Legal information

Warning notice system

This manual contains notices you have to observe in order to ensure your personal safety, as well as to prevent damage to property. The notices referring to your personal safety are highlighted in the manual by a safety alert symbol, notices referring only to property damage have no safety alert symbol. These notices shown below are graded according to the degree of danger.

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANGER</td>
<td>Indicates that death or severe personal injury will result if proper precautions are not taken.</td>
</tr>
<tr>
<td>WARNING</td>
<td>Indicates that death or severe personal injury may result if proper precautions are not taken.</td>
</tr>
<tr>
<td>CAUTION</td>
<td>Indicates that minor personal injury can result if proper precautions are not taken.</td>
</tr>
<tr>
<td>NOTICE</td>
<td>Indicates that property damage can result if proper precautions are not taken.</td>
</tr>
</tbody>
</table>

If more than one degree of danger is present, the warning notice representing the highest degree of danger will be used. A notice warning of injury to persons with a safety alert symbol may also include a warning relating to property damage.

Qualified Personnel

The product/system described in this documentation may be operated only by personnel qualified for the specific task in accordance with the relevant documentation, in particular its warning notices and safety instructions. Qualified personnel are those who, based on their training and experience, are capable of identifying risks and avoiding potential hazards when working with these products/systems.

Proper use of Siemens products

Note the following:

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WARNING</td>
<td>Siemens products may only be used for the applications described in the catalog and in the relevant technical documentation. If products and components from other manufacturers are used, these must be recommended or approved by Siemens. Proper transport, storage, installation, assembly, commissioning, operation and maintenance are required to ensure that the products operate safely and without any problems. The permissible ambient conditions must be complied with. The information in the relevant documentation must be observed.</td>
</tr>
</tbody>
</table>

Trademarks

All names identified by ® are registered trademarks of Siemens AG. The remaining trademarks in this publication may be trademarks whose use by third parties for their own purposes could violate the rights of the owner.

Disclaimer of Liability

We have reviewed the contents of this publication to ensure consistency with the hardware and software described. Since variance cannot be precluded entirely, we cannot guarantee full consistency. However, the information in this publication is reviewed regularly and any necessary corrections are included in subsequent editions.
Table of contents

1 Security information ................................................................. 5
2 Function overview ..................................................................... 6
3 Configuration concept ............................................................... 8
4 Basic information about notifications ........................................ 10
5 Setting up the Notifier server .................................................. 11
   5.1 Performance characteristics .................................................. 11
   5.2 Security precautions for Notifier server ................................. 11
   5.3 Installation requirements ...................................................... 12
   5.4 Licensing and supported devices .......................................... 14
   5.5 Performing the installation .................................................... 16
   5.6 Defining user roles ............................................................. 17
   5.7 Creating advanced subscription filters ................................. 18
   5.8 Start Notifier server configuration ....................................... 18
   5.9 Creating notifications ........................................................ 19
      5.9.1 Creating a project ......................................................... 19
      5.9.2 Setting up connections ................................................... 20
      5.9.3 Setting up a secure OPC UA connection ....................... 21
      5.9.4 Create tags .................................................................. 24
      5.9.5 Addressing tags ........................................................... 25
      5.9.6 Creating notifications .................................................... 27
      5.9.7 Downloading project to Notifier runtime ....................... 29
      5.9.8 Exporting and importing a project ................................. 29
      5.9.9 Importing tags ............................................................. 31
      5.9.10 Supported data types ................................................... 35
6 Registering and setting smart devices ......................................... 36
   6.1 Wear OS Smartwatch: Establishing a connection to the Notifier server .............................................. 36
   6.2 Wear OS Smartwatch: Setting up connection in Demo mode ................................................................. 40
   6.3 Wear OS Smartwatch: Using connection diagnostics (HealthCheck) ...................................................... 41
   6.4 iPhone/iPad: Setting up and terminating a connection to the Notifier server ........................................ 42
   6.5 iPhone/iPad: Setting up and terminating a connection to MindSphere .................................................. 45
   6.6 Security precautions on the smart device ...........................................
# Table of contents

## 7 Using smart devices
- 7.1 General operating instructions ................................................................. 51
- 7.2 Wear OS Smartwatch: Managing notifications ........................................... 52
- 7.3 iPhone/iPad: Managing notifications ......................................................... 55
- 7.4 Accepting notifications .............................................................................. 58
- 7.5 Deferring notifications .............................................................................. 60

## 8 Additional information
- 8.1 Example of an application ......................................................................... 61
- 8.2 Related links .............................................................................................. 61
Security information

Siemens provides products and solutions with industrial security functions that support the secure operation of plants, systems, machines and networks.

To protect plants, systems, machines and networks against cyber threats, it is necessary to integrate and continuously maintain an integrated, modern industrial security concept. The Siemens products and solutions are only one element of such a concept.

They are responsible for preventing unauthorized access to your plants, systems, machines and networks. Systems, machines and components must only be connected to the corporate network or the Internet within the required scope and with appropriate security measures (such as firewalls and network segmentation).

In addition, the Siemens' policies on appropriate security measures should be observed. Additional information on industrial security can be found at

http://www.siemens.com/industrialsecurity

Siemens’ products and solutions undergo continuous development to make them more secure. Siemens recommends that you apply product updates as soon as these become available and that you always use the latest product versions. Using product versions that are no longer supported and failure to comply with the latest updates may increase the customer's exposure to cyber threats.

To always be informed about product updates, sign up for the Siemens Industrial Security RSS feed at

http://www.siemens.com/industrialsecurity
Function overview

Description

With SIMATIC Notifier, you can monitor your plant, production line or machine with mobile devices such as smartwatches, smartphones, tablets, etc., in conjunction with an OPC UA server or via the S7 Plus or S7 Classic connections. On the Notifier server you create notifications of the type "Alert", "Warning" or "Information", which are triggered when an event occurs in the system. The notifications are sent to all users in the same network on the respective registered smart devices. The user can quickly recognize the importance of a single notification: A look at the mobile device is sufficient. It is irrelevant where he is in the plant. He only needs to be in the specified WLAN.

As soon as the Notifier server is set up and the corresponding smart devices are registered, the Notifier server sends the notifications directly to the connected smart devices. The users who are defined as recipients of the same notifications have the ability to collaborate on topics received in the same notification network.

As administrator, you define the user roles, assign devices, and create notifications on the Notifier server via the simple and efficient Notifier server configuration. To set up communication with the mobile devices, install the SIMATIC Notifier app on the respective mobile devices. You can then use the app to configure how to communicate with the Notifier server and how to work with incoming notifications.

