

From
Human Machine Interface
to
Web Machine Interface

- Innovation of HMI -

July, 2016

Hakko Electronics Co., Ltd.

Ver. 2.0

Web Machine Interface

offers **two** services to **all V9 series** below:

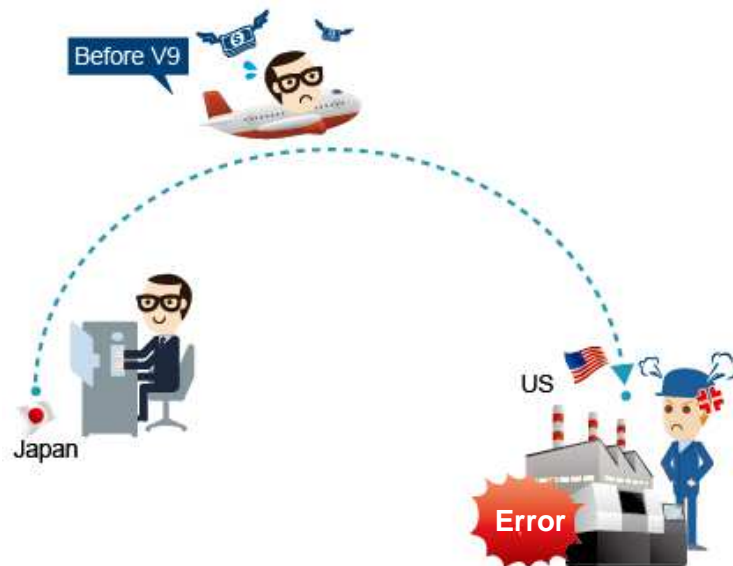
- **VPN remote access service**
- **VPN cloud data service**

VPN remote access service

Why don't you start the remote access by VPN?

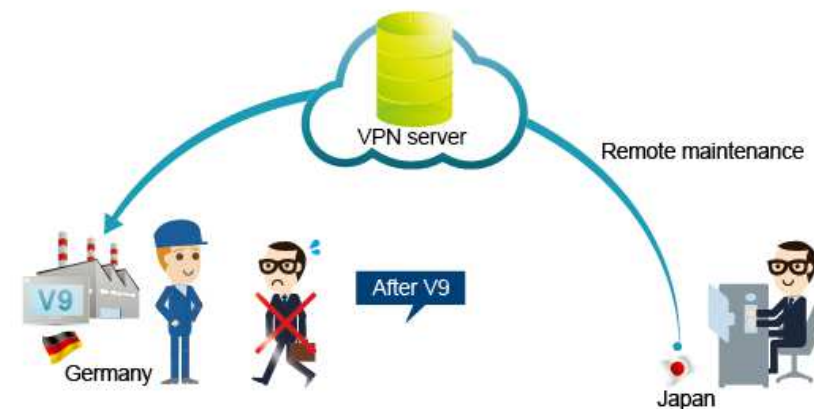
Implementing the remote access on your system can be the strong tool to differentiate competitor with the internet solution.

Before



* When trouble was occurred on site, it was required to visit there by spending your time and money for the trouble shooting.

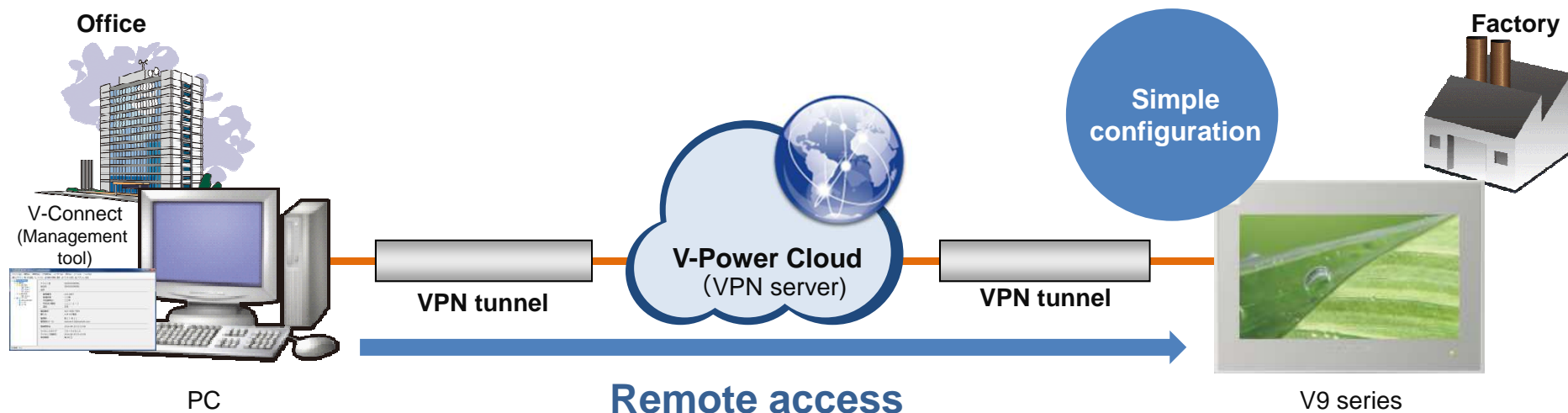
After



* When trouble was occurred on site, it is possible to understand the situation of the site without visiting there.

