SECURE CONNECTIVITY SOLUTION FOR SMART INFRASTRUCTURE

Building Edge and cRSP

SIEMENS

With Siemens, the security of your data and OT/IT systems is a top priority. Siemens connectivity for digital services provides a very high level of security protection and compliance. Before Siemens implements digital services, an in-depth analysis is conducted with your IT specialists to ensure we understand your unique situation and consider national and international regulations, technical infrastructures, and industry specifics.

There are several ways our Digital Service Centers (DSCs) can connect to your IT network. This document provides a high-level overview of Siemens connectivity variants for cRSP, Building X, Navigator, and other cloud-based services. Working together with your IT organization, we will determine the method that works best for your organization.

What is Building Edge Platform?

- Building Edge represents an open, ready-to-use edge computing platform consisting of edge devices, edge apps, edge connectivity, and an application and device management infrastructure. Building Edge brings edge computing to buildings and lets you use cloud computing as needed. For example, to benefit from higher computing power, more storage, and remote accesses. You have full control over your data at all times.

- An edge-based connection (gateway or infrastructure integration) with an audit-proof, cybersecure connection to the customer's site as a critical control point for integration into the Smart Infrastructure ecosystem.

  - Advantage 1: Combined value - proposition is above market standards, enables digital services, improves reactions for resolutions, and enables outcome-based services – using a combination of edge analytics, remote analytics, resolution, and remote support for onsite service technicians.

  - Advantage 2: Always up to date with the latest connectivity software, which is upgraded remotely to ensure the highest cybersecurity standards.

  - Advantage 3: Easy to enable new applications from the platform for new digital services.

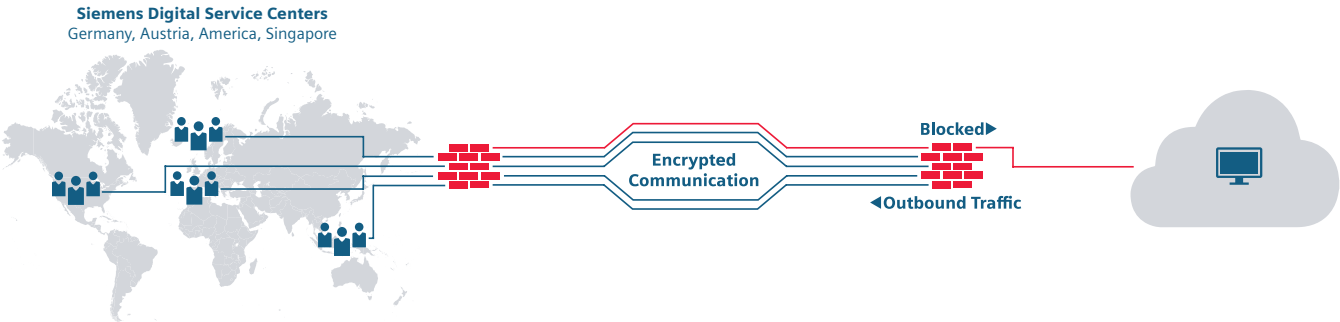- For additional information, see the *IT Security Concept – Building Edge* document.

What is the common Remote Service Platform (cRSP) industry VPN connection?

- cRSP is Siemens secure remote platform that utilizes established standard IP Security, encrypted secure payloads, and SSL VPN with a one-time password.

- On the platform level, it can be configured (transparent and auditable for the customer) according to what is allowed with the data. Siemens can provide remote-based or data-driven services to meet customers' specific needs.

- In some cases, customers and infrastructure providers have additional or very specific requirements regarding connectivity solutions. And sometimes, the security and control requirements are more important than an easy-to-manage edge solution. In these cases, we can offer a portfolio of industrialized VPN connectivity products to provide a secure connection.