Functions

The following functions are available with SIMATIC Notifier:

- User and role management
- Different notification types (Alert, Warning and Information)
- Send direct notifications to mobile devices
- Function "Accept" (Accept a notification)
- Encrypted communication via WLAN
**Uses**

SIMATIC Notifier offers you many advantages:

- Easy connection to plants, production lines and machines
- Fast, user-friendly configuration
- Less downtime and therefore significant time and cost savings
Configuration concept

Requirements

To set up the Notifier server and the mobile devices, the following requirements must be fulfilled:

- The SIMATIC Notifier server has been installed
- The SIMATIC Notifier app has been installed on a mobile device.
- The mobile device runs with iOS 11 or higher or with Android Wear OS 6 or higher
- The products are licensed
- The Notifier configuration has been opened.

Configuration procedure

The starting point for the configuration of notifications is the existing plant structure:

- Configure the connections and tags on the Notifier server.
- Specify the notification texts and notification types.
- Identify and name the user roles in the plant, for example, plant operator.
- Register the mobile devices.
- Specify which roles are to receive specific notifications.
- Connect your mobile devices with the Notifier server by loading your project and start the Notifier runtime.

If configuration was successful, notifications are now sent from the Notifier server to the user which are tailored to the situation and the plant area. The user can accept or defer incoming notifications.

Configuration on the Notifier server

The configuration of the notification service on the Notifier server is described by the following steps:

- Creating a project in the Notifier configuration
- Creating a project for the corresponding device
- Specifying the connections and tags
- Specifying the notifications you want to receive.
• Selecting predefined notification texts from the notification text window or specifying your own notification texts

![Notification text window](image)

• Specifying the conditions that trigger notifications.

• Specifying the user roles and assigning of the mobile devices

Configuring clients

The last configuration step is connecting the mobile devices to the notification service of the server:

• Install the Notifier app on the mobile device

• Set up the connection to MindSphere or to the Notifier server

  The SIMATIC Notifier app enables an simple and reliable server connection. If this connection is lost, the app will repeatedly try to restore the connection with the Notifier server for 2 minutes. If this does not succeed, the connection must be established manually.

You can find the Notifier app here:


Basic information about notifications

Notification types

Three types of notifications can be created in the SIMATIC Notifier:

<table>
<thead>
<tr>
<th>Icon</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>🔴</td>
<td>Alert</td>
<td>Alerts are critical notifications with the highest priority, for example requiring immediate action. Alerts can be accepted by a user. This means that this user will take care of the underlying problem that triggered the alert, e.g. by lowering the temperature. In this case, other users in the network are informed that the problem was accepted by another user. Alternatively, if the user cannot accept the problem, he or she can reset this alert. A deferred alert can be accepted at a later point in time if no other user has accepted it in the meantime.</td>
</tr>
<tr>
<td>🟠</td>
<td>Warning</td>
<td>Warnings are medium priority notifications that inform the user of an important status or problem in the plant. As with alerts, users can also accept or defer incoming warnings.</td>
</tr>
<tr>
<td>🟢</td>
<td>Information</td>
<td>Through informative notifications, users receive a tip or information without having to become active in this context. Information can be read and confirmed.</td>
</tr>
</tbody>
</table>

The incoming notifications are shown at the top of the display. When a user accepts an alert or warning, the notification disappears from the upper display area, but still appears in the notification stack on the main screen.
5 Setting up the Notifier server

5.1 Performance characteristics

Description

The specified maximum values are not to be understood as additive values. It cannot be guaranteed that configurations executed on the smart devices and reaching the limits of the system are functional.

The following table is intended to help you assess whether your project is covered by the features of the Notifier server:

<table>
<thead>
<tr>
<th>Number of ...</th>
<th>System limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Projects</td>
<td>10</td>
</tr>
<tr>
<td>Target systems</td>
<td>1</td>
</tr>
<tr>
<td>Connections</td>
<td>30</td>
</tr>
<tr>
<td>Tags</td>
<td>1,500</td>
</tr>
<tr>
<td>Notifications</td>
<td>10,000</td>
</tr>
<tr>
<td>Smart devices</td>
<td>200</td>
</tr>
</tbody>
</table>

5.2 Security precautions for Notifier server

Description

Please note the following notes on security for the Notifier server:

- To prevent unauthorized access to the computer on which the Notifier server is installed, follow the applicable security precautions.
- Configure and use the data for secure access in the Notifier server configuration.

Updates of the operating system

Install updates to your operating system, including patches, as they become available and make sure you always use the latest product versions.

Using Notifier alongside other systems

SIMATIC Notifier is intended to be used alongside other notification/messaging systems in your system, as WLANs are always vulnerable to attack and inconsistencies can occur.

For proper communication therefore, make sure that you also use additional communication systems in your plant.
5.3 Installation requirements

Supported operating systems

The SIMATIC Notifier server is only supported by 64-bit operating systems:

- Windows Server 2008 R2 Standard Edition
- Windows Server 2012 R2 Standard Edition
- Windows Server 2016 Standard Edition 64-Bit
- Windows 7 SP1 64x Home Premium
- Windows 7 SP1 64x Professional
- Windows 7 SP1 64x Enterprise
- Windows 7 SP1 64x Ultimate
- Windows 10 Home
- Windows 10 Pro
- Windows 10 Enterprise

Note

Keep your operating system up to date

To ensure that the SIMATIC Notifier functions properly, make sure that the active operating system is up to date.

Hardware requirements

At least 4 GB of RAM are required to run the SIMATIC Notifier server.

Software requirements

The following software requirements must be fulfilled on the PC on which you want to install the SIMATIC Notifier server:

- Microsoft .NET Framework with Version 4.6.0
- IIS with ASP.NET version 4.5 or higher

Note

Parallel use

The parallel use of other web-based WinCC applications, such as SIMATIC WinCC Runtime Unified, and SIMATIC Notifier server, is not supported.
Enabling of IIS (Internet Information Services)

To install the Notifier Configuration, the following settings must be selected in Windows:

- WWW Services > General HTTP features > HTTP error
- WWW Services > General HTTP features > HTTP redirection
- WWW Services > General HTTP features > Default document
- WWW Services > General HTTP features > Static content
- WWW Services > Application development features > .NET Extensibility 3.5
- WWW Services > Application development features > ASP
- WWW Services > Application development features > ASP.NET 4.7
- WWW Services > Application development features > ISAPI extensions
- WWW Services > Application development features > ISAPI filter
- WWW Services > Performance characteristics > Dynamic content compression
- WWW Services > Performance characteristics > Static content compression
- WWW Services > Security > Request filtering

For Windows 10, you can make these settings in the following window:
Control Panel > Programs > Programs and features > Enable or disable Windows features

Settings for S7Plus or S7Classic connections

To connect to S7 PLCs, the PG/PC must be configured with the correct interface:

1. Open the Control Panel.
2. Select the Filter setting "Display". Small symbols
3. Click "Set PG/PC Interface".
   The window "Set PG/PC Interface" opens.
4. In the window, select the required interface.

Recommendation for the browser

We recommend using a browser of the latest generation, such as Google Chrome, Firefox or Safari. Depending on the browser, there may be minor differences in the display type. You should preferably use 1920x1080 resolution.

Network connection

A network connection must be available, otherwise the SIMATIC Notifier configuration might possibly only display an empty web page.

Installing the newest SIMATIC Notifier Server update

To install the latest SIMATIC Notifier Server Update for Windows, you must first install the SIMATIC Notifier Server for Windows V1.0.
5.4 Licensing and supported devices

Licensing

The licensing concept of the SIMATIC Notifier comprises two types of licenses:

- **Product license for Notifier server (Unlimited Server Licence)**
  
  When downloading the Notifier server, you will receive a product license for the Notifier Server and a client license. In combination with the SIMATIC Notifier app, the license supports the targeted sending of notifications to configured users via WLAN. You can install and start the Notifier server, and set up a single connection (S7 Plus, S7 Classic or OPC UA connection). The license also includes a single client license that you can use multiple times, but with only one smart device at a time.

  This license has nothing to do with the Notifier server configuration. The Notifier server configuration can be started without a license.

- **Additive client licenses for users of the SIMATIC Notifier app (Floating ALM Licence)**
  
  If you want to connect several clients at the same time with the SIMATIC Notifier, you can use the client licenses to add additional clients to the SIMATIC Notifier system as often as needed.

  The client licenses enable the connection of an additional client to the Notifier server. You can increase the number of possible client connections at any time by purchasing individual licenses for additional subscribers. Use the Siemens Automatic License Manager (ALM) to do this.

  Additive client connections cannot be transferred if they are assigned and currently in use.

Releasing existing licenses

A Client license can be released by disconnecting the Client from the Notifier Server.

The Notifier Server license can be released again by stopping the current runtime.

The license is enabled again for reuse two minutes after the connection has been terminated.
Supported devices

The following SIMATIC S7 controllers are supported:

- SIMATIC S7-1500
- SIMATIC S7-1200
- SIMATIC S7-300
- SIMATIC S7-400
- SIMATIC OPC UA

Supported smart devices

On the product homepage of the SIMATIC Notifier, you can find out which smart devices are currently supported.

5.5 Performing the installation

Installation procedure

To install the Notifier server, follow these steps:

1. Purchase the SIMATIC Notifier in the Siemens Mall and download the installation package with the Notifier server via the Online Software Delivery (OSD).
2. Execute the .exe file.
   To set up the configuration of the Notifier server, an administrator must be registered in the user administration.
3. To do this, create a new domain on your PC.
4. Specify the administrator user name and administrator password.
5. Accept the settings that are displayed in the series of dialog boxes.
6. The Notifier server installation routine then sets up the following ports in the Windows firewall:
   - HTTP: 1883
   - HTTPS: 443
   - TIA administrator: 8883

   If your operating system uses a different firewall solution, make sure that the ports are set up accordingly.

   To ensure the encryption of the communication, the connection is established via https:// using an SSL certificate. Since the Notifier server uses self-signed certificates, you must select a certificate for the configuration.

Uninstall procedure

First backup your projects using the export functionality before uninstalling the Notifier server.

Then start the uninstall.
5.6 Defining user roles

Description

In the User management, you can create different user roles to group the users according to their role in the plant. Possible groups are, for example, machine operators, technicians, administrators. In addition, you also specify the smart devices that are used in the plant and assign them to the created user roles. Several smart devices can be assigned to a user role. The notifications are sent to the users according to their role in the plant.

In the user management, you can execute the following actions:

- Add, change and delete user roles
- Define and change passwords
- Add, change and delete administrator user name and administrator password
- Register smart devices
- Assign user roles to smart devices

Procedure

To define a user role, proceed as follows:

1. Open your project in the Notifier configuration.
2. In the project tree, select the "User management".
3. Click the "User roles" tab at the bottom of the screen.
4. Enter a unique name for the user role, such as "Operator".
5. In the "Subscription Filter" column, click the selection button "...".

   The "Configure subscription" window is opened.
6. Create a subscription filter for the respective user role.
7. Click "Save".
8. Select the desired user role and click the "Smart device assignment" tab at the bottom of the screen.

   All registered smart devices are displayed in this tab.
9. In the "Assigned" column, activate the user role for all smart devices that should receive the notifications of this subscription filter.

   In addition, you can also specify extended subscriptions for this user role, with which the desired notifications can be tailored even more precisely to the respective smart device.

Additional information on the advanced subscription filters can be found here: Creating advanced subscription filters [Page 18]
5.7 Creating advanced subscription filters

**Description**

If you not only want to receive notifications of the type "Alert", "Warning" and "Information", but want to customize notifications as well, you can create additional advanced subscriptions.

**Procedure**

To create advanced subscription filters, follow these steps:

1. Select one of the defined user roles in the project tree under "User Management > User roles".
2. Click the "Advanced subscription filters" tab at the bottom of the screen.
   The "Advanced subscription filters" table is displayed for the selected user role.
3. For the various notifications, specify the details you would like to have.
   In addition to the main subscription filter, you can add or clear individual alerts, warnings, and information.

5.8 Start Notifier server configuration

**Requirement**

Installation of the Notifier server is complete and the computer is restarted.

**Description**

In the Notifier Configuration, you set up a project in which you create the connections, the tags and the notifications.

**Procedure**

To create notifications, proceed as follows:

1. Open the Google Chrome browser and enter the following address in the address bar: https://localhost
   The Notifier server opens.
5.9 Creating notifications

5.9.1 Creating a project

Requirements

The Notifier server is started.

Procedure

If you already have a project with a completed plant structure on another computer, then you can also import this one.

To create a project, follow these steps:
1. Open the Notifier Configuration.
2. Log in with your user name and password.
3. Click on "Administration > Manage projects".
4. Click "New project".
5. Enter a project name for the project and optionally specify a description.

   Note
   Change project name
   The subsequent change of project name is not supported by the Notifier server.

6. Click "Create project".
   A new project with the specified name is created and displayed in the project overview.
7. Open the created project.
8. Click "Target Manager".
   The "Manage target systems" window opens.
9. Click "Create new target system".
10. Enter a descriptive name for the target system and optionally a description.
11. Click "Create target system".
   A new target system with the specified name is created.

Result

You have created a project and an associated target system in which you can write notification texts.

   Note
   Number of target systems
   Only one target system can be created per project.
5.9.2 Setting up connections

Description

Three different connection types are available for the Notifier server configuration:

- **S7 Plus for S7-1200/1500 CPUs**
  
  For S7 Plus connections, it may be necessary to enter a password.

- **S7 Classic for S7-300/400 CPUs**
  
  Specify slots and racks for S7 Classic connections.

- **OPC UA**
  
  To establish and maintain a connection between the OPC UA DA server and the Notifier server, the time stamp of the OPC UA server and the Notifier server must match.

  Additional information on setting up a secure OPC UA connection using certificates is available here: [Setting up a secure OPC UA connection](Page 21)

Procedure for setting up a connection

To set up a connection to the CPU, proceed as follows:

1. Open the project.
2. In the project tree below the target system, click "Tags".
3. Click the "Connections" tab.
4. Allocate a name for the connection.

   **Note**
   
   **Special characters in connection name**
   
   Special characters, such as the space, are not supported in the connection name. The underscore can be used as a separator.

5. Select a connection type.
6. Make sure that the check box in the "Disable at startup" is not selected.
7. In the column "Remote station", enter the IP address of the CPU in the network.

Procedure for deleting a connection

To delete a connection to the CPU, follow these steps:

1. Right-click the connection and select "Delete content" in the shortcut menu.

   **Note**
   
   **Effects of deleting a connection**
   
   If you delete a connection, all data and notifications that you have configured for this connection are also deleted.
5.9.3 Setting up a secure OPC UA connection

Description

OPC UA can use secure connections between the client (in the SIMATIC Notifier runtime) and the server. OPC UA verifies the identity of the communication partners in this case. OPC UA uses certificates to authenticate client and server.

Message Security Mode

OPC UA uses the following security policies for protection of messages:

- **No security**  
  All messages are unprotected. To use this security policy, set up a connection to a None endpoint of a server.

- **Sign**  
  All messages are signed. This allows for an integrity check of the received messages. Manipulations are recognized. To use this security policy, set up a connection to a Sign endpoint of a server.

- **Sign and Encrypt**  
  All messages are signed and encrypted. This allows for an integrity check of the received messages. Manipulations are recognized. In addition, no attacker can read the content of the message (protection of confidentiality). To use this security policy, set up a connection to a "Sign and Encrypt" endpoint of a server.

The security policies are also named after the algorithms they are using.

Example: "Basic256Sha256 - Sign and Encrypt" means: Protected endpoint, supports a number of algorithms for 256-bit hashing and 256-bit encryption.
Certificates

There are two different types of certificates:

- **Application Instance Certificate**
  The OPC UA client needs this certificate to communicate with an OPC UA server. This certificate is used in the OPC UA client for each additional OPC UA connection.

- **Trusted Certificate**
  This certificate comes from an OPC UA server and must be known to the OPC UA client.

Requirement

- S7-1500 with OPC UA server or
- Non-Siemens device with OPC UA server
- The "ApplicationURI check" must be disabled on the Notifier server

Procedure

To set up a secure OPC UA connection, follow these steps:

1. Create an OPC UA connection.
2. In the "Tags" tab, display the two columns "SecurityPolicy" and "Authentication mode" by right-clicking the table headings.
   The default settings of the columns are:
   - "Security Policies" = "None"
   - "Authentication Mode" = "Anonymous"
   As of this moment, only encrypted communication is possible over this connection.
4. At the bottom of the screen, enter the desired certificates in the "Connections" tab:
   - Application Instance Certificates can either be selected, if already available, or created.
   - Trusted Certificates can only be selected.
5. Download the project to the Notifier runtime to make the certificates available to the OPC UA client:
   – Application Instance Certificate (for the OPC UA client)
   – Trusted Certificate (from an OPC UA server)

6. As soon as the connection is set up, the certificates are swapped (the OPC UA client transfers the Application Instance Certificate to the OPC UA server; the OPC UA server transfers the Trusted Certificate to the OPC UA client) so that the OPC UA client and the OPC UA server can verify each other.

7. For secure communication to be established, the certificate of the OPC UA client must be stored in the correct directory of the OPC UA server (e.g. "Trusted folder"). You have two options:
   – If the certificate was transferred via connection setup and was previously unknown on the OPC UA server, it is stored in the "Rejected folder" directory, for example. The certificate must be copied manually to the "Trusted folder" directory, for example. If the certificate is not marked as trusted, the connection is usually rejected.
   – The certificate of the OPC UA client can be stored on the OPC UA server directly in the "Trusted folder" directory, for example, by using an external data storage medium.

Result

Secure communication between OPC UA client and OPC UA server is now possible.
5.9.4 Create tags

Description

You can create numeric tags that trigger notifications on the basis of the connections that have been set up.

Procedure for creating a tag

You can also export the tags from the TIA Portal or from a non-Siemens device and import them into the Notifier server.

Additional information on importing tags can be found here: Importing tags (Page 31)

To create tags, proceed as follows:

1. In the project tree below the target system, click "Tags".
2. Click on the "Tags" tab.
3. Allocate a name for the tag.
4. Select a data type.
   Additional information about the supported data types can be found here: Supported data types (Page 35)
5. Configure the properties of the tag, such as connection type, address, cycle, limits, etc.
   Additional information on addressing tags can be found here: Addressing tags (Page 25)

Procedure to delete a tag

To delete a tag, follow these steps:

1. Right-click the tag and choose select "Delete content" in the shortcut menu.

Note

Effects of deleting a tag

When you delete a tag, all data and notifications that you have configured for that tag are also deleted.
5.9.5 Addressing tags

Description

The options available for addressing tags depend on the type of connection between the Notifier server and the respective CPU. The tags are addressed as follows according to connection type:

- **S7 Plus connection:**
  with symbolic addresses from the corresponding data block

- **S7 Classic connection:**
  with STEP 7 tag addresses from the data block of the STEP 7 project

- **OPC UA via the corresponding connection type:**
  With predefined attributes and identifier values, e.g. "V:1$DA$ns=1;s=1.710.1.0.0.0|36".
  - V1 = OPC UA version
  - DA = data access
  - ns = namespace index
  - s = STRING identifier type

**Note**

**Port for the connection type OPC UA**

Make sure that the port of the connection address for the connection type OPC UA is also changed accordingly.

For convenient access to the required identifiers by OPC UA tags, we recommend the free application UAExpert Server from Unified Automation.

Additional information about this application and about importing OPC UA tags can be found here:


**Procedure for addressing tags via S7 Plus connections**

To address tags via S7 Plus connections, follow these steps:

1. In the column "Address" (Address), enter the symbolic address of the corresponding tag.
Procedure for addressing tags via S7 Classic connections

To address tags via S7 Classic connections, follow these steps:

1. In the column "Address", enter the absolute address of the corresponding tag. The exact absolute address can be found in the corresponding data block of the STEP 7 project.

Procedure for addressing tags via OPC UA connections

To address tags via OPC UA connections, follow these steps:

1. Enter the address string in the "Address" column.

2. Add a new server under "Project/Server > Server settings" and set up the connection under "Endpoint URL" (local host or PC name on VMs, port 4890).

3. Establish the connection with the server.
   When the Certificate Validation dialog box appears, click "Trust Server Certificate".

4. In the window "Adress Space", open the entry "Open Tree Root/Objects/HmiRuntime/Runtime_1/Tags/".
   A list of all created OPC UA tags is displayed.

5. Select the first internal tag to make it visible on the right.

6. Set the address attribute of the external tag to the identifier value of the selected internal tag. To do this, enter the identifier value in the corresponding cell of the Notifier Server window.

Example: "V:1$DA$ns=3;s=1.710.1.0.0.0|36"
5.9.6 Creating notifications

Description
You can create multiple notifications for each tag. You can assign a notification type (alert, warning or information) and conditions to each individual notification.

Once you have created a notification for a tag, you cannot change its data type afterwards.

Recommendations for creating notifications
Note the following recommendations for creating notifications:

● Keep the notification text short and understandable
  Keep in mind that the space on a smartwatch display is limited. Depending on the font and size, approximately 75 characters can be displayed simultaneously in the notification view. The remaining text is truncated and three dots appear at the end of the displayed text. You can display the entire notification text by tapping the notification.

● Plan the notifications according to the plant structure
  For large plants, it is advisable to plan the notifications for the different stations of the plant differently. If you assign only the relevant notifications to the individual user roles, you develop an efficient notification concept.

● Use standardized notification texts
  When creating and assigning by notifications, you can also use preconfigured notifications. If you save your user-defined notification texts in the project resources and use these for notifications of other tags, you will achieve standardization of the texts.

Requirements
The following requirements must be met before you can create notifications in the Notifier server configuration:

1. You have created a project.
  Creating a project (Page 19)
2. You have set up the necessary connections.
  Setting up connections (Page 20)
3. You have created and addressed the tags on the basis of which the notifications are to be created.
  Create tags (Page 24)
  Addressing tags (Page 25)

Procedure
To create notifications, proceed as follows:

1. In the project tree under "Tags > External tags > Tab: Tags", select the desired tag on the basis of which a notification is to be created.
2. Click on the "Notification" tab at the bottom of the screen.
   The notification table for the selected tag opens.
3. In the first empty row, specify a name for the notification you want to create. A new notification is created.

4. Select the desired notification type:
   - "Alert" = Notifications with highest priority
   - "Warning" = Notifications with medium priority
   - "Information" = Notification with low priority

5. In the "Condition pattern" column, enter the condition that triggers the notification. Different conditions are available depending on the data type of the respective tag.

   **Note**

   **Conditions for a tag of the Bool data type**
   For tags of the Bool data type, you can enter the values "0" and "-0" as follows:
   - "False" > "True": 0
   - "True" > "False": -0

6. Enter a text in "Notification text". Alternatively, you can select a preconfigured notification text from the select dialog box by clicking the "..." selection button.

   **Note**

   **Other languages**
   The input of text in other languages, such as Chinese, is also supported for the notification texts. (UTF-16 characters)
5.9.7 Downloading project to Notifier runtime

Description
When you have finished creating your project, download it to the Notifier runtime.
Only one project can be loaded at the same time.

Procedure
To load a project into a device, follow these steps:
1. In the project tree, select the target system.
   The "Management" overview is displayed.
2. In the "Operations" menu, click "Full download".
   The status of the download is displayed.

Result
The project was downloaded to the Notifier runtime.

5.9.8 Exporting and importing a project

Description
You can also export the data of your project, edit it externally and re-import it into your computer or another computer using Notifier server.
The file format for export and import is .ESP.

Procedure for exporting a project
To export a project, proceed as follows:
1. Click "Start > Administration > Manage projects".
2. Select the check box for the project whose data you want to export.
3. Click the "Export project" icon.

   ![Image](image1.png)
   
   The "Export project" dialog box appears.

4. Click "Start export".

5. Click "Download" and save the project after exporting it to a local folder.

**Procedure for importing a project**

To import a project, proceed as follows:

1. Click "Start > Administration > Manage projects".

2. Select the check box for the project into which you want to import data.

3. Click the "Import project" icon.

   ![Image](image2.png)

4. Select the project via the "Browse" dialog box.

5. Click "Start import".
5.9.9 Importing tags

Description

You can export S7 tags and OPC UA tags from TIA Portal or from non-SIEMENS devices and re-import them in the Notifier server.

The following figure shows on the left side the export and import of S7 tags and OPC UA tags from TIA Portal using the SIMATIC SCADA Export tool, and on the right side the export and import of OPC UA tags from non-SIEMENS devices using the OpcUaExporter.exe tool:

You can find a description of how to export tags from TIA Portal in the online documentation of TIA Portal.
Procedure for importing OPC UA tags

To import OPC UA tags from TIA Portal or from non-SIEMENS devices, follow these steps:

1. Open the Windows command prompt by pressing the Windows key + R key and typing "cmd".

2. Using the Windows command prompt, navigate to the OpcUaExporter.exe file.
   In the default Notifier server installation, this path should be "C:/Programme/Siemens/Automation/WinCCUnified/bin".

3. Using OpcUaExporter.exe:
   ```
   OpcUaExporter -s <Server-URL> -o <File path> {-u <User name>} {-p <Password>} {-po <Policy> -m <Mode>}
   ```

   **Note**
   Do not output user name and password in plain text
   To hide the user name and password in the Windows Task Manager during the export, use the following syntax as alternative:
   ```
   Echo -s <Server-URL> -o <File path>{-u <User name>} {-p <Password>} {-po <Policy> -m <Mode>} | OpcUaExporter
   ```

   - More information about the API command: > OpcUaExporter.exe
   - Example for the syntax when Policy and Mode are = "None":
   ```
   echo -s opc.tcp://172.16.21.67:4846 -o D:\OpcTags.xml -po None -m None | OpcUaExporter
   ```

4. After the successful export, open the Notifier server configuration.
5. In the Configuration you have to set up a corresponding OPC UA connection.
6. Right-click the "Connection" tab in the target system into which you want to import the tags.
7. Select "Load server elements".

8. Import the resulting XML file:

9. From the tab, select the tags you want to use:

Procedure for importing S7 tags

To import S7 tags (Classic or Plus) from TIA Portal, proceed as follows:

1. First, you have to download and install the SIMATIC SCADA Export tool. It must be installed on the same computer on which TIA Portal is already installed.

   You can download the tool here:
   SIMATIC SCADA Export for TIA Portal

2. Right-click the configured device in TIA Portal and select "Export to SIMATIC SCADA" in the shortcut menu.

   S7 Classic and S7 Plus tags are exported from TIA Portal to a ZIP file.

3. Then set up the corresponding S7 Classic or S7 Plus connections in the Notifier server configuration.
4. Right-click the "Connection" tab in the target system and select "Load TIA file" (Load TIA file) from the shortcut menu.