Realize the implementation of VPN solution with lower cost!!

Please experience the VPN solution with **FREE** license (30 days)!!



<Requirement tools and cost>

<Initial cost>

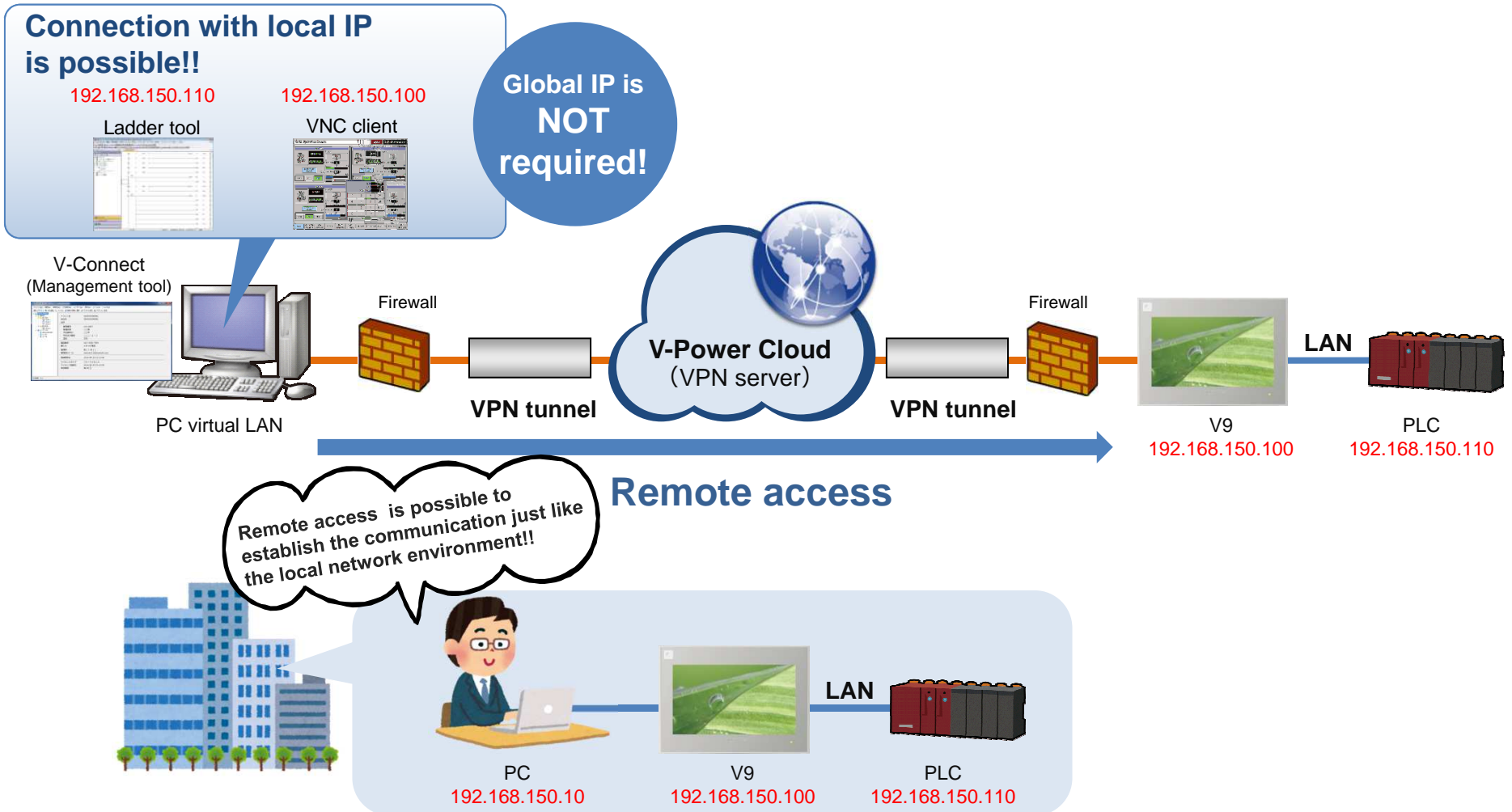
- (1) Management tool "V-Connect": **FREE**
- (2) License fee for VPN remote access service for the first year... Depending on the price plan
- (3) V9 series

<Running cost>

- (1) The cost for internet connection in the office... If there is LAN connection in the office: **FREE**
- (2) The cost for internet connection in the factory... If there is LAN connection in the factory: **FREE**
- (3) The cost for remote access license... There are several plans depending on the needs. (Annual renewal fee is required.)

