

**Thermo Fisher Scientific**

# **NitonConnect Suite**

**User's Guide**

**Release 2.1**

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## Installing NitonConnect Suite

The NitonConnect suite of programs allow your Thermo Scientific XL5 analyzer or Apollo analyzer to interface with a PC. It includes three distinct modules that are divided as follows

- NitonConnect Data allows you to transfer data and programs to and from your analyzer.
- NitonConnect Remote allows you to operate your analyzer through the PC for “bench-top” style operation.
- NitonConnect Sync Manager allows you to enable your analyzer for use, sync your analyzer to send and receive information, access the Customer Support Portal, and update your analyzer's software.
- NitonConnect Update manager is used for updating the analyzer software. See [“Updating your Analyzer Software”](#) on [page 83](#).

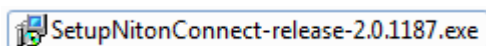
**Table 1. System Requirements for NitonConnect**

|                  | Required Configuration                                                                         |
|------------------|------------------------------------------------------------------------------------------------|
| Operating System | Windows 7 or 10                                                                                |
| Free Disk Space  | Minimum 151 MB                                                                                 |
| Other            | NitonConnect Sync Manager requires Internet connection while syncing and checking for updates. |

## Setting Up NitonConnect For the First Time

The setup files for this program are located on the thumb drive included with your analyzer. Plug the thumb drive into a USB port in your computer to begin the NitonConnect installation process.

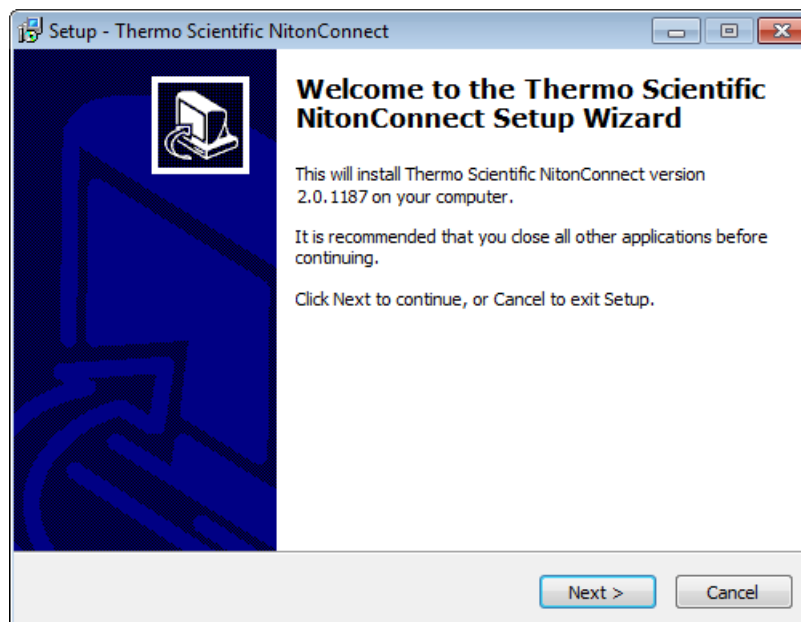
1. Open the thumb drive folder and double-click the NitonConnect setup file to launch the Setup Wizard application. For example:



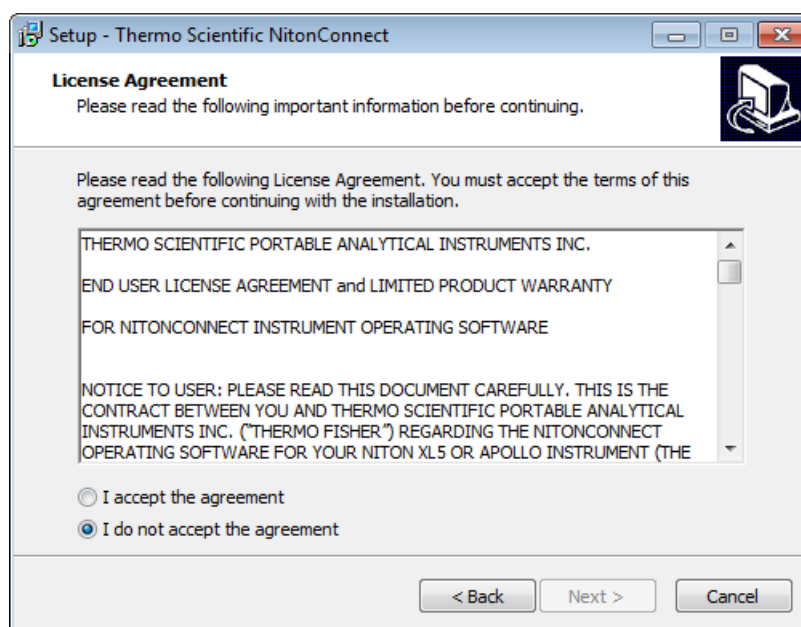
**NOTE:** The SetupNitonConnect file version that ships with your analyzer may be a different version than that displayed above.

## 1 Installing NitonConnect Suite Setting Up NitonConnect For the First Time

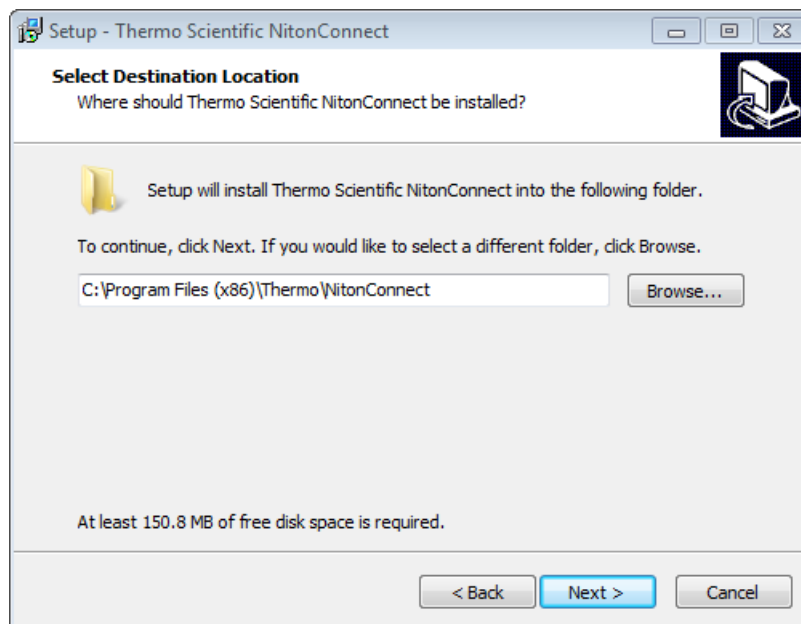
2. Select **Next** from the Welcome Window.



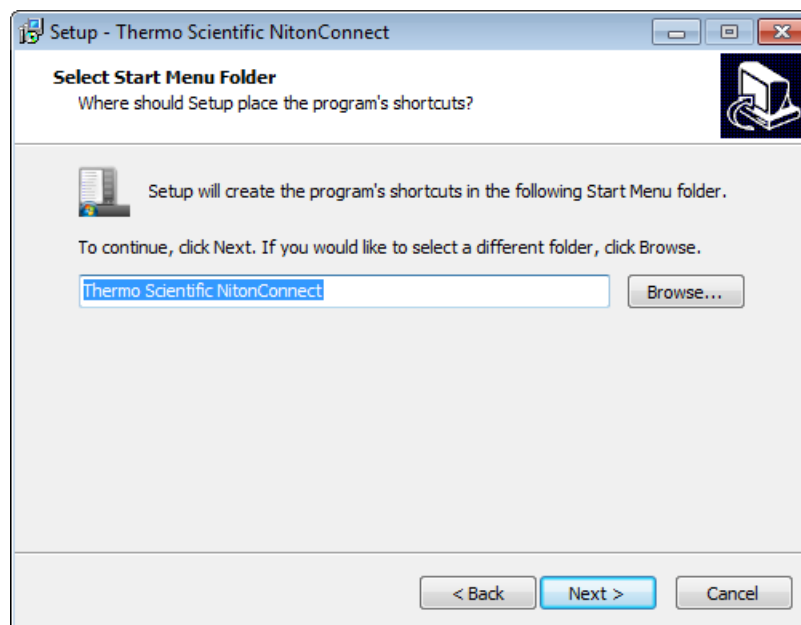
3. Select 'I accept the agreement', then select **Next**.



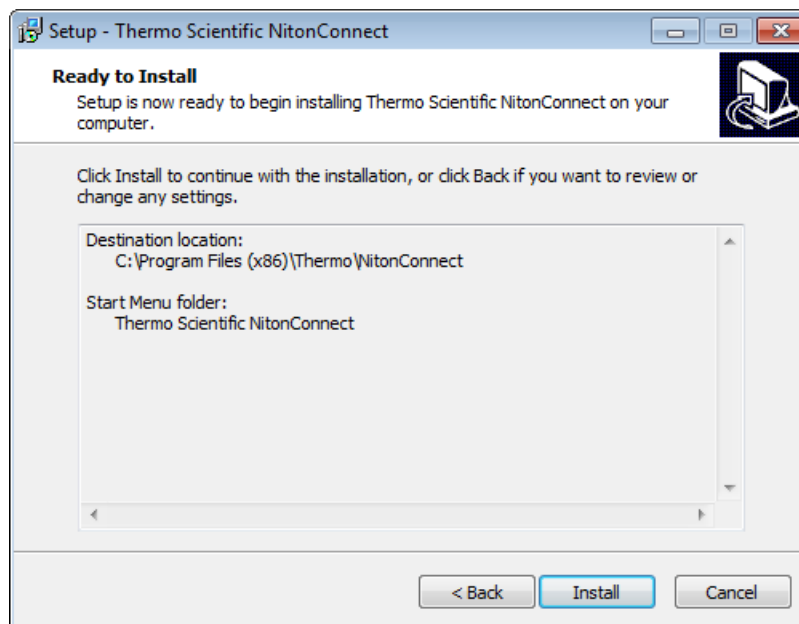
4. Set the Destination location, then select **Next**.



5. Select the Start Menu folder, then select **Next**.

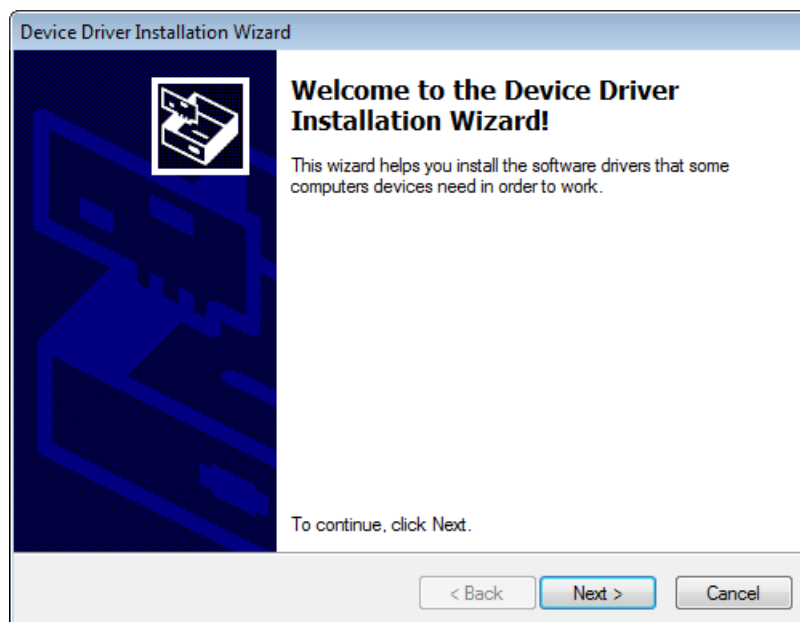


6. Select **Install** to install the NitonConnect software.

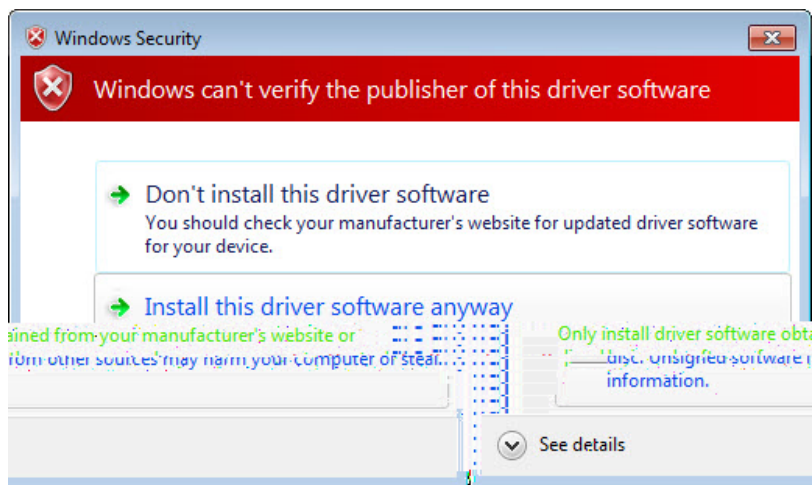


7. Select **Next** to install the device drivers.

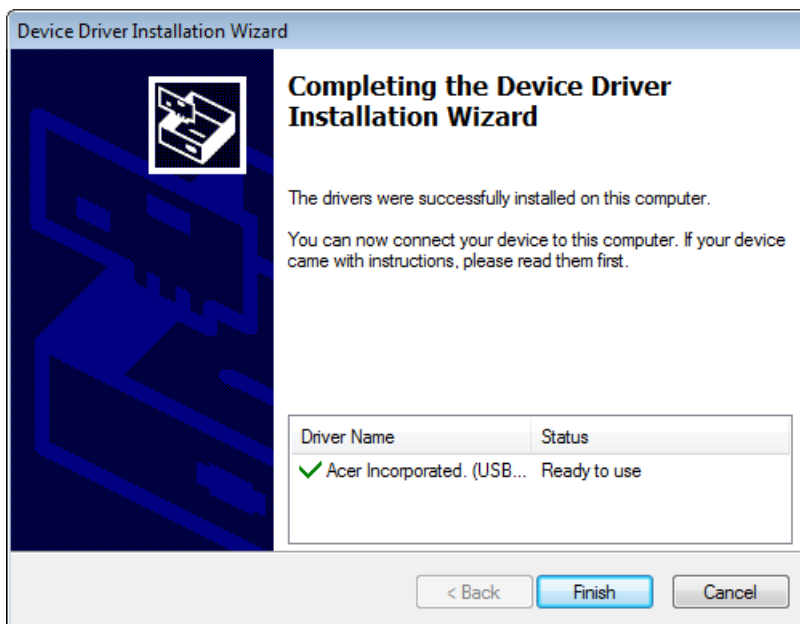
NOTE: If you are installing on Windows 10, this dialog does not display. Drivers will already be on your system.



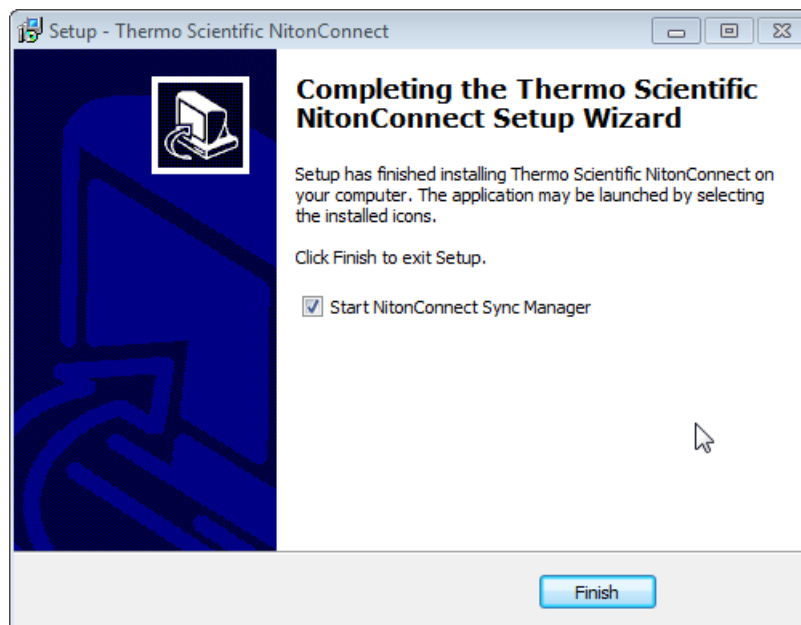
8. Optional: If a Windows Security alert window opens click the “**Install this driver software anyway**” option to install the required device driver.



9. Click **Finish** to complete the NitonConnect software installation.



10. Select the “Start NitonConnect Sync Manager” option and click **Finish**.

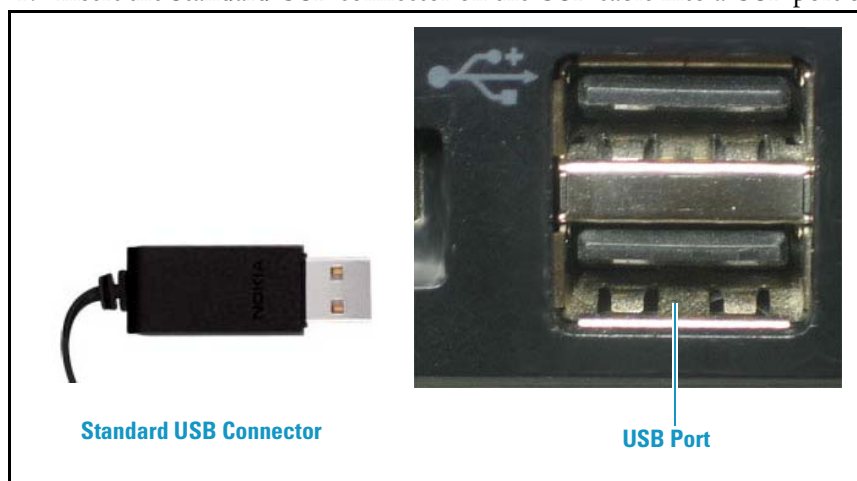


11. Copy the user documentation files from the thumb drive into any convenient folder on your hard drive.

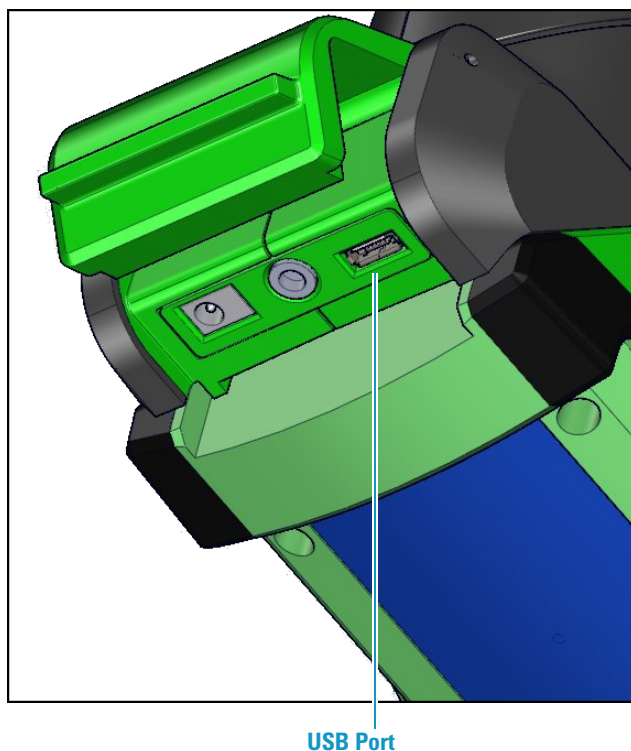
## Connecting your XL5 Analyzer to Your PC

To connect your XL5 analyzer to your computer, you need to use the USB cable provided.

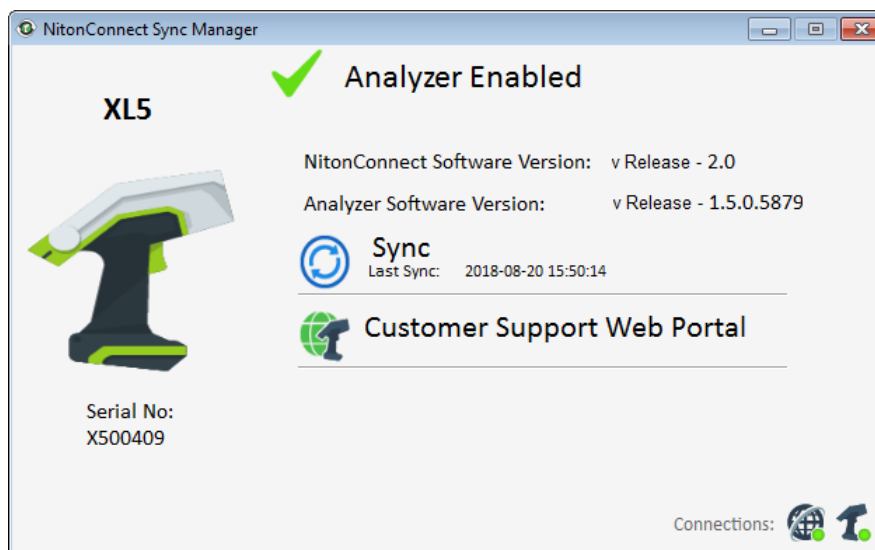
1. Insert the Standard USB connector on the USB cable into a USB port on your computer.



2. Open the cover on your analyzer.



3. Insert the mini USB connector into the USB port in the handle of your analyzer.
4. There will be a short delay until your computer recognizes your analyzer. When it is ready, your computer will display the NitonConnect Sync Manager Analyzer Enabled window.



## Connecting your Apollo Analyzer to Your Computer

When the Apollo analyzer is connected to your computer, you can control the analyzer from your computer keyboard using NitonConnect Remote.

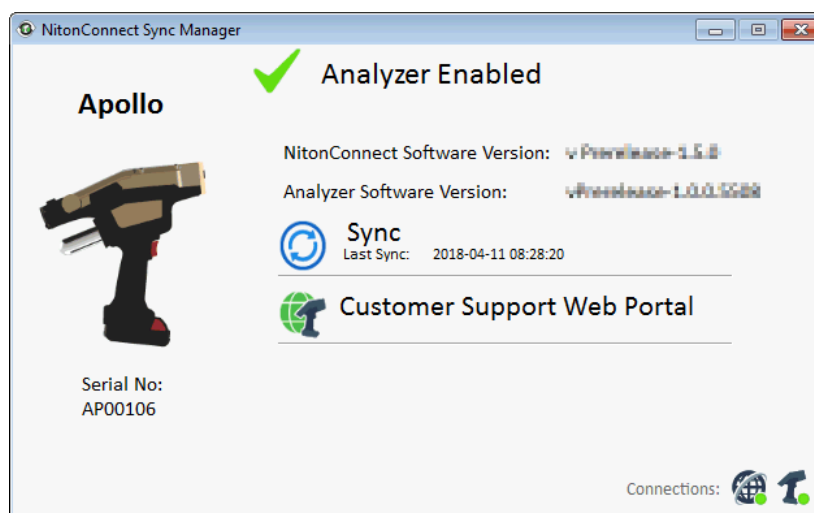
**Note** To connect your analyzer to your computer, use the USB Type-C cable provided in the carrying case.

1. Power on your computer. Insert the Type-C USB connector into a computer USB port.
2. Insert the Type-C USB connector into a USB port of your analyzer.

NOTE: Do not stand the analyzer on the battery because it is likely to fall over. The image below is just meant to show connectivity.



3. There will be a short delay as your analyzer is recognized by your computer before becoming linked into the NitonConnect software. When it is ready, your computer will display the NitonConnect Sync Manager Analyzer Enabled window.



## Opening NitonConnect Data

First connect your analyzer to your computer, and confirm **Analyzer Enabled**. Then use either method below to open NitonConnect Data.

- Double-click the NitonConnect Data icon.



NitonConnect Data

- Double-click **NitonConnect.exe** in C:\Program Files\Thermo\NitonConnect.



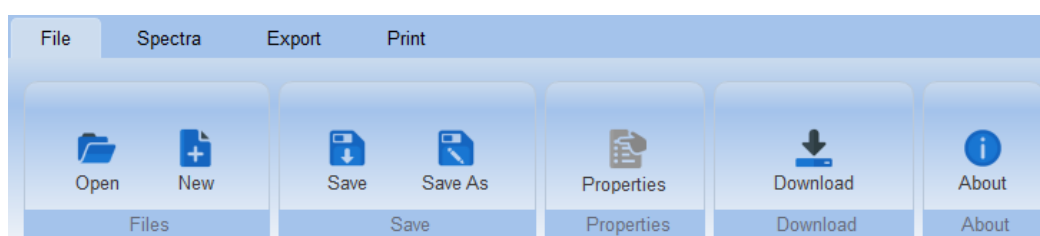
NitonConnect.exe

## **1 Installing NitonConnect Suite**

### **Setting Up NitonConnect For the First Time**

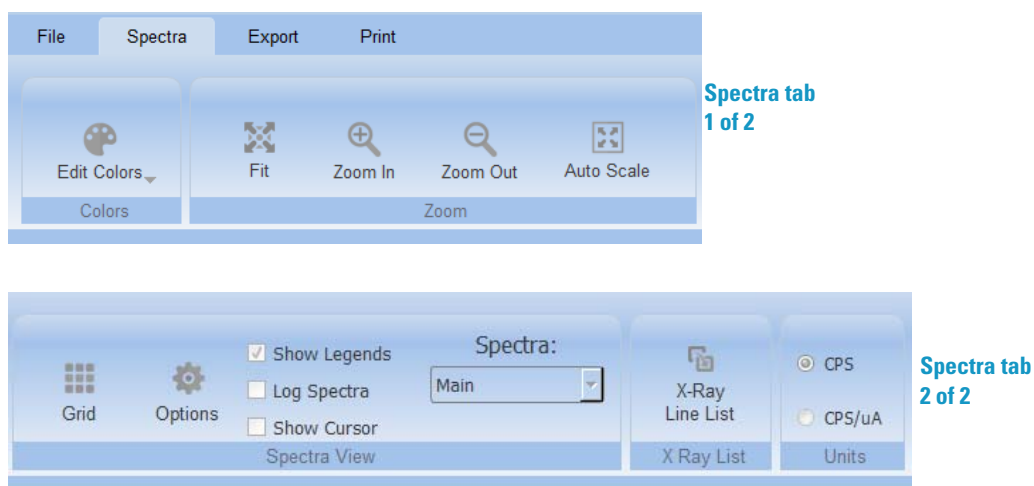
# NitonConnect Data

NitonConnect Data is organized into tabs. The tabs are:



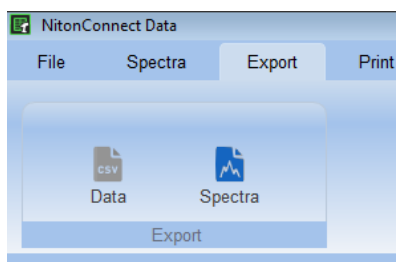
**Figure 1. The File Tab**

File - for opening, creating, saving, and downloading data files.



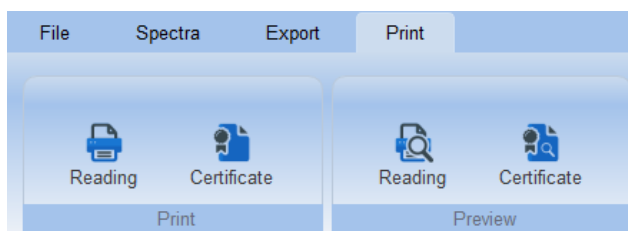
**Figure 2. The Spectra Tab**

Spectra - for viewing, analyzing, scaling, and other spectra functions.



**Figure 3. The Export Tab**

**Export** - for exporting data and spectra to other programs.



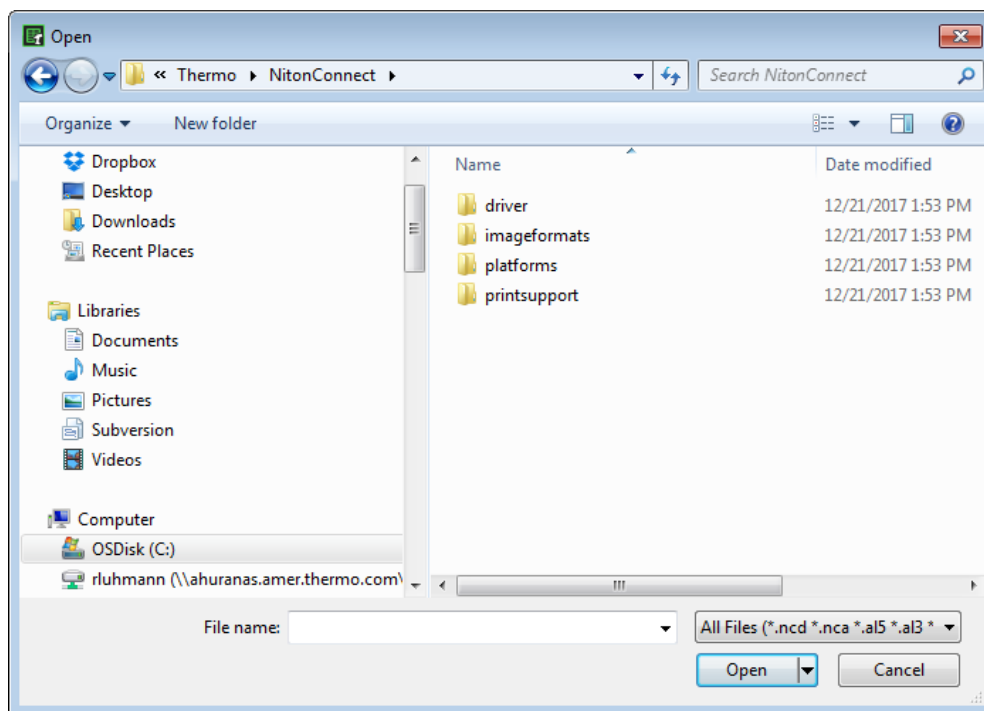
**Figure 4. The Print Tab**

**Print** - for printing or previewing printed readings and certificates.

# The Files Tab

## Open

Selecting **Open** lets you open previously saved files.



**Figure 5. Open File Window**

Select the files you want to open. NitonConnect Data can open these file formats:

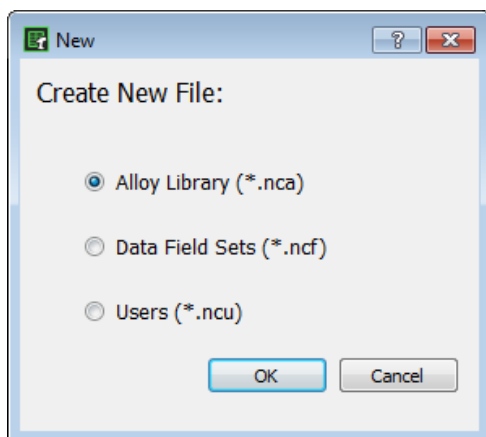
- Readings (\*.ncd)
- Alloy Libraries (\*.nca \*.al5 \*.al3)
- Data Field Sets (.ncf)
- Wi-Fi Certificates (\*.pem \*.crt \*.cer \*.ca)
- Users (\*.ncu)

## New

Selecting **New** lets you create new Alloy Library, Data Field Sets, or Users files.

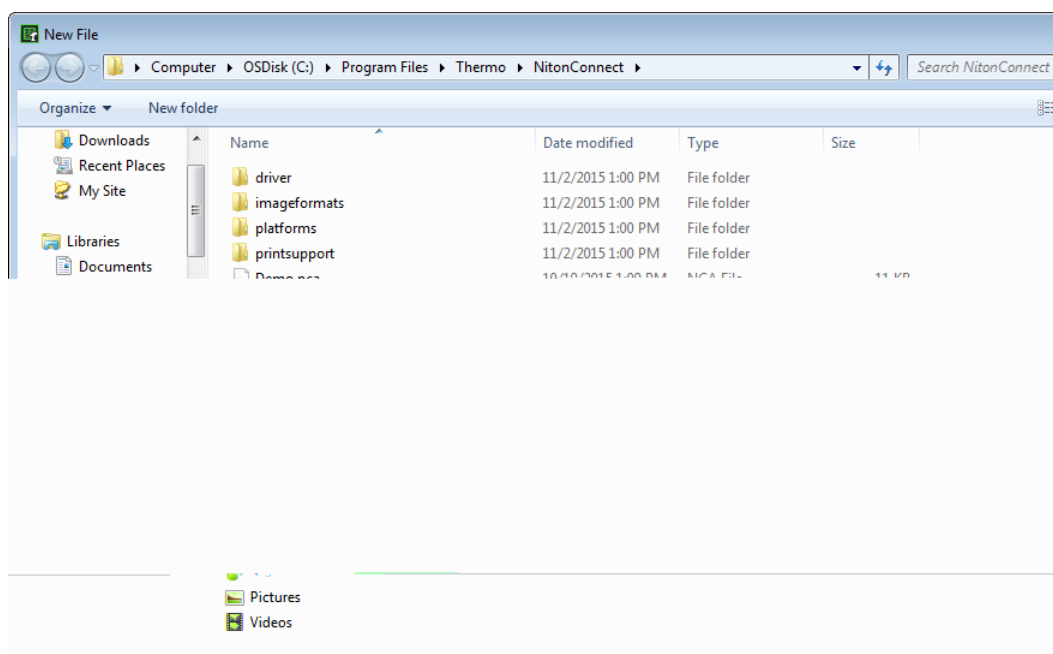
**Note** Users (\*.nca) files are not supported for the Apollo analyzer.

### For Library Files:



**Figure 6. Create New File Window**

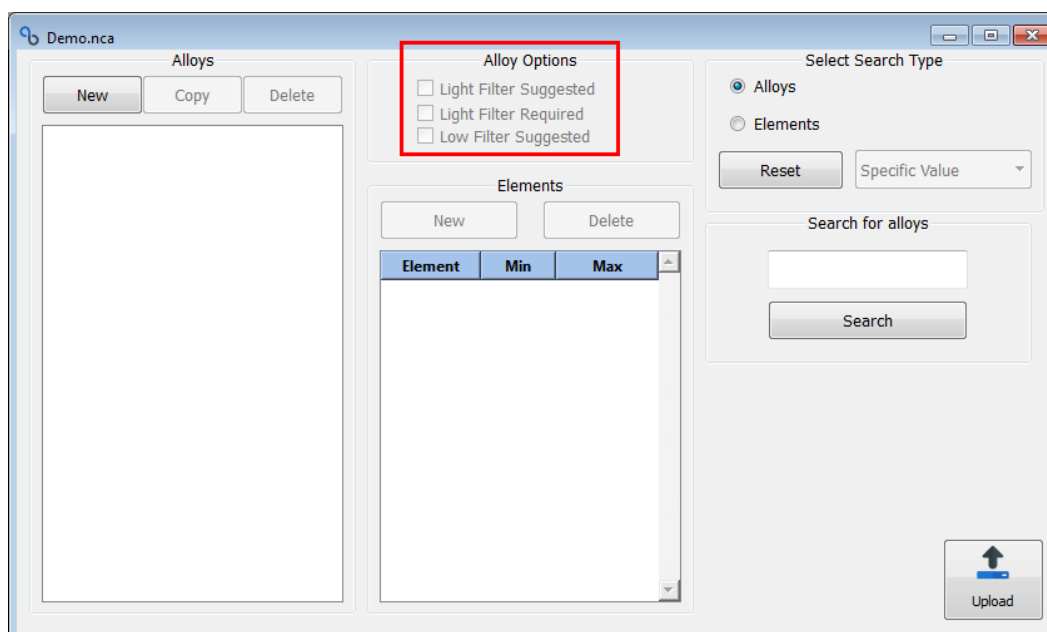
Select **OK** to create.



