



DATASHEET

Belden Horizon™ Cloud-Native Service



Belden Horizon™ is an IT-secure and OT-friendly cloud-native service optimized for highly reliable performance. Belden Horizon allows you to establish safe, reliable, and secure communications anywhere in the world. Using Belden Horizon's unique EasyBridge™ technology, your automation programming tools (such as Studio 5000, Unity Pro, TIA Portal, and many more) can talk directly to the automation devices without the need to set up IP routing or other complicated communications settings. Belden Horizon's EasyBridge technology makes it simple and secure for remote sites to communicate with each other.

Belden Horizon allows you to create two types of remote connections:

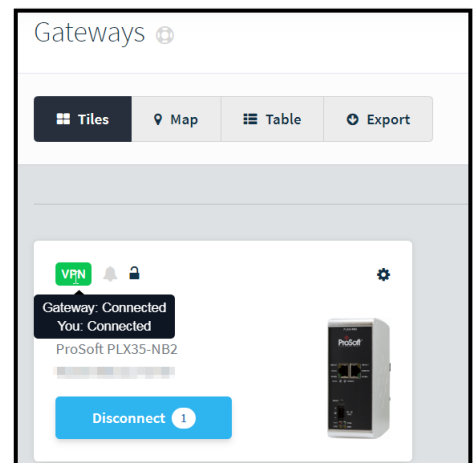
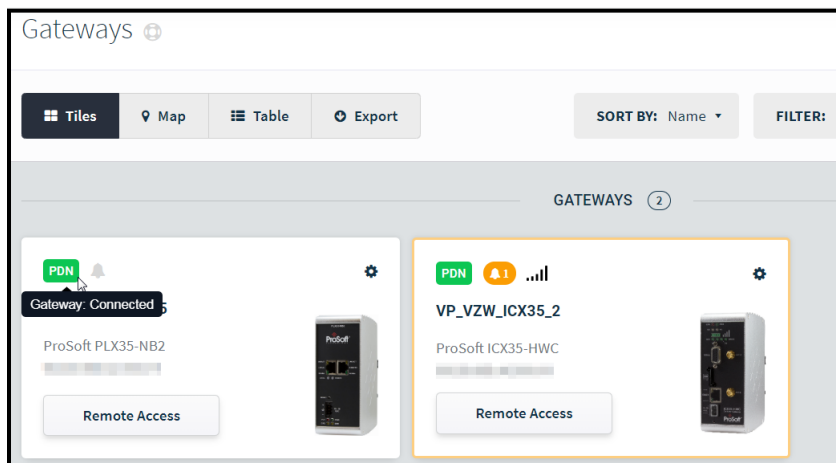
- ❖ An on-demand connection called Secure Remote Access (SRA). This type of remote connection is for a specific purpose. Examples include checking status, changing PAC software, or upgrading firmware. The user will disconnect once the action has been completed.
- ❖ An always-on connection called Persistent Data Network (PDN). This type of remote connection is used to connect geographically dispersed locations for a SCADA type network, like monitoring a municipal water utility or a gas distribution network. PDN is like being plugged into a local switch.



Belden Horizon uses a zero-trust multilayered approach to security. These include single sign-on, Virtual Lockout-Tagout, two-factor authentication, IP allow list, role-based user and device access, user-configurable password policies, and encrypted tunnels.

Belden Horizon is designed to intuitively and easily manage multiple customers, gateways, and users.

Belden Horizon is mobile-ready with dedicated apps available for download on iOS and Android platforms.



Security

All communications with the Belden Horizon service use HTTPS for site authentication and data encryption. Gateways are activated in Belden Horizon using a two-step authentication. All gateway connections are initiated by the gateway to prevent a spoofed service from initiating a gateway connection. No user-installed software is required, which eliminates potential “watering hole” attacks and time-consuming software patch maintenance.

Advanced Two-Factor Authentication (2FA)

With advanced two-factor authentication, customers can be confident that only registered users can access the account. When advanced 2FA is enabled, users must enter a username, password, and a unique time-based one-time password. The time-based, one-time password is auto-generated via an authenticator app on the user’s phone.

User-Configurable Password Policy

With a configurable password policy, users can determine password complexity requirements and mandatory rotation periods in line with existing policies. Configurable policy rules include enforcing minimum password length, password expiration period, requiring alpha-numeric characters and much more.

Single Sign-On (SSO)

Single sign-on allows users to access multiple applications with one set of credentials. With SSO, IT can manage user access to improve security and productivity. SSO uses SAML 2.0. SSO works by sending the login request to a known federated identity provider (IDP) and the credentials are checked against the organization’s active directory server. If the credentials are correct, then the user will be allowed to access the application.