Local IP connection

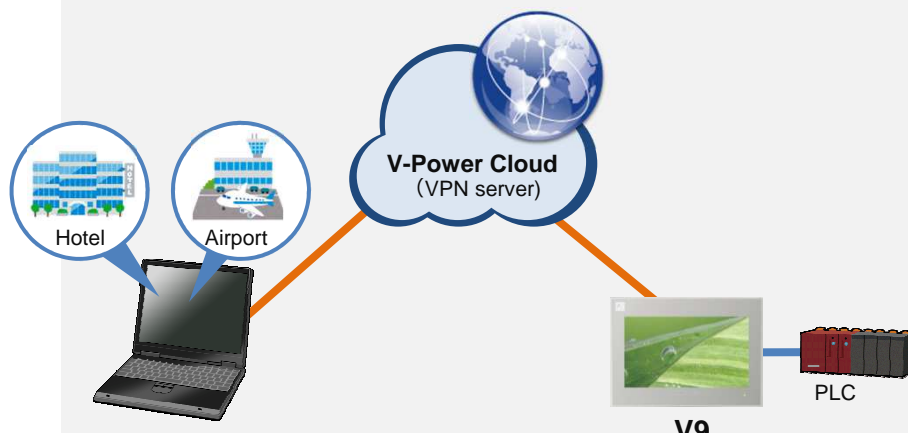
All the devices are possible to be accessed by the local IP from a remote location.



Connection is anytime and anywhere!!

- Due to TLS-VPN, it is possible to connect V9 from anywhere if there is the internet connection.
- No issue for firewall with HTTPS protocol by using port 443.

Remote access by V9 (TLS-VPN)



Special device is not needed! (VPN router)

It is possible to remote access from your house or even when you are on business trip!!

- * It is possible to access whenever you have the internet connection.
- * Advanced skill is not required.

V9 (OPEN-VPN)

Normally TCP port No.443 is opened on firewall to connect to the internet from the office. It is not necessary to change the setting because V9 uses VPN. *1

HTTPS is used when the security service is required on the website.



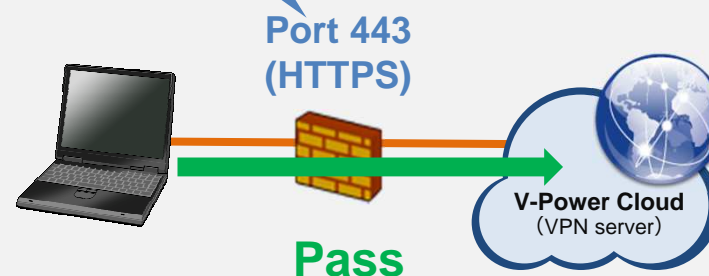
Internet banking



Searching



Reservation

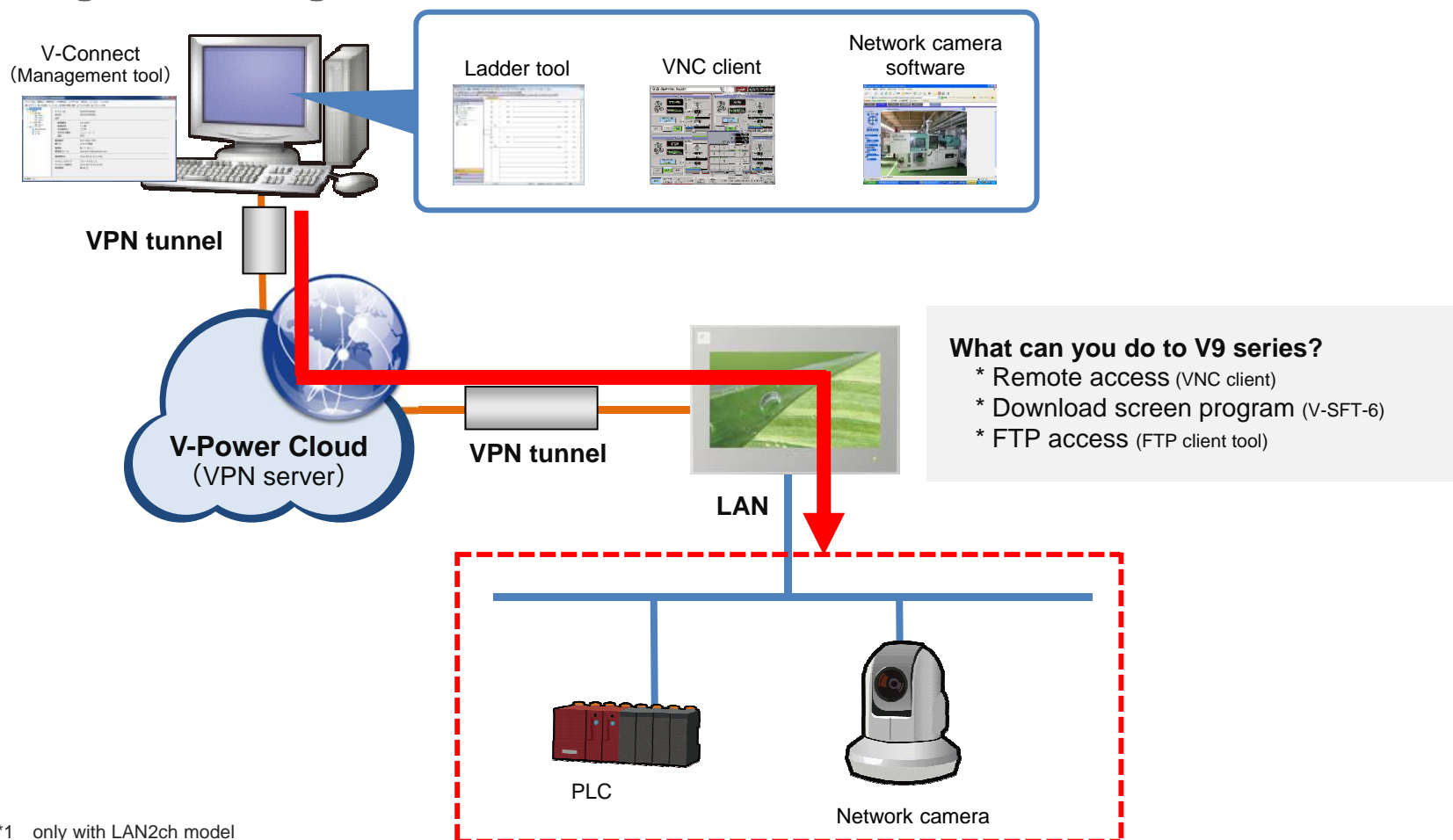


- * It is possible to pass through the firewall whenever there is the internet connection.

*1: There may be set to shut the session with the specific time depending on the customer. In this case, please open this port always.

Remote access to various devices

It is possible to access to the devices which are connected to V9 remotely by using the routing function*1.



*1 only with LAN2ch model

VPN remote access service

License types

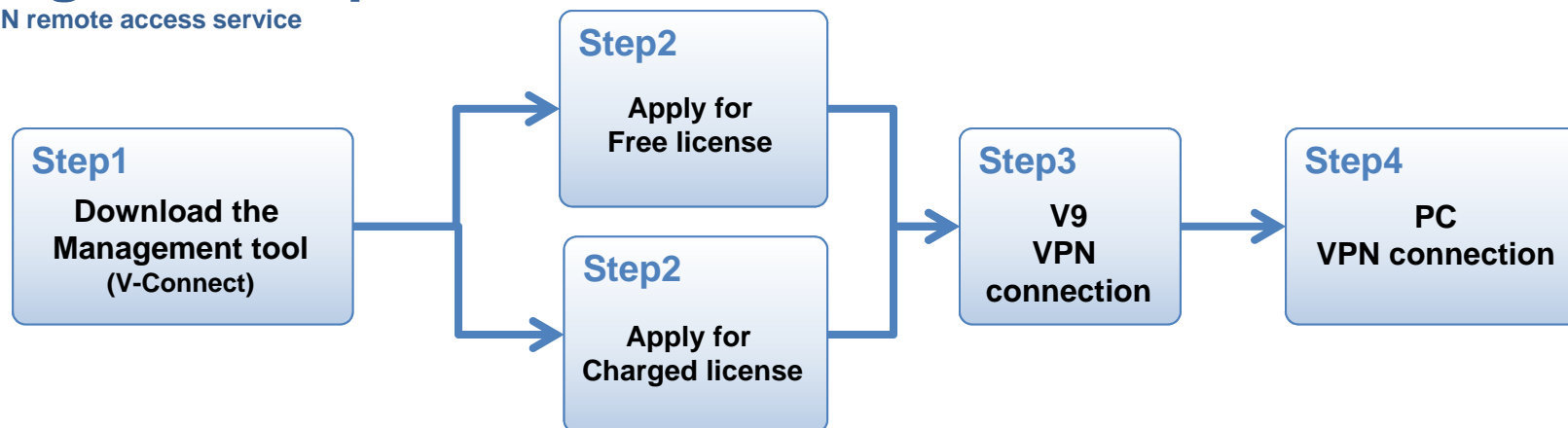
We provide you various kinds of license depending on your needs.

Type		Free	Value	Simple	Wide	Extra
System Configuration	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 *	-			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 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.

Registration process for Customer

VPN remote access service



STEP1	Download the management tool (V-Connect) - Users download the VPN management tool from our website for free.
STEP2	Apply for Free license Download the application form from our website. Fill out all the information on the sheet and contact with the sales office.
	Apply for Charged license Download the application form from our website when you apply for free license or switch it to the charged license. Fill out all the information on the sheet and contact with the sales office.
STEP3	V9 VPN connection (1) Set up the LAN (IP) setting (Internet connection setting) on V9 local screen. (2) Set Connection ID/Node ID/Password and connect to VPN server. (Set up the proxy setting when it is required.)
STEP4	PC VPN connection Select the MONITOUCH which you wish to connect from the management tool (V-Connect) then establish the VPN connection.

***Download V-Connect and application form from:**

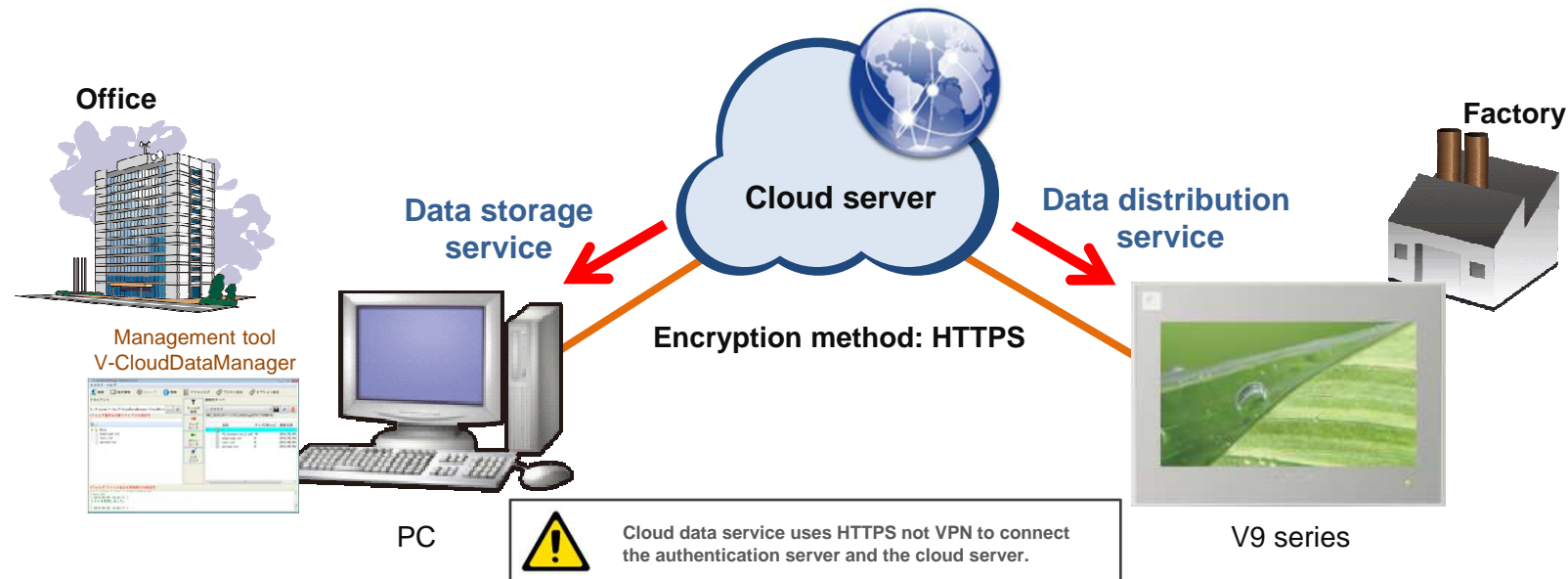
URL : <http://monitouch.fujielectric.com/site/support-e/download-index-01.html>

Cloud data service Ver. 1.0



Cloud data service is premised on the charged license agreement of VPN remote access service.
Thus, charged license agreement of VPN remote access service is necessary to use cloud data service.

It is possible to manage data easily by using cloud server!!



<Requirement tools and cost>

<Initial cost>

- (1) Management tool "V-CloudDataManager": **FREE**
- (2) License fee for cloud data service for the first year... Depending on the price plan
- (3) V9 series

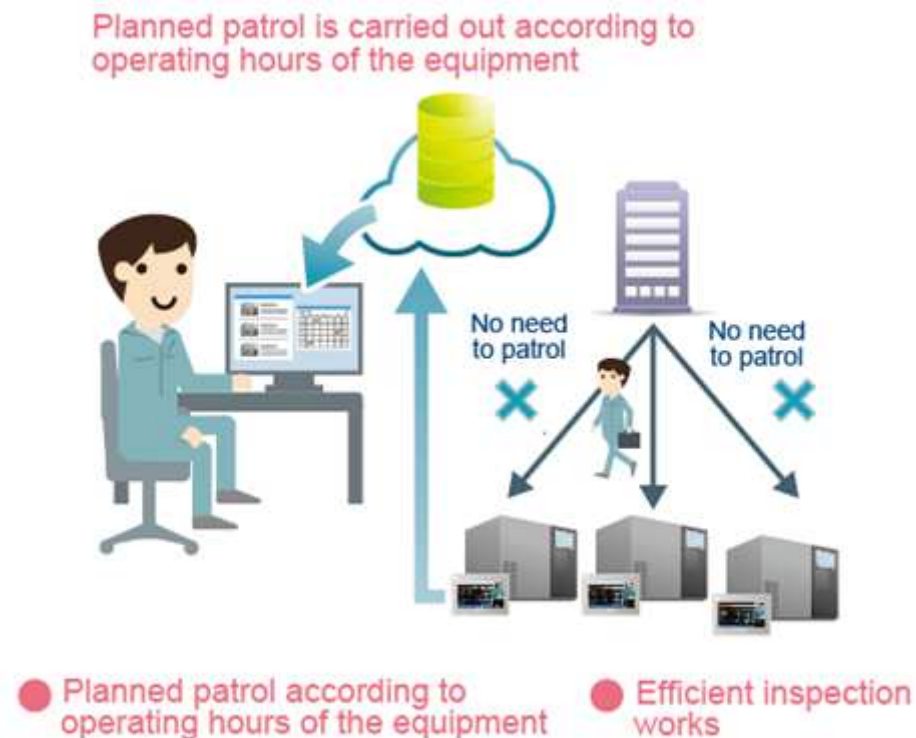
<Running cost>

- (1) The cost for internet connection in the office... If there is LAN connection in the office: **FREE**
- (2) The cost for internet connection in the factory... If there is LAN connection in the factory: **FREE**
- (3) The cost for cloud data service license... Annual renewal fee is required.

Realize condition-based maintenance by using cloud server!!

Improving after-sales service and work efficiency

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



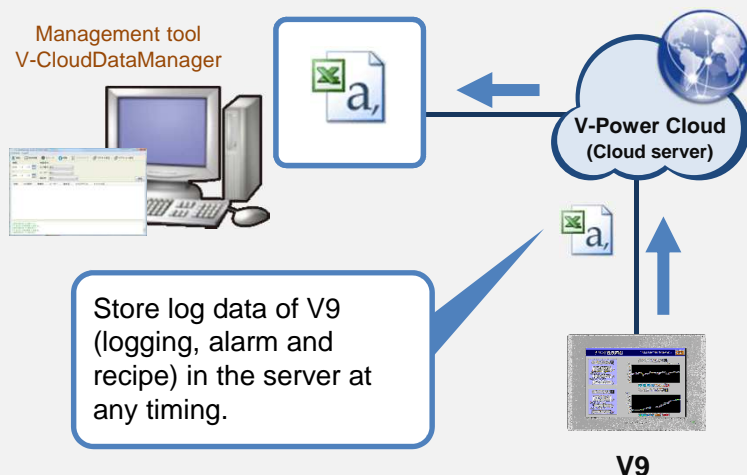
Functions

Cloud data service Ver. 1.0 provides you with the following functions (service)

- Data storage service
- Data distribution service

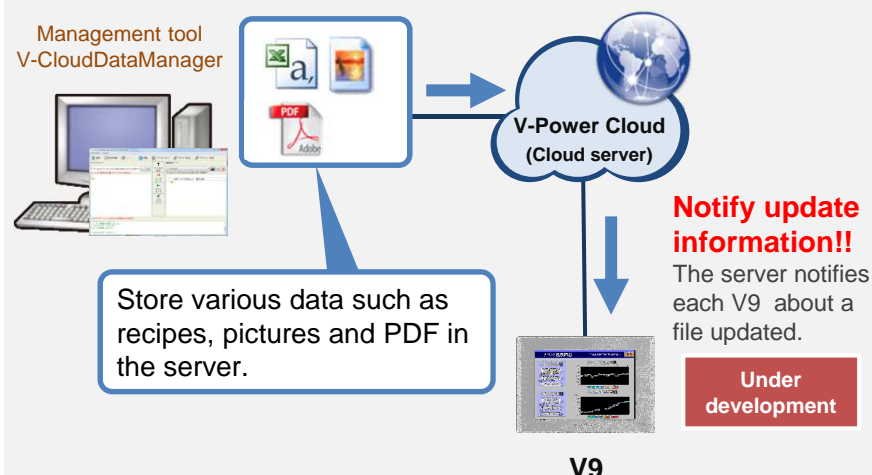
Data storage service

Log data of V9 are stored in the cloud server.
It is possible to acquire data from each production site easily by accessing the cloud server.



Data distribution service

Recipe data, PDF files and so on in each V9 are updated via the cloud server.

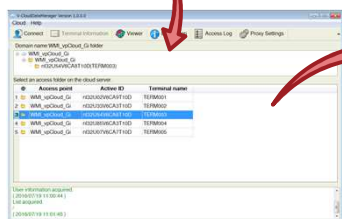


User-friendly tool: V-CloudDataManager

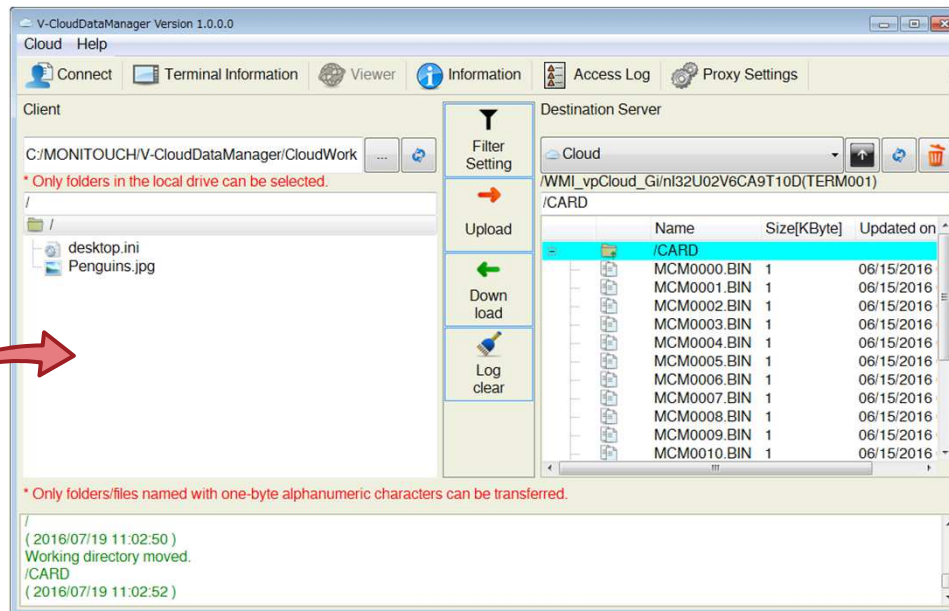
A dedicated tool is provided for smooth data utilization.



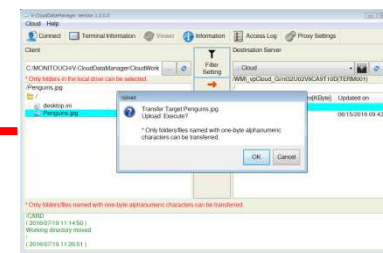
[Login (connect) screen]



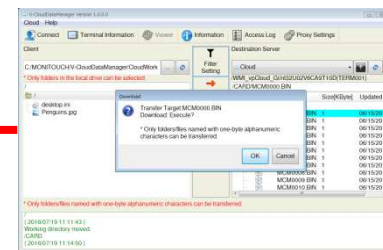
[Device information]



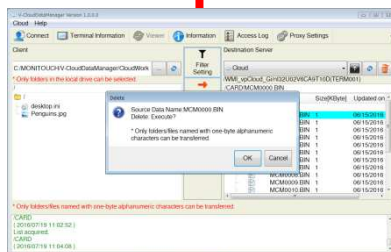
[Viewer (menu)]



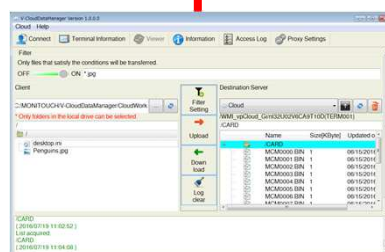
[Upload]



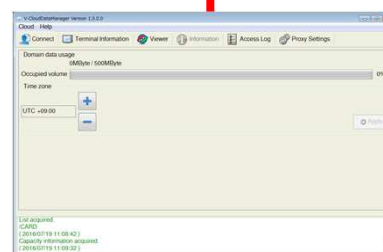
[Download]



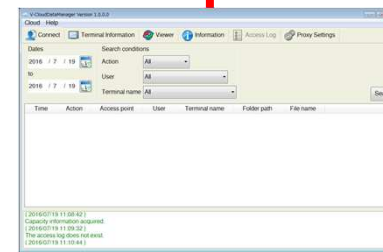
[Delete]



[Filter setting]



[Information]



[Access log]

Cloud data service

License types

We provide license plans according to the disk capacity of the cloud server.
It is possible to select the plan depending on your needs.

<First year>

Type	Disk capacity
CDM-5	500MB
CDM-10	1GB

<Renewal>

Type	Disk capacity
CDM-5R	500MB
CDM-10R	1GB

Cloud data service

Application example 1

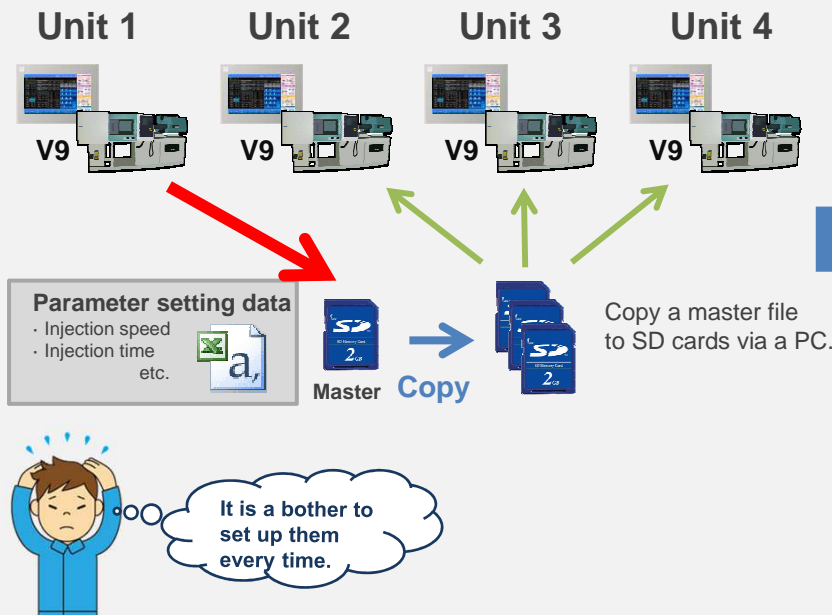
Sharing parameter settings

Function: Data storage, data distribution

It is possible to share setting data among units by storing various parameters in “V-Power Cloud”. You can reduce man-hours for setup of equipment or adding a new production item, and so on.