5. Import the resulting TIA ZIP file:
### 5.9.10 Supported data types

#### Description

The following table shows the data types supported by the Notifier server:

<table>
<thead>
<tr>
<th>Data type</th>
<th>Value range</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOOL</td>
<td>0 (FALSE), 1 (TRUE)</td>
</tr>
<tr>
<td>BYTE</td>
<td>Signed integers: -128 To +127</td>
</tr>
<tr>
<td></td>
<td>Unsigned integers: 0 to 255</td>
</tr>
<tr>
<td>WORD</td>
<td>Signed integers: -32_768 To +32_767</td>
</tr>
<tr>
<td></td>
<td>Unsigned integers: 0 to 65_535</td>
</tr>
<tr>
<td>DWORD</td>
<td>Signed integers: -2_147_483_647 To +2_147_483_647</td>
</tr>
<tr>
<td></td>
<td>Unsigned integers: 0 to 4_294_967_295</td>
</tr>
<tr>
<td>LWORD</td>
<td>Signed integers: -9_223_372_036_854_775_808 To +9_223_372_036_854_775_807</td>
</tr>
<tr>
<td></td>
<td>Unsigned integers: 0 bis 18_446_744_073_709_551_615</td>
</tr>
<tr>
<td>SINT</td>
<td>-128 to +127</td>
</tr>
<tr>
<td>INT</td>
<td>-32_768 To +32_767</td>
</tr>
<tr>
<td>DINT</td>
<td>-2_147_483_648 bis +2_147_483_647</td>
</tr>
<tr>
<td>LINT</td>
<td>-9_223_372_036_854_775_808 bis +9_223_372_036_854_775_807</td>
</tr>
<tr>
<td>USINT</td>
<td>0 to 255</td>
</tr>
<tr>
<td>UINT</td>
<td>0 to 65_535</td>
</tr>
<tr>
<td>UDINT</td>
<td>0 to 4_294_967_295</td>
</tr>
<tr>
<td>ULINT</td>
<td>0 bis 18_446_744_073_709_551_615</td>
</tr>
<tr>
<td>REAL</td>
<td>-3.402823e+38 bis -1.175495e-38 ±0,0 +1.175495e-38 bis +3.402823e+38</td>
</tr>
<tr>
<td>LREAL</td>
<td>-1.7976931348623157e+308 bis -2.2250738585072014e-308 ±0,0 +2.2250738585072014e-308 bis +1.7976931348623157e+308</td>
</tr>
</tbody>
</table>
Registering and setting smart devices

6.1 Wear OS Smartwatch: Establishing a connection to the Notifier server

Description

To set up a connection from the smartwatch to the Notifier server, the smartwatch must be registered on the Notifier server using the Notifier ID.

Note

Disabling Bluetooth

An enabled Bluetooth function on the smart device can cause connection problems in the WLAN.

Therefore, disable the Bluetooth function again after configuring the smartwatch. Make sure that the Bluetooth function is still deactivated after a restart.

Requirement

You have installed the following apps from the Google Play Store on a smartphone/tablet and opened them:

- Wear OS by Google => This app synchronizes the smartwatch and the smartphone/tablet. You can use this app to configure the smartwatch via Bluetooth.
  - Set up now
  - Accept terms and conditions
  - Connect smartwatch
- Installation of the SIMATIC Notifier app on the smartwatch

Procedure for setting up a connection

To configure a connection to the Notifier server, follow these steps:

1. In the open Notifier app, click on "Settings".
2. To open the menu of the Notifier app, swipe down from the top of the screen.
3. Tap on the menu command "Notifier ID".
   A unique six-digit Notifier ID is automatically generated and displayed.

4. Open your project in the Notifier server configuration.
5. In the project tree, select the "User management".
6. Maximize the "Smart Devices" tab at the bottom of the screen.
7. Enter a name, the unique six-digit hexadecimal Notifier ID of the smartwatch and one of
   the defined user roles.
   
   If the unique Notifier ID has already been registered for another smart device in the
   Notifier server configuration, generate a new unique Notifier ID by clicking the "Refresh
   Notifier ID" button.

   Only notifications that are linked to this user role are received by this smartwatch.

---

**Note**

**Name of a smartwatch**

Only the first three characters of the device name can be displayed on a smartwatch.
Define easily recognizable and unique initials for the users, so that it is quickly
recognizable who has accepted a notification. For example, you can specify three letters
as initials in the first place and append the complete name to them, such as
EvM_EvaMueller.
6.1 Wear OS Smartwatch: Establishing a connection to the Notifier server

8. Tap on the menu command "Connection".
9. Enter the IP address of the Notifier server in the smartwatch and tap on "Connect".

To enter a number, scroll up or down in the respective field. The Notifier server establishes a connection to the smartwatch and shows the associated device in the Notifier configuration.

If the connection between the smartwatch and the Notifier server was successful, the icon will have a green background.

---

**Note**

**Reinstallation of the Notifier server**

When the Notifier server is reinstalled, all smartwatches must be registered again using the Notifier ID.

---

**Note**

**Reinstallation of the Notifier app**

After reinstallation of the Notifier app, a new device ID is assigned and the connection to the Notifier server must be reconfigured.

---

**Procedure for restoring the connection**

If the connection to the Notifier server was disconnected for two minutes, e.g. due to a stay outside the WLAN range, you will be informed of the connection loss by an alert.

To restore the connection to the Notifier server, follow these steps:

1. Call the navigation list by swiping the upper margin of the display.
2. Tap on the menu command "Connection".
   The IP address of the Notifier server is displayed.
3. Click "Reconnect".
   The connection is restored.

If no connection is available, a pop-up alert appears. Tap the alert to open the connection view.
### Procedure for terminating the connection

To terminate the connection to the Notifier server again, proceed as follows:

1. Call the menu by swiping down from the top of the display.
2. Tap on the menu command "Connection".
   The IP address of the Notifier server for the current connection is displayed.
3. Click "Disconnect".
   The connection to the smartwatch is terminated, all notifications are removed and another registered smart device can establish the connection under the same client license.
6.2 Wear OS Smartwatch: Setting up connection in Demo mode

Description

You can use the Demo mode to test the Notifier functions without additional hardware. Demo mode can only be selected when the smartwatch is not connected to the Notifier server.

Procedure

To use Demo mode, follow these steps:

1. Tap on the menu command "Demo connection".
   - "Tap mode": Random notifications are generated in this mode when you tap in the center of the start screen.
   - "Timer mode": Random notifications are generated every 10 seconds in this mode.

All generated Demo notifications are automatically deleted after two minutes.

Note

Existing notifications

All existing notifications are deleted from the smartwatch in Demo connection mode.
6.3 Wear OS Smartwatch: Using connection diagnostics (HealthCheck)

Description
Using connection diagnostics (HealthCheck) you can quickly and easily check the current status of the connection between the Wear OS Smartwatch and the Notifier Server.

You do not require a license, a connection to CPU, or configured tags for the connection diagnostics (HealthCheck).

Depending on the current status of the connection, you receive the following information:
- Accessibility of the Notifier server.
- Bluetooth function on/off
- WLAN name
- WLAN strength (low, middle high)
- Version of the Notifier server
- Version of the Notifier client

Requirement
You require the IP address of the Notifier server.

Procedure
To use the HealthCheck function, proceed as follows:
1. Open the "Connection" menu.
2. Enter the IP address of the Notifier server.
3. Tap the "HealthCheck" icon.

The first time the Notifier App is opened, the following "Allow Notifier to access the location of this device?" message appears.

The request for the location is required, to receive the following information on the WLAN connection:
- WLAN SSID name
- WLAN strength

Result
All available information is displayed on your smartwatch.
6.4 iPhone/iPad: Setting up and terminating a connection to the Notifier server

Description

To set up a connection from the mobile device to the Notifier server, the mobile device must be registered on the Notifier server using the Notifier ID.

Note

Observe the security precautions

By default, the Notifier app is not protected by a password for easy and quick access to the notifications. Therefore, be sure to observe all security precautions that ensure the safe operation of your mobile device.

You can find additional information on the security precautions here: Security precautions on the smart device (Page 50)

Requirement

You have downloaded the SIMATIC Notifier app from the Apple Store and opened it on your mobile device.

Procedure for setting up a connection

To set up a connection to the Notifier server, follow these steps:

1. In the opened SIMATIC Notifier app, click "Add connection".

   The window "Connect with Notifier server" opens.

2. Click on "Enter mobile device registration data".

   The "Enter local notifier registration data" window opens. A unique six-digit Notifier ID is automatically generated and displayed.

   ![Enter local notifier registration data](image-url)
3. Open your project in the Notifier server configuration.
4. In the project tree, select the "User management".
5. Maximize the "Smart Devices" tab at the bottom of the screen.
6. Enter a name, the unique six-digit hexadecimal Notifier ID of the smart device and one of the defined user roles.
   If the unique Notifier ID has already been registered for another smart device in the Notifier server configuration, generate a new unique Notifier ID by clicking the "! > Generate Notifier ID" button.
   Only notifications that are linked to this user role are received by this smart device.
7. Enter the IP address of the Notifier server in the smart device.
8. Click "Save".
   Once the connection is established, the connection details are displayed in the menu under "Account information".

**Note**

**New installation**

After a new installation of the SIMATIC Notifier app, a new Notifier ID is assigned and the connection with the Notifier server must be reconfigured.

**Procedure for the restoring the connection**

If the connection to the Notifier server was disconnected for two minutes, e.g. due to a stay outside the WLAN range, you will be informed of the connection loss by an alert.

To restore the connection to the Notifier server, follow these steps:
1. Call the navigation list by swiping the upper margin of the display.
2. Tap on the menu command "Connection".
   The IP address of the Notifier server is displayed.
3. Click "Reconnect".
   The connection is restored.

If no connection is available, a pop-up alert appears. Tap the alert to open the connection view.
Procedure for terminating the connection

To terminate the connection to the Notifier server again, proceed as follows:

1. Go to the menu item "Account information".
   
   The IP address of the Notifier server for the current connection is displayed.

2. Click "Disconnect".
   
   The connection to the smart device is terminated, all notifications are removed and another registered smart device can establish the connection under the same client license.
6.5 iPhone/iPad: Setting up and terminating a connection to MindSphere

Description

You can set up a connection to MindSphere from the SIMATIC Notifier app on your smartphone. By setting up this connection, new notifications are displayed as push notifications on your smartphone and you can view and accept them directly on the smartphone.

The SIMATIC Notifier app displays all notifications that you can see in the MindSphere Notifier app under "My Notifications".

Note

Observe the security precautions

By default, the Notifier app is not protected by a password for easy and quick access to the notifications. Therefore, be sure to observe all security precautions that ensure the safe operation of your mobile device.

You can find additional information on the security precautions here: Security precautions on the smart device (Page 50)

Requirement

You have downloaded the SIMATIC Notifier app from the Apple Store and opened it on your mobile device.

You have assigned the following user roles to the user in the settings for MindSphere:

- Notifier: User or Admin (access to Notifier MindSphere app for the user)
- Notifiemobileaccess:mobileuser (access to Notifier from a smart device via SIMATIC Notifier app)
Procedure

Proceed as follows to set up the connection:

1. Click "Choose a connection type".

The connection type selection window opens.

![Choose a connection type window]

- **Local**
  Establish a connection to a Notifier Server running in your local WiFi.

- **Mindsphere**
  Establish a connection to a Mindsphere tenant.
2. Click "MindSphere".
   A window for entering the tenant name opens.

3. Enter the name of the tenant to which you want to connect.

4. Click "Save".
5. Enter the user name and password of your MindSphere account.

![Sign In Screen]

6. Click "Log on".

On your first login to MindSphere, you will be asked to activate the push notifications on your mobile phone. This ensures that you will see the notifications directly on your mobile device.
Procedure for disconnecting a connection

Proceed as follows to terminate the connection:

1. Under "Settings > Connection", click "Disconnect".

   The connection between the smart device and MindSphere is disconnected immediately.

---

**Note**

**Disconnecting the connection in the MindSphere app**

If you disconnect the connection to a smart device in the MindSphere app by clicking on the recycle bin icon in the user administration, it can take several hours for the disconnection to become effective.

---

**Result**

You have successfully connected to MindSphere via the SIMATIC Notifier app and all existing notifications are displayed in the overview.
6.6 Security precautions on the smart device

Description

Please note the following information on server security:

- To prevent unauthorized connection attempts, do not pass the smart device's Notifier ID to unauthorized persons.
- If it is possible that the Notifier ID has been passed on, ask the administrator to delete the entry for the smart device and to reset the smart device to factory settings to obtain a new Notifier ID. Then register the smart device again as a new device.
- If you are not carrying the smart device, store it in a safe place to prevent unauthorized access.
- Be careful when using the SIMATIC Notifier on your smart device.

Password protection

To protect the data against unauthorized access, the SIMATIC Notifier app can be protected with a password in the settings.

Note

Biometric authentication

For the SIMATIC Notifier app, biometric authentication can also be used if the following requirements are met:

- The smart device supports every type of biometric authentication.
- Biometric authentication is activated in the smart device.
- Function "Use startup password" is enabled.

If the biometric authentication fails, the app's password serves as a substitute security mechanism.

Resetting the password

If no access to the app is possible or an incorrect password has been entered several times, the password can be reset.

⚠️ WARNING

Data is deleted

However, when the password is reset all data in the app is deleted and the connection to the server is disconnected.
Using smart devices

7.1 General operating instructions

For the smartphone/tablet

| Back | If you want to return from the current screen to the previous screen, swipe from left to right. |

For the smartwatch

| Back | If you want to return from the current screen to the previous screen, swipe from left to right. |
| Open menu | To open the menu, swipe down from the top of the display. |
| Browsing notifications | 1. Open the menu by swiping down from the top of the display.  
2. Tap on "Overview".
   