**Figure 7. Naming the File**

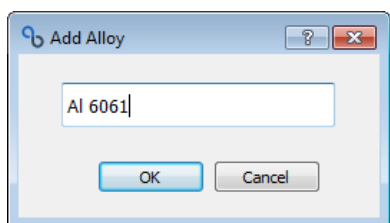
Name the file you want to create. In this instance the file is named Demo.nca

**Note** The 3 filter checkboxes (highlighted below) are ignored for an Apollo alloy library.



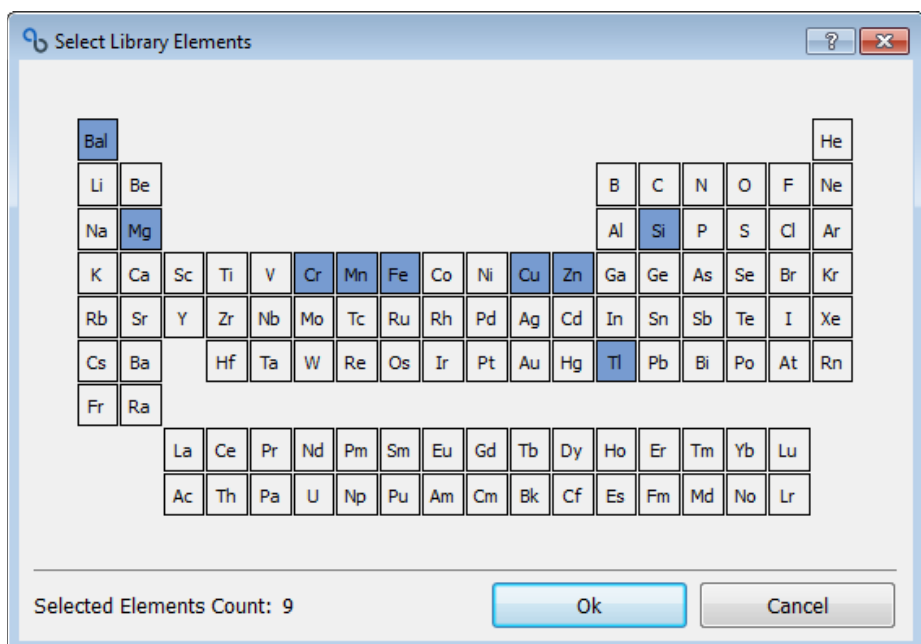
**Figure 8. Alloy Library Building Screen**

Select the New button to build your library by adding alloys of interest



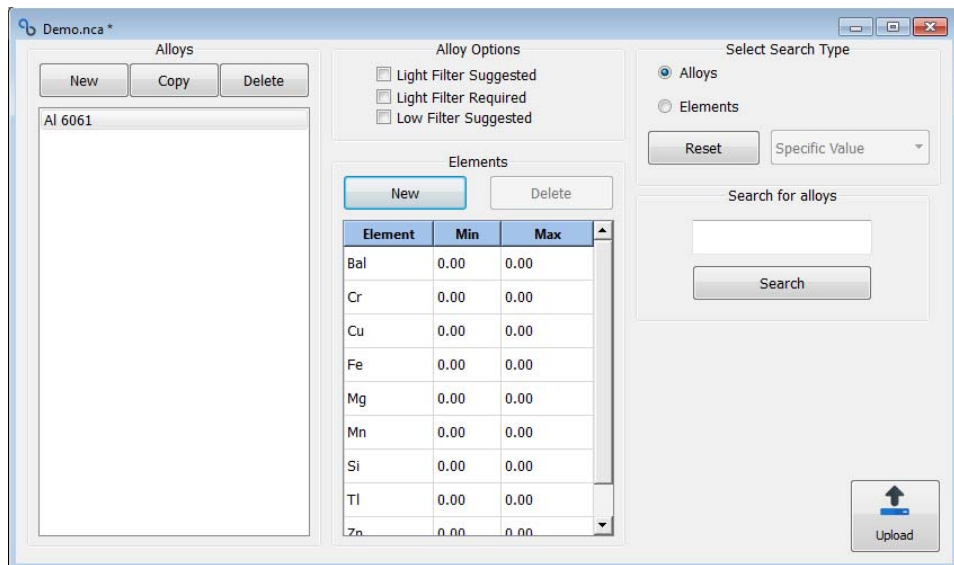
**Figure 9. Adding an Alloy**

Then create the alloy by adding elements of interest. Select the **OK** button.



**Figure 10. Elemental Selection Chart**

This will include all selected elements into the alloy definition.



**Figure 11. Alloy Elements Included In Definition**

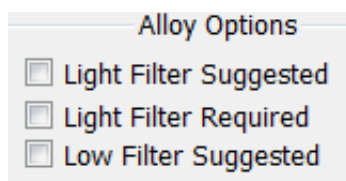
Select and modify the Max content, then the Min content, of each element included.

| Element | Min  | Max  |
|---------|------|------|
| Mg      | 0.00 | 0.00 |
| Mn      | 0.00 | 0.00 |
| Si      | 0.40 | 0.80 |
| Ti      | 0.00 | 0.00 |
| Zn      | 0.00 | 0.00 |

**Figure 12. Editing Elemental Min and Max**

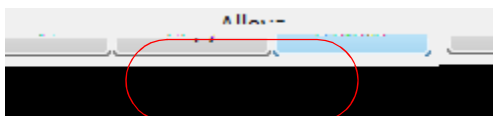
Select “Light Filter Suggested”, “Light Filter Required”, or “Low Filter Suggested” as appropriate.

- If “Light Filter Required” is selected, then the alloy can be displayed only once the element content of “Light Filter” has been measured.
- “Light Filter Suggested” and “Low Filter Suggested” are relevant when Smart Filter Switching is enabled to differentiate grades that are close based upon their content measured on Low or Light Filters.



**Figure 13. Filter Option Checked**

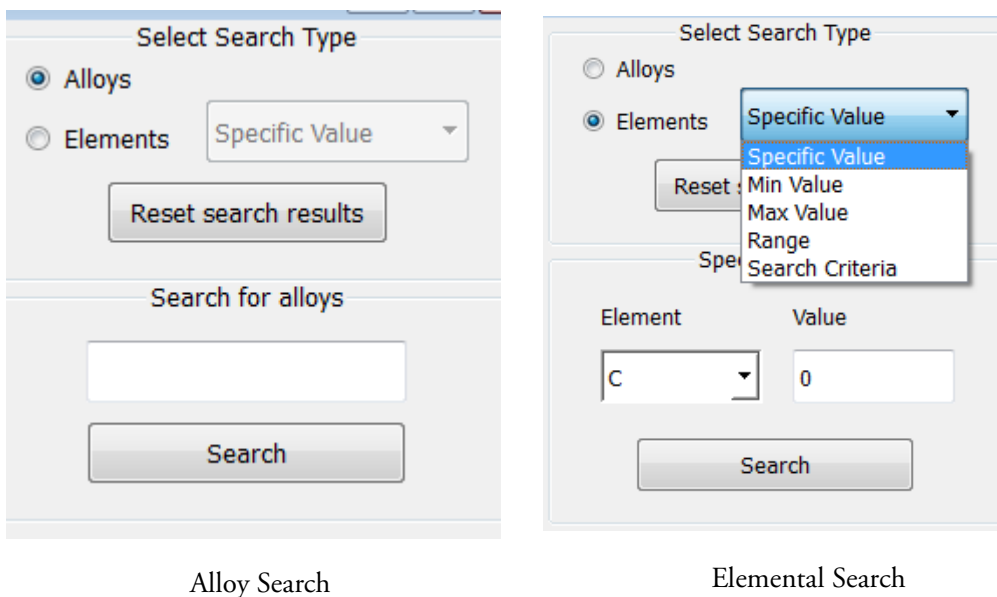
Once you have one alloy finished, you can select the Copy Alloy button to create similar alloys. Just copy the alloy and change the proportions of elements which are different.



**Figure 14. The Copy Alloy Button**

- The New button creates a new alloy.

- The Copy button copies the selected alloy.
- The Delete button deletes the selected alloy.
- Alloy Options displays all filter options for this library.
- The Search function is switchable between searching alloys and searching elements.



**Figure 15. Elemental Search - with Values List Displayed**

When searching alloys, enter the name of the alloy in the Search for Alloys text field.

When searching for elements, you can search for an elemental value by selecting the button after Elements, and selecting a search type from the drop-down Values list.

## Value List

You can select between searching for Specific Values, Min. Values, Max. Values, a Range of Values, or Search Criteria by selecting from the Value Menu. The Search options will change accordingly.

The figure displays five distinct search interface panels, each with a title bar and a 'Search' button.

- Specific Search:** Features two input fields: 'Element' (a dropdown menu with 'C' selected) and 'Value' (a text box containing '0').
- Min Search:** Features two input fields: 'Element' (a dropdown menu with 'C' selected) and 'Min' (a text box containing '0').
- Max Search:** Features two input fields: 'Element' (a dropdown menu with 'C' selected) and 'Max' (a text box containing '0').
- Range Search:** Features three input fields: 'Element' (a dropdown menu with 'C' selected), 'Min' (a text box containing '0'), and 'Max' (a text box containing '0').
- Search Criteria:** Features three input fields: 'Element' (a dropdown menu with 'C' selected), 'Criteria' (a dropdown menu with '=' selected), and 'Value' (a text box containing '0'). Below these fields are 'Add' and 'Clear' buttons, followed by a large empty rectangular box, and finally a 'Search' button.

**Figure 16. Values Menu Options**

- Specific Value will return all matches for a specified value in either max or min content.
- Min Value will return all matches for a specified value in min content.
- Max Value will return all matches for a specified value in max content.
- Range will return all matches between the specified max and min values.
- Search Criteria allows you to specify values for multiple elements.

Select Search Type

☐ Alloys

☒ Elements

Search Criteria

Reset search results

Search Criteria

| Element | Criteria | Value |
|---------|----------|-------|
| V       | <=       | 2     |

Add Clear

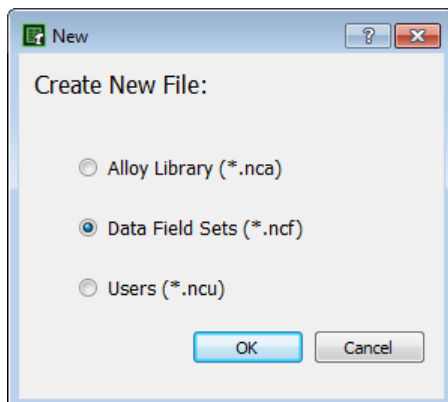
Cr>18  
Mg<12  
V<=2

Search

**Figure 17. Search by Criteria**

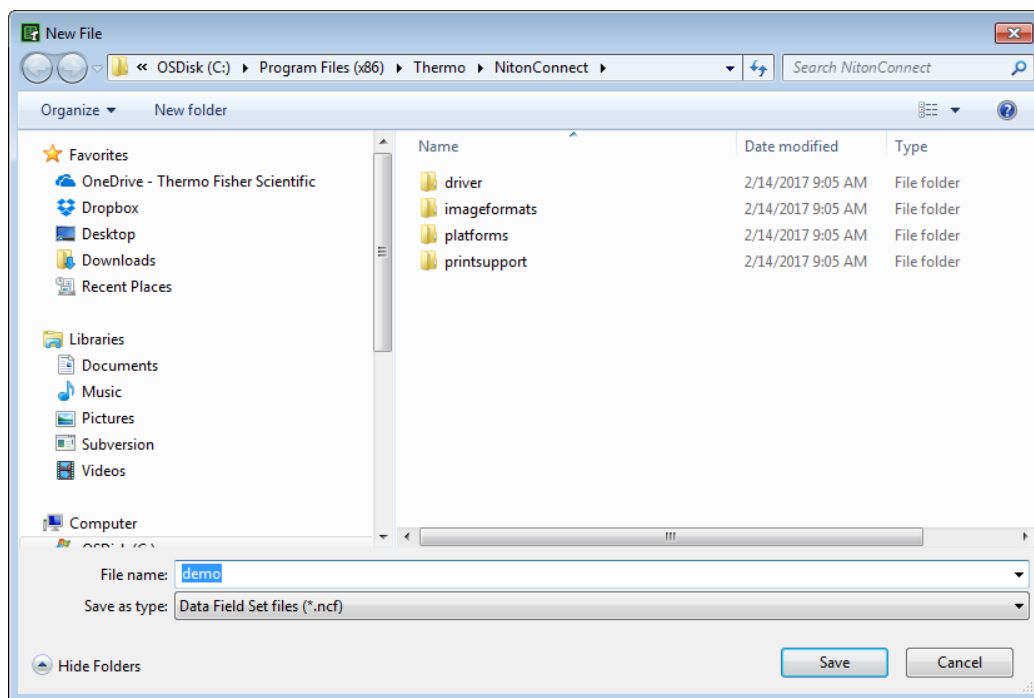
Select an element from the Element drop-down list, then select a relational operator (=, <, >, <=, or >=) from the Criteria drop-down list, then enter a value. When you are ready, select the Add button to add it to the list of criteria. Multiple criteria may be added to the list. The Clear button will clear the list. Select the Search button when your list is complete. All alloys meeting the criteria will be returned.

## For Data Field Sets Files:



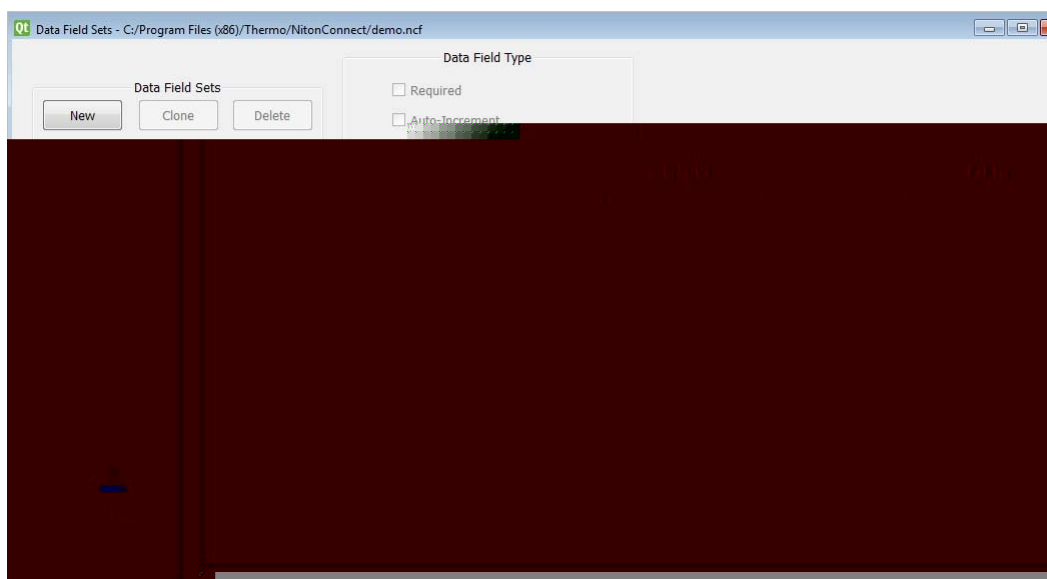
**Figure 18. Create New File Window**

Select OK to create.



**Figure 19. Naming the File**

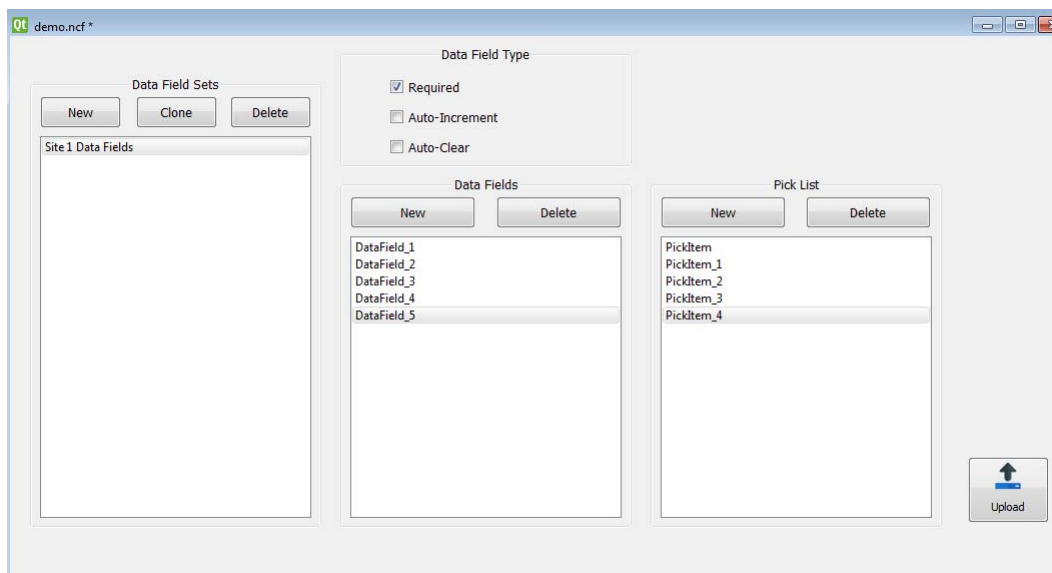
Name the file you want to create. In this instance the file is named Demo.ncf



**Figure 20. Data Field Sets Building Screen**

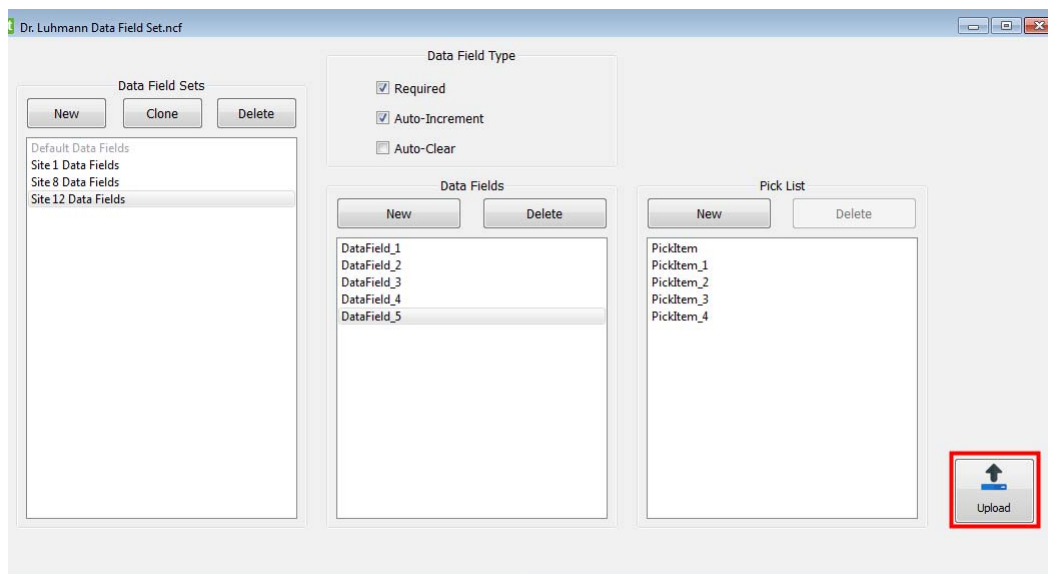
Select the New button to build a Data Field Set. Four data field attributes are described below.

- **Required** – A required data field must have a value assigned (on the analyzer) before a reading can be taken.
- **Auto Increment** – An incremental data field's value will be automatically incremented after a reading is taken and saved.
- **Auto-Clear** – An auto-clear field's assigned value will be cleared after a reading is taken and saved.
- **Pick List** – Pick lists provide a means to associate common values with a data field.



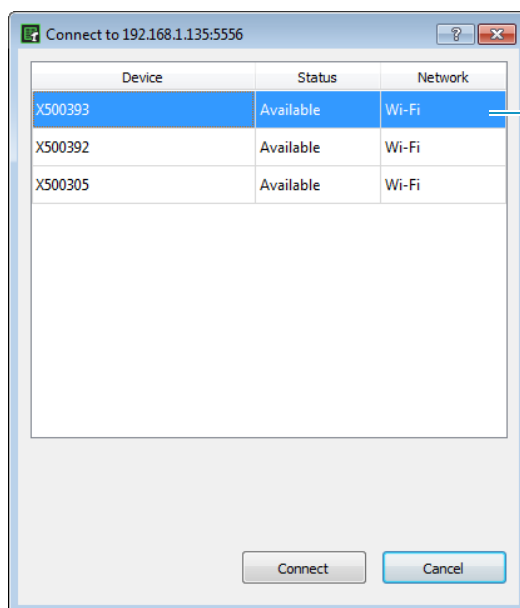
❖ **To upload Data Field Sets from NitonConnect Data to an analyzer**

1. In the Data Field Set (.ncf) window, select **Upload**.



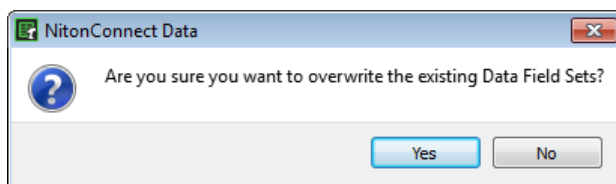
2. Select an analyzer to connect to, if prompted:

- If your analyzer is connected via USB to a PC, no selection is required. You are already connected.
- If your analyzer is connected to a Wi-Fi network, multiple devices may display as shown below.

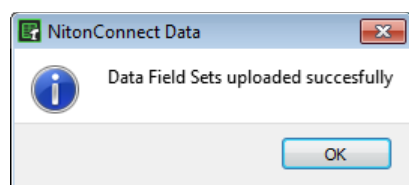


If the analyzer is connected to a Wi-Fi network, choose a device and select **Connect**.

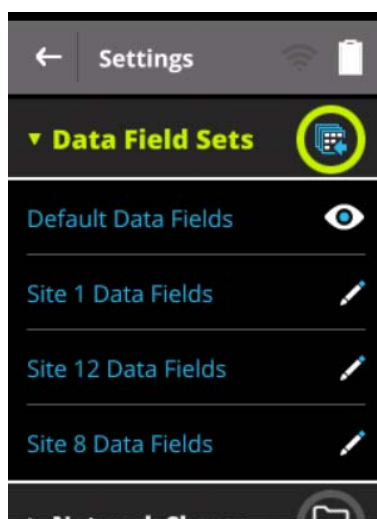
3. Select **Yes** if you want to upload the new Data Field Set to the analyzer. Note that this will overwrite the existing data field sets.



4. A message confirms that the Data Field Sets uploaded to the device.



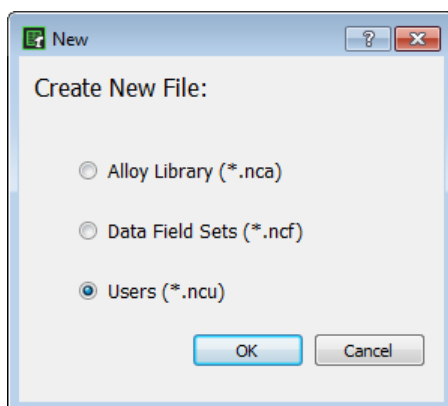
5. As added confirmation go to the device. From the home screen and select **Settings > Data Field Sets** to verify the new data field sets.



6. Go to the **Active Profile** and select the new Data Field Set. Reset the "Use Data Field Set" setting in each Profile, otherwise it will be set to the Default Data Fields.
7. Go to the **Analyze** screen to take a scan. Confirm that the new data fields are active and values can be entered.

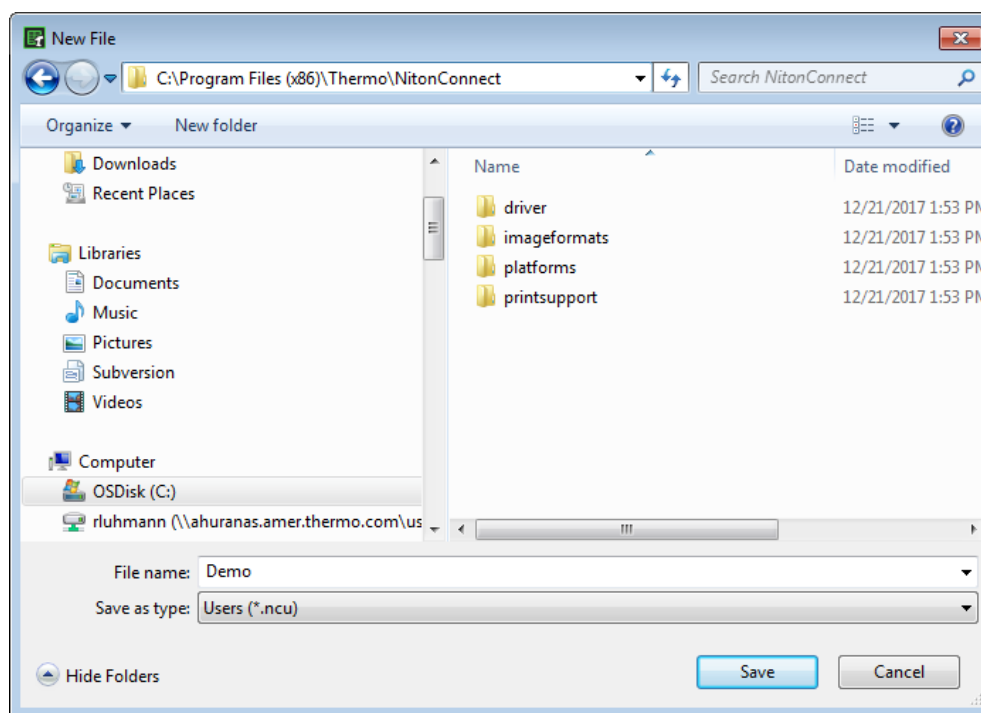
## For Users Files:

**Note** Users (\*.nca) files are not supported for the Apollo analyzer.



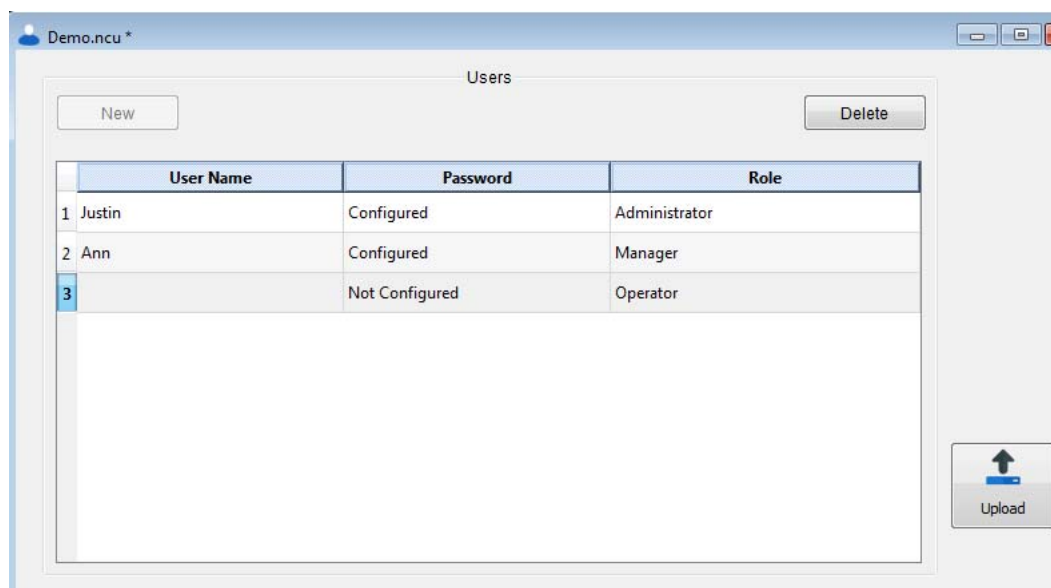
**Figure 21. Create New File Window**

Select OK to create.



**Figure 22. Naming the File**

Name the file you want to create. In this instance the file is named Demo.ncf



**Figure 23. Users Building Screen**

Select the New button to build a User. Three data field attributes are described below.

- **User Name** – case sensitive, no duplicate name, 1-16 characters
- **Password** – 4-16 digits
- **Role** – see [Table 2](#) below for details

**Table 2. Role based access**

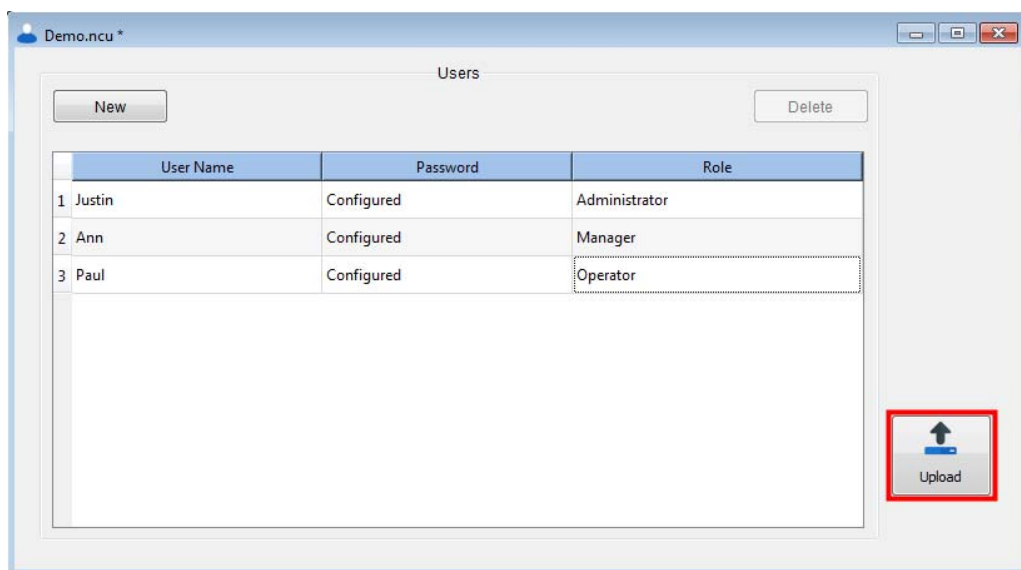
| Feature/Function                                | Administrator | Manager | Operator |
|-------------------------------------------------|---------------|---------|----------|
| <b>Analyze Screen</b>                           |               |         |          |
| Create Reading                                  | yes           | yes     | yes      |
| Modify Data Field values                        | yes           | yes     | yes      |
| Switch Active Profile                           | yes           | yes     | yes      |
| Edit Active Profile                             | yes           | yes     | no       |
| <b>Data Screen</b>                              |               |         |          |
| View, modify display, print or export a Reading | yes           | yes     | yes      |
| <b>Settings &gt; General</b>                    |               |         |          |
| Edit Date/Time                                  | yes           | yes     | no       |
| Edit Camera Usage                               | yes           | no      | no       |
| Edit Device Language                            | yes           | yes     | yes      |
| Edit EULA on startup                            | yes           | yes     | no       |

**Table 2. Role based access**

| Feature/Function                       | Administrator | Manager | Operator |
|----------------------------------------|---------------|---------|----------|
| <b>Settings &gt; Connectivity</b>      |               |         |          |
| All functionality                      | yes           | yes     | no       |
| <b>Settings &gt; Profiles</b>          |               |         |          |
| Create/Clone/Edit                      | yes           | yes     | no       |
| Delete/Revert                          | yes           | yes     | no       |
| <b>Settings &gt; Libraries</b>         |               |         |          |
| Clone/Edit/Delete                      | yes           | yes     | no       |
| <b>Settings &gt; Data Field Sets</b>   |               |         |          |
| Clone/Edit/Delete                      | yes           | yes     | no       |
| <b>Settings &gt; Network Shares</b>    |               |         |          |
| Clone/Edit/Delete                      | yes           | yes     | no       |
| <b>Settings &gt; Maintenance</b>       |               |         |          |
| Set System Check reminder              | yes           | no      | no       |
| Edit Safety                            | yes           | yes     | no       |
| Delete all Readings                    | yes           | yes     | no       |
| Delete Certificate files               | yes           | yes     | no       |
| <b>Settings &gt; Users</b>             |               |         |          |
| Create, Edit, Delete, View other Users | yes           | no      | no       |
| Edit (self) User Name                  | yes           | no      | no       |
| Edit (self) Password                   | yes           | yes     | yes      |
| Edit (self) Role                       | no            | no      | no       |

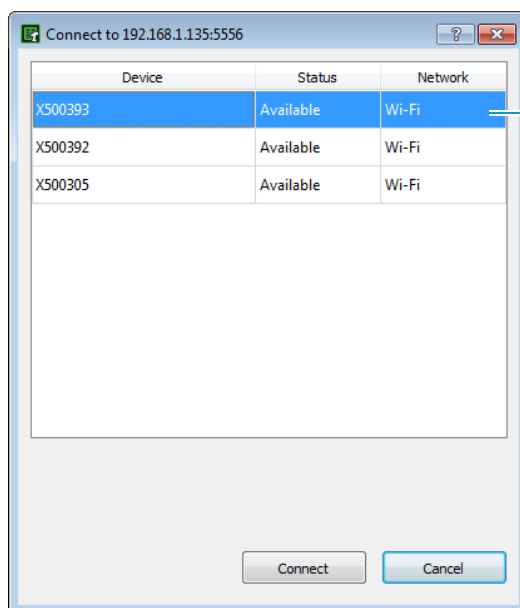
❖ To upload Users from NitonConnect Data to an analyzer

1. In the Users (.ncu) window, select **Upload**.



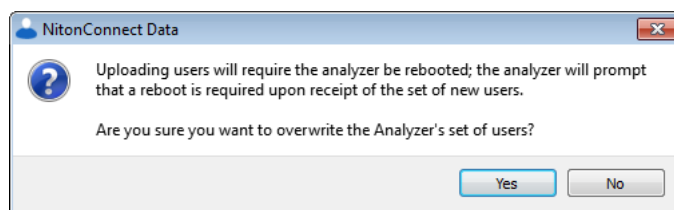
2. Select an analyzer to connect to, if prompted:

- If your analyzer is connected via USB to a PC, no selection is required. You are already connected.
- If your analyzer is connected to a Wi-Fi network, multiple devices may display as shown below.



If the analyzer is connected to a Wi-Fi network, choose a device and select **Connect**.

3. Select **Yes** if you want to upload the new Users to the analyzer. Note that this will overwrite the existing set of Users.

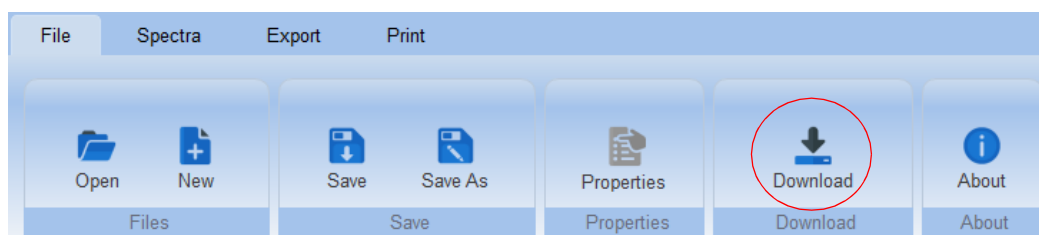


4. Reboot the analyzer to activate new Users.

## Download

To download collected data:

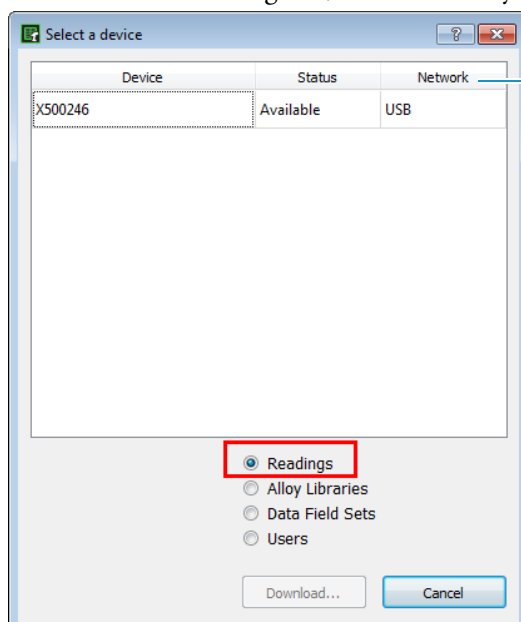
1. Make sure that your analyzer is powered on and connected to your computer.
2. Turn on your analyzer. See the XL5 User's Guide for more information.
3. Start NitonConnect Data.
4. Click the Download button. The Download dialog box will open. See ["Readings"](#) on [page 30](#)



**Figure 24. The Download Button**

## Readings

In the Download dialog box, Select the analyzer you want to connect with.

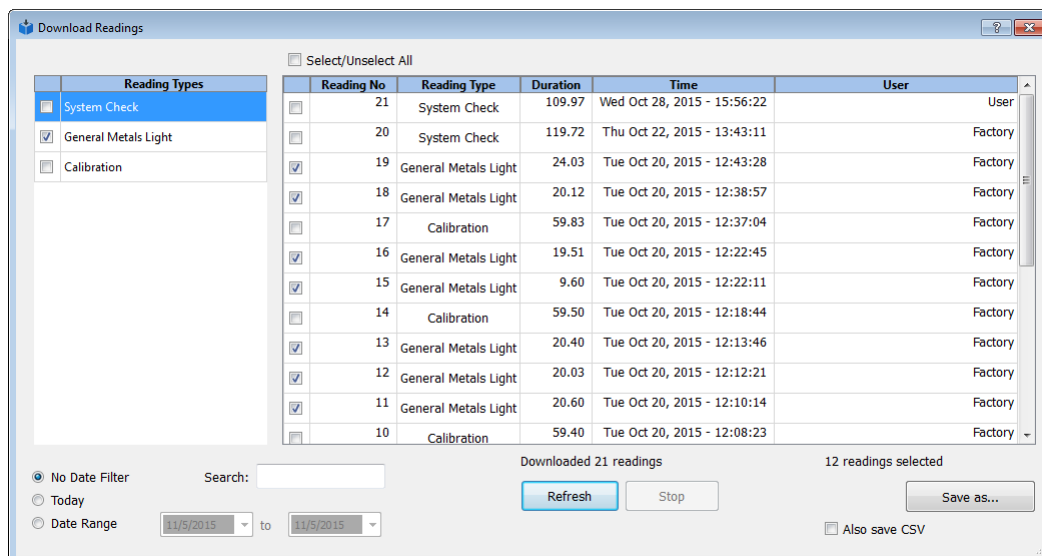


If the analyzer is connected to a Wi-Fi network, multiple devices may display.

Select the correct device to download readings from.

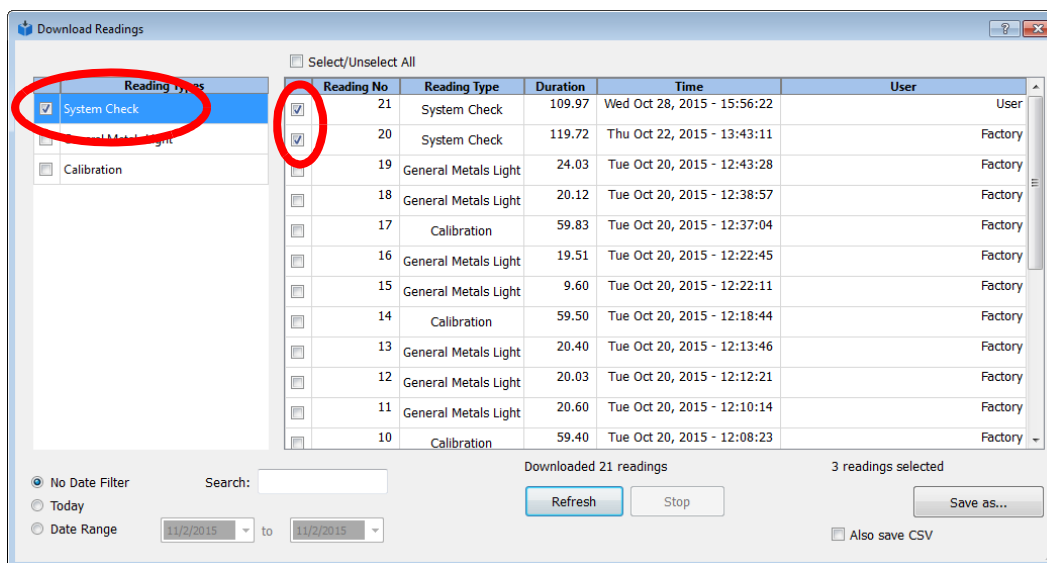
**Figure 25. Connecting to an analyzer**

Select the Readings radio button, then the Download button to download the reading data.



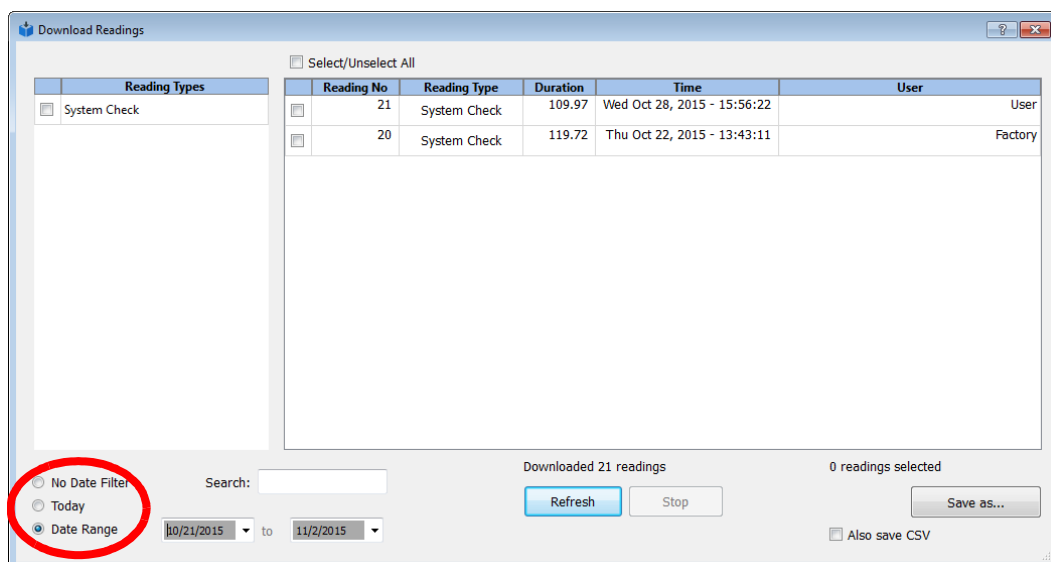
**Figure 26. Downloaded Readings**

The Download Readings window will load. This window has many tools for selecting and displaying readings to your preference.



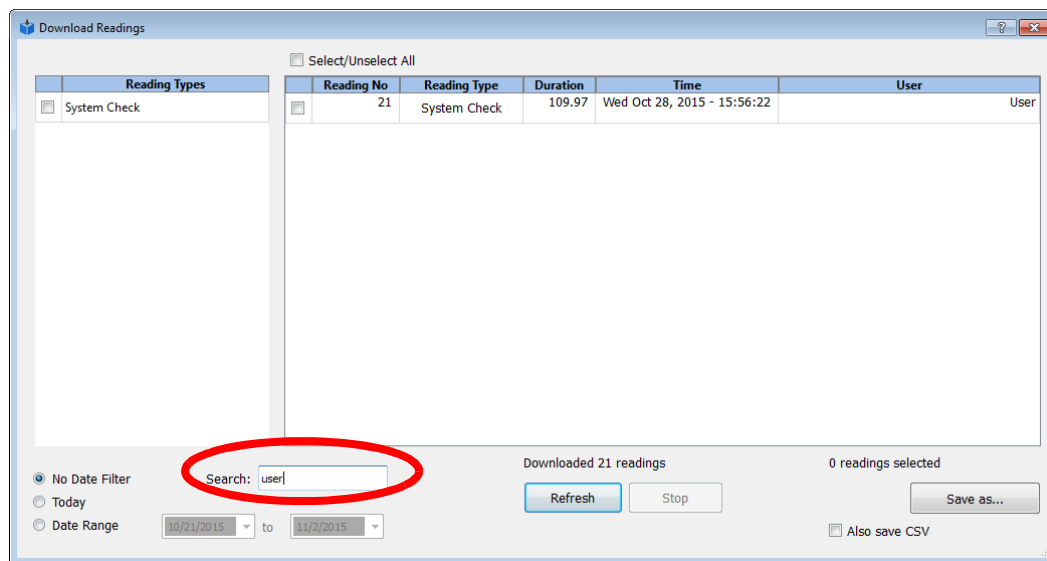
**Figure 27. Reading Type System Check Selected**

By selecting a Reading Type in the upper left box, you can select all readings with that type in the list.



**Figure 28. Date Range Filter Selected**

By selecting a date filter, like Today or Date Range, you can filter out any readings not matching the filter.



**Figure 29. Using Search to Filter**

You can also filter by search words, using the Search field.

Select the Save as button to save selected readings as an .ncd file.

Check the Also Save CSV checkbox before saving to also save a Comma Separated Value (CSV) version of the readings list as well as the .ncd format file.

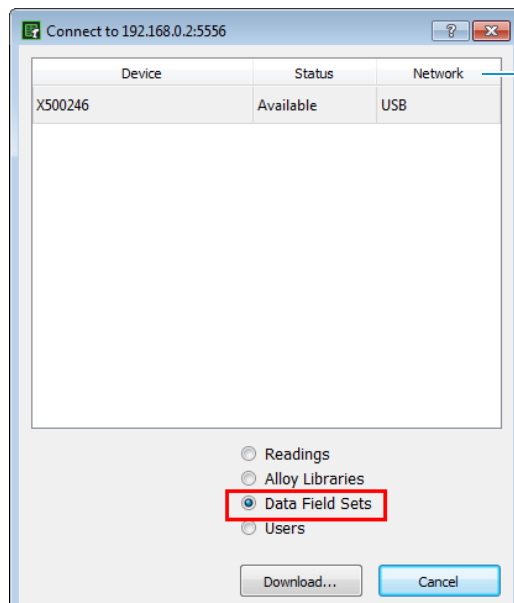
## Data field Sets

An analyzer's collection of Data Field Sets can be copied to NitonConnect Data, edited, and subsequently deployed to one or more analyzers.

### ❖ To download Data Field Sets from the device

1. Connect the analyzer to the PC running NitonConnect Data. Connect via USB, or connect the analyzer to the same Wi-Fi network that the PC is connected to.
2. In the Download dialog box, select the analyzer you want to connect with.

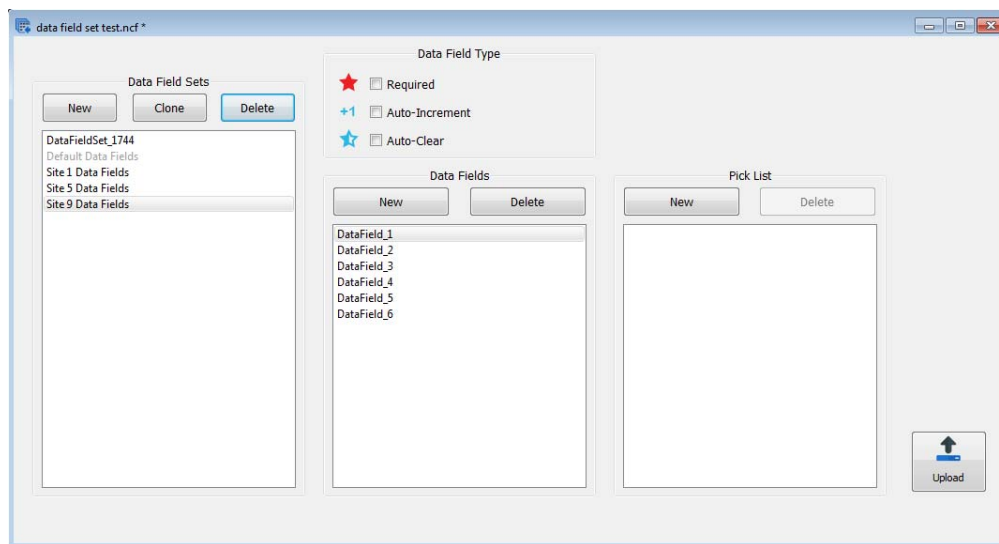
3. Select **Data Field Sets** and click **Download**.



If the analyzer is connected to a Wi-Fi network, multiple devices may display.

Select the correct device to download Data Field Sets from.

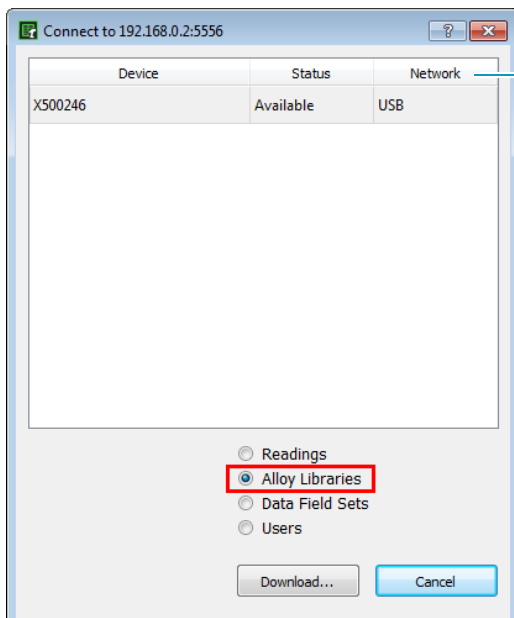
4. Edit a Data Field Set and the associated Data Fields and Pick List. You can also add new Data Fields sets or clone an existing set and edit them. **Save** your changes.



5. Uploading this file overwrites the existing Data Field Sets.

## Alloy Libraries

In the Download dialog box, Select the analyzer you want to connect with.



If the analyzer is connected to a Wi-Fi network, multiple devices may display.

Select the correct device to download alloy libraries from.

Figure 30. Selecting Libraries

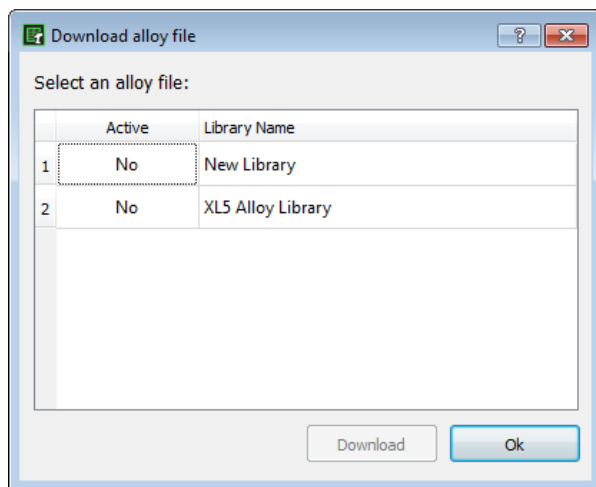


Figure 31. Selecting Specific Library

Select the Download button to download the library.

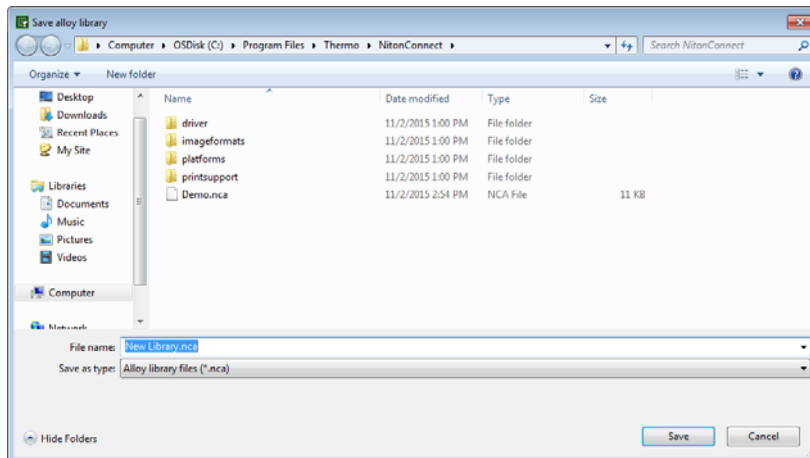


Figure 32. Saving the Downloaded Library

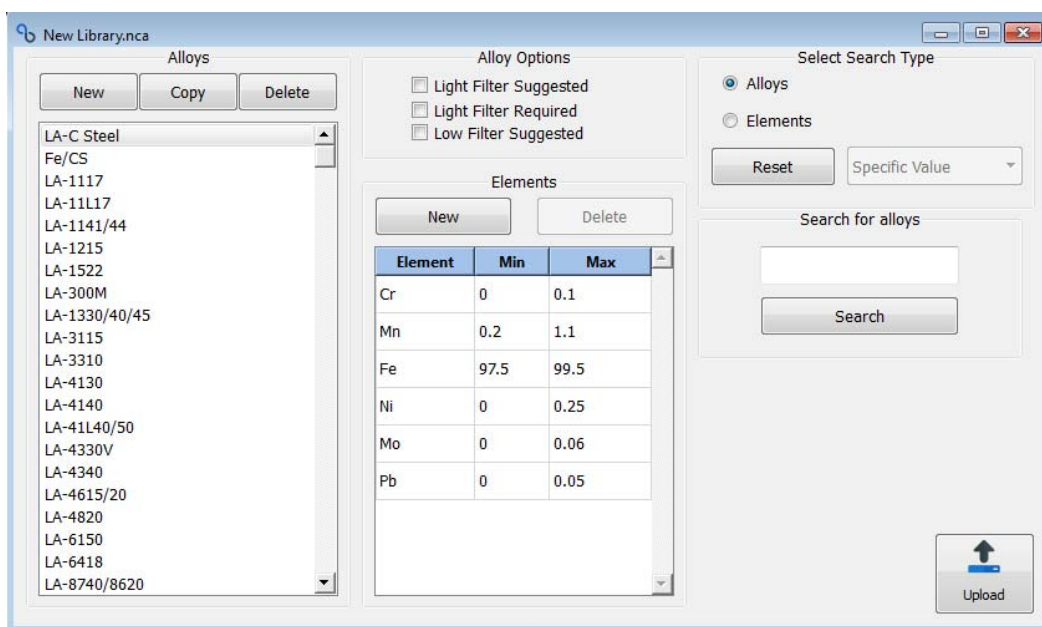


Figure 33. Library Downloaded

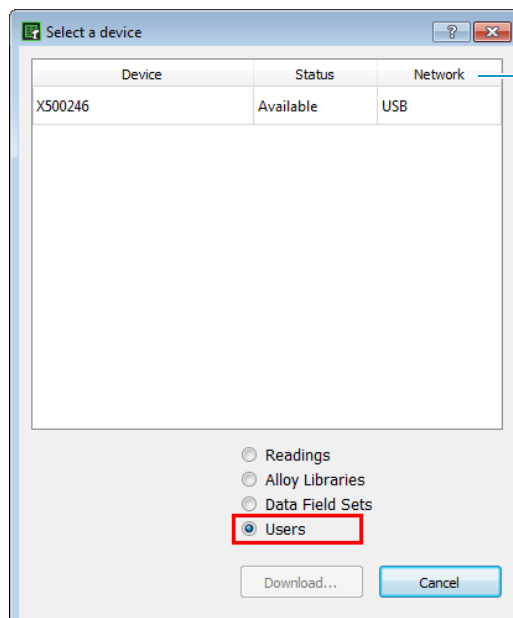
## Users

**Note** Users (\*.nca) files are not supported for the Apollo analyzer.

An analyzer's collection of Users can be copied to NitonConnect Data, edited, and subsequently deployed to one or more analyzers.

### ❖ To download Users from the device

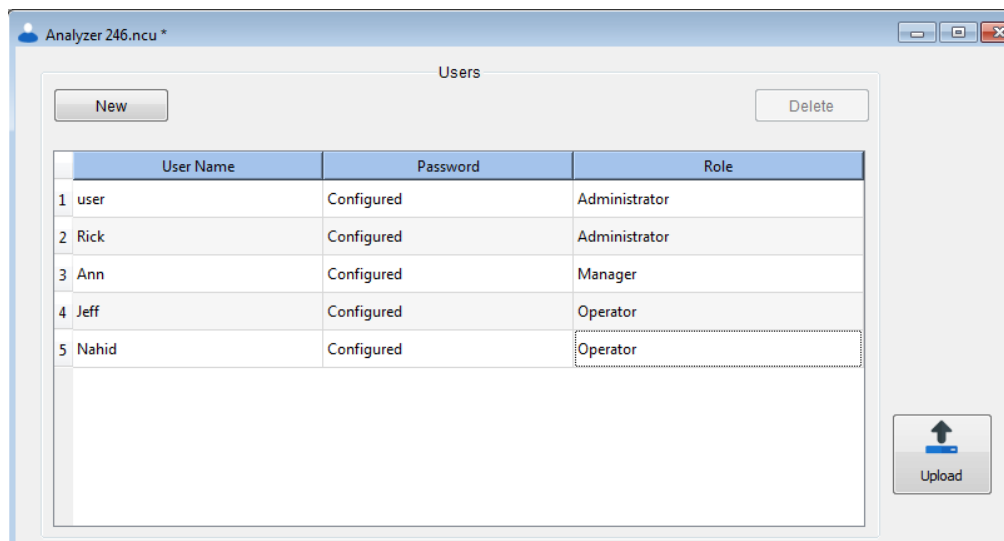
1. Connect the analyzer to the PC running NitonConnect Data. Connect via USB, or connect the analyzer to the same Wi-Fi network that the PC is connected to.
2. In the Download dialog box, select the analyzer you want to connect with.
3. Select **Data Field Sets** and click **Download**.



If the analyzer is connected to a Wi-Fi network, multiple devices may display.

Select the correct device to download Data Field Sets from.

4. Edit an existing User or add new Users, then Save your changes.



5. Uploading the users (.ncu) file to the analyzer requires a reboot and overwrites the analyzer's set of users.

## Save

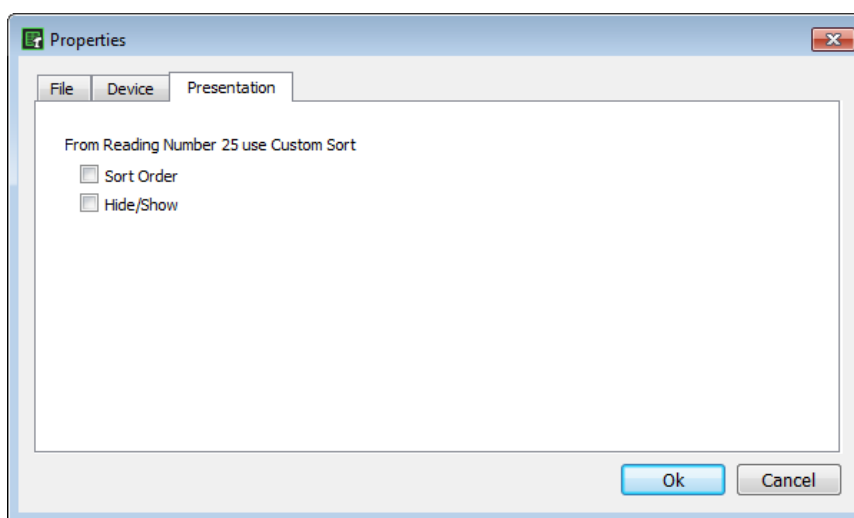
Selecting Save will save the current file under its current name.

## Save As

Selecting Save As will enable you to save the current file under a different name, or in a different folder.

## Properties

In the Properties window, the Presentation tab lets you configure how to display readings in NitonConnect. The File and Device tabs contain read-only data.

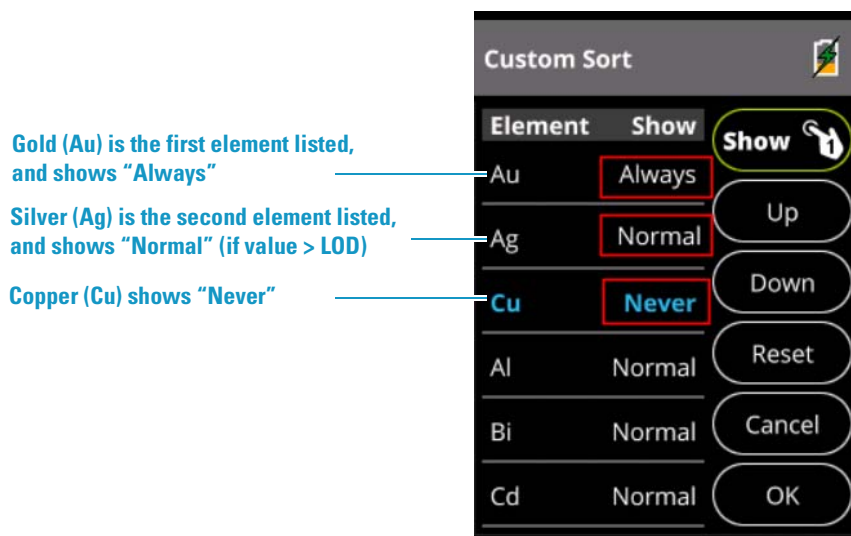


The Presentation tab allows the user to use the Custom Sort configuration associated with the last reading in the set of readings. Custom Sort controls how elements are displayed for a specific profile.

**Note** Presentation tab settings do not work unless a Custom Sort is already configured. To configure a Custom Sort, see the Niton XL5 User's Guide.

## Custom Sort Example

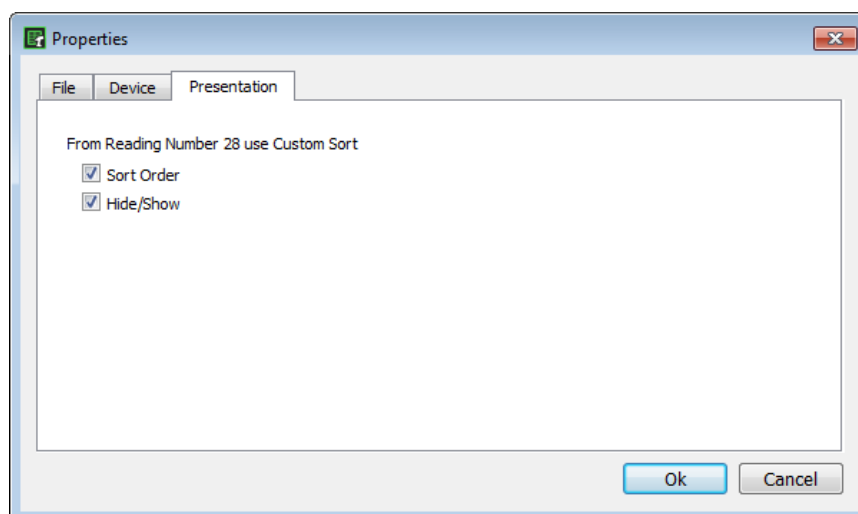
In this example, Gold, Silver, and Copper are configured to display in a Custom Sort. The Element column sets order of appearance, and the Show column sets display options.



## Presentation tab fields

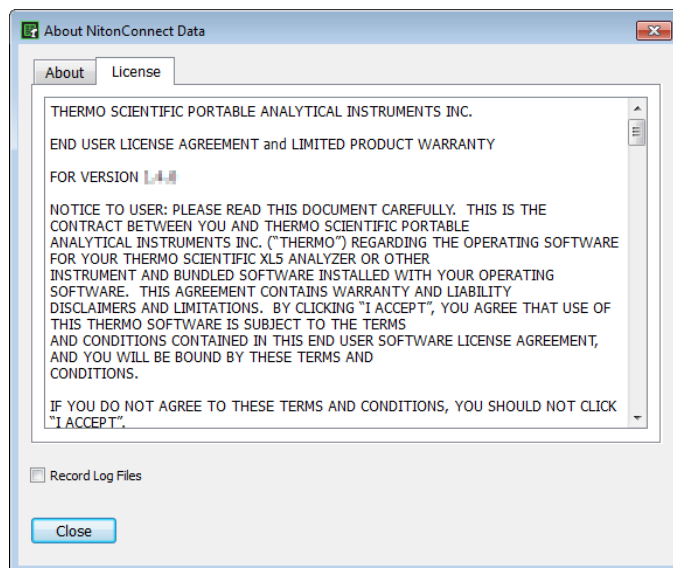
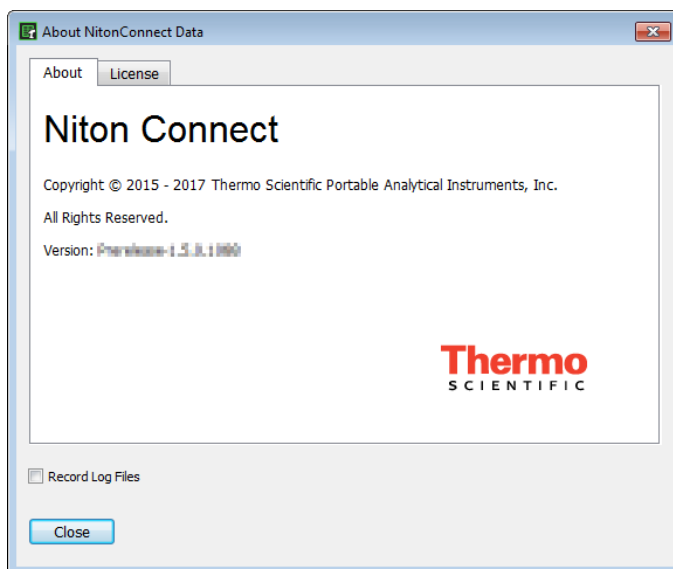
Based on the example Custom Sort screen, NitonConnect displays these downloaded results:

- If **Sort Order** is selected, Gold (Au) displays first and Silver (Ag) displays second
  - Reason: in the Element column, Custom Sort displays Au first and Ag second
- If **Hide/Show** is selected, Copper (Cu) never shows
  - Reason: in the Show column, Custom Sort setting for Cu is "Never"



## About

Select this topic to see the version number and software license.



**Figure 34. About NitonConnect Data**

## The Spectra Tab

**Note** The examples shown in this section are for the XL5 analyzer. If you are using the Apollo analyzer the workflow is similar, but the spectrum screens will look different.

Double click on any reading to view its spectrum.

2015-11-23.ncd

| Micro                                                                             | Macro                                                                             | Reading No | Reading Type         | Duration | Time                        | User | Sigma V |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------|----------------------|----------|-----------------------------|------|---------|
|  |  | 53         | General Metals       | 6.38     | Mon Nov 23, 2015 - 10:50:39 | User | 2       |
|  |  | 51         | General Metals Light | 6.76     | Mon Nov 23, 2015 - 10:47:21 | User | 2       |
|  |  | 52         | General Metals Light | 10.43    | Mon Nov 23, 2015 - 10:48:34 | User | 2       |
|  |  | 54         | General Metals       | 6.33     | Mon Nov 23, 2015 - 10:51:27 | User | 2       |
|  |  | 55         | General Metals       | 5.08     | Mon Nov 23, 2015 - 10:51:59 | User | 2       |

Figure 35. Single Reading Selected

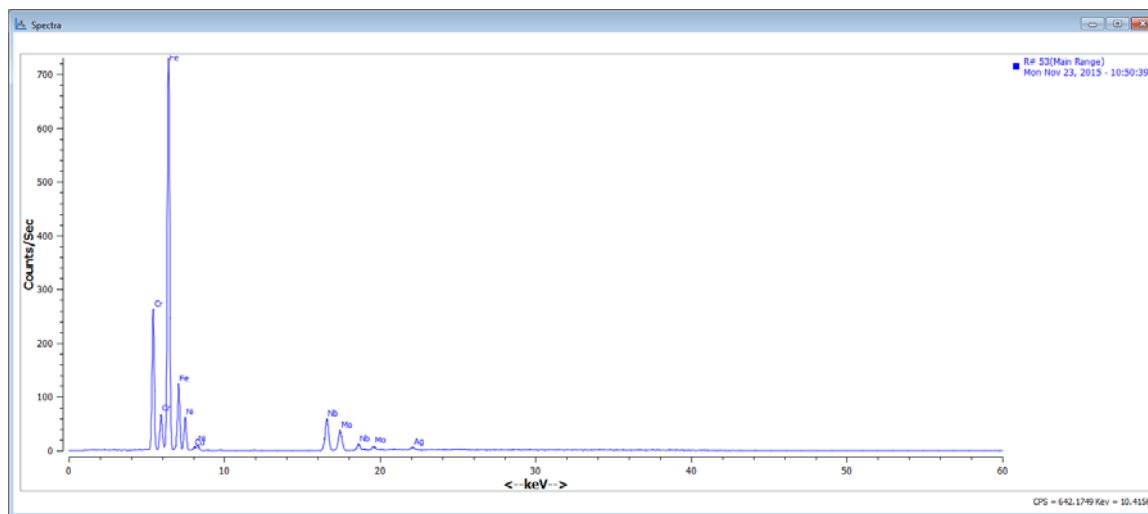


Figure 36. Single Spectrum

Shift-Select a range of readings, then right click and select Add Spectra to see their spectra together.

2015-11-23.ncd

| Micro                                                                             | Macro                                                                             | Reading No | Reading Type         | Duration | Time                        | User | Sign |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------|----------------------|----------|-----------------------------|------|------|
|  |  | 53         | General Metals       | 6.38     | Mon Nov 23, 2015 - 10:50:39 | User | 2    |
|  |  | 51         | General Metals Light | 6.76     | Mon Nov 23, 2015 - 10:47:21 | User | 2    |
|  |  | 52         | General Metals Light | 10.43    | Mon Nov 23, 2015 - 10:48:34 | User | 2    |
|  |  | 54         | General Metals       | 6.33     | Mon Nov 23, 2015 - 10:51:27 | User | 2    |
|  |  | 55         | General Metals       | 5.08     | Mon Nov 23, 2015 - 10:51:59 | User | 2    |

Figure 37. Selecting a Range of Readings

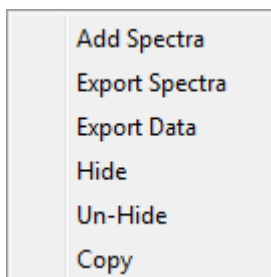


Figure 38. Right-click Menu

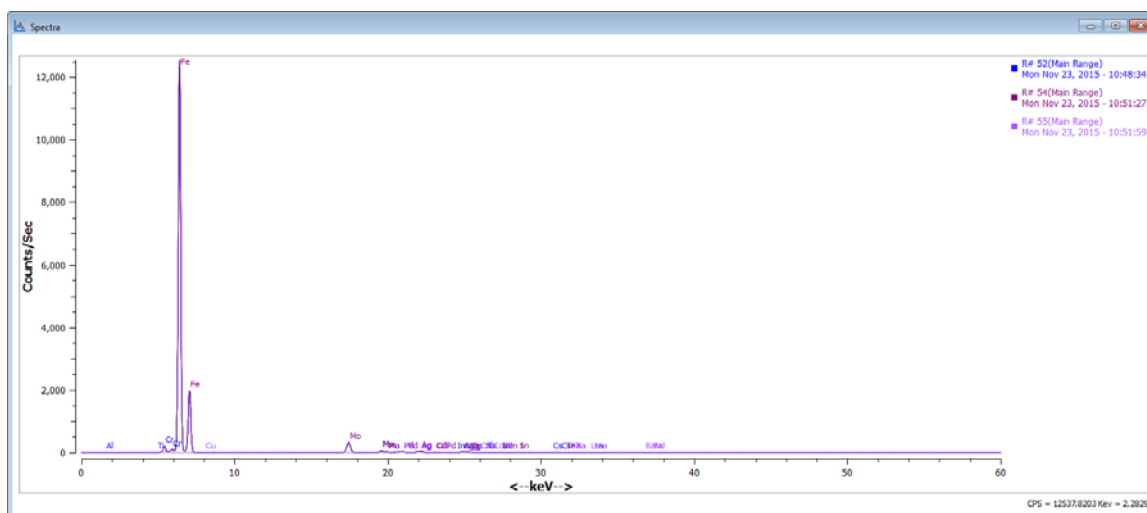


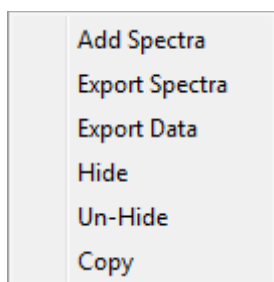
Figure 39. Spectra From a Range of Readings

Ctrl-Select several individual readings, then right click and select Add Spectra to see their spectra together.

