



## Simplified data security

Simplify your IT management and improve your data communications security with RC-RemoteAccess®, a flexible BACnet Secure Network (B/SN) solution that is scalable and affordable. This easy-to-use software does not require additional routers or controllers to deploy and permits multiple separate VLAN configurations. Save time and money by deploying and managing your own B/SN.



Better by design



[RELIABLECONTROLS.COM/RCRA](http://RELIABLECONTROLS.COM/RCRA)

## PRODUCT FEATURES

### Simplification

- Supports Domain Name System or static IP for server ID.
- Supports Dynamic Host Control Protocol clients.
- Hosts multiple B/SNs by name, not port number.
- A single inbound port services multiple connections, minimizes port forwarding rules, and improves security.

### BACnet Support

- Uses standard BACnet routing rules between connected clients.

### Stability

- Uses TCP for superior data integrity and persistent communications.

### BACnet Secure Network Configuration

- A wizard guides the client configuration process.

### Network Access

- Connects multiple remote systems in a single BACnet internetwork across the internet.
- Eliminates the need for BBMDs, Broadcast Distribution Tables, foreign device registrations, static public IP addresses, and forwarding of unencrypted BACnet communications through firewalls.
- Supports a Failover server for added network reliability.

### Security

- Secures all communications with 256-bit encryption, which requires authentication and system identifier credentials.
- Uses TLS 1.2 or later protocol.
- Supports server certificates of up to 2,048 bits to secure connections.

### License and Updates Subscription

- Licensing is limited by the number of connections per server.
- Supports up to 5,000 connections per server.\*  
\* Maximum deployment is dependent on server hardware and the internet service provider.
- Supports up to 500 BACnet Secure Networks (B/SNs) per server.
- Failover server requires a base software license.
- Subscription for 12 months of online software updates included with initial license purchase.
- No penalty to renew expired subscriptions.

## TECHNICAL SPECIFICATIONS

### Recommended Minimum Server Requirements

- Intel Core i5, 3 Ghz PC. Minimum dual core.
- 1 GB or higher free hard disk space. 4 GB or higher of RAM.
- Internet connection required.
- Network interface card for Ethernet communications.
- Microsoft Windows 2012 Server R2 Standard Edition or later.
- Microsoft Azure-hosted virtual machine.

### Browser Support

- Chrome.
- Edge.

### Controllers with Support for B/SN

- MACH-ProCom™.
- MACH-ProSys™.
- MACH-ProWebCom™.
- MACH-ProWebSys™.
- MACH-ProView™—all models except -M models.

## ORDERING

### RC-RA3

- Base software license with no connections, expandable to 5,000 clients.

### RC-RA3-1A

- Adds one unique client to existing license. Must have previously purchased RC-RA3.

### RC-RA3-10A

- Adds 10 unique clients to existing license. Must have previously purchased RC-RA3.

### RC-RA3-100A

- Adds 100 unique clients to existing license. Must have previously purchased RC-RA3.

