



# Secure access to any remote system

Simplify your MACH-System's Internet configuration while improving your cybersecurity with this IT-friendly, BACnet Virtual Private Network software from Reliable Controls.



Better by design

[www.reliablecontrols.com/RCRA](http://www.reliablecontrols.com/RCRA)

## Tech Specs

### Recommended Server Requirements

- Intel Core i5, 3GHz PC
- 128 MB hard disk space free, or higher
- Internet connection
- Network Interface Card (NIC) for Ethernet communications
- Microsoft Windows 2012 Server R2 Standard Edition, or newer
- Microsoft Azure hosted Virtual Machine

## Features

### Network Access

- Connects multiple remote systems into a single BACnet internetwork across the Internet
- Eliminates the need for BACnet Broadcast Management Devices (BBMDs), Broadcast Distribution Tables (BDTs), foreign device registrations, static public IP addresses, and forwarding of unencrypted BACnet communications through firewalls

### Simplification

- Supports Domain Name Server (DNS) or static IP for server ID
- Supports Dynamic Host Control Protocol (DHCP) clients
- Hosts multiple B/VPNs by name, not port number
- A single inbound port services multiple B/VPNs and minimizes port forwarding rules, while improving security

### BACnet Support

- Use standard BACnet routing rules between connected clients

### Security

- Secures all communications with 256-bit encryption, which requires authentication and system identifier credentials
- Uses TLS protocol (version TLS1.2 or greater)
- Supports up to 2,048-bit server certificates to secure connections

### Stability

- Uses TCP for superior data integrity and persistent communications

### License and Updates Subscription

- Licensing is limited by the number of B/VPN clients
- Up to a maximum of 5000 B/VPN clients per server
- 12 month updates subscription included with initial license purchase
- No penalty to renew expired subscriptions

## Ordering

### RC-RA3

- Base software license with no connections, expandable to a maximum of 5000 B/VPN clients

### RC-RA3-1A

- Adds 1 unique B/VPN client to existing license (must have previously purchased RC-RA3)

### RC-RA3-10A

- Adds 10 unique B/VPN clients to existing license (must have previously purchased RC-RA3)

### RC-RA3-100A

- Adds 100 unique B/VPN clients to existing license (must have previously purchased RC-RA3)

### RC-RA3-1000A

- Adds 1000 unique B/VPN clients to existing license (must have previously purchased RC-RA3)

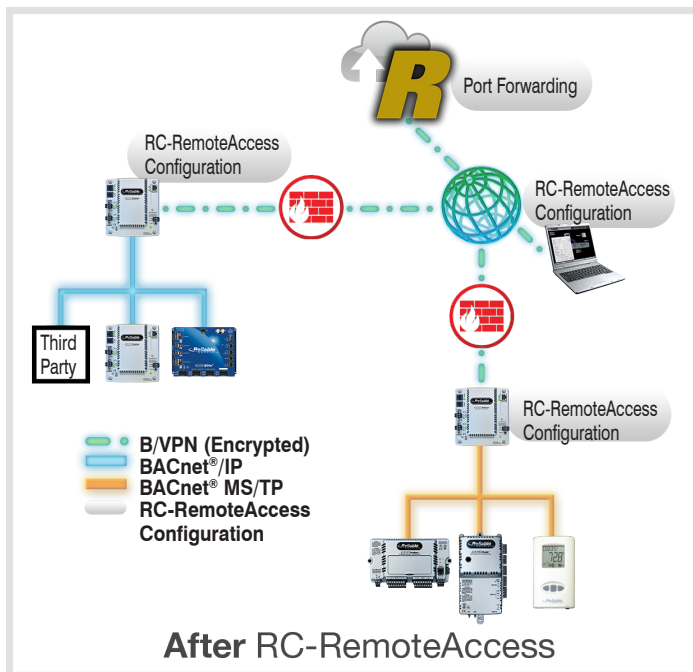
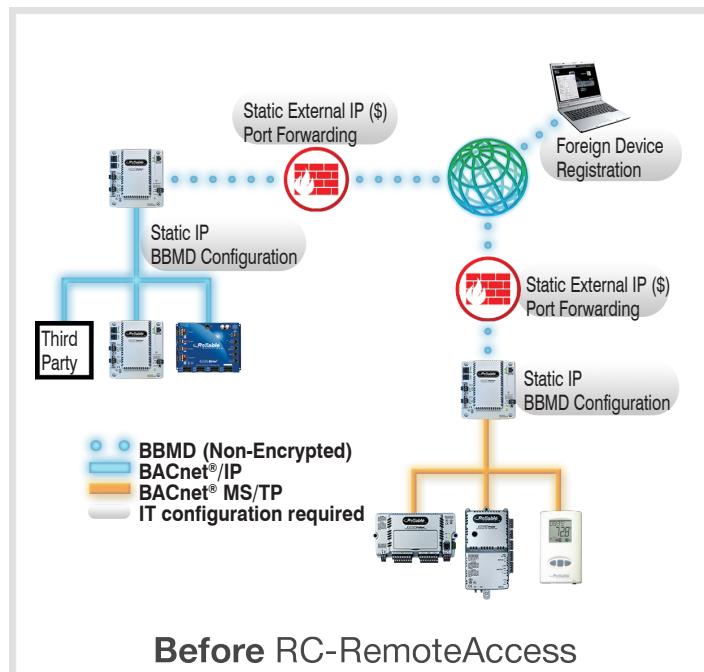
### RC-RA3-S