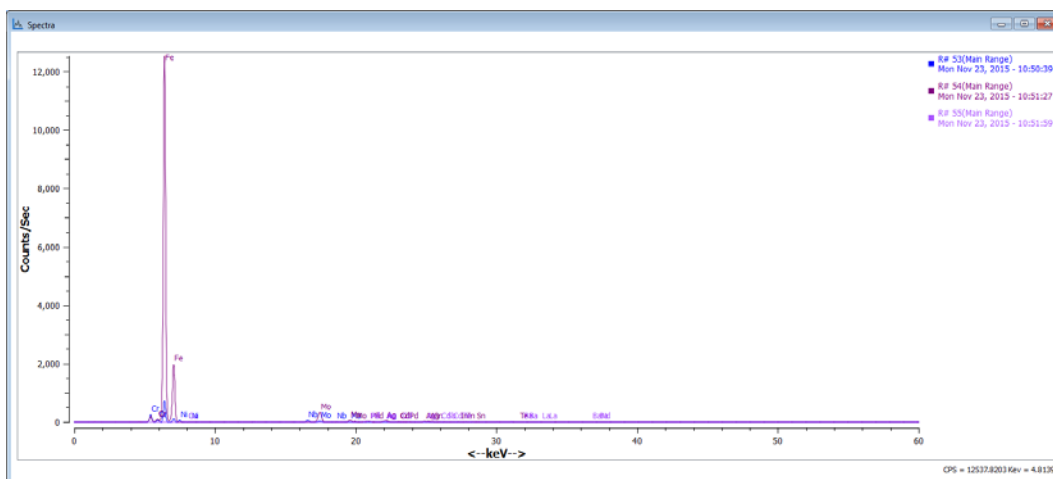
2015-11-23.ncd

| Micro | Macro | Reading No | Reading Type         | Duration | Time                        | User | Sign |
|-------|-------|------------|----------------------|----------|-----------------------------|------|------|
|       |       | 53         | General Metals       | 6.38     | Mon Nov 23, 2015 - 10:50:39 | User | 2    |
|       |       | 51         | General Metals Light | 6.76     | Mon Nov 23, 2015 - 10:47:21 | User | 2    |
|       |       | 52         | General Metals Light | 10.43    | Mon Nov 23, 2015 - 10:48:34 | User | 2    |
|       |       | 54         | General Metals       | 6.33     | Mon Nov 23, 2015 - 10:51:27 | User | 2    |
|       |       | 55         | General Metals       | 5.08     | Mon Nov 23, 2015 - 10:51:59 | User | 2    |

**Figure 40. Selecting Several Individual Reading**



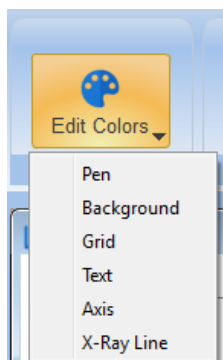
**Figure 41. Right-click Menu**



**Figure 42. Spectra From Several Individual Readings**

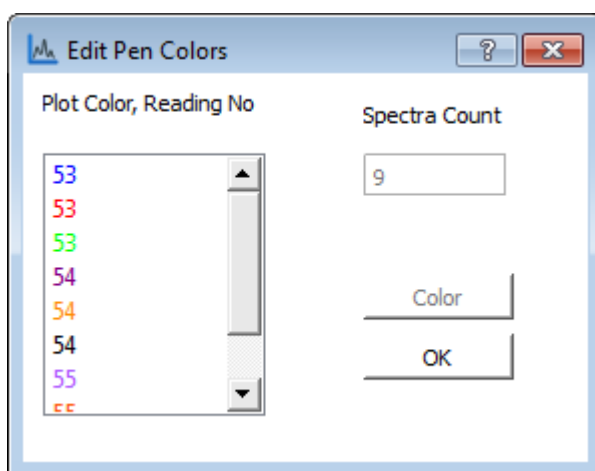
## Edit Colors

Select Edit Colors to change the graph colors. Select the part of the graph which you want the colors to change - Pen, Background, Grid, Text, Axis, or X-ray Line.



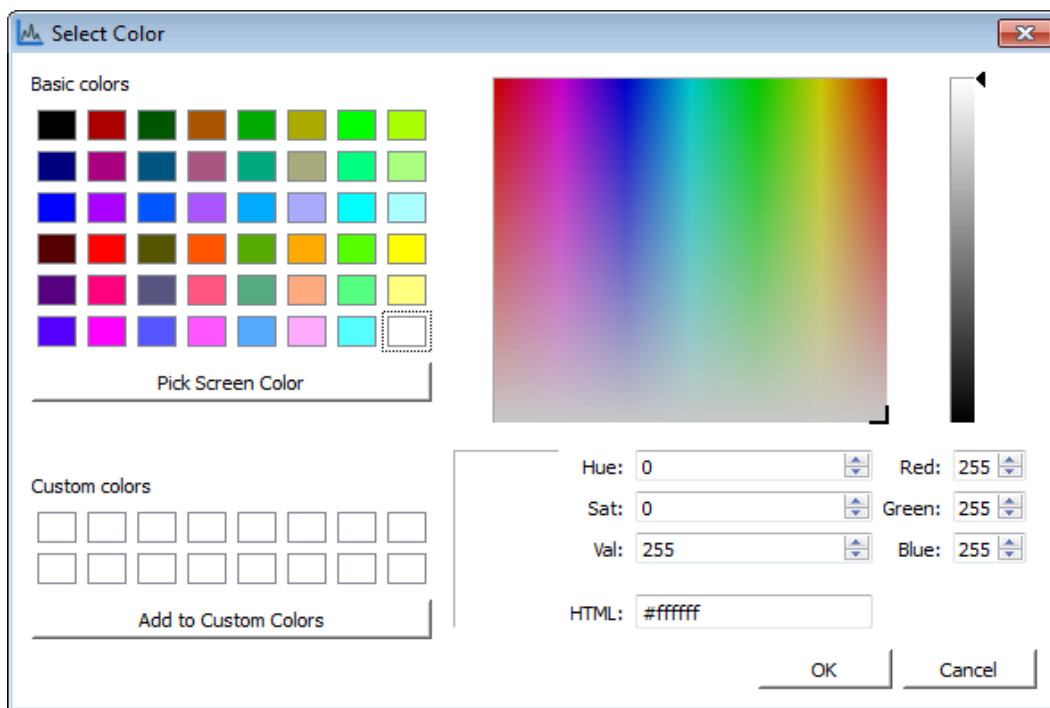
**Figure 43. Color Change Options**

This will open a window. Select the color you want to change.



**Figure 44. Selecting the Component to Change**

Double click or hit Enter/Return to bring up the Color Menu.

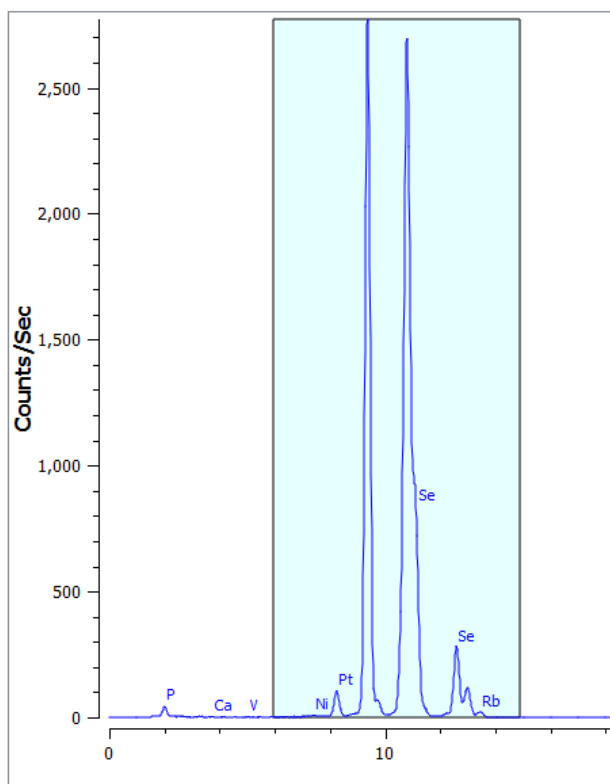


**Figure 45. The Color Menu**

You can choose the color by picking from the color or gray-scale map, by changing the Hue Saturation, and Value, or by selecting the pre-defined Basic colors. You can also add any color you create to the Custom Colors, to have it available in all spectra.

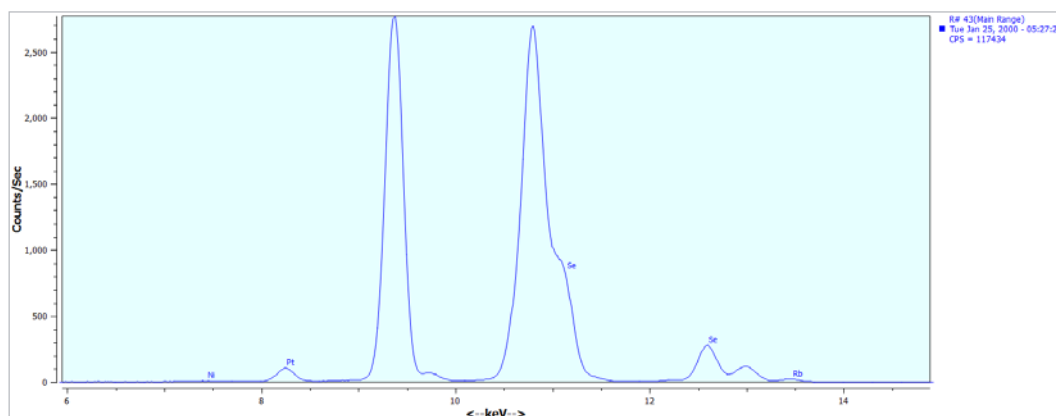
## Fit

Select an area of the current spectrum using your mouse.



**Figure 46. Selected Spectrum Area**

Then select Fit. The spectrum area selected will be fit into the available area.



**Figure 47. Selected Spectrum Area Fitted to Available Area**

## Zoom In

Selecting Zoom In will zoom into the spectrum by one step.

## Zoom Out

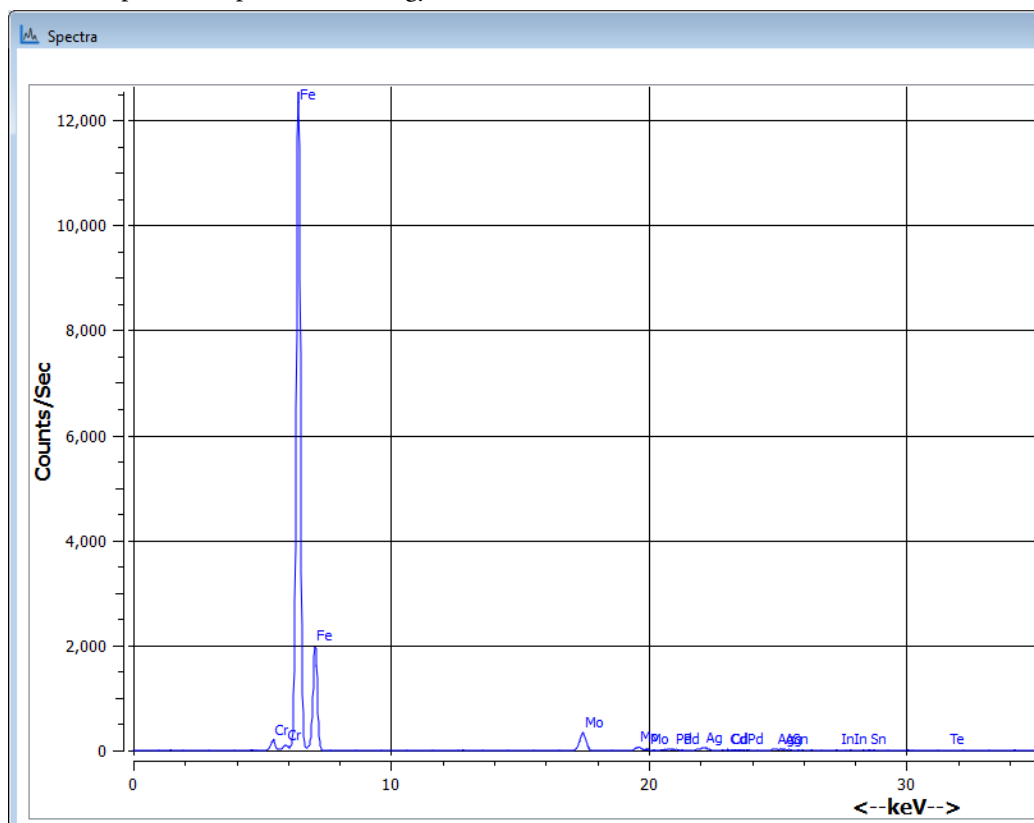
Selecting Zoom Out will zoom out from the spectrum by one step.

## Autoscale

Selecting Autoscale will set zoom at zero, bringing the spectrum up to full size.

## Grid

Selecting Grid will toggle (turn on if off, or turn off if on) a grid, to make it easier to see the value of a spectrum's peaks - in Energy (keV) and counts (Counts/Sec)

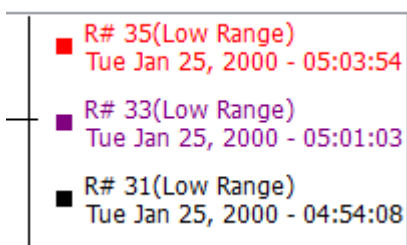


**Figure 48. Showing the Grid**

## Show Legends/Log Spectra/Show Cursor Checkboxes

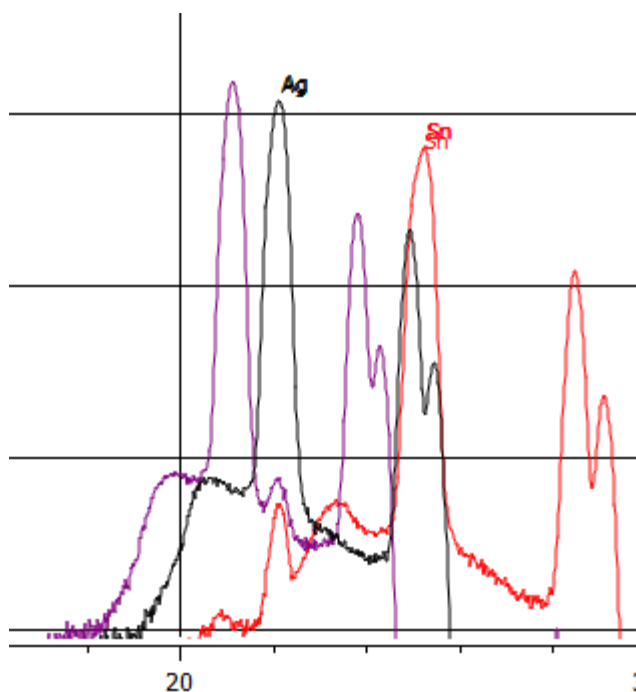
Checking the boxes will toggle these options on, while unchecking them will toggle them off. The options are:

**Show Legends** - shows Spectra legend in upper right corner.



**Figure 49. Showing Spectra Legend**

**Log Spectra** - plots the spectra on a log scale



**Figure 50. Spectrum on Log Scale**

**Show Cursor** - Shows the energy value at the top left side for the cursor position.

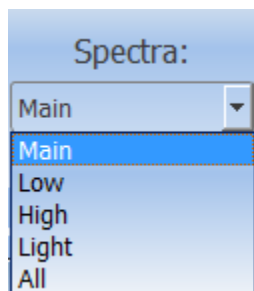
| Cursor Information |                 |                         |
|--------------------|-----------------|-------------------------|
| Left               | 22.167          | Left Boundary           |
| Right              | 22.167          | Right Boundary          |
| Peak               | 11.797          | Highest Peak            |
| Ka1                | Ag (22.163keV ) | Nearest Ka element peak |
| Ka2                | Ag (21.990keV ) |                         |
| Kb1                | Ru (21.657keV ) | Nearest Kb element peak |
| Kb2                | Ru (22.074keV ) |                         |
| Kb3                | Rh (22.699keV ) |                         |
| La1                | Fm (16.382keV ) | Nearest La element peak |
| La2                | Fm (16.121keV ) |                         |
| Lb1                | Fm (21.895keV ) | Nearest Lb element peak |
| Lb2                | Fm (19.809keV ) |                         |
| Lr1                | Am (22.065keV ) |                         |
| Li                 | Fm (13.669keV ) |                         |
| Ma1                | U (3.171keV )   |                         |

**Figure 51. Cursor Information Panel**

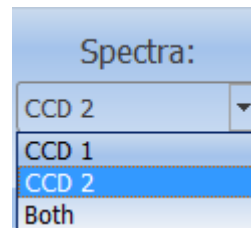
## Spectrum Selector

Selecting this option enables you to choose which range spectrum is displayed.

**Note** The Apollo analyzer has no filters, so Main/Low/High/Light/All are not supported for the Apollo analyzer.



XL5 analyzer spectra



Apollo analyzer spectra:

Includes a low (CCD 1)  
and high (CCD 2)  
spectrometer.

Figure 52. Spectrum Selector

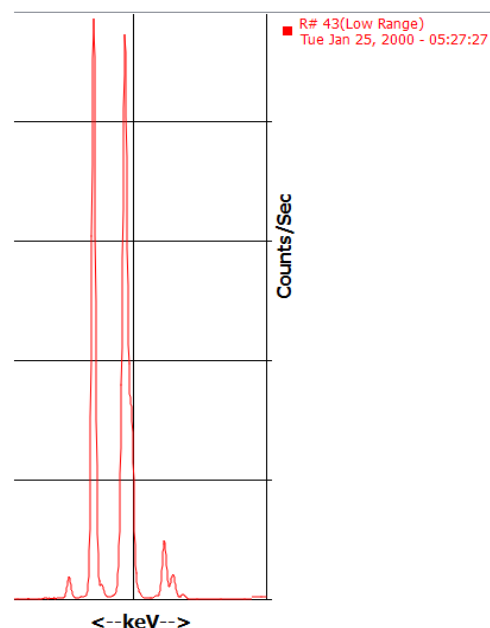
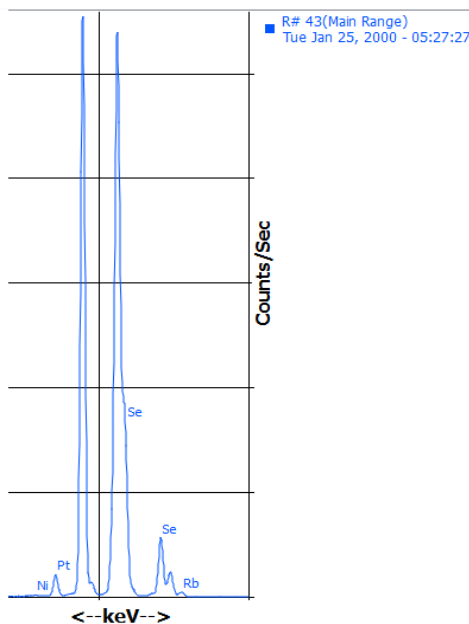
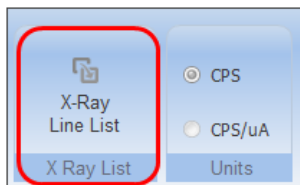


Figure 53. Showing Main and Low Range Spectra

## X-ray Line Lists

**Note** X-ray Line Lists are not supported for the Apollo analyzer.



Selecting X-ray Line List brings up the following. On it, you can select the element of your choice to highlight the characteristic energies for that element.

