



Connecting to the cloud-based Thermo Fisher Connect platform with the Multiskan Sky Microplate Spectrophotometer

June 2019

In this Presentation:

- **Overview of Thermo Scientific™ Multiskan™ Sky Microplate Spectrophotometer Cloud Connectivity**
- **Before you start following the steps**
- **Steps for how to:**
 - Register as a Thermo Fisher Connect platform user
 - Connect Multiskan Sky reader to cloud from the touchscreen
 - Connect Multiskan Sky reader to cloud from a PC/Mac
 - Connect Multiskan Sky reader to cloud-based Connect platform
 - Sign in to Thermo Fisher Connect account in the instrument
 - Manually upload measurement data from Multiskan Sky reader to cloud
 - Automatically upload measurement data from Multiskan Sky reader to cloud
 - Update software via the cloud
 - View measurement data from Multiskan Sky reader on the cloud
 - Reserve the Multiskan Sky instrument on the Connect platform
- **Collecting statistical data**



Overview of cloud connection with the Multiskan Sky reader

- Thermo Fisher Connect cloud-based platform enables you to:
 - Upload measured data to your cloud account
 - Securely store, access, share, and manage your data remotely
 - Monitor the status of your instrument from your PC/Mac or mobile device
 - Reserve the instrument using the “Schedule Instrument” tool
 - Receive automatic notification of new instrument software updates



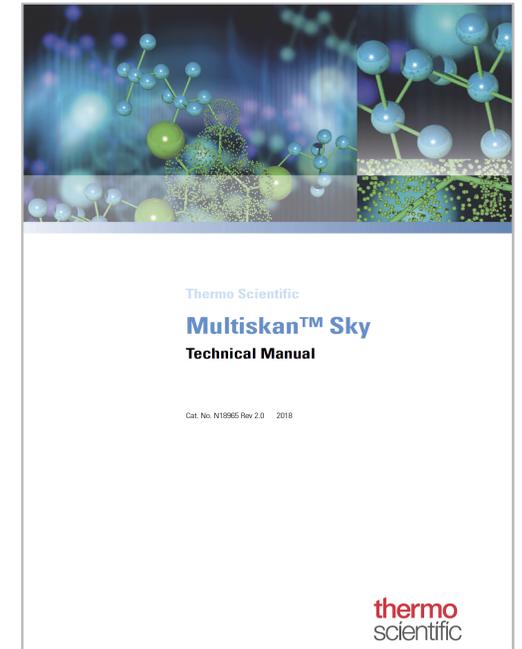
Enjoy the freedom to access your data remotely

* Models with touch screen

- The IT Department at the Customer Site may be needed to facilitate the cloud connection of the Multiskan Sky reader
- Consult the **IT Requirements Document for specific instructions** (including **Frequently Asked Questions**)

or

the **Multiskan Sky Microplate Spectrophotometer Technical Manual** (section 6)



Three steps are needed to access Connect platform services:

1. Register with the Connect platform

Create a user account (this account is personal)

2. Connect Multiskan Sky reader to the cloud

Each cloud user must log in to the instrument to use it with their account

3. Sign in to your Connect account from the instrument

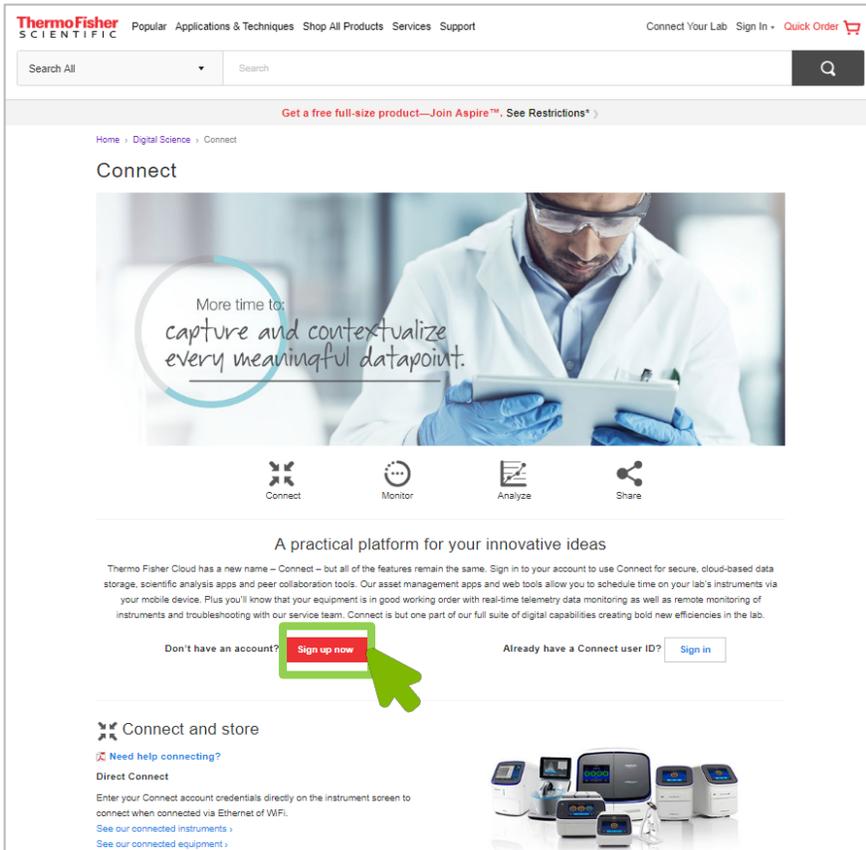
So you can send measurement data from the Multiskan Sky reader to your Connect account

These steps will be described in this presentation



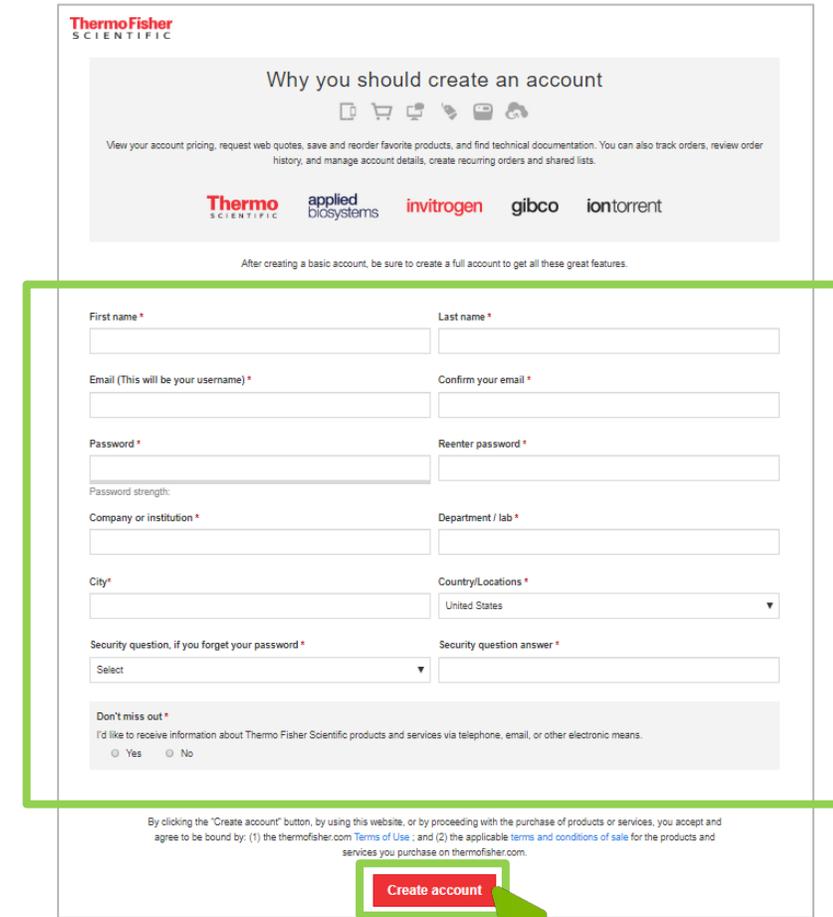
Step 1: Register and log in to get started with Thermo Fisher Connect

1. Navigate the customer to thermofisher.com/connect



2. Click **SIGN UP NOW**

3. Fill out information requested and click **Create Account**.



*Additionally, you will create a **PIN number** to sign in to your Connect account from the instrument (next slide)

Step 1: PIN number for Connect sign-in with your Multiskan Sky reader

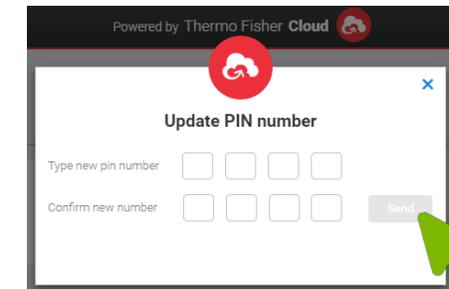
- Sign in to your Connect account
- From the home page, go to **Instruments icon** on the left bar:



- Click **Update PIN number** on the right:



- Enter a PIN number of your choice and confirm in fields provided:
- Click **Send**
- You need your PIN number when you sign in to your account using your Multiskan Sky reader



Step 2: Three ways to Connect the Multiskan Sky reader to the cloud

You can connect your Multiskan Sky reader to your cloud user account in any of the following three ways:

- From the Multiskan Sky reader itself, **or**
- From your personal computer (PC or Mac), **or**
- From your mobile device with the cloud-based Instrument Connect app
 - Free download on the iOS App Store and Google Play stores

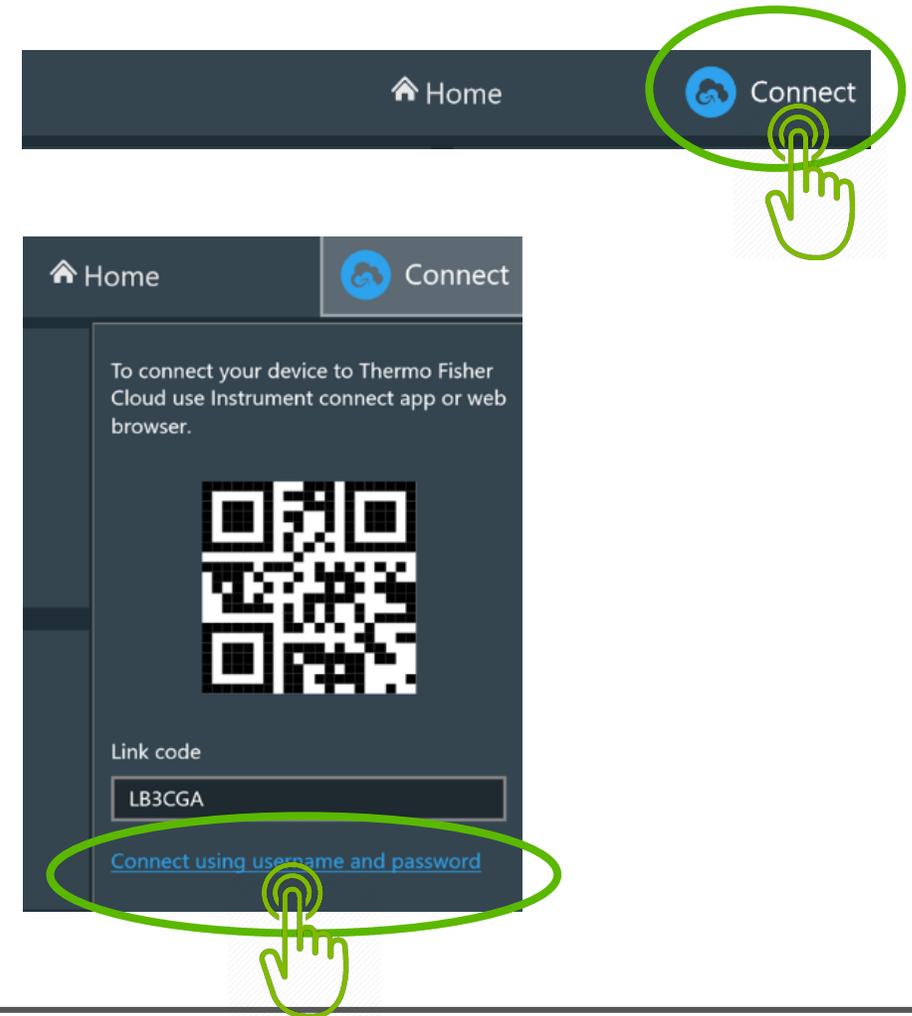


These three ways will be described in this presentation

Step 2, Option 1: How to connect to the cloud from the Multiskan Sky instrument

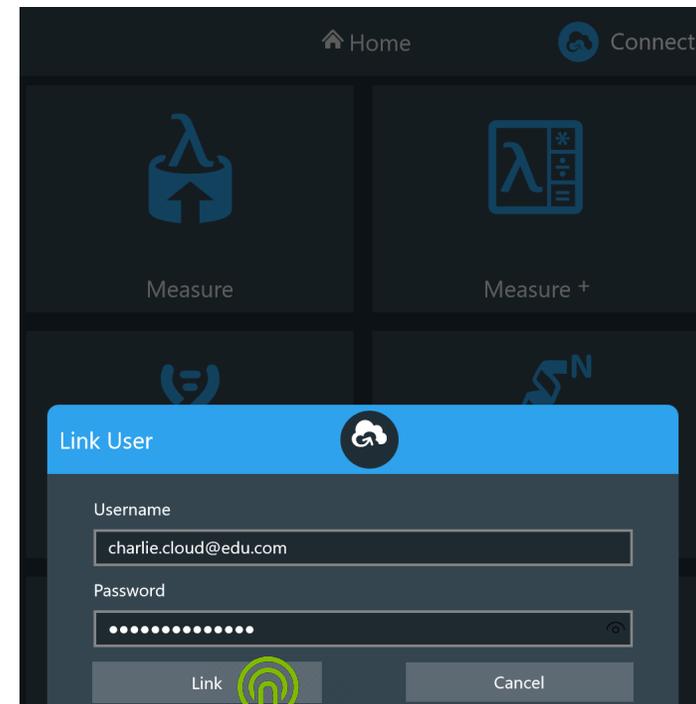
- Switch your Multiskan Sky instrument On
- Connect your Multiskan Sky instrument to internet
- When your Multiskan Sky instrument is connected, the word **Connect** appears next to the cloud icon
- Tap **Connect**
 - A popup window will open showing the QR and link codes
 - They are not needed for this step

- Tap **Connect using username and password**
 - The Link User dialog box will open



Step 2, Option 1: How to connect to the cloud from the Multiskan Sky instrument

- In the **Link User** dialog, enter your Connect username and password (i.e. Charlie Cloud's account)
- Tap **Link**
- This cloud account is now linked to this instrument and it can be seen in Settings → Network & USB → Thermo Fisher Cloud, in the user interface

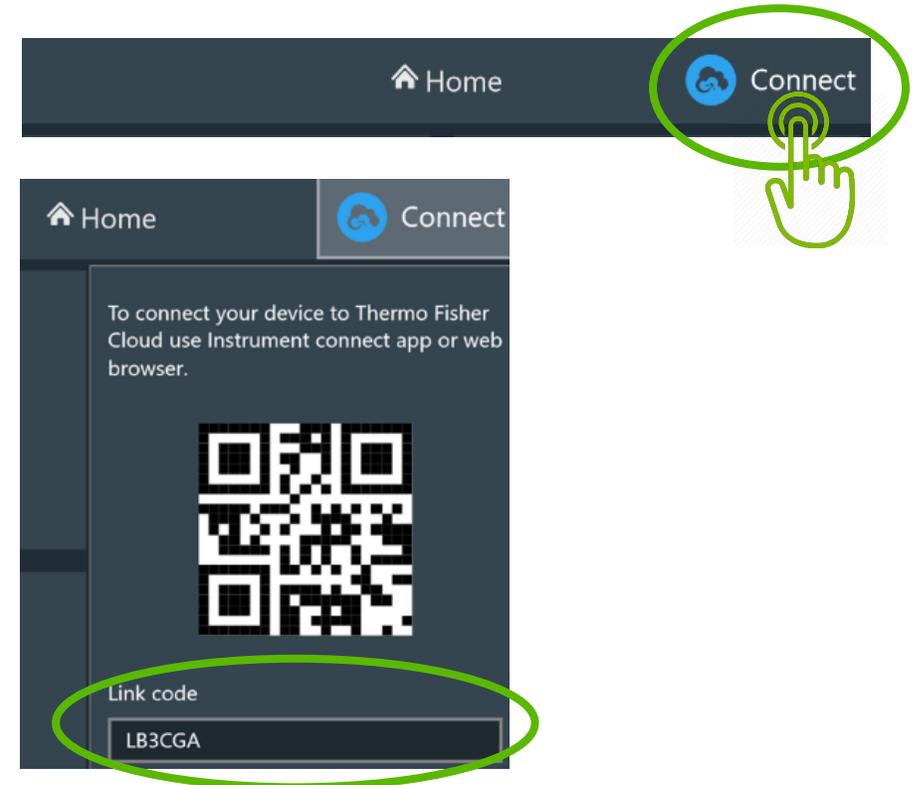


And you are signed in to use your Connect account with your Multiskan Sky instrument



Step 2, Option 2: How to connect to the cloud from a personal computer, PC or Mac

- Switch the Multiskan Sky instrument On
- Connect the Multiskan Sky instrument to internet
- When the instrument is connected, the word **Connect** appears next to the cloud icon
- Tap **Connect**
 - A popup window will open showing the QR and **link codes**
 - In this option, the uniquely created link code is used



- To use the Link code, go to: www.thermofisher.com/cloud using your PC or Mac

Step 2, Option 2: How to connect to the cloud from a personal computer, PC or Mac

- Sign in to your Thermo Fisher Connect account
- From the home page, go to **Instruments icon** on the left bar:

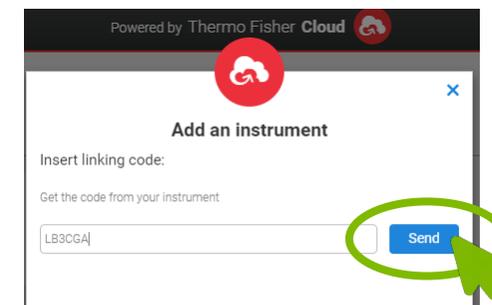


- Click **Add an Instrument** on the right:



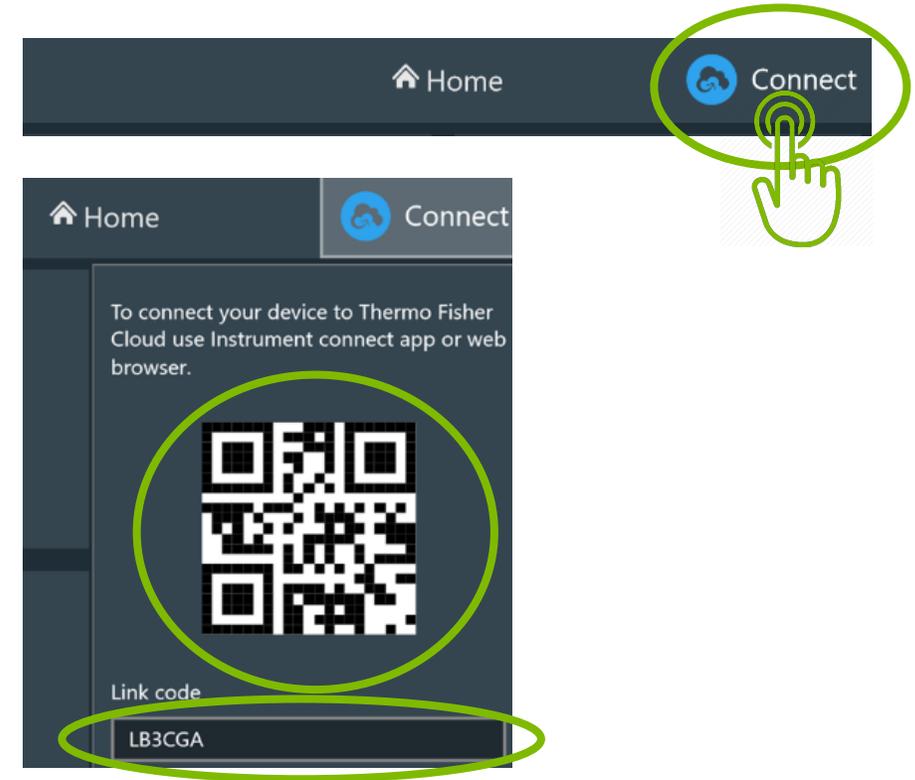
- Select the instrument type from the list: *Multiskan Sky*
- Enter the Link code created by the instrument and Click **Send**

Your Connect account is now linked to your Multiskan Sky instrument



Step 2, Option 3: How to connect to the cloud with a mobile phone

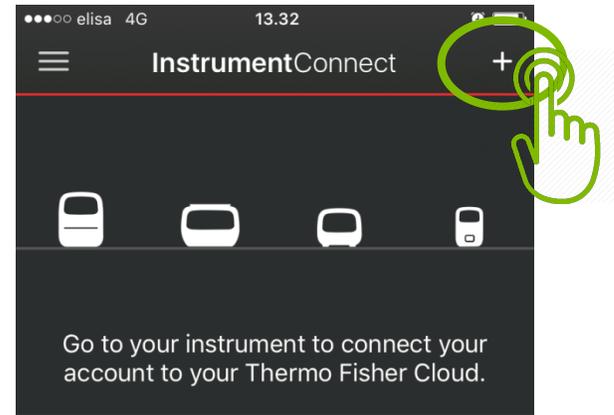
- Switch the Multiskan Sky instrument On
- Connect the instrument to internet
- When the instrument is connected, the word **Connect** appears next to the blue cloud icon
- Tap **Connect**
A popup window will open showing the **QR** and **link codes** (in this step, either the **QR** or **link code** can be used)



- To connect, download the Instrument Connect application to your Android or Apple mobile device from the Google Play Store or the App Store

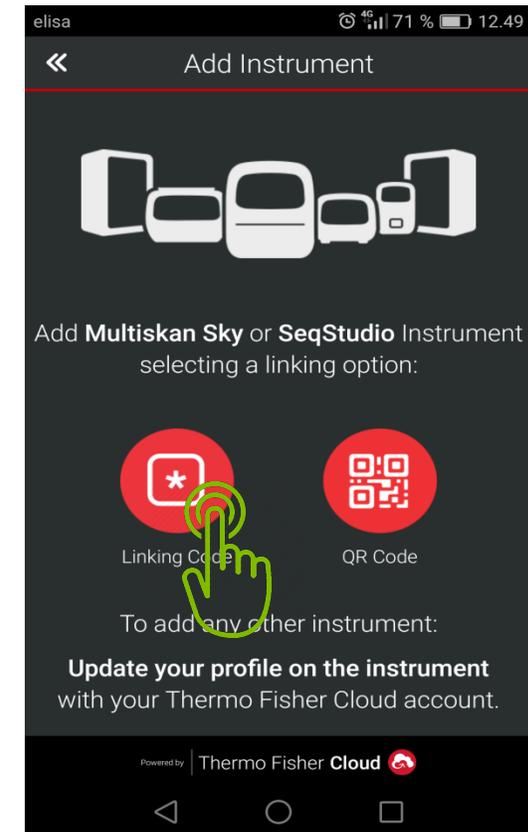
Step 2, Option 3: How to connect to the cloud with a mobile phone

- Open the Instrument Connect app on your device and add an Instrument using the + sign at the top right



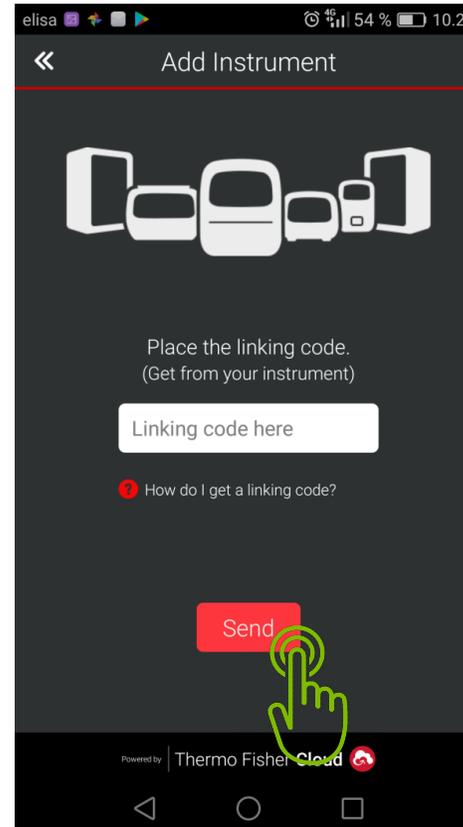
- The Add Instrument window will allow you to select between connecting with **Linking Code** or **QR code** (both shown on the instrument screen in the previous slide)

- Tap **Linking Code**

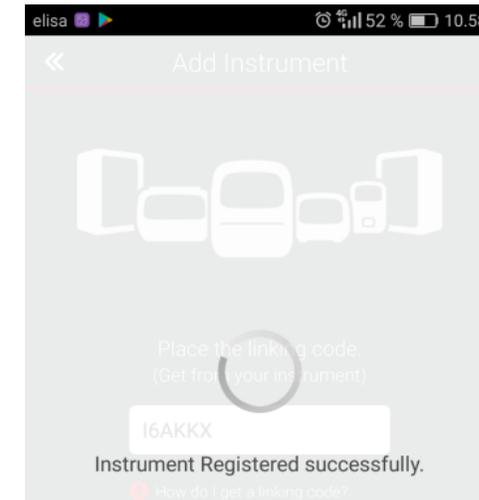


Step 2, Option 3: How to connect to the cloud with mobile phone

- Type in the code that was created by your Multiskan Sky instrument and click **Send**

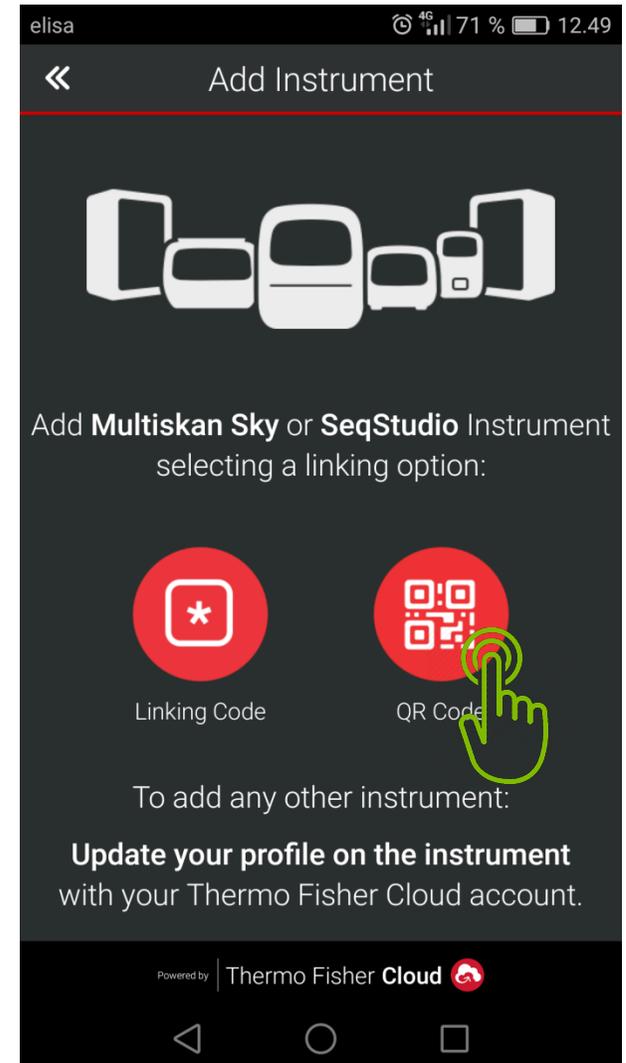


- After that, you will received confirmation that your Multiskan Sky instrument has suscessfully linked to your Connect account



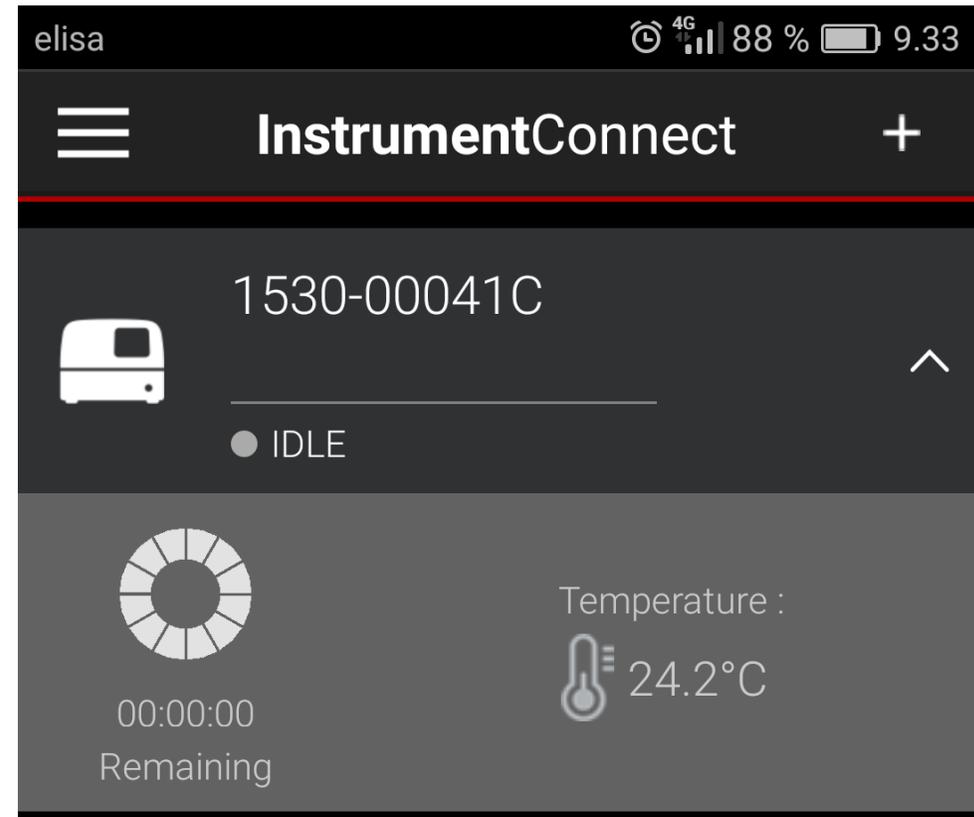
Step 2, Option 3: How to connect to the cloud with a mobile phone

- The Add Instrument window will also allow you to connect using the **QR code**
- Tap on **QR code** and take a picture of the QR code with your mobile device
- The connection to your Multiskan Sky instrument will be established automatically



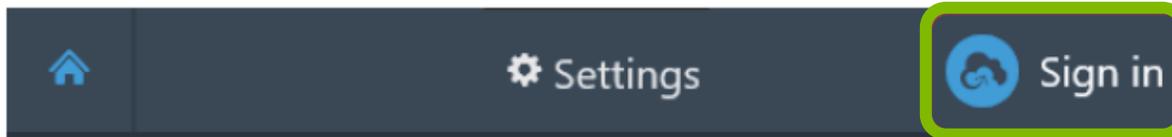
Step 2, Option 3: How to connect to the cloud with a mobile phone

- Once the connection is established, instrument information can be seen on your mobile device:
 - status
 - remaining measuring time
 - instrument temperature

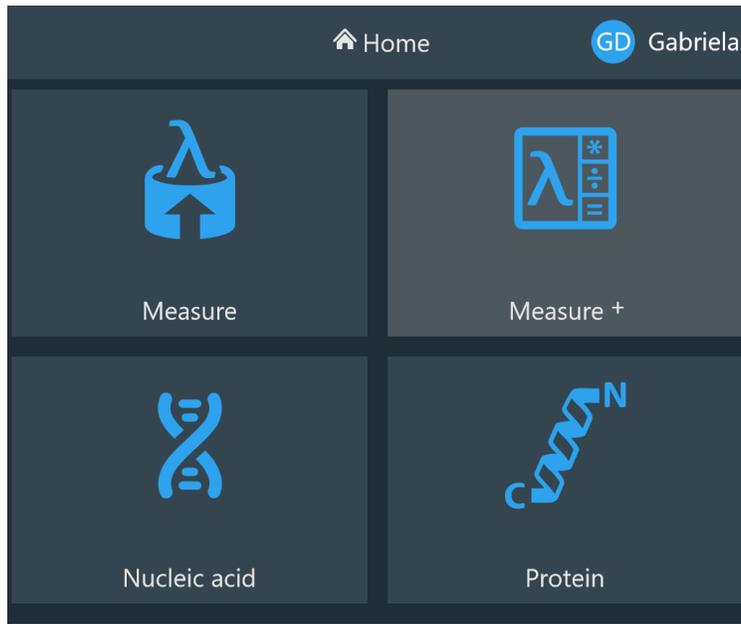


Step 3. Sign in to Thermo Fisher Connect account with Multiskan Sky reader

- When the instrument is linked to one or more Thermo Fisher Connect user accounts, but no users are currently signed in to the cloud from the instrument, the Sign In text appears next to the cloud icon

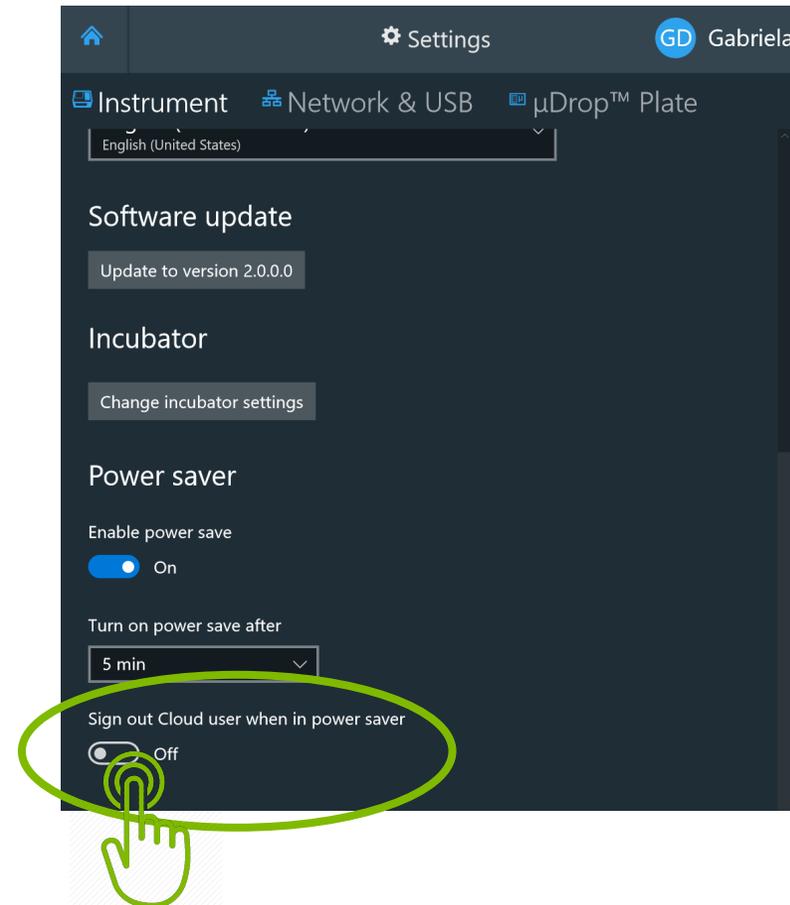
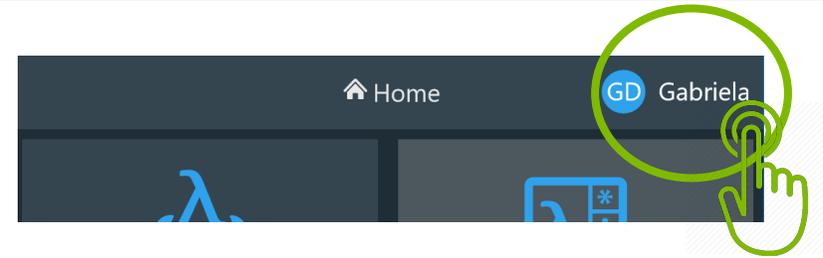


- After signing-in, the cloud icon is replaced by the first name and initials of the signed-in user:



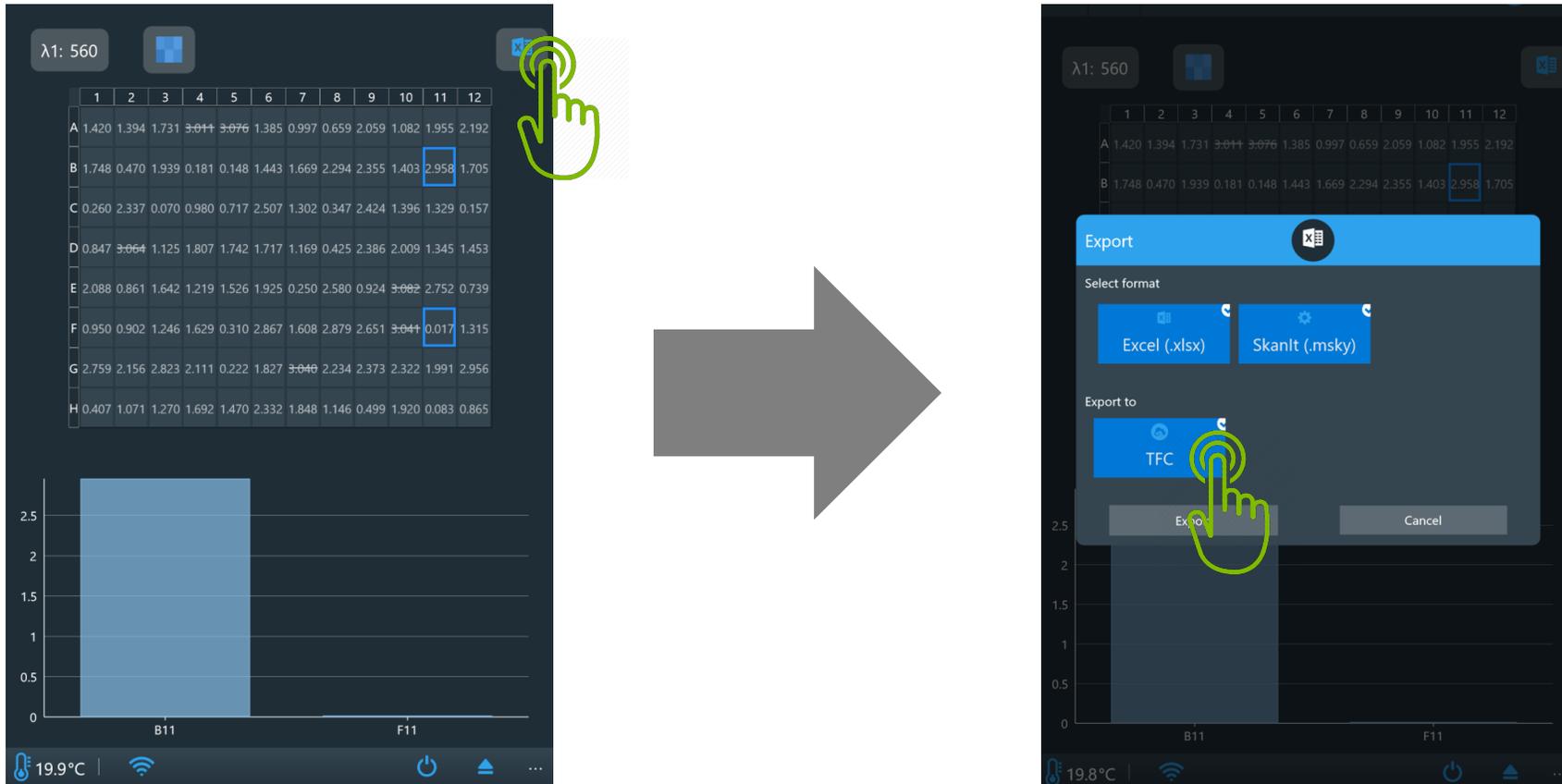
Step 3. Sign in to Thermo Fisher Connect account with Multiskan Sky reader

- By tapping into the username, you can sign out or another user can be connected
- NOTE: You can select in the Power saver settings to sign out the cloud user when the instrument enters the Power Saving mode



Manually uploading measurement data from Multiskan Sky reader to the cloud

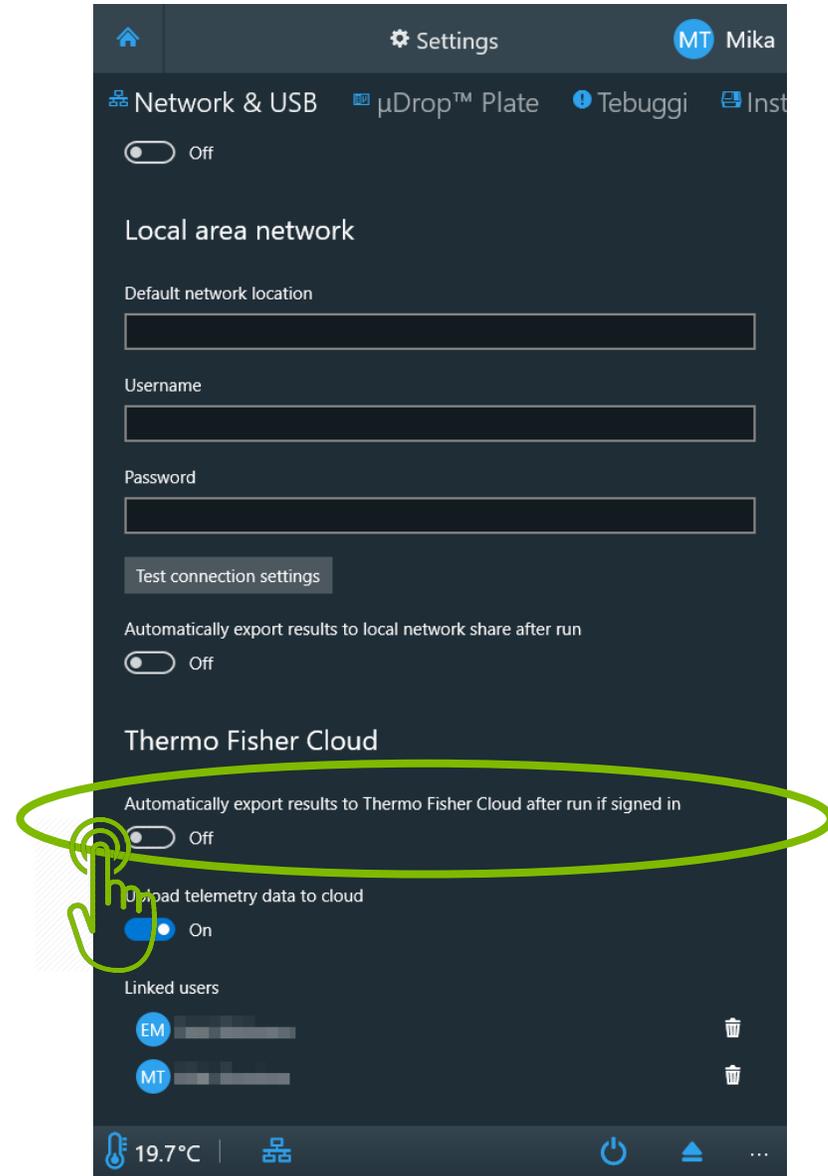
- Once signed-in into the Multiskan Sky instrument, you can upload your results to the cloud
- When the measurement is complete, tap the Export icon and select **Export to TFC** account
- Tap **Export**



Automatically uploading measurement data from Multiskan Sky reader to the cloud

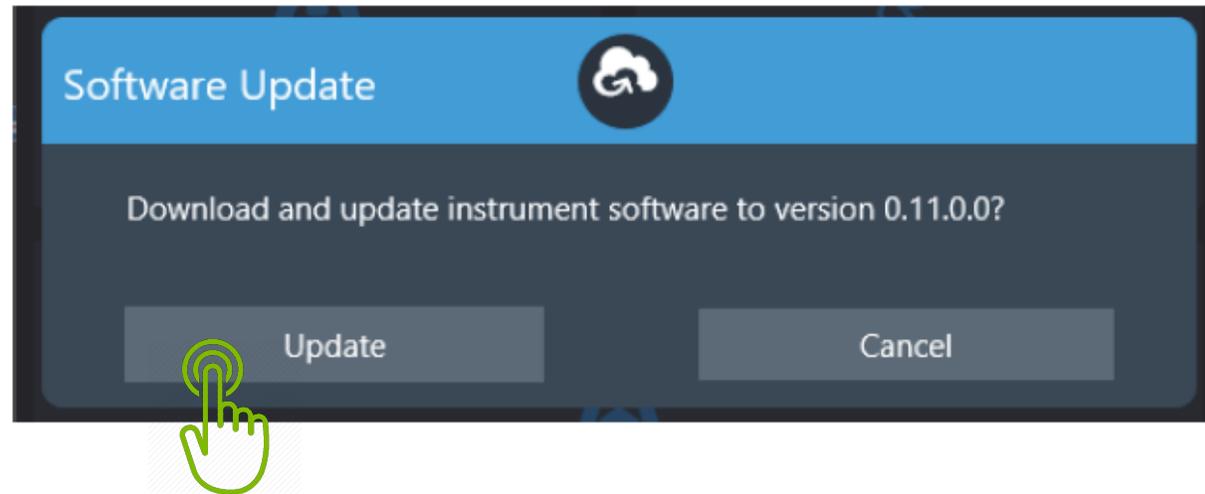
- Once signed-in into the instrument, you can set that your results are always automatically exported into the cloud
- In the user interface, tap: Settings → Network & USB
- Find Thermo Fisher Cloud section and switch **On**:

Automatically export results to Thermo Fisher Cloud after run if signed in



Updating internal software of Multiskan Sky via Thermo Fisher Connect

- When you connect your Multiskan Sky instrument to Thermo Fisher Connect, you are prompted about available software updates
- Tap **Update** to install the new software version



- Software updates can also be made via USB memory device

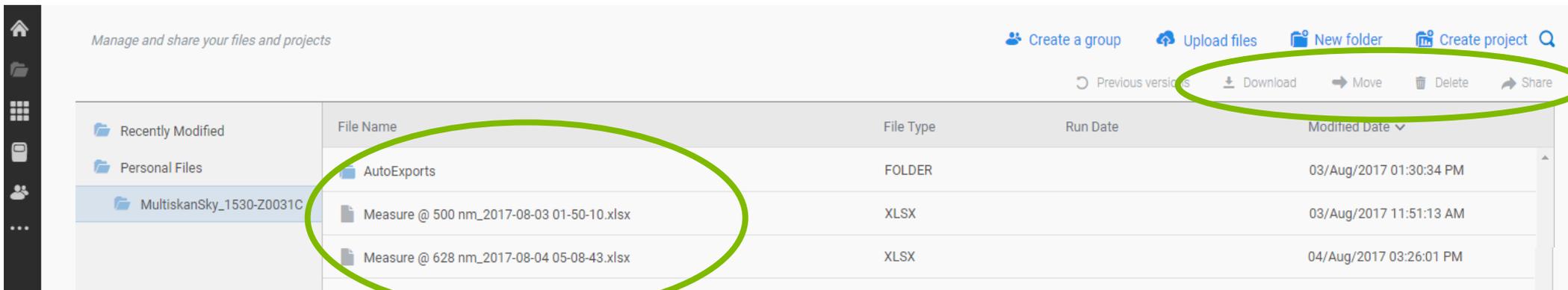


Viewing and downloading Multiskan Sky measurement data from the cloud

- Sign-in to your Thermo Fisher Connect account
- From the home page, you can go directly to **View my files**:

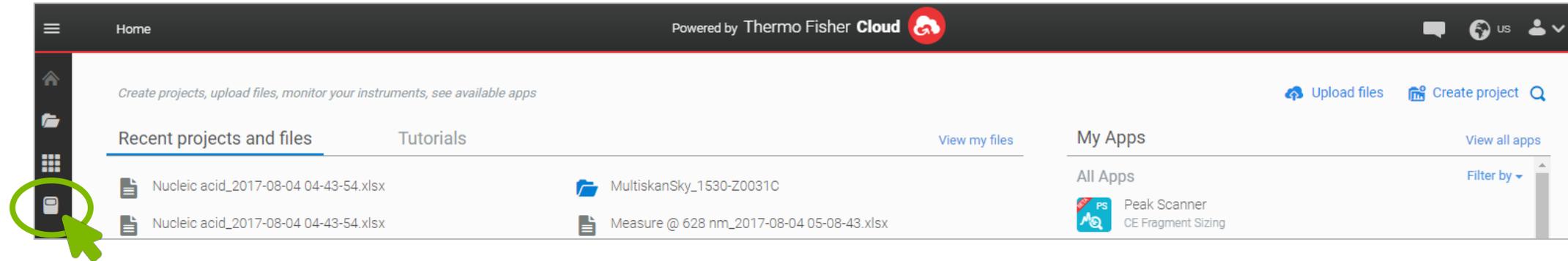


- Your measurement results will be shown associated with the linked Multiskan Sky. These files can be downloaded, moved or shared. Automatic uploads are shown in a dedicated folder:

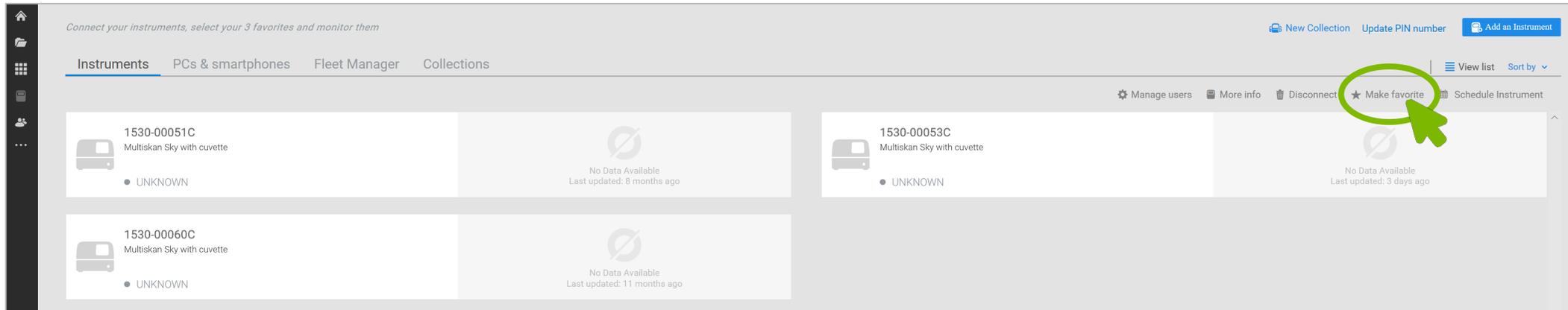


Viewing and downloading Multiskan Sky measurement data from the cloud, cont.

- Alternatively, from the home page, you can go to the **Instruments icon** on the left bar:

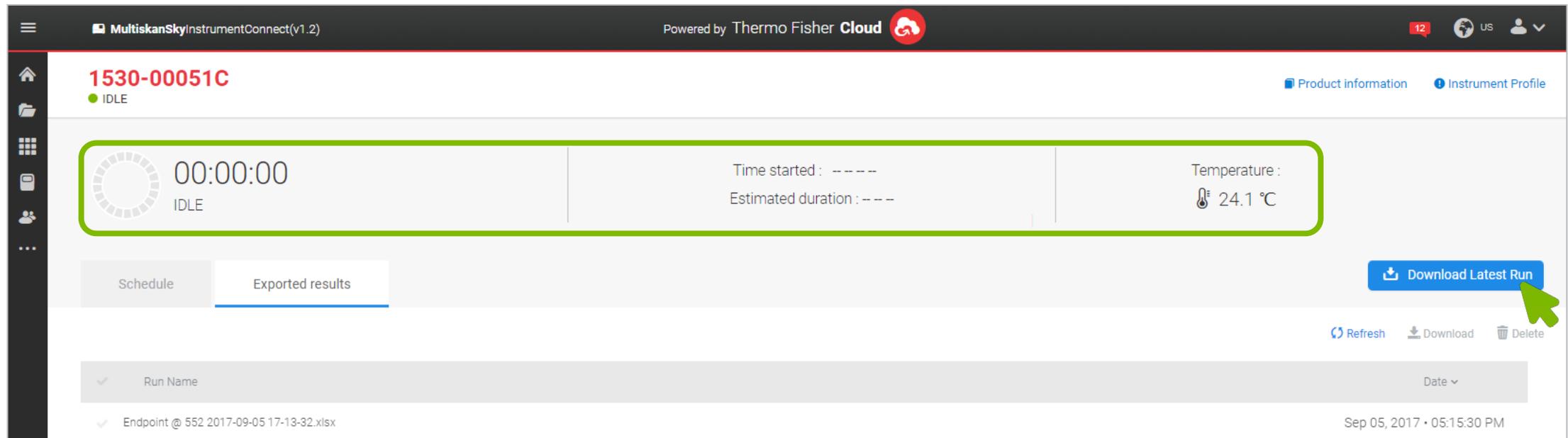


- In **Instruments** tab, all the Multiskan Sky instruments linked to your account will be shown (Note: here you can also make one of them Favorite, so it will appear in the main menu page when you sign in to your Thermo Fisher Connect account)



Viewing and downloading Multiskan Sky measurement data from the cloud, cont.

- Click on the instrument of interest to get to the run files uploaded from that instrument
- In this instrument-specific view, the status of the instrument can be monitored and the latest measurement run data can be downloaded. You can also download the data from older runs.



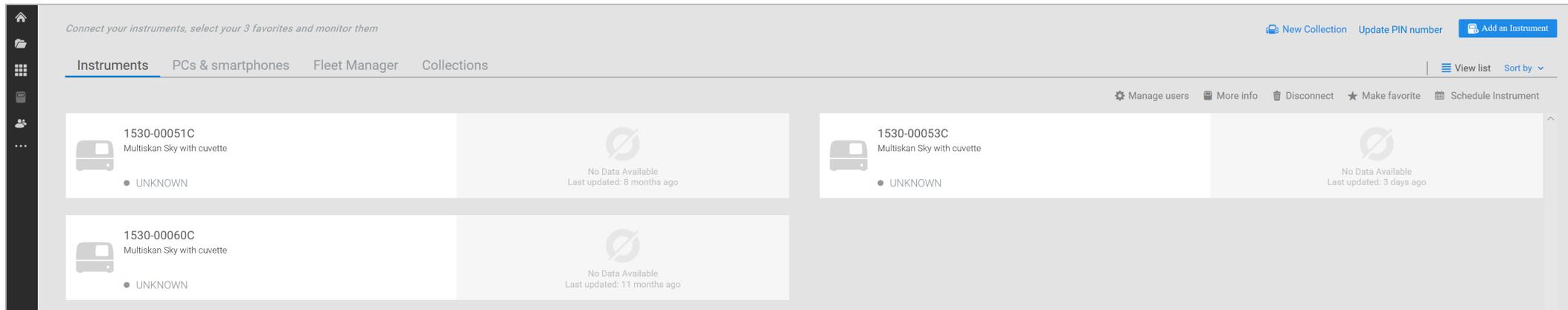
The screenshot displays the Multiskan Sky instrument interface. At the top, the instrument ID is 1530-00051C, and its status is IDLE. A green box highlights the central status area, which includes a circular progress indicator, the time 00:00:00, and the word IDLE. To the right of this area, the time started and estimated duration are shown as dashes, and the temperature is 24.1 °C. Below the status area, there are tabs for 'Schedule' and 'Exported results'. A blue button labeled 'Download Latest Run' is highlighted with a green mouse cursor. At the bottom, there is a table with columns for 'Run Name' and 'Date'. The first row shows 'Endpoint @ 552 2017-09-05 17-13-32.xlsx' with a date of 'Sep 05, 2017 • 05:15:30 PM'. The interface is powered by Thermo Fisher Cloud.

Reserving the Multiskan Sky instrument using the cloud

- You can reserve the instrument using your personal computer or with your mobile device
- On your computer, sign-in to your Thermo Fisher Connect account
- On the home page of the Thermo Fisher Connect, go to the **Instruments icon** on the left bar:

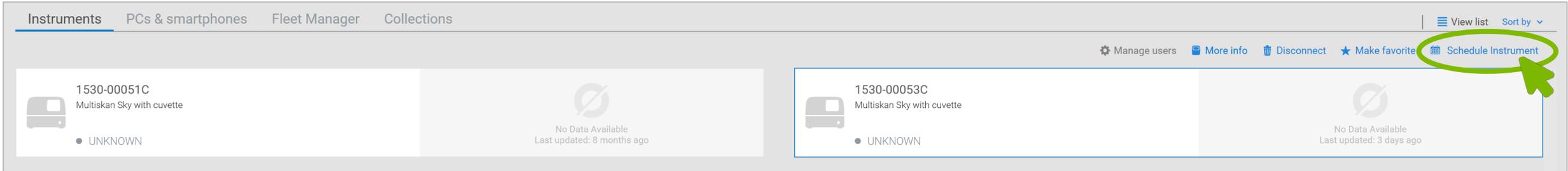


- In the Instruments tab, all Multiskan Sky instruments linked to your account will be shown:

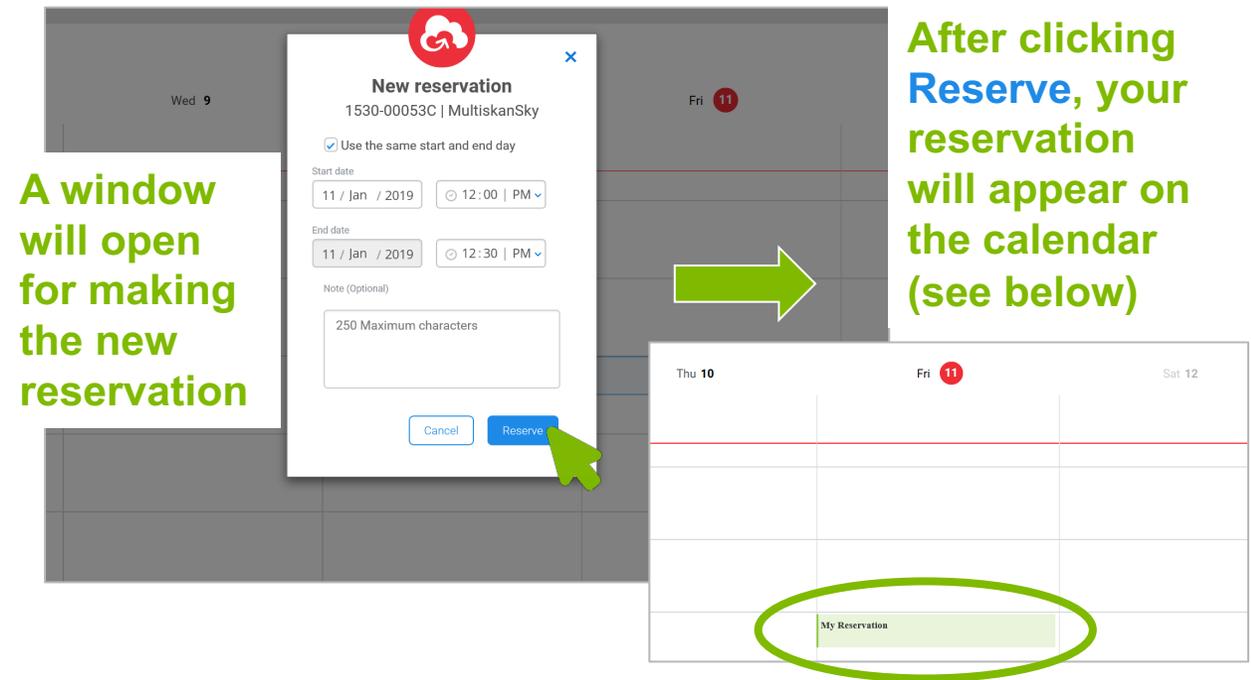
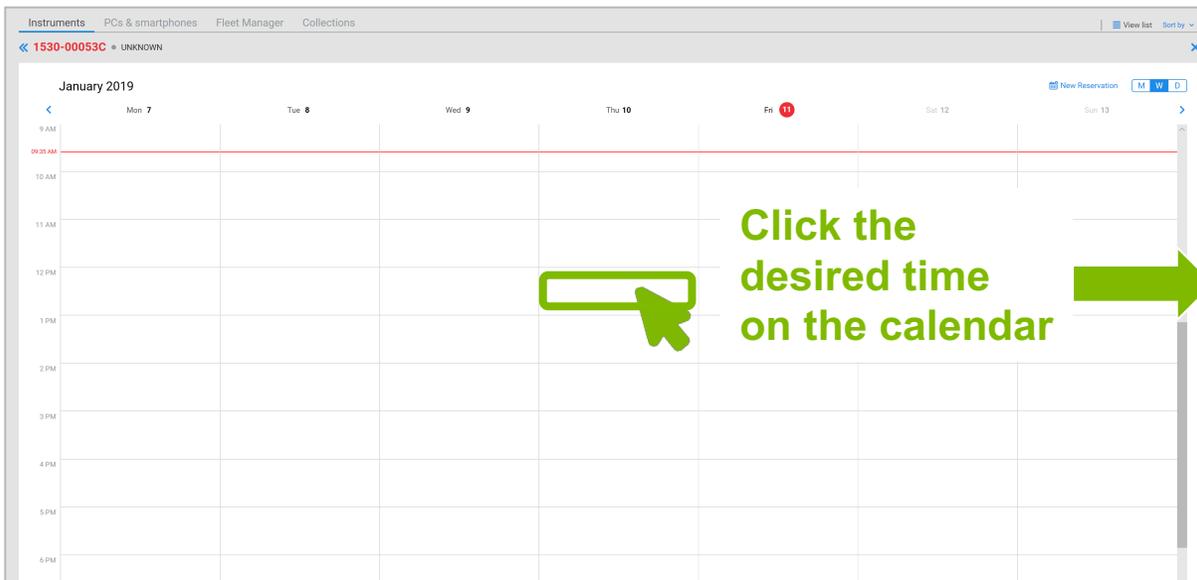


Reserving the Multiskan Sky instrument using the cloud

- You can click on the instrument of your interest, to activate "Schedule Instrument"

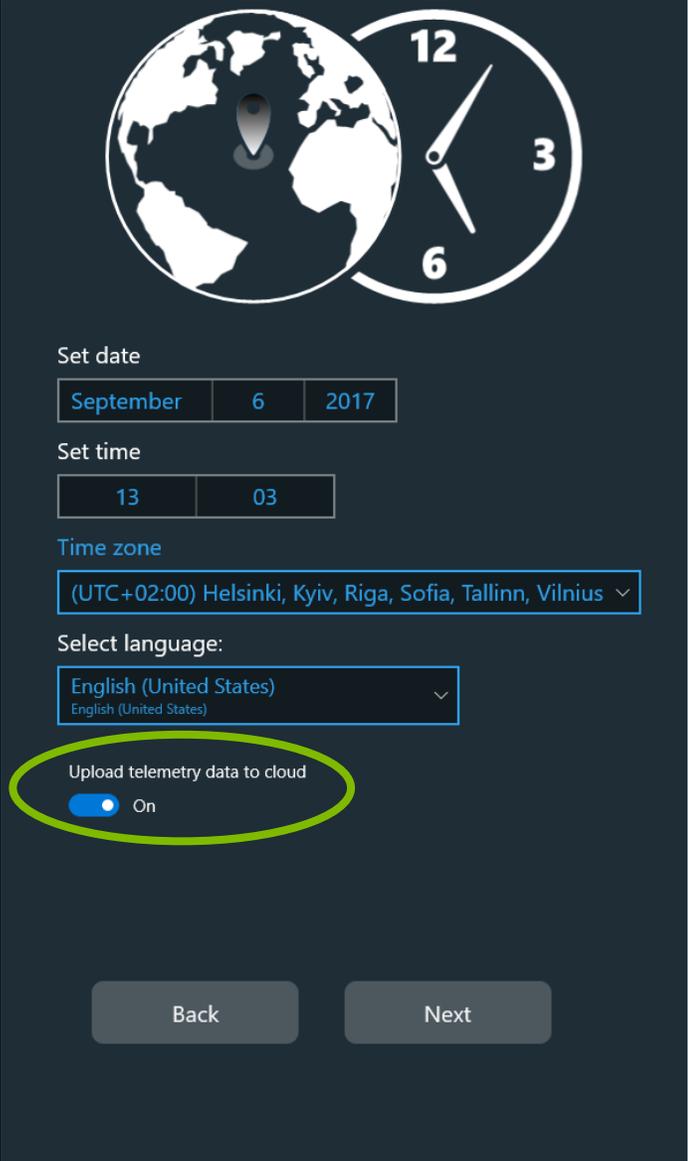


- A calendar will appear where the reservation can be made



Allowing or preventing the collection of statistical data

- When the instrument is connected to Thermo Fisher Connect, users can decide whether they want to send statistical data to the cloud. This data includes:
 - The number of executed assay types (6 different assays)
 - The number of plates used per plate type
 - The number of times the instrument has been powered on
 - The number of exported files
 - The selected language
 - The connection type
- Statistical data is collected to develop the instrument and better serve you, the user. The data collected is not connected to individual users.
- When you connect the instrument to the cloud, it sends all the statistical data that has been collected until that time to Thermo Fisher Scientific
- These settings can also be changed in:
Settings → Network & USB → Thermo Fisher Cloud



Set date

September 6 2017

Set time

13 03

Time zone

(UTC+02:00) Helsinki, Kyiv, Riga, Sofia, Tallinn, Vilnius

Select language:

English (United States)

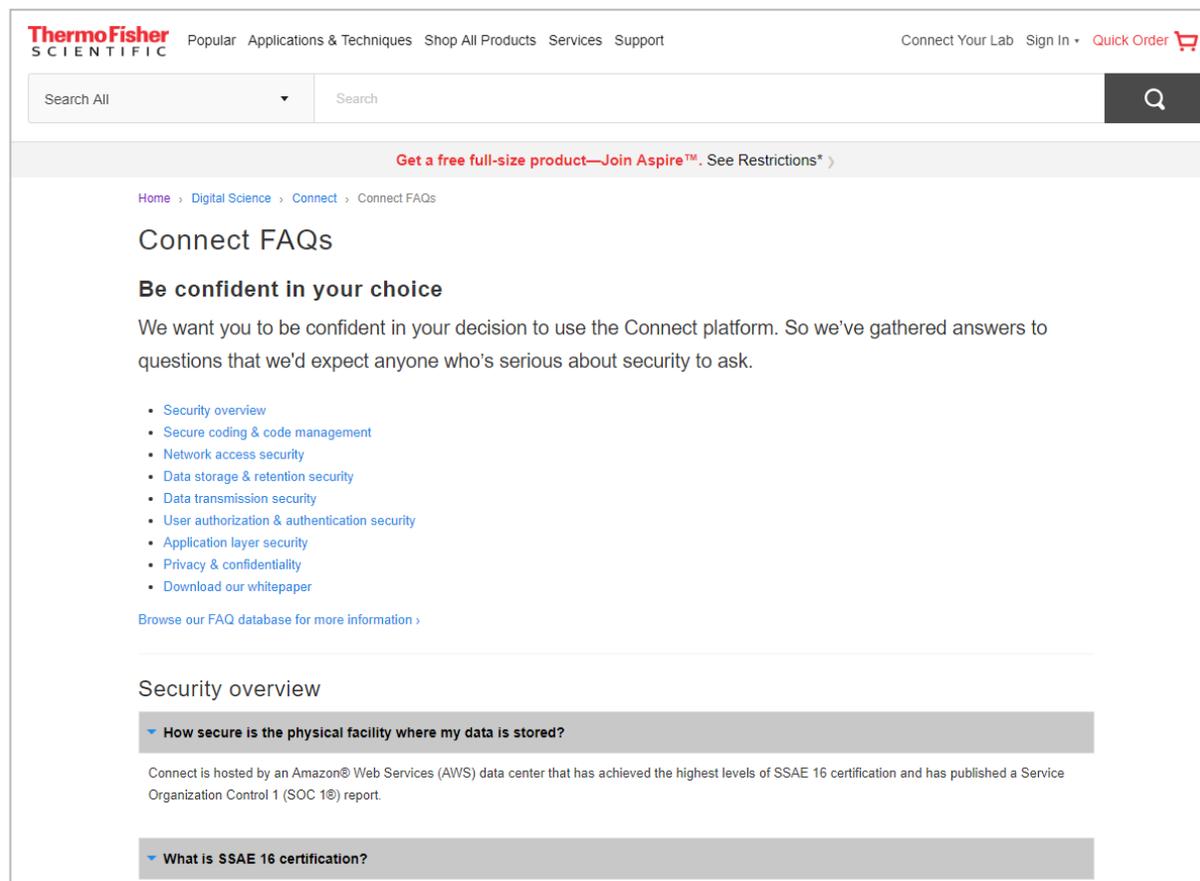
English (United States)

Upload telemetry data to cloud

On

Back Next

- Visit thermofisher.com/cloudfaqs for more information and FAQs about the cloud-based technology that drives the Thermo Fisher Connect platform



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Connect FAQs

Be confident in your choice

We want you to be confident in your decision to use the Connect platform. So we've gathered answers to questions that we'd expect anyone who's serious about security to ask.

- [Security overview](#)
- [Secure coding & code management](#)
- [Network access security](#)
- [Data storage & retention security](#)
- [Data transmission security](#)
- [User authorization & authentication security](#)
- [Application layer security](#)
- [Privacy & confidentiality](#)
- [Download our whitepaper](#)

[Browse our FAQ database for more information >](#)

Security overview

▼ **How secure is the physical facility where my data is stored?**

Connect is hosted by an Amazon® Web Services (AWS) data center that has achieved the highest levels of SSAE 16 certification and has published a Service Organization Control 1 (SOC 1®) report.

▼ **What is SSAE 16 certification?**