- Subscription for 12 months of online software updates

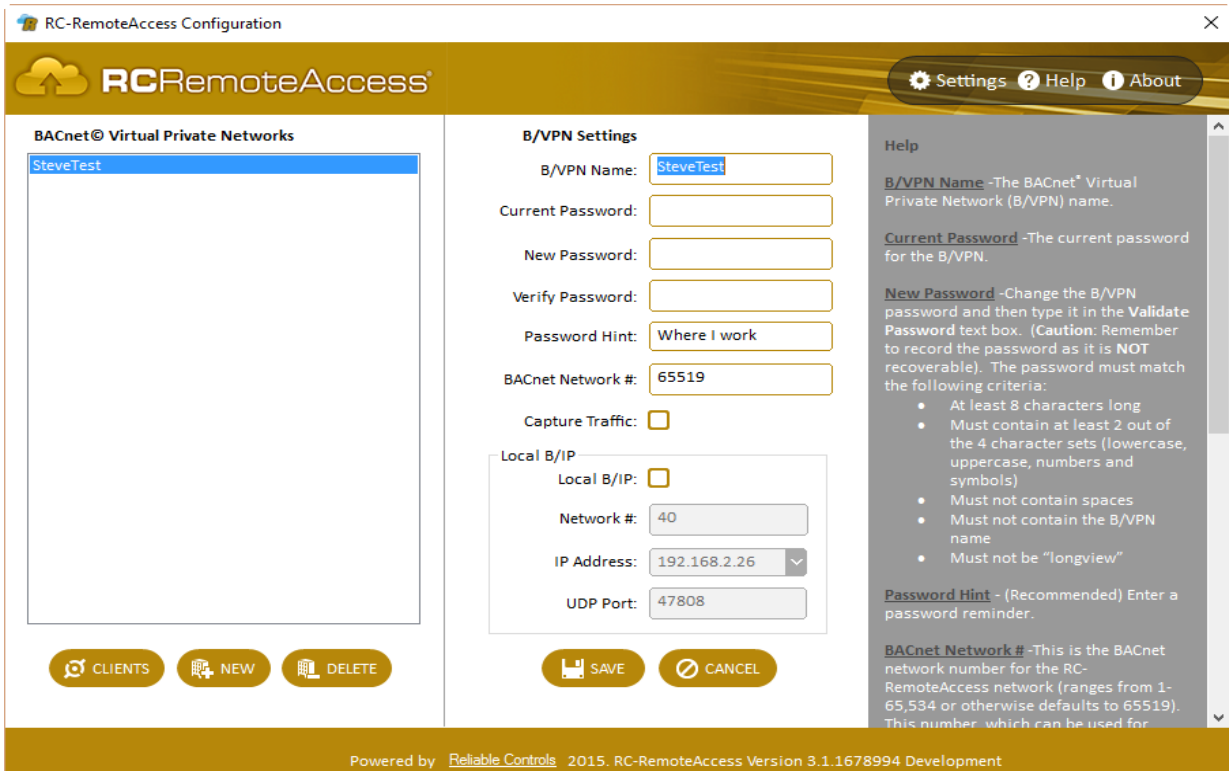
### RC-RA3-M

- Hard copy of RC-RemoteAccess software manual

## APPLICATION DIAGRAM



## SCREEN CAPTURES



**RC-RemoteAccess Configuration**

**BACnet® Virtual Private Networks**

SteveTest

**B/VPN Settings**

B/VPN Name:

Current Password:

New Password:

Verify Password:

Password Hint:

BACnet Network #:

Capture Traffic: ☐

**Local B/IP**

Local B/IP: ☐

Network #:

IP Address:

UDP Port:

**Buttons:** CLIENTS, NEW, DELETE, SAVE, CANCEL

**Help**

**B/VPN Name** -The BACnet® Virtual Private Network (B/VPN) name.

**Current Password** -The current password for the B/VPN.

**New Password** -Change the B/VPN password and then type it in the Validate Password text box. (Caution: Remember to record the password as it is NOT recoverable). The password must match the following criteria:

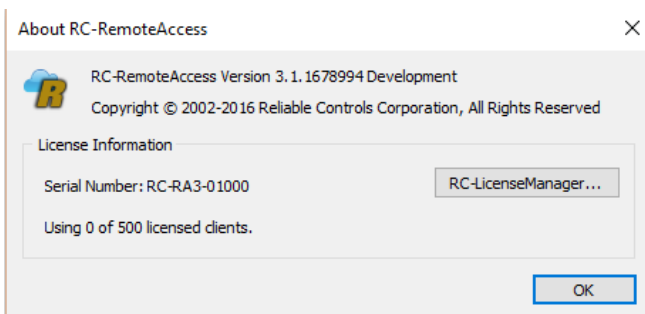
- At least 8 characters long
- Must contain at least 2 out of the 4 character sets (lowercase, uppercase, numbers and symbols)
- Must not contain spaces
- Must not contain the B/VPN name
- Must not be "longview"

**Password Hint** - (Recommended) Enter a password reminder.

**BACnet Network #** -This is the BACnet network number for the RC-RemoteAccess network (ranges from 1-65,534 or otherwise defaults to 65519). This number, which can be used for

Powered by [Reliable Controls](#) 2015. RC-RemoteAccess Version 3.1.1678994 Development

Configuration Utility



**About RC-RemoteAccess**

RC-RemoteAccess Version 3.1.1678994 Development

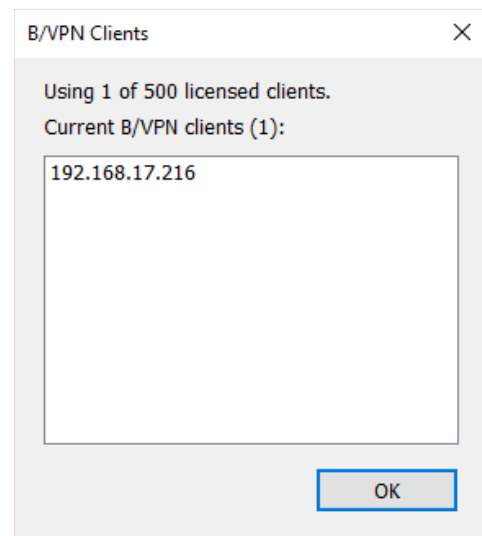
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**License Information**

Serial Number: RC-RA3-01000

Using 0 of 500 licensed clients.

About Screen

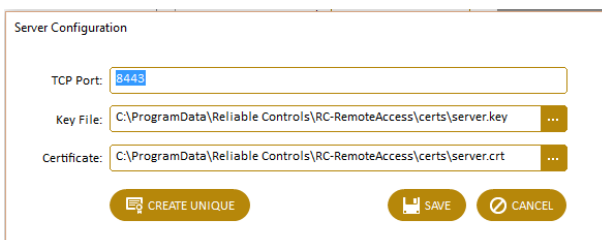


**B/VPN Clients**

Using 1 of 500 licensed clients.

Current B/VPN clients (1):

B/VPN Clients Information



**Server Configuration**

TCP Port:

Key File:

Certificate:

Server Configuration

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Dealer Information: