Two-Factor Authentication

Two-factor authentication adds an extra layer of security and **prevents access to your users' session even if someone knows their password**.

A combination of two different factors is used to achieve a greater level of security:

1) something they know, **a password**.
2) something they have, a **device - such as a smartphone - with an authentication app installed.**.

You can use one of the following authenticator apps to proceed. These apps are available across a wide range of platforms:
- Authy
- Google Authenticator
- Microsoft Authenticator

Each time a user sign in to its remote session it will need its password and a verification code available from its mobile phone. Once configured, the authenticator app will display a verification code to allow him or her to log in any time. It works even if its device is offline.

OR you can decide to receive verification codes by **SMS**. In this case, you will have to create a free account on Twilio.

Two-factor authentication is available with **HTML5 and Remoteapp connections on remote-work Web portal only**, on **remote-work Mobile Web and Enterprise Editions**. This authentication mode does not support login through Remote Desktop client.

**In order to provide an even safer solution, RDP connections are denied for 2FA enabled users.**

As a prerequisite, remote-work server and Devices must be on time. See the Time Synchronization and Settings sections for more configuration information.

Activating the Two-factor Authentication Add-On License

The Two-Factor Authentication feature can be found on the Add-On tab of the AdminTool:
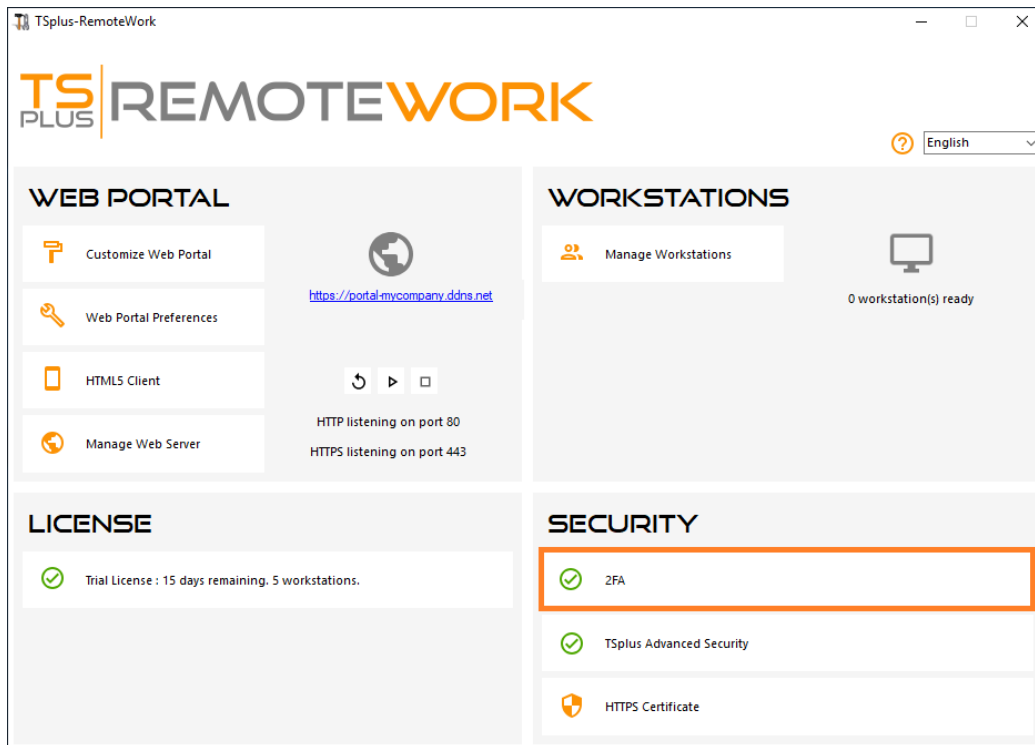
To activate your license, copy the serial number you can find at the bottom of the Home tile:
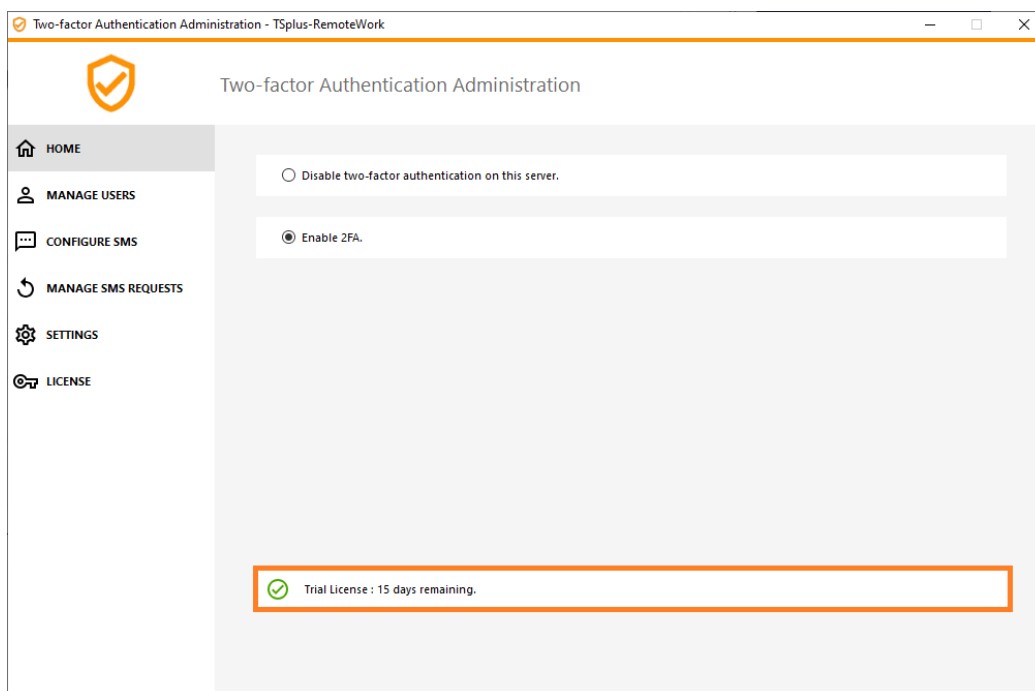
Then, connect to our Licensing Portal and enter your Order Number, your e-mail address, Serial Number and select "Two-Factor Authentication" on the dropdown list below:

You will get your license.lic file. Then, go to the *License* tab and cick on the "Activate your license" button:
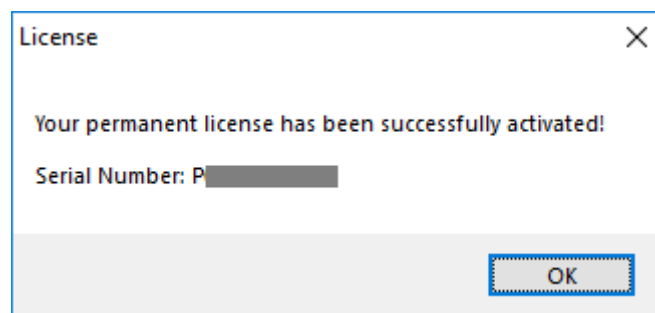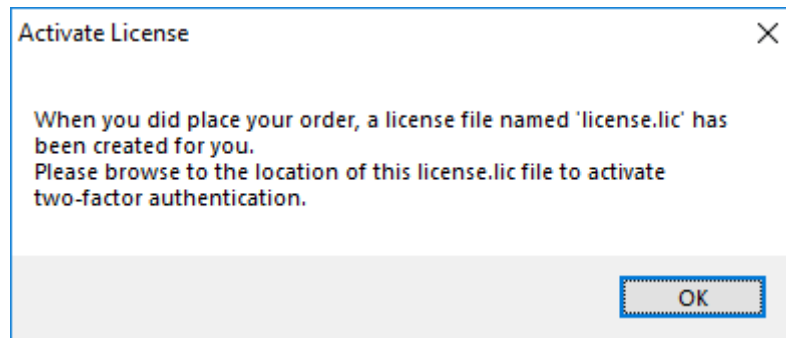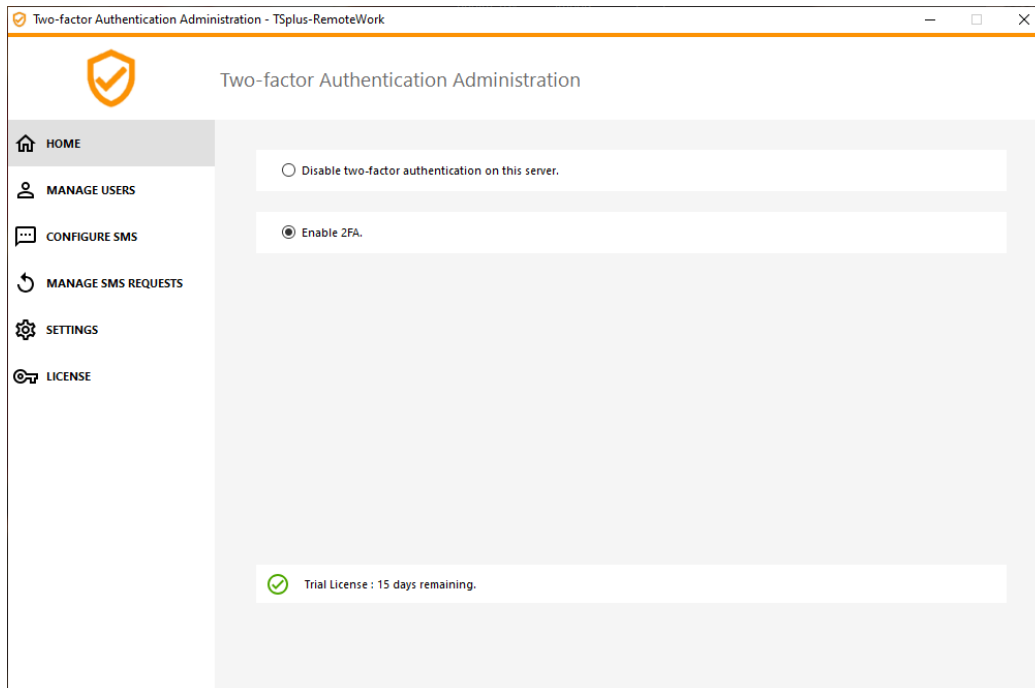
Enable Two-factor Authentication

Perform the following steps to enable two-factor authentication for your remote-work server or deployment. If your remote-work deployment is configured to use multiple servers, perform this task on the remote-work server exposed as the single point of entry for users or having the reverse proxy role.

1) Open the two-factor authentication administration application. The two-factor authentication status and the license status are displayed:
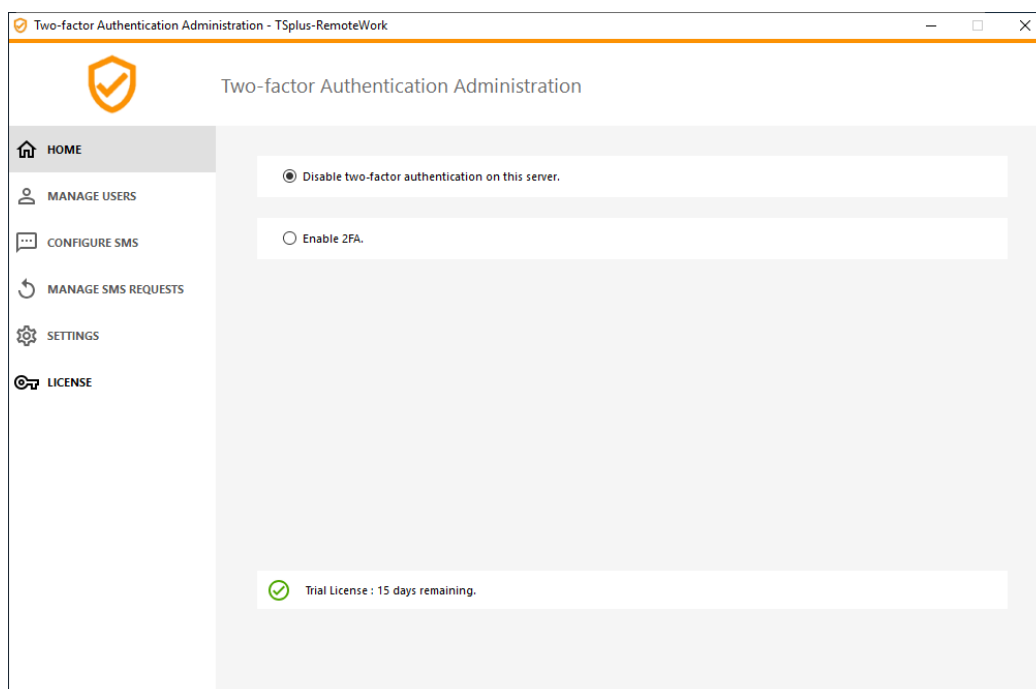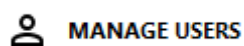

By default, 2FA is disabled.
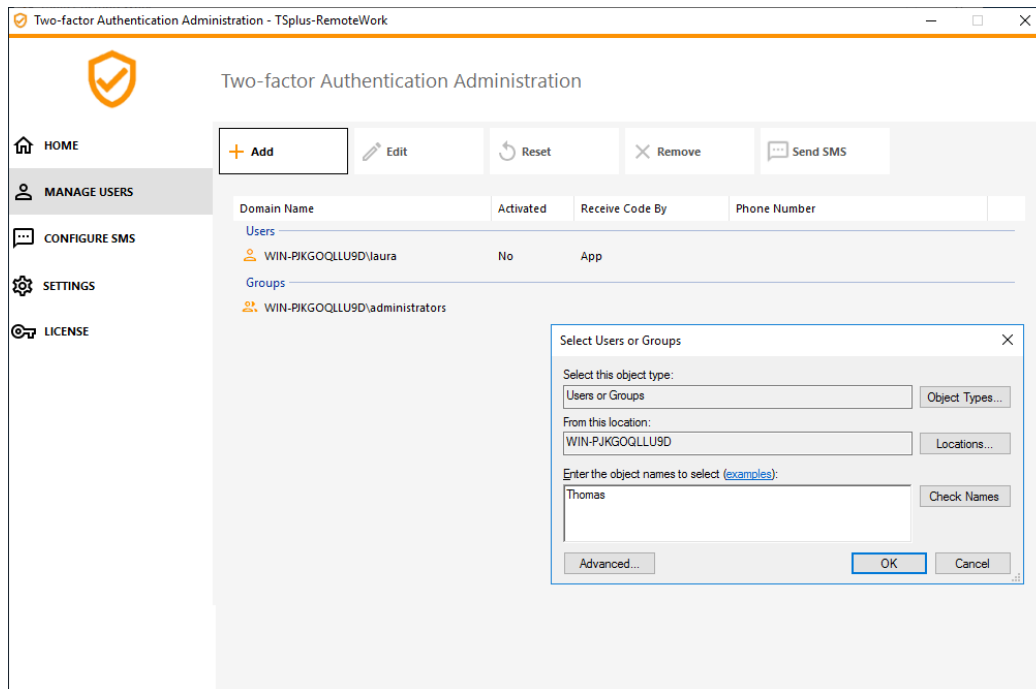
Enable it:

Add Users and Groups

Once two-factor authentication is enabled, you can configure users for two-factor authentication.

1) From the two-factor authentication administration application, click on the *Manage Users* tab.


2) Then, click on *Add* to select users and/or groups of users. The *Select Users or Groups* box opens.

3) Add as many users and groups as required and then click *OK*. The users and groups are added to the list and enabled for two-factor authentication.

Edit Users

On the same tile, you can edit the way users receive verification codes by selecting a user and clicking on the "Edit" button:
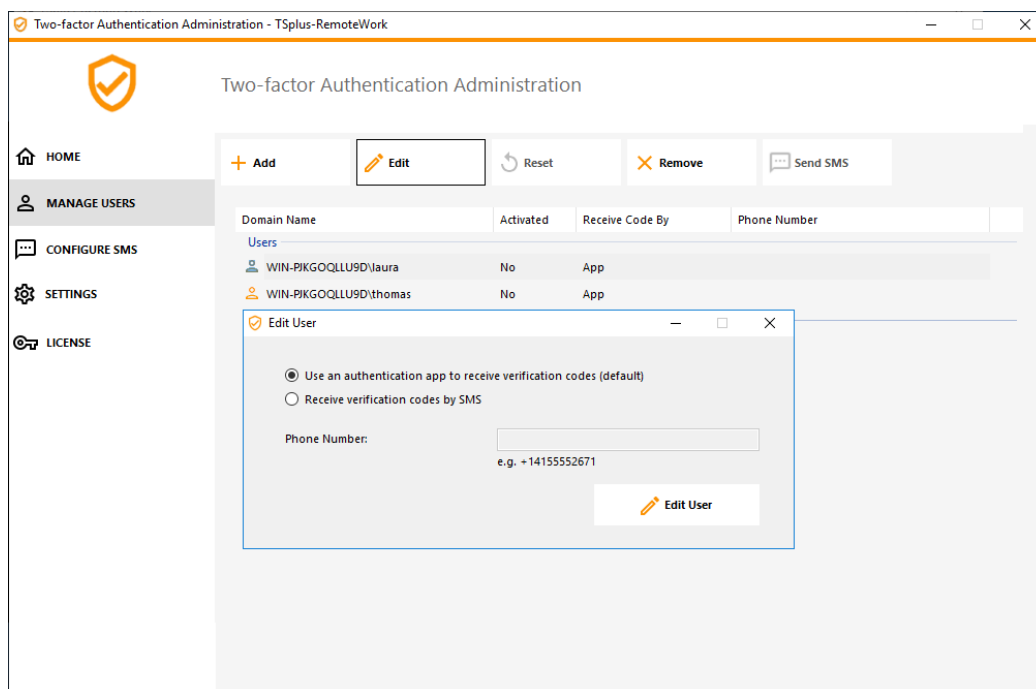
The user receives verification codes on the authentication app by default. You can choose that he/she receives it by SMS by selecting the option and adding the user's phone number on the field below.

Remove Users and Groups

In order to remove users or groups, select the user or the group and then click on *Remove*. A confirmation message is displayed.
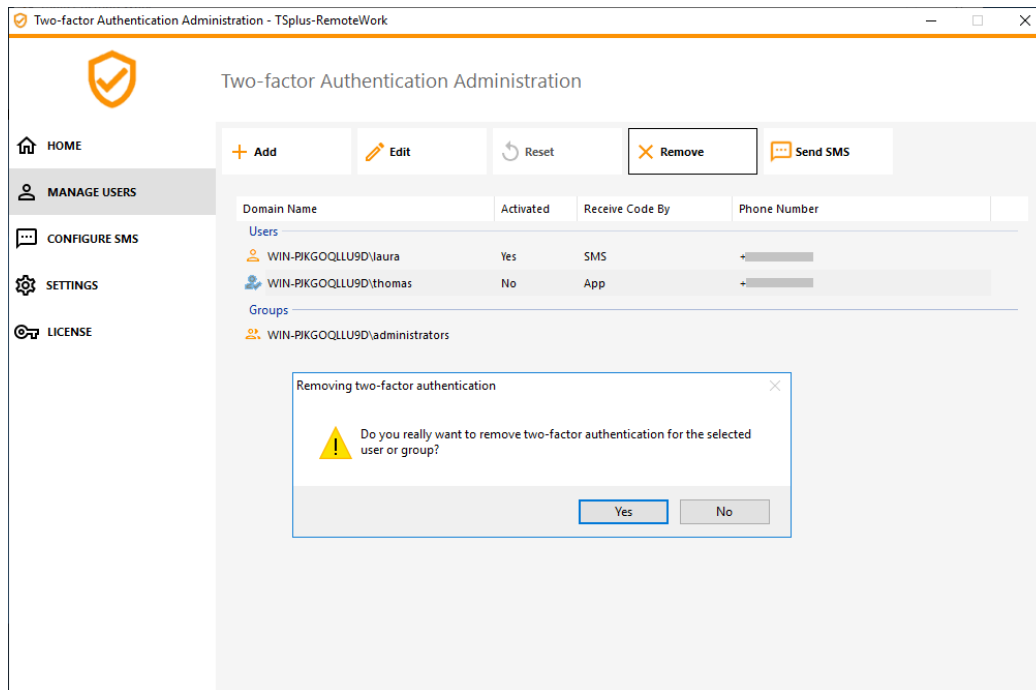

Click *Yes*. The user or the group is removed from its list and won't connect using two-factor authentication anymore.

Reset Configuration for Users

In the event of the loss of the authenticating device for a user, or if the user needs to display the secret QR code again, you must reset the user authentication settings.

1) From the two-factor authentication administration application, click on the *Manage Users* tab.

2) Select one or multiple activated users and then click on *Reset*. A confirmation message is displayed:
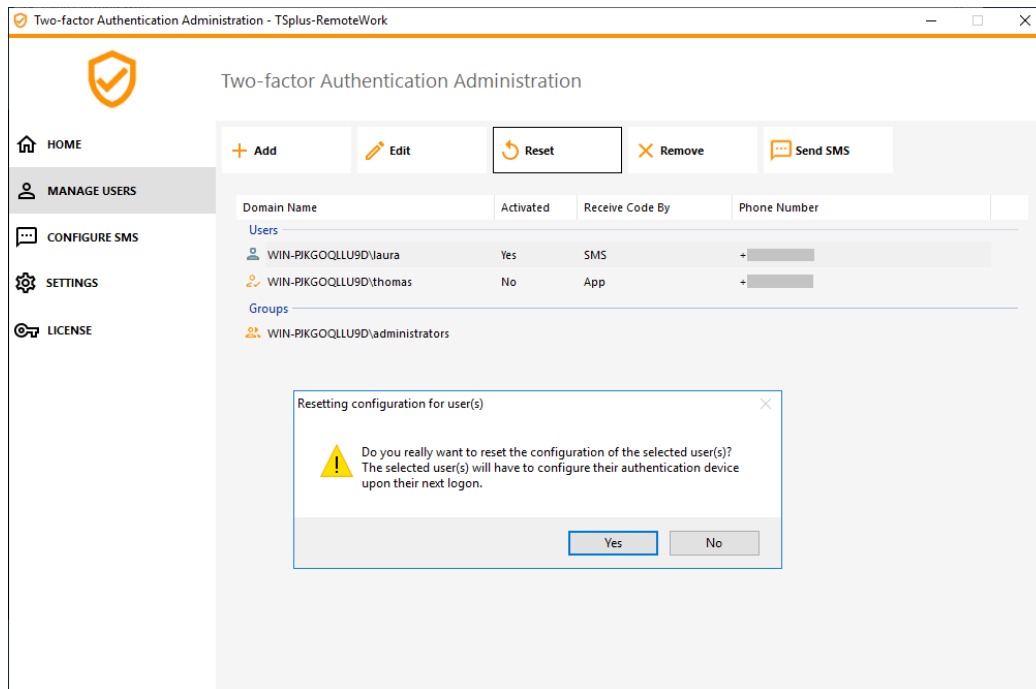
3) Click *Yes*. The selected users will be presented a new QR code at the next login and will have to scan it in their device's authentication app.
You can also modifiy the user's phone number, so that he can receive a verification code on his new device.

Enroll User for Two-factor Authentication

Once a user has been enabled for using two-factor authentication, an activation message will be displayed at his next successful logon from the remote-work Web portal.
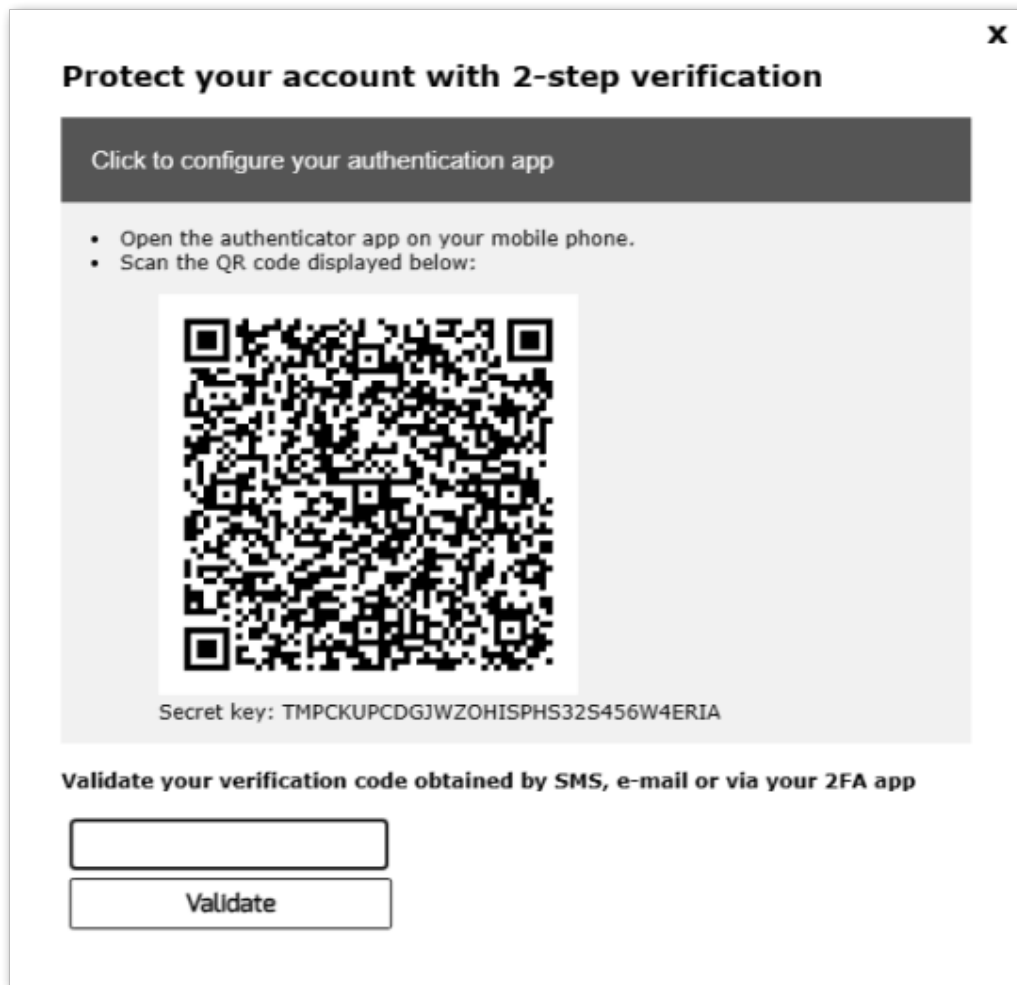
In order to complete the required steps, you have two choices: either generate codes via an authenticator app, either make the user receive codes by SMS.

Receive codes with an Authenticator Application

The user must install an authenticator app on a portable device, such as his smartphone.

You can use one of the following authenticator apps to proceed. These apps are available across a wide range of platforms:
- Authy
- Google Authenticator
- Microsoft Authenticator

Please use each app documentation for more details on how to proceed to add your remote-work account.

Configure SMS

In order for the user to receive verification codes by SMS, you must first enable it. Click on the *Configure SMS* tab:
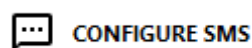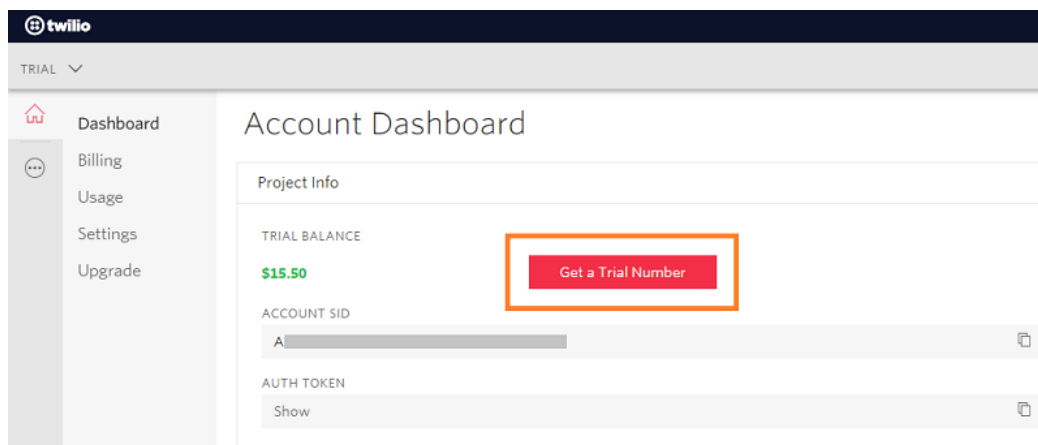

remote-work leverages Twilio in order to send verification codes by SMS. Twilio is a third-party cloud platform, not affiliated with remote-work.

1) Just create a free account on Twilio by clicking on the button below "Start your free trial with Twilio":
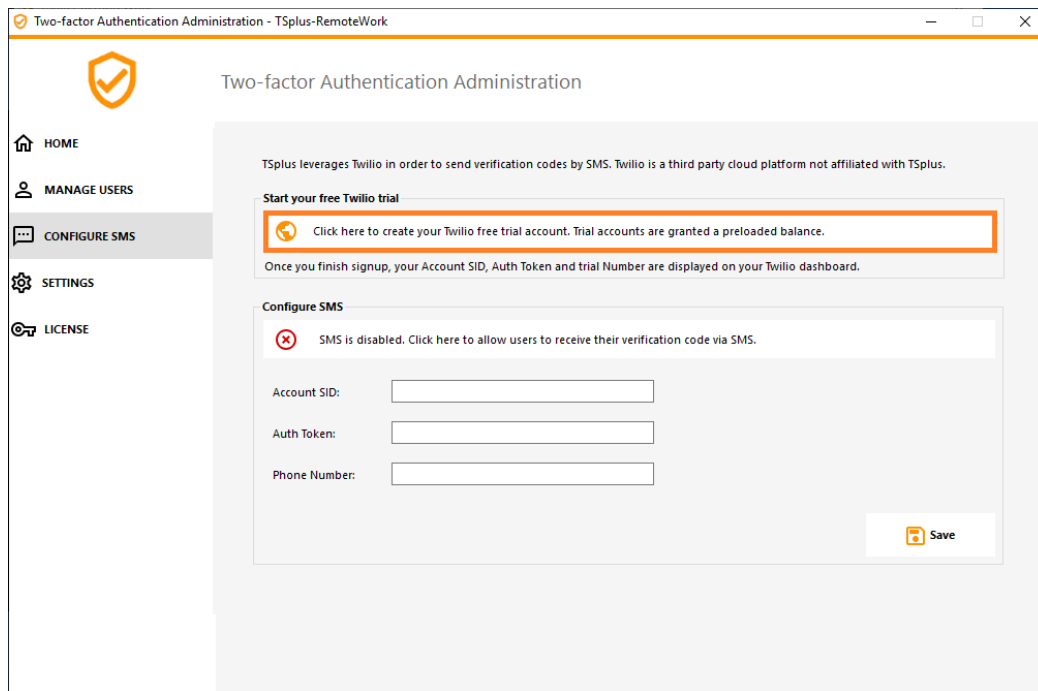
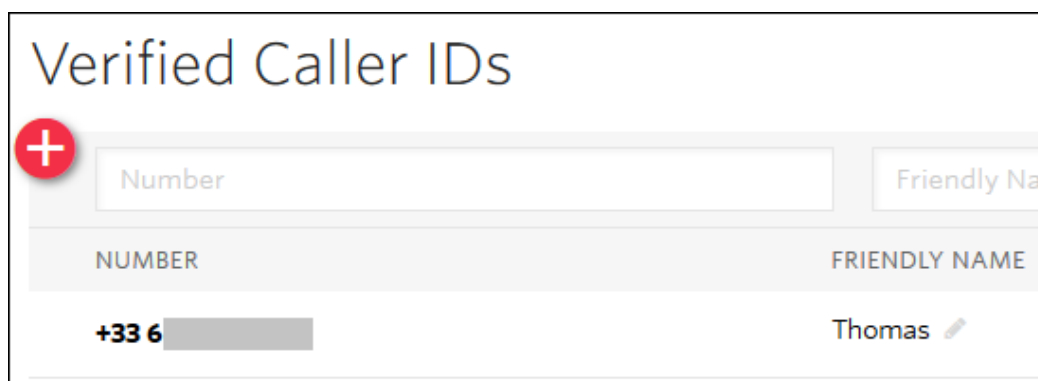2) On your Twilio account dashboard, you will need to activate your Trial Number:

3) The next step is only necessary for Trial versions. It allows Twilio to verify the actual phone number on which SMS will be sent.
Enter this number under the "Phone Numbers" menu - "Verified Caller IDs" tab :

4) You will then be able to enter your account SID, Authentication Token and **Trial Number** as the Phone Number on the *Configure SMS* tab of remote-work:

Then, click on Save. The following message will be displayed:
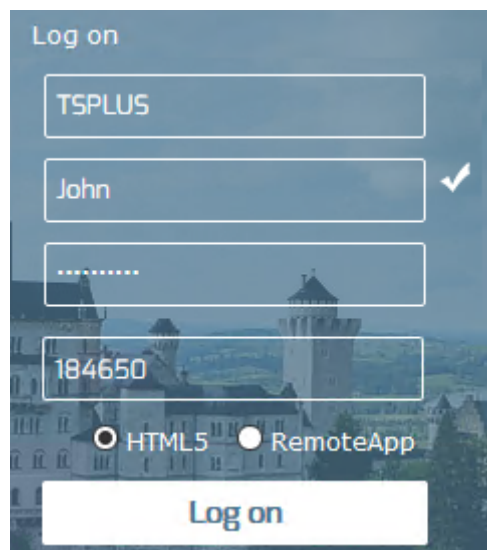
You can manage your Twilio subscription on the *Manage Twilio subscription* section, at the bottom of the *Configure SMS* tab. Administrate your account, see the Service Status or reach Twilio Support Center just by clicking on the corresponding buttons.

Login using Two-factor Authentication

Once a user has configured his remote-work account in his authenticator app, he or she will be able to connect using its password and the code provided by its authenticator app or by SMS.

Time Synchronization

TSplus Remote Work server and Devices must be on time. This means that the time and date of the server must be synchronized with a time server. Devices must also have time synchronization, regardless of the time zone on which they are configured.

If an authentication request comes from a Device whose date and time are not synchronized, or if the server's date and time are not synchronized, this request may be rejected.

The validation of information between the Device and the server relates to UTC time.
In the **Settings** section, the Discrepency parameter is used to manage the period of validity of the code, in intervals of 30 seconds.

Example of validation or valid authentication:

- the server is synchronized with a time server, the time zone is UTC + 2, it is 2:30 pm
- the Device is synchronized with a time server, the time zone is UTC + 1, it is 1:30 pm
- the Discrepency parameter is configured at 60, i.e. a code validity period of 30 minutes
- referred to UTC time, the Device time and the server time are identical.

Example of validation or invalid authentication:

- the server is synchronized with a time server, the time zone is UTC + 2, it is 2:30 pm
- the Device is not synchronized with a time server, the time zone is UTC-1, the time is manually set to 1:30 pm
- the Discrepency parameter is configured at 60, i.e. a code validity period of 30 minutes

- the server time referred to UTC time is 12:30 am
- the time communicated by the Device, referred to UTC time is 2:30 pm
- the difference is 120 minutes, the validation code is therefore refused.
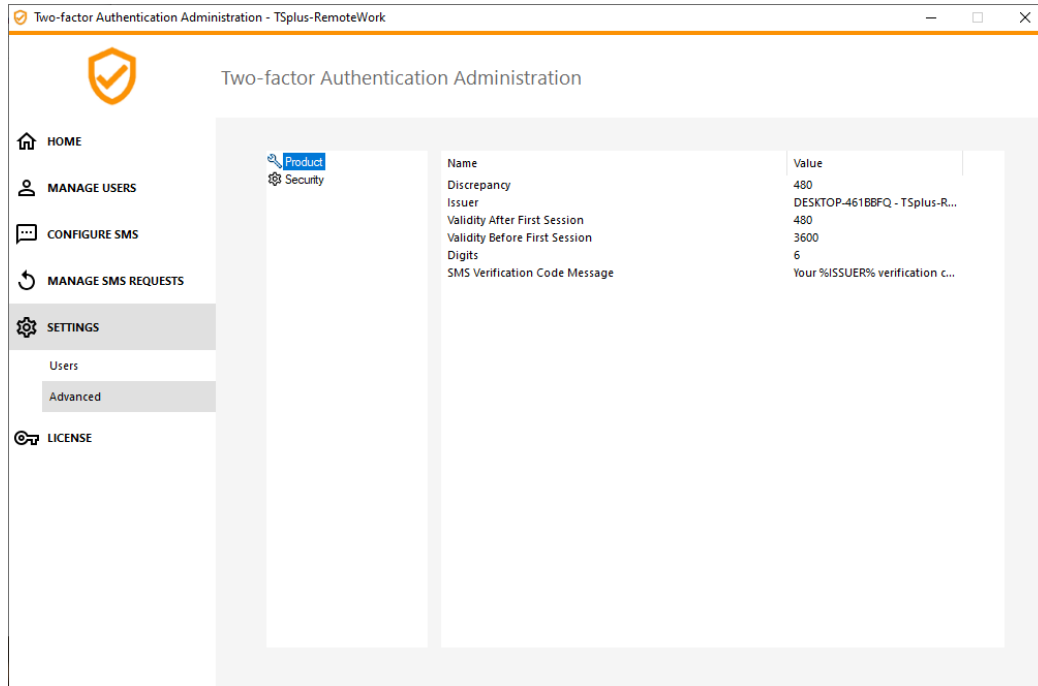
Settings
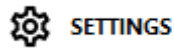
SETTINGS

The Settings tab allows you to **whitelist users, in order for them to connect using an RDP client, without the need to enter a two-authentication code.**

Click on the "Add" button to add a user and remove a user by selecting it and clicking on the "Remove" button.
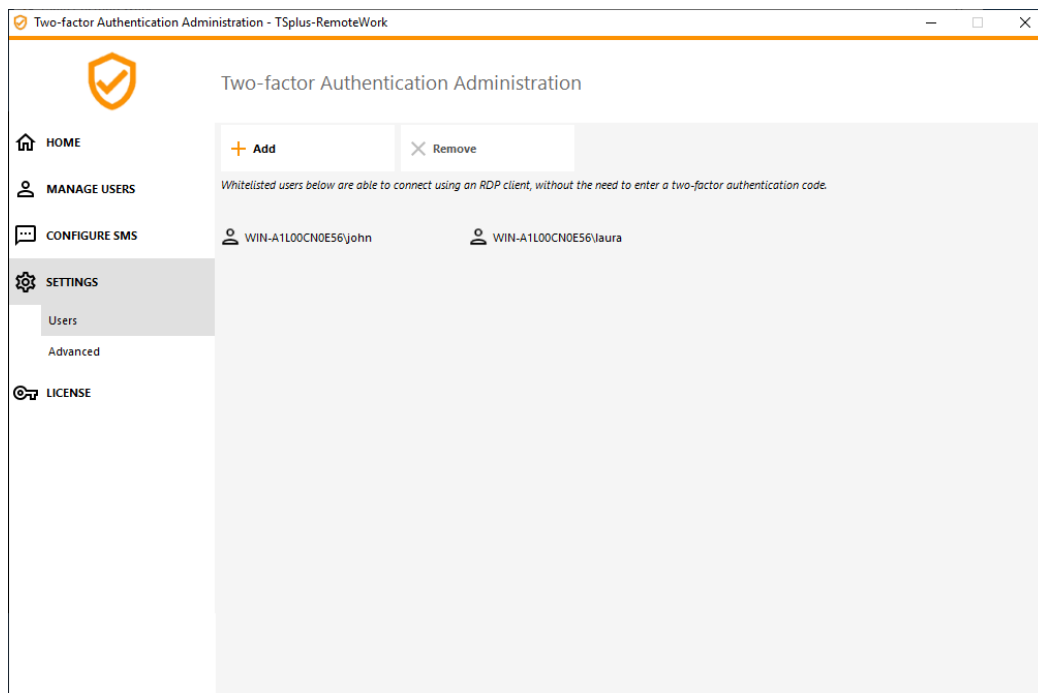
The Advanced tab allows you to configure Two-Factor Authentication in-depth settings.
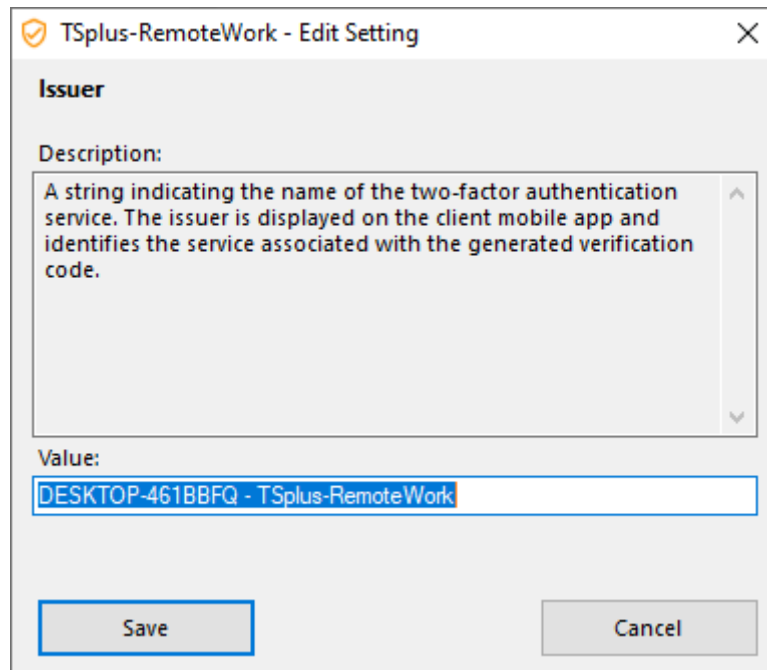
Discrepancy

You can modify the Discrepancy value, which allows you to set the validation time of a verification code.
A discrepancy of 3 means that the same verification code remains valid 90 seconds backward and forward its original 30 seconds validity period. Default is 480, which means 480 x 30 seconds= 4 hours.
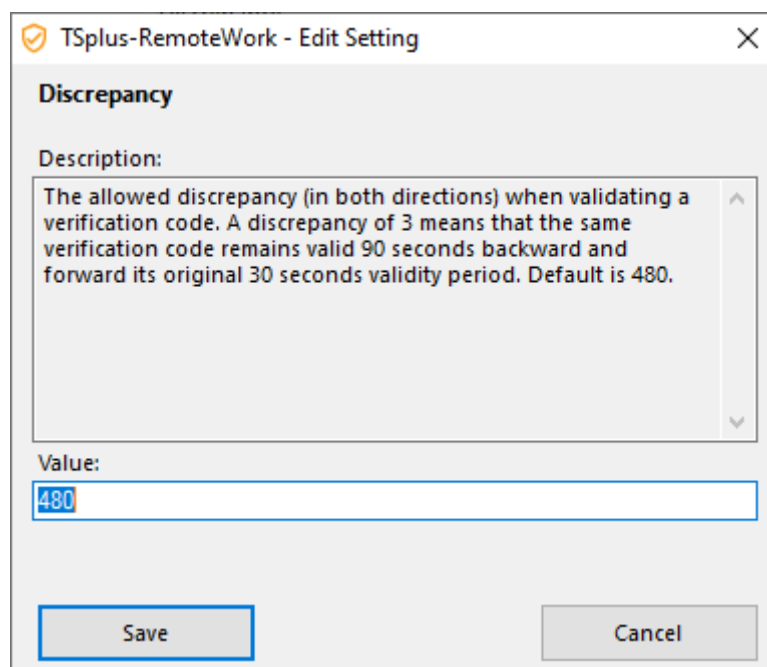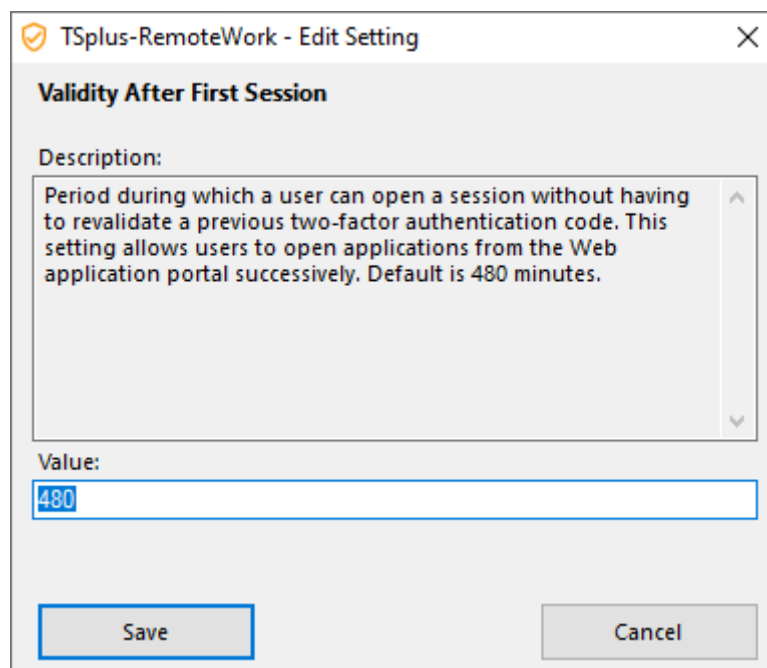

Issuer

A string indicating the name of the two-factor authentication service. The issuer is displayed on the client mobile app and identifies the service associated with the generated verification code. By default, it is composed of the server's name with remote-work.
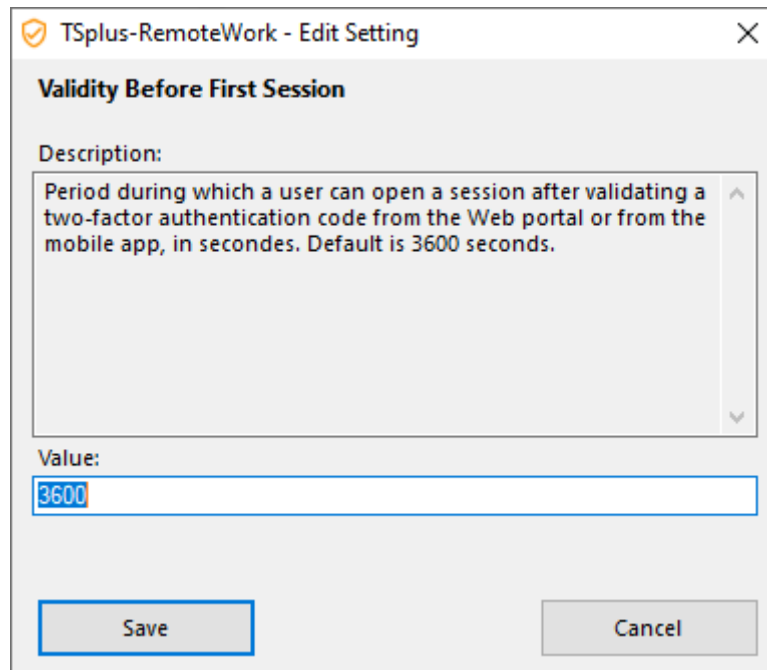
Validity After First Session

Period during which a user can open a session without having to revalidate a previous two-factor authentication code. This setting allows users to open applications from the Web application portal successively. Default is 480 minutes.
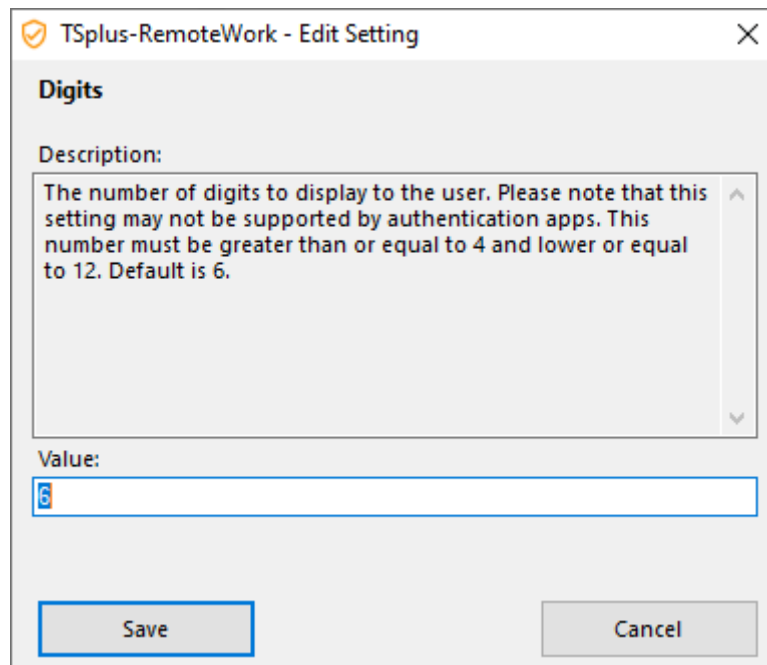

Validity Before First Session

Period during which a user can open a session after validating a two-factor authentication code from the Web portal or from the mobile app, in secondes. Default is 3600 seconds.

Digits

The number of digits to display to the user. Please note that this setting may not be supported by authentication apps. This number must be greater than or equal to 4 and lower or equal to 12. Default is 6.

SMS Verification Code Message

Message sent to users requesting a verification code if they are configured to receive it via SMS. This message must contain the %CODE% placeholder which will be replaced by the actual verification code. Default is: Your %ISSUER% verification code is: %CODE%

TSplus-RemoteWork - Edit Setting   ✕

SMS Verification Code Message

Description:

Message sent to users requesting a verification code if they are configured to receive it via SMS. This message must contain the %CODE% placeholder which will be replaced by the actual verification code. Default is: Your %ISSUER% verification code is: %CODE%

Value:

Your %ISSUER% verification code is: %CODE%

Save   Cancel