### RC-RA3-1000A

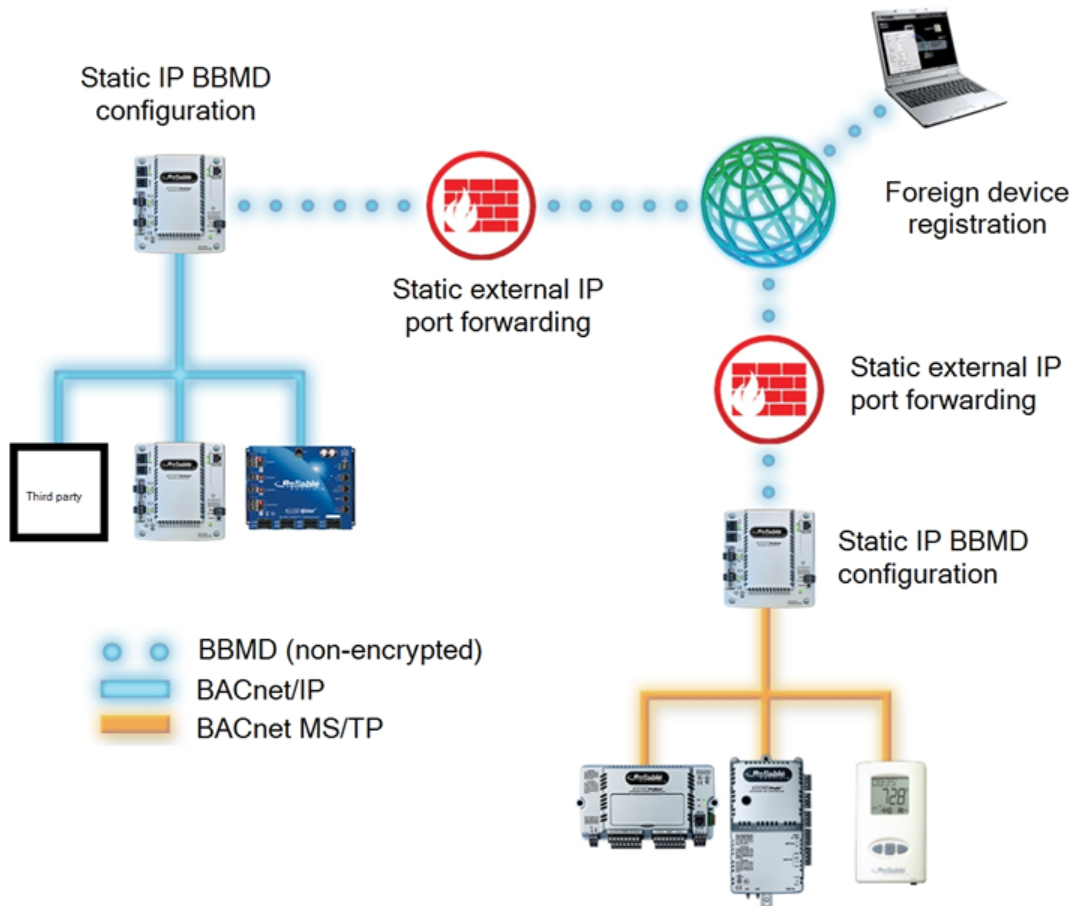
- Adds 1,000 unique clients to existing license. Must have previously purchased RC-RA3.

### RC-RA3-S

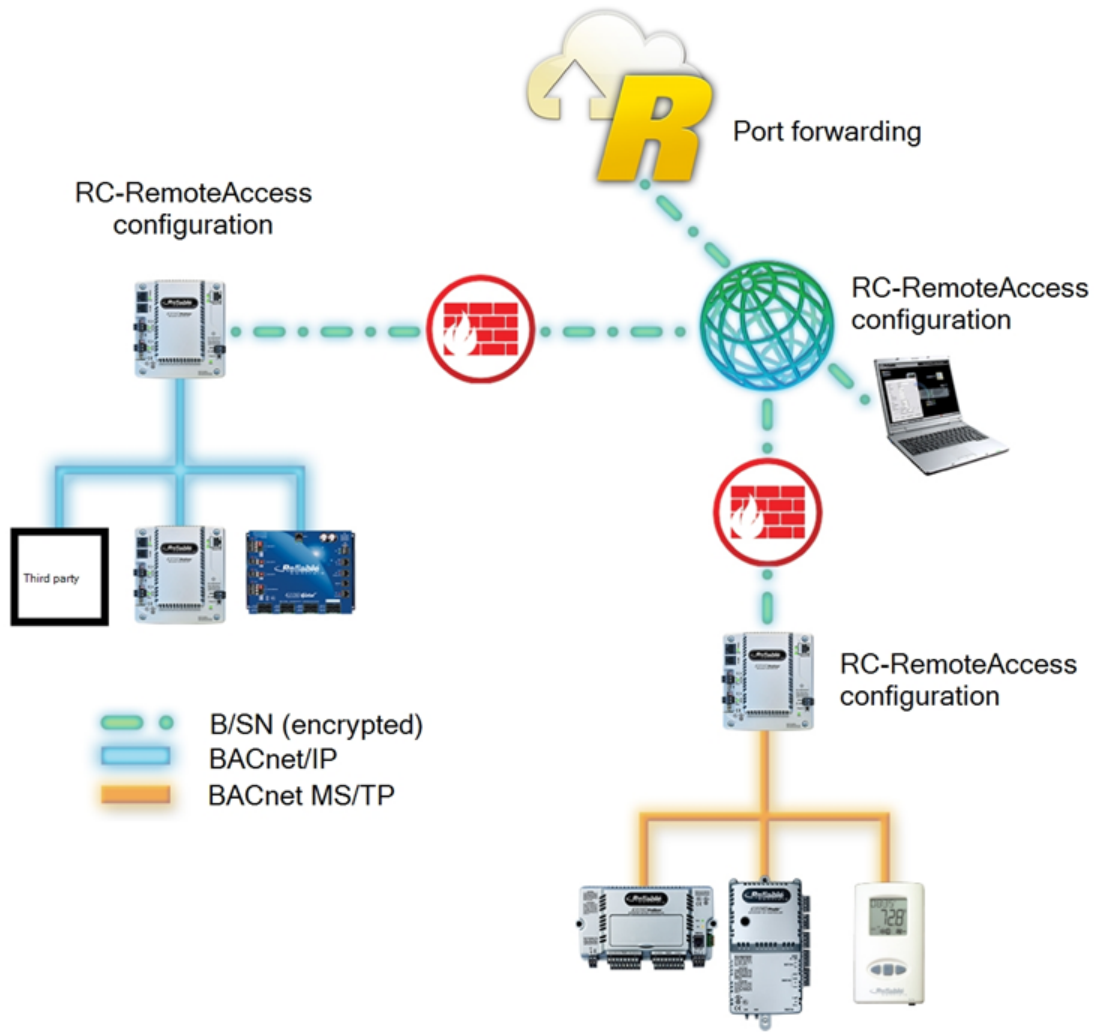
- Subscription for 12 months of online software updates.