- For additional information, see the *IT Security Concept – cRSP document*.
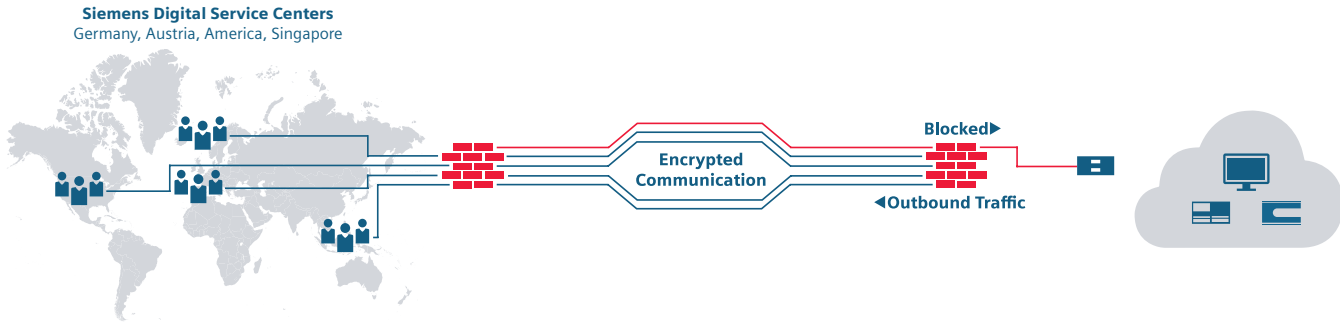
Building Edge - Multi protocol

Connect Software

Each equipment is connected to cRSP, Building X, and other Siemens cloud-based services through the Internet and utilizes a secure connection. Connection between cRSP, Building X, and other Siemens cloud-based services is performed through a software gateway provided by Siemens. Access to the Internet is provided by the customer.

Siemens Digital Service Centers
Germany, Austria, America, Singapore

Blocked▶

Encrypted Communication

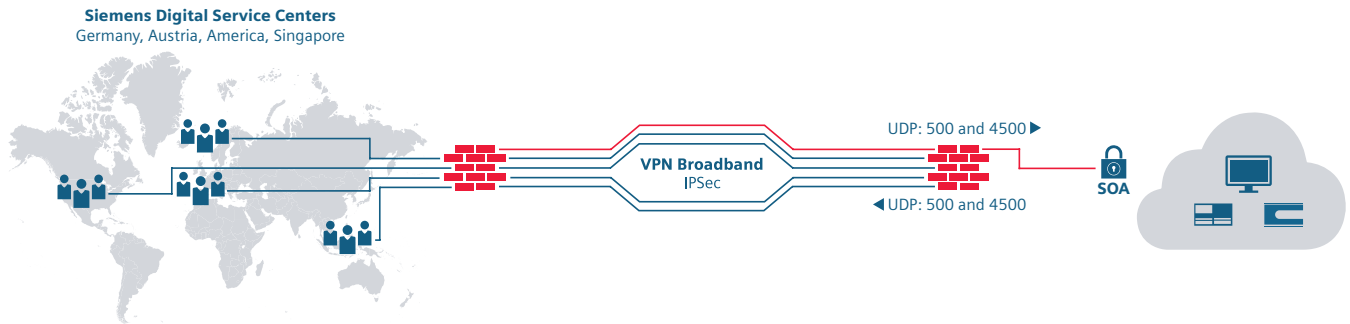◀Outbound Traffic

Connect Gateway

Connection between cRSP, Building X, and other Siemens cloud-based services is performed through a gateway provided by Siemens. Access to the Internet is provided by the customer or via a mobile connection.

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Encrypted Communication

◀Outbound Traffic
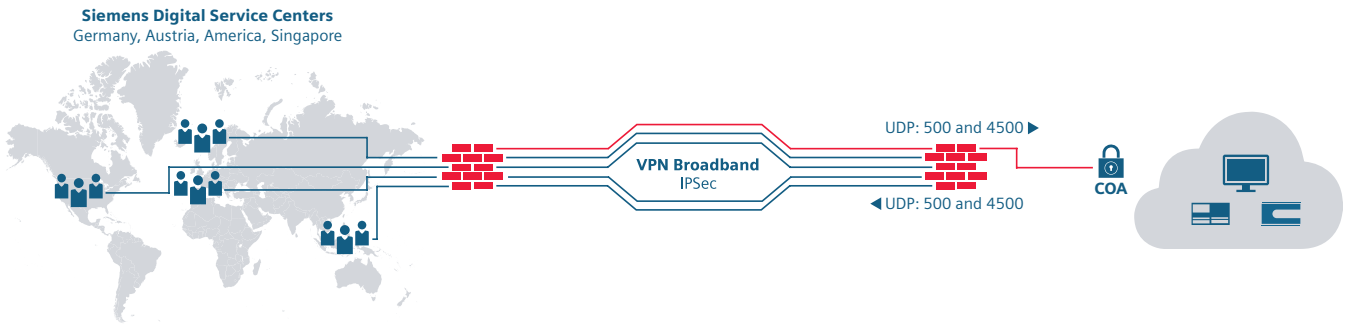
cRSP – Native Variants

IPsec Siemens Owned Access

Connection between cRSP infrastructure and customer's network is performed through a router provided by Siemens.
cRSP supports secure forwarding of data to underlying cloud-based service.