Virtual Lockout-Tagout (vLOTO™)

With Virtual Lockout-Tagout, authorized plant personnel control when and how their machines are remotely accessed. The Belden Horizon user requests access for a specific period of time, which the authorizer(s) must approve. The authorizer does not need to be a Belden Horizon user – they can be an IT manager, plant engineer, shift supervisor, or other authorized person. The authorizer(s) can deny or revoke access at any time. Companies can also access a thorough activity log of permissions, acceptances, and denials to meet security requirements.

IP Allow List

Access specific IP addresses when remotely connected to the gateway.

VPN Tunneling

EasyBridge Secure Remote Access provides an AES256 encrypted Layer 2 VPN connection between the user’s PC and the network connected to the Belden Horizon gateway. VPN uses SSTP (the standard tunneling method) or L2TP client with IPsec encryption to minimize possible security vulnerabilities of user-installed third-party VPN client software.

Users

The Belden Horizon Organization Owner and project administrators can invite team members to join projects in the organization.

Projects

Projects allow the Belden Horizon Organization Owner to group gateways and team members. Team members in a Project can only see the gateways, activities, and other team members in that Project. Two Projects are standard for each organization. Additional Projects are available by purchasing a Power User Plan.

Access Control

Access Control for users is managed by the account administrator. Users are assigned rights to administer, connect and configure gateways, or to connect only. An Organization Owner can transfer ownership of remote access devices (for example, a machine builder granting ownership to an end user once the OEM no longer needs control of the equipment).

Ethernet/Cellular Connections

Outbound connections from gateways use HTTPS only. Client VPN connections use SSTP via TCP port 443 or L2TP via ports 500, 4500, and 1701.



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PC Client Software

User-installed software is not required for Belden Horizon. Belden Horizon is compatible with current versions of Chrome, Firefox, and Internet Explorer 10 or later. EasyBridge uses the OS-native SSTP or L2TP client software. Windows 7 or later is recommended.

Requirements

Belden Horizon works with the ICX35-HWC Industrial Cellular Gateway and the PLX35-NB2 Network Bridge. ProSoft Technology can activate the Industrial Cellular Gateway with AT&T® or Verizon® before you receive it, saving you time.

Subscriptions - Secure Remote Access - Power User Plans (PUPs)

Belden Horizon Power User Plans are ideal for system integrators and machine builders who rely on Belden Horizon to service their customers. Power User Plans increase the monthly EasyBridge data limits, number of concurrent connections, and number of Projects, making it easier to manage remote access for multiple end customers. Power User Plans also allow for more than one authenticated person to be concurrently connected to the same gateway.

Free	1 or 2-Year Subscription	1 or 2-Year Subscription
Standard Plan	Medium PUP	Large PUP
1GB per gateway per month	3 GB per gateway per month	6 GB per gateway per month
2 standard projects	10 standard projects	25 standard projects
25 Users per project	25 users per project	25 users per project
2 Concurrent connections to different gateways	3 Concurrent connections to same or different gateways	6 Concurrent connections to same or different gateways
Email-based Two-Factor Authentication	Token-based Two Factor Authentication	Token-based Two-Factor Authentication
	Single Sign-On (SSO)	Single Sign-On (SSO)
	User-configurable password policy	User-configurable password policy
	Virtual Lockout-Tagout (vLOTO™)	Virtual Lockout-Tagout (vLOTO™)

Subscriptions – Persistent Data Network (PDN)

PDN is a subscription-only service and is for each site (also called a node). A minimum of two nodes is required for a PDN system. Every PDN subscription includes the following:

- ❖ 3GB of VPN data per month per site (VPN Data is pooled for the system)
- ❖ 50 projects
- ❖ 25 users per project
- ❖ 100 gateways per project (maximum)
- ❖ Token-based Two-Factor Authentication
- ❖ Virtual Lockout-Tagout (vLOTO™)
- ❖ Single Sign-On (SSO)
- ❖ User-configurable password policy
- ❖ Anytime, Anywhere Secure Remote Access

Note: Cellular sites will need a cellular data plan. A minimum of 4GB data plan (or higher) is recommended for PDN and Medium PUP subscriptions. A minimum of 7GB data plan is recommended for Large PUPs.



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Ordering Information

Go to www.belden.io to sign up.

Belden Horizon subscriptions for Secure Remote Access:

- Standard Plan (Free)
- Power User Plan (Medium)
PSC-PUP-MED-1Y (1 Year)
PSC-PUP-MED-2Y (2 Year)
- Power User Plan (Large)
PSC-PUP-LRG-1Y (1 Year)
PSC-PUP-LRG-2Y (2 Year)

Belden Horizon Subscriptions for Persistent Data Network

PDN subscription is per site:

- PSC-PDN-SITE-1Y: 1 site / 1 year
- PSC-PDN-SITE-2Y: 1 site / 2 year
- PSC-PDN-SITE-3Y: 1 site / 3 year
- PSC-PDN-ACT: One time activation of the PDN service for the Belden Horizon organization.

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