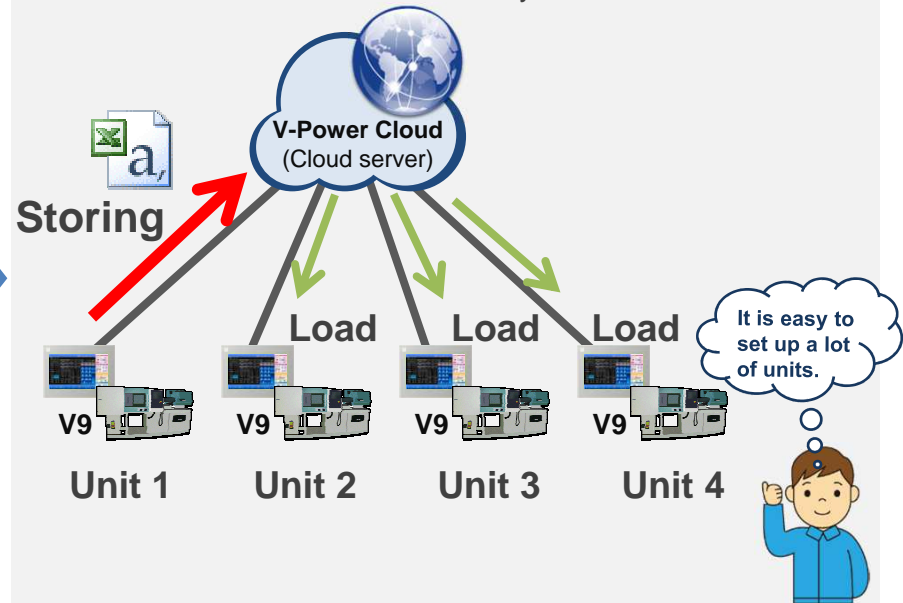
Before

Copy a master file to SD cards and transfer the data to each unit.



After

Store a master file in the cloud server. Setting data loaded from the cloud server when necessary.



- One-stop data management
- Reduction of man-hours

Cloud data service

Application example 2

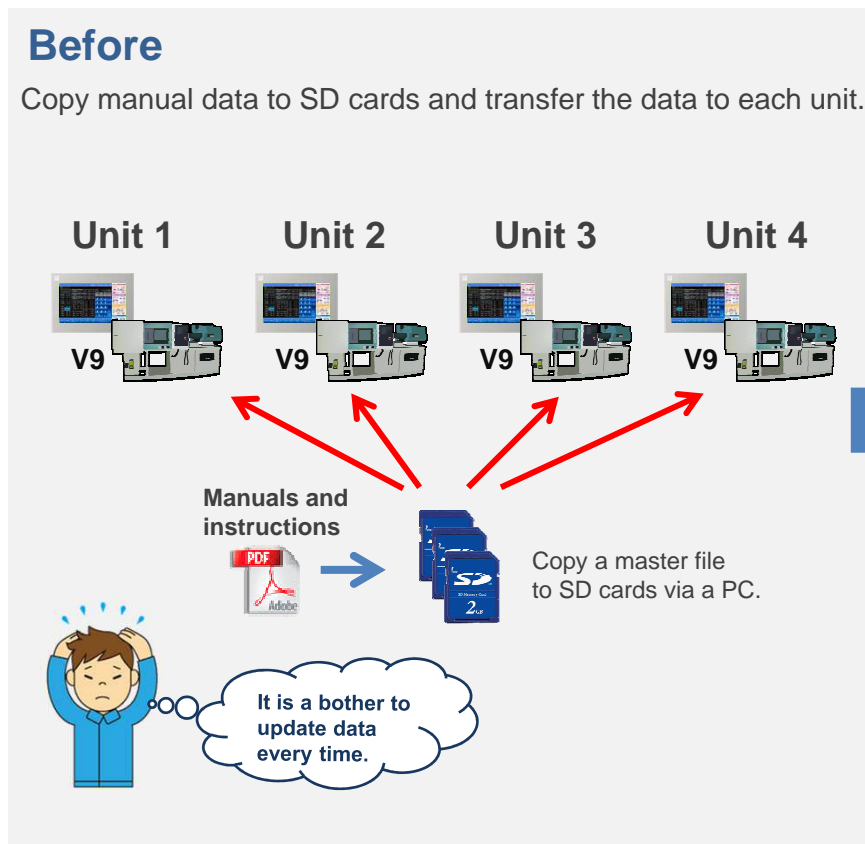
Manual data update

Function: Data distribution

It is possible to update manual data (PDF) for machines easily by storing it in “V-Power Cloud”. You can save time to update manuals when machine’s specification is changed.

Before

Copy manual data to SD cards and transfer the data to each unit.



After

Store a master file in the cloud server. Updated manual data loaded from the cloud server.