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VPN Broadband
IPSec

UDP: 500 and 4500 ▶
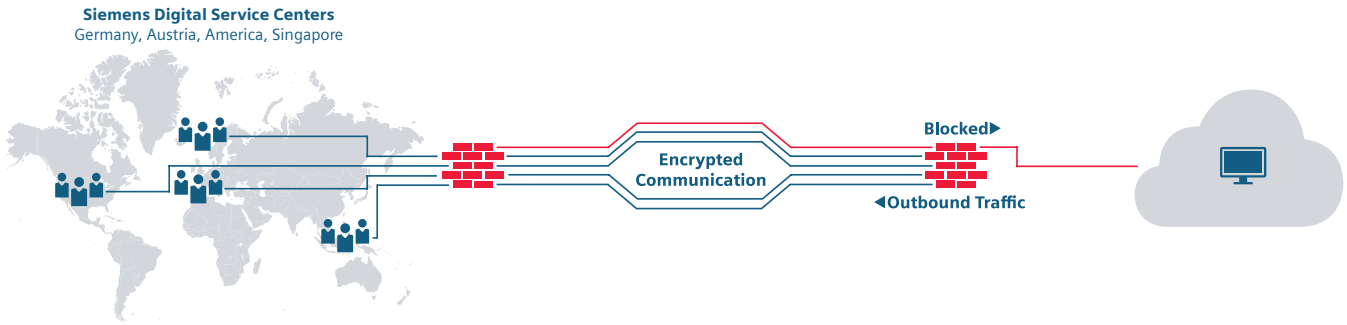
◀ UDP: 500 and 4500

SOA

IPsec Customer Owned Access

Connection between cRSP infrastructure and the customer's network is performed through a customer's router or it ends
at the customer's firewall. cRSP supports secure forwarding of data to underlying cloud-based service.
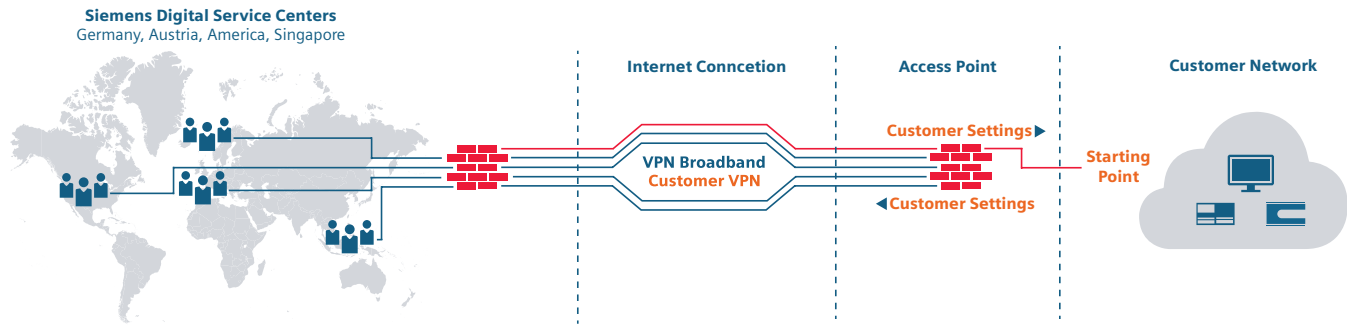
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VPN Broadband
IPSec

UDP: 500 and 4500 ▶

◀ UDP: 500 and 4500

COA

SSL VPN Client

Each device is connected to cRSP, Building X, and other Siemens cloud-based services through the Internet and utilizes a secure connection. Access to the Internet is provided by the customer. Connection between cRSP infrastructure and the customer's network is protected by SSL VPN. cRSP supports secure forwarding of data to underlying cloud-based service.

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Encrypted
Communication

Blocked▶

◀Outbound Traffic

Customer VPN Integration

Connection between cRSP infrastructure and the customer's network is performed through a direct integration of the customer's VPN solution in cRSP. Compatible today with Cisco AnyConnect, SecureLink Vendor Access, Fortinet, and Palo Alto with additional products to follow, depending on individual configuration.

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Internet Conncetion

Access Point

Customer Network

Customer Settings▶

VPN Broadband
Customer VPN

Starting
Point

◀Customer Settings

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Subject to changes and errors. The information given in this document only contains general descriptions and/or performance features which may not always specifically reflect those described, or which may undergo modification in the course of further development of the products. The requested performance features are binding only when they are expressly agreed upon in the concluded contract.