## DIAGRAMS


### Before RC-RemoteAccess



After RC-RemoteAccess




## SCREEN CAPTURES


**RCRemoteAccess®**
Help

Server Configuration

RDSW-77



ACTIVE SINCE: 7/14/2020

CONFIGURE

B/SNs
Connections

CharlieBVPN2 Settings

B/VPN Name:
CharlBVPN2

Password:
.....

☒ Capture Traffic

☒ Local B/IP

IP Address:
192.168.128.172


Network #:
40

UDP Port:
46337

ADVANCED BACNET


### Configuration

## SCREEN CAPTURES


**RCRemoteAccess®**
Help

Server Configuration

RCRA-TW-1



ACTIVE SINCE: 9/11/2020

CONFIGURE



B/SNs
Connections

9 of 11 licensed connections

BACnet Device ID	Device Name	Model Name	IP Address	Location	B/SN Name
33000	MACH-Pro	MACH-ProCom	192.168.67.6		RCRA_Clients
12000	MACH-ProView LCD MPV-L-ER-H-OC	MACH-ProView LCD MPV-L-ER-H-OC	192.168.64.23	MarkBench1	RCRA_Small
1033990	RCAR-Win2016-1	RC-Archive	192.168.65.49	RCAR-Win2016-1	TwRemoteAccess
2791728	RCAR-Win2016-1	RC-WebView	192.168.65.49	RCAR-Win2016-1	TwRemoteAccess
94000	MPWC-4	MACH-ProWebCom	192.168.64.6	Floor4	TwRemoteAccess
95000	MPWC-5	MACH-ProWebCom	192.168.64.6	Floor5	TwRemoteAccess
91000	MPWC-Main	MACH-ProWebCom	192.168.64.6	Floor_1	TwRemoteAccess
92000	MPWC-3	MACH-ProWebCom	192.168.64.6	Floor3	TwRemoteAccess

## Connections

Certificates

Primary Server Certificate

Key File:
C:\ProgramData\Reliable Controls\RC-RemoteAccess\certs\server2023.key

Server Certificate:
C:\ProgramData\Reliable Controls\RC-RemoteAccess\certs\server2023.crt

Root Certificate:

Certificate Details:
Common Name: remoteaccess.reliablecontrols.com
Organization: Reliable Controls Corporation
Expiration: 9/19/2023

CREATE UNIQUE

DEFAULT

## Certificates

## SCREEN CAPTURES

The screenshot shows the RCRemoteAccess Configuration window. The window has a title bar with the RCRemoteAccess logo and a Help button. The main content area is divided into two sections: Primary Server Configuration and Failover Server Configuration. The Primary Server Configuration section has two input fields: Service TCP Port (8443) and External Service TCP Port (optional). The Failover Server Configuration section has three input fields: Server Address (192.168.65.48), Service TCP Port (8443), and External Service TCP Port (optional). At the bottom of the configuration area are two buttons: CERTIFICATES and DISCONNECT.

Configuration

Primary Server Configuration

Service TCP Port: 8443

External Service TCP Port: (optional)

Failover Server Configuration

Server Address: 192.168.65.48

Service TCP Port: 8443

External Service TCP Port: (optional)

CERTIFICATES DISCONNECT

Failover server

Dealer Information: