SIEMENS

Data Sheet

# 360° Viewer

## Building X

**360° Viewer is a digital twin for buildings that enables a location based view for the Customer's live sensor data. 360° Viewer allows Customers to virtually manage their buildings or campuses with a photorealistic view or with a 2D view, walk through as if Customers were on site, view geo-tagged sensor data and take measurements.**

- View a photorealistic scene of the building
- Use bird's eye 2D view to locate assets and live data
- Virtually walk through the building
- Find the quickest way to an asset by using route planning
- Take measurements of the building's as-built state
- Search for geo-tagged information
- Enrich point of interest with live sensor data or meta information
- Data Hosting of Point cloud instance in the cloud

buildingx.siemens.com

## Functions

**Multi-site Overview**

Provides an overview of all sites connected to the Cloud Service, as well as connectivity state and aggregated event state on each of the sites.

**Virtually Walk in the Building**

With a 360° camera view, Customer can walk through the building as if Customer was onsite.

**Take Measurements**

Take accurate measurements of the building's as built state.

**Search for and Route to Geo-tagged Information**

Customer can search for points of interest and is routed to the selected point of interest.

**Enrich Point of Interest with Meta Information**

Highlight equipment within the building, display text and images for points of interest, visualize sensor data.

**Data Hosting of Point Cloud Instances**

This Cloud Service allows a scanning partner from NavVis (https://www.navvis.com) to upload processed point cloud data after scanning is performed.

**NavVis IVION Viewer**

The current implementation of the 360° Viewer includes an integration of the NavVis Viewer. The 360° Viewer user is free to use any functionality provided by NavVis, including access to the official Siemens documentation. Siemens maintains the right to change the integration of the NavVis Viewer with another viewer that can provide similar functionalities at any time.

**Accounts Application**

Ability to manage users with a role-based access control. New users can be invited to access the Cloud Service and given appropriate access rights via user groups. Users can log in with two-factor authentication and manage their user account themselves. Data can be logically grouped into partitions and given access via user groups.

**Data Hosting and Data Usage**

The 360° Viewer and NavVis host and processes personal and non-personal data in data centers located in Germany. For information regarding processing of personal data and locations Customer may refer to the Data Privacy Terms Annex III.

**Devices Application**

Ability to manage Connected Devices compatible with the Cloud Service.

**Data Setup Application**

Ability to onboard data by adding meaning and structure to it. The data can be onboarded from multiple sources, such as Connected Devices, 3rd party cloud systems and files.

**Ask Building X**

Ability to ask questions in different languages about Building X technical information, utilizing GenAI.

## Subscription

The subscription plan depends on the agreement between Customer and Siemens.

**1) Standard Subscription Plan if the customer purchases the subscription via the Siemens online store**

| | **360° Viewer** |
|---|---|
| **Prerequisites** | Requires valid Operations Manager Essential or Standard subscription |
| **Functions** | All |
| **Subscription metric** | per 100 $m^2$ / 1,000 $ft^2$ per year |
| **Subscription term** | Annually, auto-renewal |
| **Billing term** | Annually, payment in advance |
| **Upscale** | Effective immediately, pro-rated billing |
| **Downscale/Cancellation** | Effective with end of subscription term |

| | 360° Viewer |
|---|---|
| **Connected Devices** | To be purchased separately |
| **Permitted Users** | Unlimited, Extended Use |

The 360° Viewer subscription plan is the regular, scalable Offering for this Cloud Service. The subscription term is twelve (12) months with automatic renewal; the Cloud Service fee is paid in advance. The subscription plan can be upscaled at any time and Cloud Service fees for upscales are calculated on a pro-rated basis. The Customer can also scale down the Cloud Service effective with the end of the current subscription term. The subscription fee will be adjusted for the upcoming billing term. The Cloud Service can be cancelled any time, effective with the end of the current subscription term.

The subscription plan can be purchased starting from 5.000 scanned $m^2$ or 50.000 $ft^2$. The scanned $m^2$ / $ft^2$ are calculated based on the number of laser scan images taking during scanning (NavVis). A standard conversion rate of 1 NavVis panoramic image per 20 $m^2$ / 200 $ft^2$ applies for this calculation.

Customer may purchase required Connected Devices separately.

Extended Use entitles Customer to authorize its Affiliates and third parties to access and use the Cloud Services in accordance with the rights set out in the Terms and Conditions.

**2) Custom Subscription Plan**

Any subscriptions that are not purchased via a Siemens online store are Custom Subscription Plans. Under a Custom Subscription Plan the details regarding functions, subscription metric, term, billing, up- and downscaling, Connected Devices as well as Permitted Users are set out in the agreement between the Customer and Siemens.

## Prerequisites

**Supported Connected Devices**

To use the POI integration of live data from sensors both in the photorealistic view and in the 2D floorplan view, a subscription and onboarding of the device and data points must be conducted through the Devices application and Data Setup application. The creation or association of POI in the photorealistic view/ point cloud view is not included in the subscription and is dependent on additional services.

The Cloud Service is currently compatible with commercially available Connected Devices. Connected Devices enable the Cloud Service to exchange data with the technical building infrastructure. A description of the available Connected Devices is provided below.

| | List of Supported Connected Devices |
|---|---|
| **SIEMENS: Connect X200** | The Connect X200 edge gateway is powered with DC 24V or AC 24V and may require an enclosure.<br>The Connect X200 includes embedded software (for example, firmware and factory installed applications collectively referenced herein as Software) to supply building data to this Cloud Service. |
| **SIEMENS: Connect X300** | The Connect X300 edge gateway is powered with DC 24V and may require an enclosure.<br>The Connect X300 includes embedded software (for example, firmware and factory installed applications collectively referenced herein as Software) to supply building data to this Cloud Service. |
| **SIEMENS: Connect X500** | The Connect X500 edge gateway is powered with DC 24V and may require an enclosure.<br>The Connect X500 includes embedded software (for example, firmware and factory installed applications collectively referenced herein as Software) to supply building data to this Cloud Service. |
| **SIEMENS: Connect Software** | Connect Software edge gateway is running on Windows 10 or Windows 11 Hyper-V and requires computer hardware.<br>Connect Software includes multiple software applications collectively referenced herein as Software to supply building equipment data to this Cloud Service. |

| | List of Supported Connected Devices |
|---|---|
| **SIEMENS: Desigo CC** | Desigo CC software product is running on Windows computer hardware. The supported software version is Desigo CC V6 or higher.<br>Desigo CC includes multiple software extensions collectively referenced herein as Software to supply building data to this Cloud Service. |

To use the Cloud Service, a Connected Device must be installed on site, fully operational and connected to the Internet. The Customer is responsible for the provision of the Connected Device on site and all associated costs for the provision of the Cloud Service in accordance with the associated documentation for the Connected Device.

**Supported Third-Party Software Connectivity**

The Cloud Service is currently compatible with commercially available Third-Party Software. Third-Party Software Connectivity enable the Cloud Service to exchange data with Third-Party Software. A description of the available Third-Party Software connectivity is provided below.

| | List of Supported Third-Party Software |
|---|---|
| Software Specific connectors | • DWG File Upload |

The customer is responsible for the Third-Party Software at the site and all associated costs for the provision of the cloud service in accordance with the associated documentation for the Third-Party Software.

**Web browser and Viewing Devices**

Chrome is recommended to use the Cloud Service, but other standard browsers might also serve this function. Screen resolution of 1920x1080 pixels or higher is recommended for best user experience.

**Internet Connection**

The bandwidth of Customer’s internet connection determines the performance of the Cloud Service.

**Laser Scanning**

To use the NavVis photo-realistic view / point cloud view of the building, a laser scan of the building needs to be done before using this Cloud Service. The laser scanning service is not included in the subscription. Customer is responsible for laser scanning the building and uploading the scan to Building X. Customer is responsible for any associated costs to perform said scan and upload in accordance with related documentation for the 360° Viewer. The Customer may choose to work with NavVis or a NavVis sub-supplier or any other scanning provider to perform laser scan and upload to Building X, assuming the supplier delivers one of the accepted formats by the 360° Viewer.

**360° Viewer**

NavVis Photo-realistic view: To use the photo-realistic view, the uploaded scan must be an output from a NavVis device / other accepted devices and file formats by the NavVis Viewer, and must adhere to the prerequisites of the NavVis Viewer.

NavVis Point cloud view: To use the point cloud view, the uploaded scan can be generated from any device and must adhere to the prerequisites of the NavVis Viewer. The service is currently supported by NavVis. Any prerequisites given by the IVION viewer itself will apply on the 360° Viewer as well, unless mentioned otherwise in this document.

2D view: To use the 2D view, the 2D floorplans must be onboarded via the Data Setup application and 2D editor. The creation of 2D floorplans and association of data points is not part of the subscription and is dependent on the provided onboarding services.

## Ordering

To order a subscription plan and connected devices, Customer must request a quote from its Siemens sales representative.

## Product Documentation

### 1) Product Documentation under a Standard Subscription Plan

| General Contractual Documents | Links |
|---|---|
| Building X - 360° Viewer Data Sheet | www.siemens.com/buildingx/data-sheet/360-viewer |
| Building X - Operations Manager Data Sheet | www.siemens.com/buildingx/data-sheet/operations-manager |
| Supplemental Terms for Buildings | www.siemens.com/buildingx/data-sheet/supplemental-terms |
| General Software Terms and Cloud Supplemental Terms | https://www.siemens.com/si/cloud/terms |
| Base Terms International | https://www.siemens.com/si/cloud/terms |
| Siemens Acceptable Use Policy | https://www.siemens.com/si/cloud/terms |
| Minimum Terms | www.siemens.com/buildingx/data-sheet/minimum-terms |
| Data Privacy Terms | https://www.siemens.com/dpt/si |
| Data Privacy Terms Annexes Building X | https://www.siemens.com/dpt/si |
| EU Data Act | https://www.siemens.com/buildingx/terms |

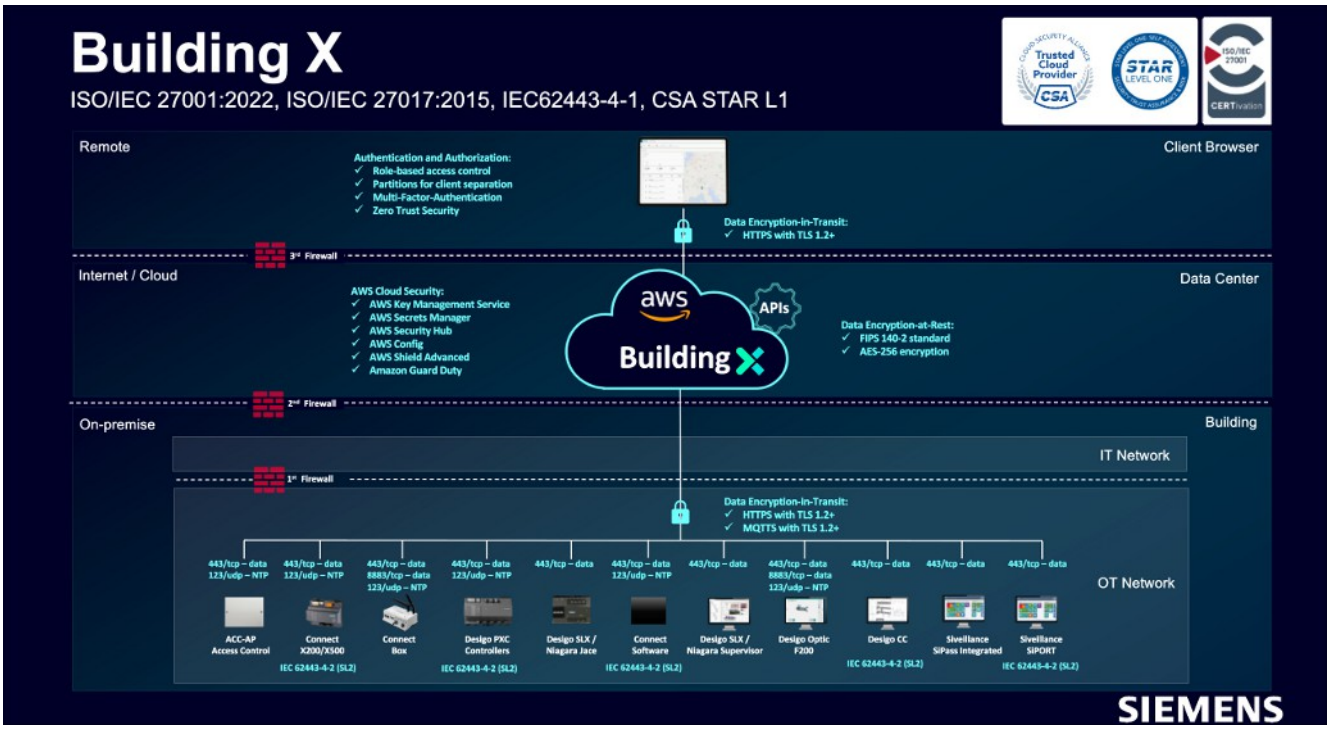
### 2) Product Documentation under a Custom Subscription Plan

The contractual documents and the Product Documentation are set out in Siemens' offer to the Customer.

### 3) Technical Documents

| Technical Documentation | Link |
|---|---|
| Building X - Online help | www.siemens.com/buildingx/sid |

## Topology




The topology shows the superset of possibilities for connecting data to Building X. The options available for this Digital Service can be found in the list of supported connected devices and third-party software connectivity.

Data communication between the Connected Devices on-premises and the Cloud Service requires internet connectivity (to be provided by the Customer).

## Specific Terms

### High-Risk Use

Customer acknowledges and agrees that:

a) the Offerings are not designed to be used for the operation of or within a High-Risk System if the functioning of the High-Risk System is dependent on the proper functioning of the Offerings; and

b) the outcome from any processing of data through the use of the Offerings is beyond Siemens' control.

### Service Level Agreement

Siemens shall use commercially reasonable efforts to make the Cloud Services available for a monthly uptime percentage of ninety-eight percent (98%).

Except for:

a) Planned downtime, agreed downtime, routine and emergency maintenance,
b) Cyberattacks,
c) the public, third party and/or customer's internet and communications networks,
d) data, software, hardware, telecommunications, infrastructure, power, build-packs or networking equipment not provided by Siemens,
e) Customers and Users negligence or failure in using the Cloud Service and/or in not following the instructions of published documentation,
f) system configurations and platforms not supported by Siemens,
g) system administrations, action, commands and file transfers of Customer or User,
h) modifications or alterations not made by Siemens,
i) unauthorized access via Customer's credentials and/or
j) any other failure outside of Siemens reasonable control.

### Terms of Use/Data Provisioning

Customer is providing the building scan data in a NavVis compatible format and according to the license parameters.
It is Customer's upfront responsibility to assure accordance with Customer's companies' data privacy regulations. These typically include (but are not limited to):

- Exclude critical areas completely (e.g., development of upcoming products, unique distinctive production processes)
- Exclude or blur the image of persons
- Exclude any (Strictly) confidential Information on any surface (e.g., paper, walls, windows, display)
- Exclude all security features of the building (e.g., location of security cameras, entry code, pins of any kind)
- Exclude server rooms (used HW or any indication of installed SW, access control, purpose of the server room)
- Exclude any displayed organizational ID and Names

### Customer Support

Siemens offers helpdesk support. Customer may contact its local Siemens representative for support requests. Customers can also submit a support request online: https://www.siemens.com/support-request.

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