disconnection	Date/time User ID and name Duration of connection Sizes of sent and received data		0	
	VPN terminal connection	Date/time VPN terminal name and active ID		0	
	VPN terminal disconnection	Date/time VPN terminal name and active ID Duration of connection Sizes of sent and received data			

Procedure

1. Click [View] \rightarrow [Log info]. The [Log Information] window is displayed.

View(V) Show domain(D) Refresh(R) Log info(L)	Log Inform Period	nation 2015/01/09 ■• Category Admin • Ope User All • Search(S) ~ 2015/01/09 ■• Operation All • CSV output(<u>V</u>)
	Time	Operation Ope User Access Point 🔺 User VPN Term

2. Set [Period], [Category], and any other required options.

og Informa	ation									
Period	2015/01/09 ~ 2015/01/09		Admin All	•	Ope User 🛛	All			•	Search(<u>S</u>) CSV output(<u>V</u>)
Time		Operation		Ope User	Access	s Point	🔺 User	VP	N Term	

3. Click [Search]. The search results are displayed. Example: Management logs

og Information						
Period 2015/01/ ~ 2015/01/	cutegory		Ope User A	I	•	Search(<u>S</u>) CSV output(\underline{V})
Time	Operation	Ope User	Access Point	User	VPN Term	
06/01/2015 19:21:04	Regist access point	Hakko Taro/xxxxhakko	Monitouch			
06/01/2015 19:21:04	Regist VPN terminal	Hakko Taro/ xxxx hakko	PlantA		TERM001	
06/01/2015 19:21:04	Regist VPN terminal	Hakko Taro/ xxxx hakko	PlantA		TERM002	
06/01/2015 19:21:04	Regist VPN terminal	Hakko Taro/ xxxx hakko	PlantA		TERM003	
06/01/2015 19:21:04	Regist VPN terminal	Hakko Taro/ xxxx hakko	PlantA		TERM004	
06/01/2015 19:21:04	Regist VPN terminal	Hakko Taro/ xxxx hakko	PlantA		TERM005	
06/01/2015 19:35:16	Delete VPN terminal	Hakko Taro/ xxxx hakko	PlantA		TERM005	
06/01/2015 19:37:56	Regist VPN terminal	Hakko Taro/ xxxx hakko	PlantA		TERM006	
09/01/2015 19:41:47	Regist user	Hakko Taro/ xxxx hakko		Hakko Ichiro/HakkoIchiro		

4. Click [CSV output] to save the search results to a CSV file.

🛃 Lo								
						F	G	
1	Time	Operation	Ope User	Access Point	User	VPN Term		1
	06/01/2015 19:21:04	Regist access point	Hakko Taro/xxxxhakko	Monitouch				Ĩ.
	06/01/2015 19:21:04	Regist VPN terminal	Hakko Taro/xxxxhakko	PlantA		TERM001		
	06/01/2015 19:21:04	Regist VPN terminal	Hakko Taro/xxxxhakko	PlantA		TERM002		
	06/01/2015 19:21:04	Regist VPN terminal	Hakko Taro/xxxxhakko	PlantA		T ERM003		
	06/01/2015 19:21:04	Regist VPN terminal	Hakko Taro/xxxxhakko	PlantA		TERM004		
	06/01/2015 19:21:04	Regist VPN terminal	Hakko Taro/xxxxhakko	PlantA		TERM005		
	06/01/2015 19:35:16	Delete VPN terminal	Hakko Taro/xxxxhakko	PlantA		TERM005		
	06/01/2015 19:37:56	Regist VPN terminal	Hakko Taro/xxxxhakko	PlantA		TERM006		
	09/01/2015 19:41:47	Regist user	Hakko Taro/xxxxhakko		Hakko Ichiro/HakkoIchiro			

1.3.10 Tool

Proxy Settings

Tool(T) Image: Proxy settings(P) Image: Proxy settings(O) Image: Proxy settings(O)		Internet connection proxy settings Direct connection to internet(D) Connect to internet via HTTP proxy server(I) Host name(H) Port number(N) User(U) (Option) Password(P) OK Cancel				
Item		Description				
Direct connection to internet		Connect to the Internet directly without using a proxy server in cases such as wher connecting to a mobile router.				
Connect to internet via HTTP	Host name	Set the IP address of the proxy server.				
proxy server ^{*1}	Port number	Set the port number of the proxy server.				
	User	Set the user ID for logging into the proxy server.				
	Password	Set the password for logging into the proxy server.				

Configure these settings when connecting to the Internet via a proxy server.

*1 For information on proxy server settings, consult your network administrator.

Option Settings

Configure V-Connect operation.

Option settings
Preferences
Close a window when logout(<u>L</u>)
Put in the Task Tray when minimized(\underline{M})
Refresh cycle of VPN terminals status(<u>C</u>) 5 minutes •
OK Cancel

Item	Description		
Close a window when logout	Selected: Close V-Connect after logging out. Unselected: Return to the V-Connect login window after logging out.		
Put in the Task Tray when minimized	Selected: Display a management tool icon in the task tray when the window is minimized. Unselected: Display the management tool on the task bar when the window is minimized.		
Refresh cycle of VPN terminals status	Set the refresh cycle during VPN connection. None (no automatic refresh) ^{*1} /1 minute/5 minutes/10 minutes/30 minutes/60 minutes		

*1 Refresh the status by clicking [View] \rightarrow [Refresh].

1.3.11 Help

About

Help(H) About(A) License Agree	V-Connect V-Connect Version 1.1.0.0 Copyright(C)2014 Hakko Electronics Co., Ltd. All right reserved License Agreement(<u>C</u>) OK
This V-C. Hakko EH Before us If you do your loca With the to these The term updated	ct License Agreement onnect License Agreement ("Agreement") is concluded between you and ectronics Co., Ltd. ("Hakko"). sing this V-Connect("Software"), be sure to read the Agreement carefully. not agree to the terms and conditions of the Agreement, return the Software to I distributor before installing it. commencement of installation of the Software, you are deemed to have accepted terms and conditions of the Agreement. is and conditions of the Agreement shall also apply to all the products (manuals, versions, etc.) related to the Software.
	۲ Close(Q)

Version information of "V-Connect" and the license agreement can be checked.

1.4 V9 Series Unit Settings

1.4.1 IP Address Settings

Set the IP address of the V9 series unit.

Procedure

- 1. Enter Local mode on the V9 series unit.
 - * For details on entering Local mode, refer to the V9 Series Troubleshooting/Maintenance Manual.
 - V9 Standard / V9 Lite
 - Press the [SYSTEM] switch to display the system menu and then press the [Local] switch.
 - V9 Advanced

Press one corner of the screen for at least 2 seconds and release your finger when there is a beep. Then within one second, press a different corner and hold for at least 2 seconds to display the system menu. Press the [Local] switch on the displayed system menu.

System menu ———	D Local		Storage Removal	Storage Viewer	
			<u> </u>	<u> </u>	
		52 60			
		0			
		0			

- 2. Display the [LAN Setting] screen.
- * When using the LAN2CH or wireless LAN type of V9 Advanced / V9 Standard models, LAN2/WLAN settings can also be configured.
- 3. Set the IP address for connecting to the Internet and accept the setting by pressing [Apply].

D	LAN Setting	2015-01-04 22:38:32
RUN	IP Setting Option	
() System	IP Address 10.91.130.235	Set an IP address of the same class as that of
Information	Subnet Mask 255.255.255.0	the router for connecting to the Internet
🥎 Language	Gateway 10.91.130.1	Set the IP address of the router for connecting
Setting	MAC Address 00:50:FF:08:AB:0C	
	Network Table	
LAN Setting	No Host Name IP Address	Sub Net Mask Gate Way Service Po
LAN2 Setting		
<u>ശ്</u> ര)		
WLAN Setting		
ø		
VPN Setting		
		Cancel Apply



When using the LAN2CH or wireless LAN type of V9 Advanced / V9 Standard models, do not set a default gateway for LAN port settings other than the VPN connection port.

1.4.2 Date and Time Settings

Set the date and time on the V9 series unit.

A VPN connection cannot be established without setting the correct date and time.

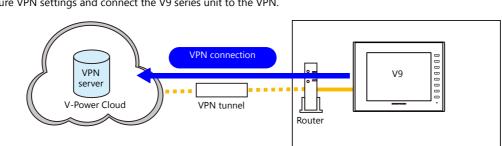
Procedure

- Using the PLC clock Set the date and time of the PLC as the current date and time.
- Using the internal clock of the V9 series unit Configure the date and time settings in Local mode → [Date/Time Setting].

Ø	Date/Time Se	etting						2015-01-	04 22:39:51
VPN Setting				Janu	ary .	2015			
		Sun	Mon	Tue	Wed	Thu	Fri	Sat	
E-Mail Setting		28	29		31	1	2	3	
SRAM Setting		4	5	6	7	8	9	10	
SC Comm.		11	12	13	14	15	16	17	
Setting		18	19	20	21	22	23	24	
System Setting		25	26	27	28	29	30	31	
T Date/Time		1	2	3	4	5	6	7	
Setting Storage Transfer		- Time Se 22:3	39 : 51	tancel	2 :	39		41	

•	Check the screen program to determine whether the PLC clock or internal clock of the V9 series unit is used.				
[System Setting] \rightarrow [Unit Setting] \rightarrow [SRA	$AM/Clock] \rightarrow [Use SRA]$	M Calendar]		
	Unselected: PLC clock Selected: Internal clock of the VS) series unit			
	🕋 🖹 🤚 🚽 🔿 🐟 👄 🔿 🔻 V Se	SRAM/Clock Setting	×		
	File Home Parts Edit	Use SRAM Calendar	Total No. of Words Available [409472 Word]		
	Multi-language Setting Unit Setting Setting Memory	SRAM Mapping	Header Set Word Count Word Count		
	SRAM/Clock(W)	Storage Area for Memo Pad	[0] + 0		
	Backlight(L)	Non-volatile Device (Word) (\$L)			
	System/Mode Switch(S)	Non-volatile Device (Double-word) (\$L	D) (0) + 0 🚔		
	👂 👂 Blink/Flash(F)	Japanese Conversion Function	[0 Word]		
	Overlap(O)	Storage of Alarm Server	[0 Word]		
	Video/RGB	Storage of Logging Server	[0 Word]		
	Sound(W)	Operation log storage point	[0 Word]		
	General Setting(E)	oporation rog storage point	[o mora]		

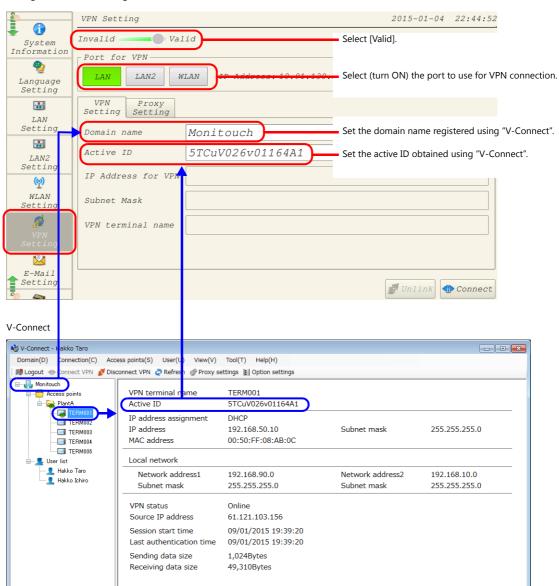
1.4.3 VPN Settings



Configure VPN settings and connect the V9 series unit to the VPN.

Procedure

- 1. Display the [VPN Setting] screen in Local mode.
- 2. Configure the VPN settings.



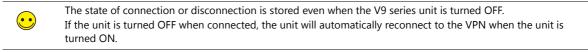
3. When accessing the Internet via a proxy server, configure settings on the [Proxy Setting] tab.

	VPN Setting		2015-01-04	22:46:36
System	Invalid Valid			
Information	Port for VPN			
🥎 Language Setting	LAN LAN2 WLAN IF	P Address: 10.91.130.235		
	VPN Proxy Setting Setting			
LAN Setting	🗙 Use the proxy server			
	Proxy Server IP Address			
LAN2 Setting	Proxy Server Port			
(P)	User Name			
WLAN Setting	Password			
VPN Setting				
E-Mail Setting			🖉 Unlink 📢	Connect
->> 🗛				

4. Press [Connect] to access V-Power Cloud. If a dialog box with "IP Address for VPN" is displayed as shown below, the V9 series unit connected successfully.

	VPN Setting	2015-01-04	22:48:15
System Information	Invalid Valid		
Language Setting	LAN LAN2 WLAN IP Address: 10.91.130.235		
	VPN Proxy Setting Set		
LAN Setting	🧶 VPN Setting 🛛 🗙]
Secting	Domain name IP Address for VPN:192.168.50.10		
LAN2	Active ID		
Setting	OK		
<u>(ဇူ)</u>	IP Address f		
WLAN Setting	Subnet Mask 255.255.0		
ø	VPN terminal name TERM001		
VPN Setting			
E-Mail			
Setting		💕 Unlink 🔌	Connect

5. Press [Unlink] to disconnect from the VPN.



1.4.4 VPN Connection/Disconnection

Connection or disconnection of the V9 series unit to the VPN is performed either from the [VPN Setting] screen in Local mode or from the status bar.

VPN Setting Screen

For information on connecting and disconnecting from the [VPN Setting] screen, refer to 1.4.3VPN Settings.

Status Bar

The VPN connection status can be checked and connecting and disconnecting can be performed using the status bar.

Procedure

- 1. Enter Local mode on the V9 series unit.
- * For details on entering Local mode, refer to the V9 Series Troubleshooting/Maintenance Manual.
 - V9 Standard / V9 Lite Press the [SYSTEM] switch to display the status bar.
 - V9 Advanced

Press one corner of the screen for at least 2 seconds and release your finger when there is a beep. Then within one second, press a different corner and hold for at least 2 seconds to display the status bar at the bottom right of the screen.

0	
	Status bar
	🖈 🚳 💷 🎯 🖬 👪 🗐 🔕

2. Press the VPN icon. A status window is displayed.



3. Press [Connect] and [Unlink] to change the connection state. A mark appears on the VPN icon in the disconnected state.



System Device Memory (\$s)

The VPN connection status can be checked using \$s1675.

- 0: VPN not configured
- 1: Connected to VPN
- -1: Disconnected from VPN

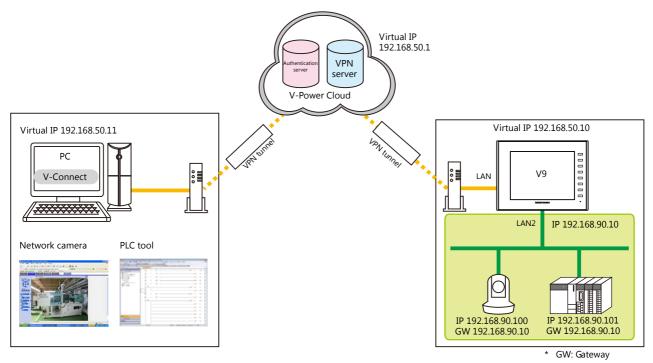
1.5 Routing Function

1.5.1 Overview

V9 series units with multiple LAN ports such as LAN2CH and 3CH types can have multiple IP addresses.

This means that even if one port is exclusively used for VPN connection, the other ports can be used to connect to PLCs or network cameras to form a local network.

Also, because the V9 series unit features a built-in routing function, devices on the local network can also be accessed over a VPN connection.



Remote operations available when using the routing function

- Screen program transfer
- Remote monitoring and operations of network cameras
- Remote monitoring and operations of PLCs

1.5.2 Notes on Connections

V9 Series Unit Settings

IP address settings/default gateways

- Always use a different network group for each IP address of [LAN Setting], [LAN2 Setting], and [WLAN Setting]. If set in the same network group, the system will not operate correctly.
- Only set a default gateway for the port used for VPN connection. Leave the gateways of the local network unconfigured (blank).