The overview list displays all received notifications in chronological order regardless of their priority.
3. Swipe down to view the next notification. Swipe up to view the previous notification.
4. You open the detailed view by tapping the notification.
5. Swipe left to return to the list from the detailed view. |
| Number of notifications | A smartwatch can store up to 100 notifications. When this number is exceeded, the oldest notification is deleted from the list so that new notifications can be received. The oldest notifications are deleted regardless of their status or type. |
7.2 Wear OS Smartwatch: Managing notifications

Start screen

The start screen of the SIMATIC Notifier app provides an overview of the pending notifications and allows access to several functions of the app:

The start screen consists of the following areas:

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>The last incoming notifications are displayed ranked by priority in the area for pending notifications. These notifications have not yet been accepted or deferred.</td>
</tr>
<tr>
<td>2</td>
<td>Time display and start area in Demo mode</td>
</tr>
<tr>
<td>3</td>
<td>Shows how many notifications of the type &quot;Information&quot; have been received.</td>
</tr>
<tr>
<td>4</td>
<td>Shows how many notifications of the type &quot;Warning&quot; have been received.</td>
</tr>
<tr>
<td>5</td>
<td>Shows how many notifications of the type &quot;Alert&quot; have been received.</td>
</tr>
</tbody>
</table>
Notification view

You can read the entire notification in the notification view:

Each notification consists of the following elements:

- Unique identification number
- Icon for the notification type
- Time of occurrence
- Notification text

Three dots at the end of the notification text means that the text cannot be displayed completely. When you tap the notification, you see the full text.

- Icon for resetting notifications of the type "Alert" and "Warning".
- Icon for accepting a notification

Menu

You can show the menu by swiping down from the top of the display.

- Under "Overview", all notifications are displayed in the order in which they were received regardless of their priority.
- Under "Alerts", all notifications of the category "Alert" are sorted first by activity and then chronologically.
Using smart devices

7.2 Wear OS Smartwatch: Managing notifications

- Under "Warnings", all notifications of the category "Warning" are sorted first by activity and then chronologically.
- Under "Information", all notifications of the category "Information" are displayed.
- Under "Notifier ID", the individual ID of the Notifier client is displayed that is required when setting up the server.
- "Connection" enables the connection to the Notifier server (IP address).
- Under "Legal", you can call up the remaining information for the app, for example, the copyright notice, the privacy policy, etc.
- In Demo connection mode, you will receive notifications for two minutes.

Active notifications

The notifications that you have not yet viewed and that other users have not accepted remain in the respective stack under the notification icon in the start screen. Notifications are first sorted by severity and then in order of occurrence.

Tap the pop-up alert to display the latest notification. If it is accepted or deferred, it is removed from the stack.
7.3 iPhone/iPad: Managing notifications

Start screen

The start screen of the SIMATIC Notifier app provides an overview of the pending notifications and allows access to several functions of the app:

The start screen consists of the following areas:

1. The currently incoming notifications are displayed in the area for pending notifications.
   - These notifications have not yet been accepted or deferred on this client.
   - These notifications have already been read, and the underlying event has been resolved.
   - Tap on the notification to open it.

2. Taskbar with the following items:
   - Notifications - the number of new notifications is displayed in the corner of the icon
   - Assigned - opens the overview of the assigned notifications
   - Settings - opens the menu with the settings

3. Here you can filter the notifications by severity: Alert, warning or information.
Using smart devices
7.3 iPhone/iPad: Managing notifications

Here you can sort the notifications according to the following criteria:
- Date ascending - shows the oldest notification first
- Date descending - shows the most recent notification first
- Active - shows the active notifications first
- Resolved - shows the resolved notifications first

Opens the "Settings" menu.

Notification view

You can read the entire notification in the notification view:

Each notification consists of the following elements:
- Icon for the type of notification
- Unique notification ID
- Date and time of occurrence of the notification
- "Accept" button (Accept) for notifications of the type "Alert" and "Warning".
- Notification text
"More" (more) at the end of the notification text means that the text cannot be displayed completely. When you tap the notification, you see the full text.

---

**Note**

**Closing the SIMATIC Notifier app**

Note that all notifications received on your smart device will be deleted after the app is closed. To ensure smooth operation, it is therefore recommended not to close the app.

---

**Note**

**Font size**

The SIMATIC Notifier app is optimized for the default text size in iOS. Note that increasing the font size on the iOS smart device can cause the characters to overlap.

---

**Active notifications**

The notifications that you have not viewed until then and that other users have not accepted remain in the stack of the notification icon at the top of the display. Notifications are first sorted by severity and then in order of occurrence.

Tap the pop-up alert to display the most recent notification. If it is accepted or deferred, it is removed from the stack.
7.4 Accepting notifications

**Introduction**

By accepting a notification, you are telling other users that you are responsible for accepting it and that you are taking care of the problem that caused the notification. The acceptance is possible for notifications of the type "Alert" and "Warning". Notifications of the type "Information" can only be read. The acceptance is communicated to other users in the same network and can be viewed in the list of notifications. Active notifications that have been accepted by other users are displayed in gray font. Accepted information is no longer displayed on the start screen.

**Note**

**Accepting notifications**

The acceptance of a notification is not reported back to the system and does not constitute an acknowledgment.

**Note**

**Undo accept**

It is not possible to undo the acceptance of an alert or a warning.

**Procedure on a Wear OS Smartwatch**

To accept a notification, follow these steps:

1. Open the notification by tapping it.
2. Tap the icon.

As soon as the notification has been accepted, you will see a green user icon. This allows other users to see that the notification has been accepted.

The accepted notifications are no longer contained in the counter value for the active notifications on the start screen.

Procedure on an iPhone/iPad

To accept a notification, proceed as follows:
1. Open the notification by tapping it.
2. Tap on "Accept" (Accept).

As soon as the notification has been accepted, an icon with the user name appears in the detailed view. This allows other users to see who has accepted this notification.

The accepted notifications are no longer contained in the counter value for the active notifications on the start screen.
7.5 Deferring notifications

Introduction

By deferring a notification, the user indicates that he/she cannot currently actively participate in resolving the problem in question. The deferred notifications are no longer contained in the stack of notifications on the start screen. They are, however, contained in the counter value for the active notifications. When a notification is deferred, unlike with acceptance, the notification is only closed and is considered read. The other users in this user group will not be informed about the reset.

Notifications of type "Information" can only be confirmed as read, but not deferred.

Procedure on a Wear OS Smartwatch

To reset a notification, proceed as follows:

1. Tap the icon.

Procedure on an iPhone/iPad

To reset a notification, proceed as follows:

1. Close the detailed display of the notification by swiping the screen from left to right.

Result

The notification is closed and marked as read.
8.1 Example of an application

Description

The Siemens Industry Online Support contains a detailed application example for SIMATIC Notifier:

SIMATIC Notifier - Direct notifications for smart devices

8.2 Related links

Description

Additional information about the SIMATIC Notifier can be found here at Siemens:


- Contact
- Support
- Product news
- Videos
  - SIMATIC Notifier trailer (https://www.youtube.com/watch?v=ydb_0JU0DE&feature=youtu.be)
  - SIMATIC Notifier video (https://www.youtube.com/watch?v=wqBGl5GH540&t)
- Areas of application
8.2 Related links

Siemens Industry Online Support
You can find additional information at Siemens Industry Online Support [https://support.industry.siemens.com/cs/ww/en/view/84133612] on:

- FAQs
- Technical articles
- SITRAIN Courses
- etc.

In the Apple App Store

![Download on the App Store](https://via.placeholder.com/150)

In the Google Play Store

![GET IT ON Google Play](https://via.placeholder.com/150)