

## Configuring and Using the VPN Functionality


By default, the B3075 will only forward BACnet/IP messages. However, there are situations in which it is desirable to permit client devices connected to the Customer network to communicate with devices connected to the Private network using a different network protocol, such as HTTPS. When this is functionality is needed, the B3075 may be configured to allow the use of [OpenVPN community edition client software](#) on a PC that is connected to the Customer network. TAP mode is used, allowing the use of both IP-based and non-IP protocols.

Note: Consult with your customer's IT department before enabling the B3075's VPN functionality.

To configure the B3075's VPN server functionality, login as admin then navigate to the OpenVPN Settings web page. You can choose from two modes of VPN operation:

1. "Insecure OpenVPN" mode: The VPN client configuration file can be freely downloaded from the B3075's login web page. The VPN will be automatically disabled after a certain period (configurable by the admin user). We sometimes refer to this as "construction mode" because it is particularly useful while the automation system is being configured and commissioned.
2. "OpenVPN" mode: The VPN client configuration file can only be downloaded by the admin user. There is no time limit in this mode.

Both modes may be used simultaneously, with a limit of one active client per mode. In both modes, the B3075's built-in VPN server is present on the Customer port. For each mode, select an unused IP address on the Private network for use by the VPN's virtual interface.

**B3075 BACnet/IP to BACnet/IP Router**[Documentation](#) [Logout](#)

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- OpenVPN Settings**
- Network Services
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- Manage Configuration
- Activate Configuration

Changes are not activated yet

### OpenVPN Settings

This page allows you to view/modify OpenVPN settings.

Parameter	Value	Description
<input type="checkbox"/> Enable OpenVPN		Enable secure access to the Private network with OpenVPN. OpenVPN will be started when Configuration is Activated.
IP Address	<input type="text"/>	OpenVPN virtual interface IP address on Private network. Pick an unused IP address on the Private network. IP address can always be (re-)configured when starting OpenVPN client on a laptop. (default: "") <b>IP should be in range: 192.168.0.1 - 192.168.0.254, excluding 192.168.0.24</b>
Download ovpn file		Download the configuration file for the OpenVPN client. The file contains the address of the OpenVPN server and IP address of the virtual interface on the Private network, plus other required parameters. This file contains the secret key. If you have changed OpenVPN parameters, please Activate Configuration before downloading the file.
Generate new credentials		Press this button if you want to create a new secret key. The old OpenVPN configuration files will no longer work. Download a new ovpn file after creating a new key.

### Insecure OpenVPN Settings

This section allows you to configure insecure access to the Private network with OpenVPN

Parameter	Value	Description
<input checked="" type="checkbox"/> Enable Insecure OpenVPN		Run a second instance of OpenVPN without any security for a limited period of time.
IP Address	<input type="text" value="192.168.0.25"/>	OpenVPN virtual interface IP address on Private network. Pick an unused IP address on the Private network. IP address can always be (re-)configured when starting OpenVPN client on a laptop. (default: "") <b>IP should be in range: 192.168.0.1 - 192.168.0.254, excluding 192.168.0.24</b>
Time to disable	<input type="text" value="14"/> days	The remaining time for insecure OpenVPN to run. Maximum time is 30 days (30*24 hours). The timer starts instantly, but OpenVPN will be started only after restart.
Download insecure VPN config file		Download the configuration file for the OpenVPN client. The file contains the address of the OpenVPN server and IP address of the virtual interface on the Private network, plus other required parameters. If you have changed OpenVPN parameters, please Activate Configuration before downloading the file.

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