			LAN Setting (VPN Connection)	LAN2 Setting	WLAN Setting
Correct	\rightarrow	IP Address	10.90.100.5	192.168.1.50	192.168.10.200
		Default Gateway	10.90.100.1	Not set (blank)	Not set (blank)
Incorrect	\rightarrow	IP Address	192.168.1.100	192.168.1.50	192.168.10.200
		Default Gateway	192.168.1.1	Not set (blank)	192.168.10.1

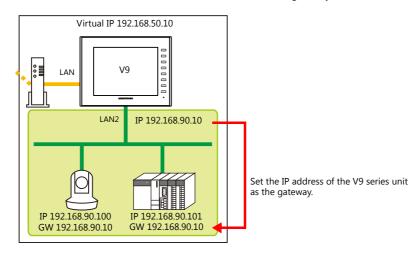
 The IP addresses of [LAN Setting] and [LAN2 Setting] belong to the same network group (192.168.1.x).

The gateway of [WLAN Setting] is set.

Setting example

PLC and Network Camera Settings

• Set the local network IP address of the V9 series unit as the gateway of PLCs and network cameras.



V-Connect Settings

• When V-Connect is connected to the VPN, the routing setting information of V-Connect does not update to the latest state immediately after changing VPN terminal settings E

褖 V-Connect - Hakko Taro							- • •
Domain(D) Connection(C) Ac	cess points(S) User(U) View	(V) Tool(T) Help(H)				
🗄 🏙 Logout 🚸 Connect VPN 🛯 💋 Dis	sconnect VPN 🧔 Refresh 🖉 Pro:	xy settings 📳 Option s	ettings				
Monitouch	Access point name IP address Subnet mask DHCP Start Address DHCP assignment ip ac Routing reconfigur	19 25 19 Idress number 10	antA 2.168.50 5.255.25 2.168.50 0	5.0			
Hakko Taro	VPN Terminal name	Active ID	Туре	IP address	SubnetMask	LocalNetwork1	SubnetMask1
	TERM001	5TCuV026v01164A	1 DHCP			192.168.90.0	255.255.255.0
	TERM002	5TCuV026v01564A	1 DHCP				
	TERM003	5TCuV026v0c274A	L DHCP				
	TERM004	5TCuV02Jv0c874A1	DHCP				
	TERM006	5TCKV02p4f1159A1	DHCP				
	č [III				,

1.6 Errors

V9 Series Unit Errors

• Errors related to V9 series unit settings

Error No.	Error Message	Cause
1	Cannot set the IP address assigned for VPN.	There is a mistake on the [VPN Setting] screen. →Revise the VPN settings. Cannot connect to the Internet. →Check the router settings, gateway, and cables and connections
2	Connection is not established with the port to be used for VPN.	The port used for VPN connection is not connected. \rightarrow Check the cables and connections.
3	Error detected in VPN settings. *1	The port used for VPN connection is not selected. →Check the LAN/LAN2/WLAN settings. [Domain name]/[Active ID] are not set on the [VPN Setting] screen. →Set [Domain name]/[Active ID]. There is no gateway setting. →Check the gateway.
4	There is no gateway setting.	Check the gateway.

*1 Displayed when the VPN settings icon on the status bar is selected.

52 60 0	
	Error detected in VPN settings. Error message IP Address for VPN: : VPN terminal name : Opencet Image: Connect
	Status bar

• Errors received from the authentication server during VPN connection Reconfigure settings according to the details of the message.

V-Connect Errors

There are errors that occur due to V-Connect settings and errors received from the authentication server during VPN connection.

Reconfigure settings according to the details of the message.

Hakko Electronics Co., Ltd. www.monitouch.com

Sales 890-1, Kamikashiwano-machi, Hakusan-shi, Ishikawa, 924-0035 Japan TEL +81-76-274-2144 FAX +81-76-274-5136