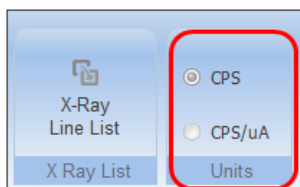
| Element | Ka1   | Ka2   | Kb1   | Kb2 | Kb3   | La1   | La2   | Lb1   | Lb2 | Lg    | Li | Ma1 |
|---------|-------|-------|-------|-----|-------|-------|-------|-------|-----|-------|----|-----|
| Mg      | 1.254 | 1.254 | 1.302 |     |       |       |       |       |     |       |    |     |
| Al      | 1.487 | 1.486 | 1.557 |     |       |       |       |       |     |       |    |     |
| Si      | 1.74  | 1.739 | 1.836 |     |       |       |       |       |     |       |    |     |
| P       | 2.014 | 2.013 | 2.139 |     |       |       |       |       |     |       |    |     |
| S       | 2.308 | 2.307 | 2.464 |     |       |       |       |       |     |       |    |     |
| Cl      | 2.622 | 2.621 | 2.816 |     |       |       |       |       |     |       |    |     |
| Ar      | 2.958 | 2.956 | 3.19  |     | 3.19  |       |       |       |     |       |    |     |
| K       | 3.314 | 3.311 | 3.59  |     | 3.59  |       |       |       |     |       |    |     |
| Ca      | 3.692 | 3.688 | 4.013 |     | 4.013 | 0.341 | 0.341 | 0.345 |     |       |    |     |
| Sc      | 4.091 | 4.086 | 4.46  |     | 4.46  | 0.395 | 0.395 | 0.4   |     | 0.348 |    |     |
| Ti      | 4.511 | 4.505 | 4.932 |     | 4.932 | 0.452 | 0.452 | 0.458 |     | 0.395 |    |     |
| V       | 4.952 | 4.945 | 5.437 |     | 5.437 | 0.511 | 0.511 | 0.518 |     | 0.446 |    |     |

Figure 54. X-ray Line List

## Units Selector

**Note** Units are not supported for the Apollo analyzer.

Using this option enables you to switch between CPS and CPS/ $\mu$ A.



## The Export Tab

The Export tab gives you options for saving data in various formats, for access by other programs.

### Data

The Data button enables you to save reading data as .xls (Excel) files, as .csv (Comma Separated Value) files, or as .txt (standard text) files.

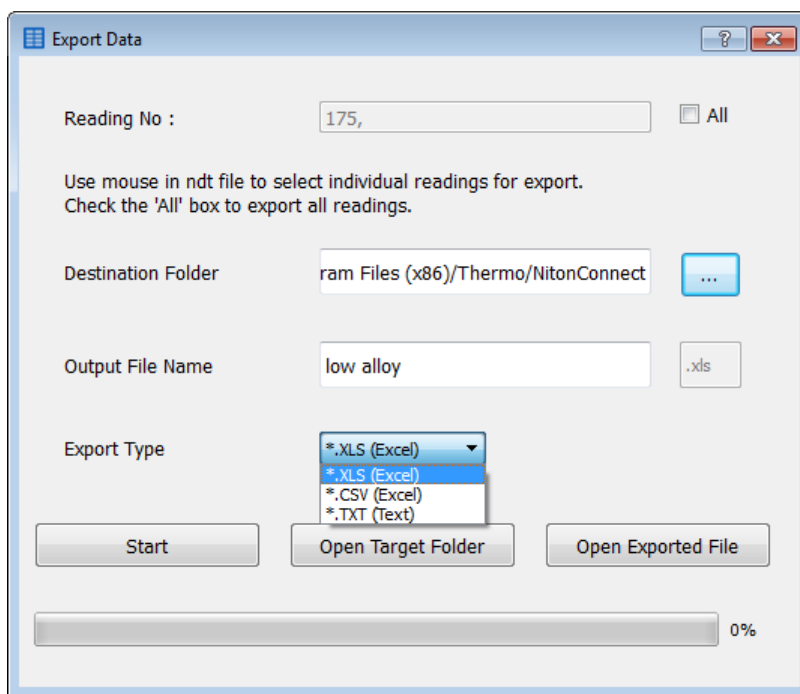
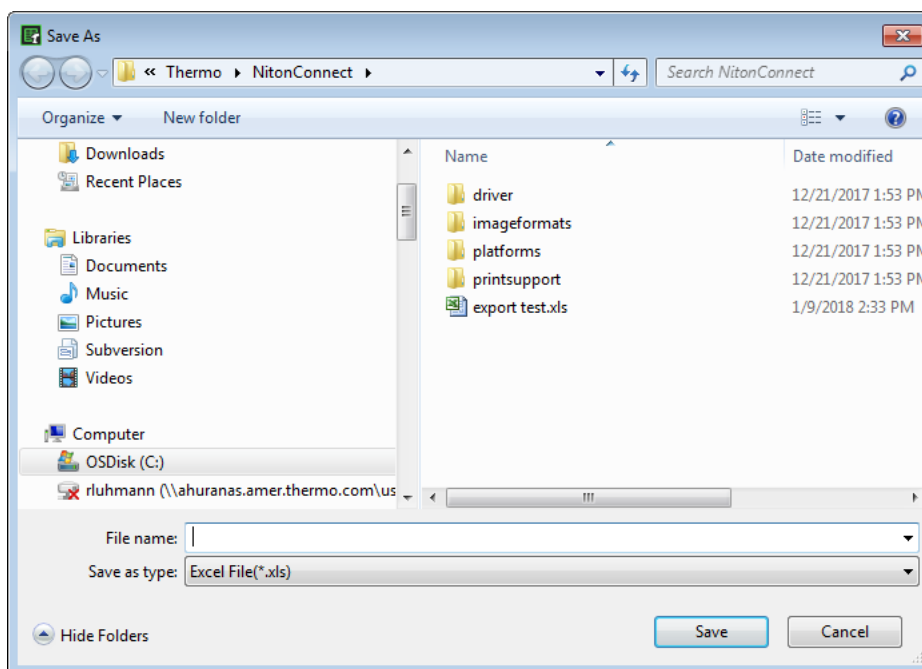


Figure 55. Export Data Window

## Spectra

The Spectra button enables you to save spectral data as .xls (Excel) files or as .csv (Comma Separated Value) files.



**Figure 56. Export Spectra Window**

## The Print Tab

The options on this tab all deal with printing results.

### Print Reading

Selecting this option will print out the reading in the currently saved format.

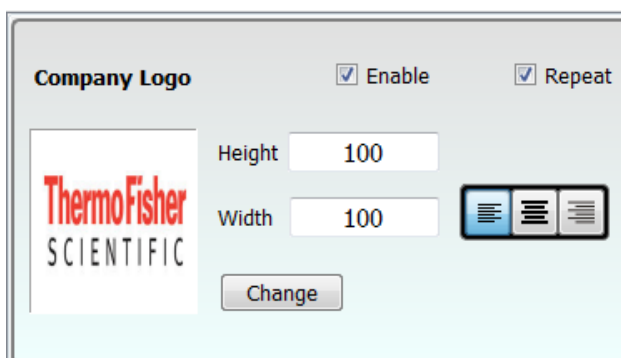
### Print Certificate

Selecting this option will print out a certificate of analysis in the currently saved format.

### Preview Reading

Select this option to configure your reading printouts. The screen which opens is divided into a number of component areas, each of which enable you to configure one aspect of the printout. The balance of the screen displays the way the reading printout will be formatted.

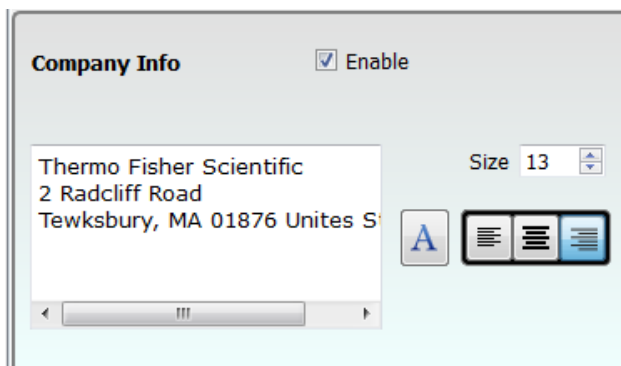
### Company Logo



**Figure 57. Company Logo Area**

- Check the Enable checkbox to show the logo. Uncheck to hide it.
- Check the Repeat checkbox to repeat the logo on each page of the report.
- Click in height and/or width boxes and type to change aspect ratio.
- Select left, centered, or right alignment.
- Select the Change button to browse for logo files. Logo must be in .jpg format.

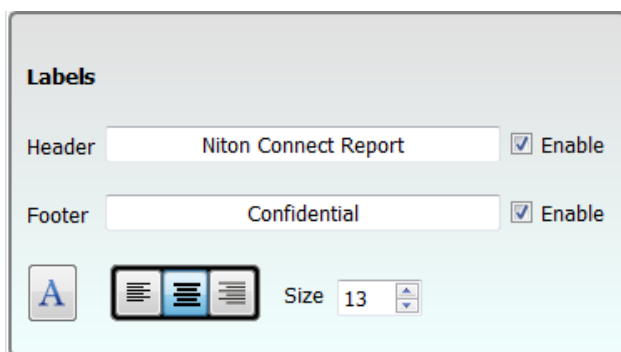
## Company Info

The screenshot shows a window titled "Company Info" with an "Enable" checkbox checked. Below the title is a text area containing the address: "Thermo Fisher Scientific", "2 Radcliff Road", and "Tewksbury, MA 01876 Unites S". To the right of the text area is a "Size" dropdown menu set to "13". Below the text area are three buttons: a large "A" button for font face, and two buttons with horizontal lines for alignment (left, center, and right).

**Figure 58. Company Info Area**

- Check the Enable checkbox to show the info. Uncheck to hide it.
- Click in text box and type company address and other information.
- Select the A button to change the typeface.
- Select the up or down Size triangles to increase or decrease font size.
- Select left, centered, or right alignment.

## Labels

The screenshot shows a window titled "Labels". It has two sections: "Header" and "Footer". The "Header" section has a text box containing "Niton Connect Report" and an "Enable" checkbox checked. The "Footer" section has a text box containing "Confidential" and an "Enable" checkbox checked. At the bottom of the window are three buttons: a large "A" button for font face, two buttons with horizontal lines for alignment (left, center, and right), and a "Size" dropdown menu set to "13".

**Figure 59. Labels Area**

- Check the Enable checkbox to show the header. Uncheck to hide it.
- Check the Enable checkbox to show the header. Uncheck to hide it.
- Click in Header text box and type the header.
- Click in Footer text box and type the footer.
- Select the A button to change the typeface.
- Select the up or down Size triangles to increase or decrease font size.
- Select left, centered, or right alignment.

## Readings

The Readings area contains a table with checkboxes for various data fields and an 'Element Display Option' section.

| <input checked="" type="checkbox"/> | Names      |
|-------------------------------------|------------|
| <input checked="" type="checkbox"/> | Reading No |
| <input checked="" type="checkbox"/> | Time       |
| <input checked="" type="checkbox"/> | Type       |
| <input checked="" type="checkbox"/> | Duration   |
| <input checked="" type="checkbox"/> | Units      |

Element Display Option

Size 13

**Figure 60. Readings Area**

- Check the checkboxes of the reading data you want to show. Uncheck to hide.
- Select the A button to change the typeface.
- Select the up or down Size triangles to increase or decrease font size.

Select Element Display Option to select which elements to display on the report.

The Element Display Options Dialog box allows users to enable or disable elements and arrange them in the order they should be displayed. It includes a grid of element checkboxes, a list of elements for manual arrangement, and options for clearing, selecting, and formatting results.

Enable / Disable the elements that you want to display

Arrange from left to right, the order the elements are to display

|                                        |                                        |                                        |                                        |                                        |                                        |
|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|
| <input checked="" type="checkbox"/> Ag | <input checked="" type="checkbox"/> Al | <input checked="" type="checkbox"/> As | <input checked="" type="checkbox"/> Au | <input checked="" type="checkbox"/> Ba | <input checked="" type="checkbox"/> Bi |
| <input checked="" type="checkbox"/> Br | <input checked="" type="checkbox"/> Ca | <input checked="" type="checkbox"/> Cd | <input checked="" type="checkbox"/> Cl | <input checked="" type="checkbox"/> Co | <input checked="" type="checkbox"/> Cr |
| <input checked="" type="checkbox"/> Cu | <input checked="" type="checkbox"/> Fe | <input checked="" type="checkbox"/> Ga | <input checked="" type="checkbox"/> Hf | <input checked="" type="checkbox"/> Hg | <input checked="" type="checkbox"/> In |
| <input checked="" type="checkbox"/> Ir | <input checked="" type="checkbox"/> K  | <input checked="" type="checkbox"/> Mg | <input checked="" type="checkbox"/> Mn | <input checked="" type="checkbox"/> Mo | <input checked="" type="checkbox"/> Nb |
| <input checked="" type="checkbox"/> Ni | <input checked="" type="checkbox"/> P  | <input checked="" type="checkbox"/> Pb | <input checked="" type="checkbox"/> Pd | <input checked="" type="checkbox"/> Pt | <input checked="" type="checkbox"/> Rb |
| <input checked="" type="checkbox"/> Re | <input checked="" type="checkbox"/> Rn | <input checked="" type="checkbox"/> Ru | <input checked="" type="checkbox"/> S  | <input checked="" type="checkbox"/> Sb | <input checked="" type="checkbox"/> Sc |
| <input checked="" type="checkbox"/> Se | <input checked="" type="checkbox"/> Si | <input checked="" type="checkbox"/> Sn | <input checked="" type="checkbox"/> Sr | <input checked="" type="checkbox"/> Ta | <input checked="" type="checkbox"/> Te |
| <input checked="" type="checkbox"/> Th | <input checked="" type="checkbox"/> Ti | <input checked="" type="checkbox"/> U  | <input checked="" type="checkbox"/> V  | <input checked="" type="checkbox"/> W  | <input checked="" type="checkbox"/> Zn |
| <input checked="" type="checkbox"/> Zr | <input type="checkbox"/> LEC           |                                        |                                        |                                        |                                        |

Element Display Options

☐ Alphabetical

☒ Manual

Ag  
Al  
As  
Au  
Ba  
Bi  
Br  
Ca  
Cd  
Cl  
Co  
Cr

Up  
Down

☐ Clear All  
☐ Select All

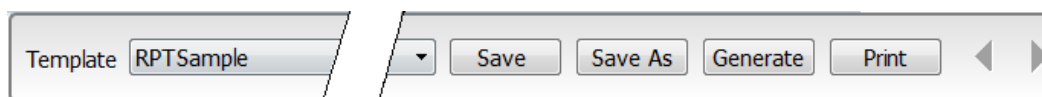
Percent Decimal Places: 4  
Sigma Decimal Places: 4

☒ Show Result in Percent  
☐ Show Result in PPM

Ok Cancel

**Figure 61. Element Display Options Dialog**

## Template



**Figure 62. Templates Area**

- Select Template from drop down Template list.
- Select Save button to save current template under the same name.
- Select Save As button to save the current template under another name.
- Select Generate button to generate a report using the current template.
- Select Print button to print a report using the current template.

NDTReport - C:\Program Files\Thermo\NitonConnect\#394 NC Datafiles.ncd

Template: RPTSample

**Company Logo** ☒ Enable ☒ Repeat

Height: 100 Width: 100

**Company Info** ☒ Enable

Thermo Fisher Scientific  
2 Radcliff Road  
Tewksbury, MA 01876 Unites S

Size: 13

**Labels**

Header: NDTReport ☒ Enable

Footer: Confidential ☒ Enable

Size: 13

**Readings**

☒ Names

☒ Reading No

☒ Time

☒ Type

☒ Duration

☒ Units

☒ User Fields

☒ Alloy Match 1

Element Display Option

Size: 13

**NDTReport** Thermo Fisher Scientific  
2 Radcliff Road  
Tewksbury, MA 01876 Unites States

**Basic Reading Data**

| Reading No. | Time                | Type               | Duration  | Units |
|-------------|---------------------|--------------------|-----------|-------|
| 1299        | 2015-09-14T09:38:05 | General Metals all | 6.184 sec | %     |

**User Fields**

Sample: SS316

**Alloy Match**

| Alloy 1 | Alloy 2 |
|---------|---------|
| SS-316  | SS-321  |

**Result Data**

| Element       | Fe      | Cr      | Ni     | Mo     | Mn     | Ti     |
|---------------|---------|---------|--------|--------|--------|--------|
| Result        | 69.5825 | 16.4156 | 9.6703 | 1.8588 | 1.2619 | 0.1874 |
| $\pm 2\sigma$ | 0.7997  | 0.4304  | 0.5584 | 0.0687 | 0.3425 | 0.1693 |

Confidential

**Figure 63. Example Reading Print Preview**

## Preview Certificate

Select this option to configure your certificate printouts.

### Company Logo and Company Info

These screens work exactly the same as in the Preview Reading screens. If you need more information see [“Preview Reading”](#) on [page 53](#).

The image shows two side-by-side configuration windows. The left window is titled 'Company Logo' and has checkboxes for 'Enable' and 'Repeat', both of which are checked. It features a preview of the ThermoFisher Scientific logo, input fields for 'Height' (100) and 'Width' (100), a 'Change' button, and three alignment buttons (left, center, right). The right window is titled 'Company Info' and has an 'Enable' checkbox checked. It shows a preview of company information: 'Thermo Fisher Scientific', '2 Radcliff Road', and 'Tewksbury, MA 01876 Unites S'. It includes a 'Size' dropdown set to 13, a font style button (A), and three alignment buttons (left, center, right).

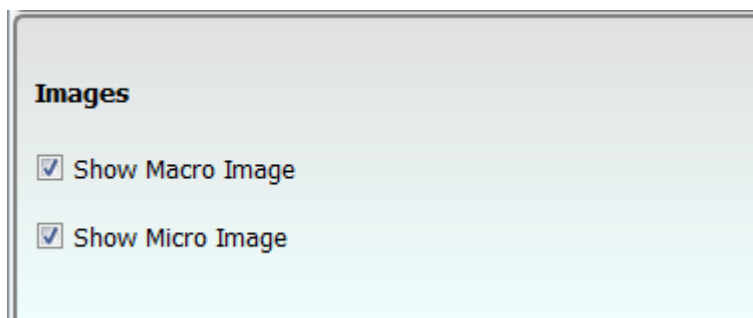
### Labels

The image shows a configuration window titled 'Labels'. It has two main sections. The first section is 'Heading' with a text box containing 'Verified By:' and an 'Enable' checkbox checked. The second section is 'Verification' with a text box containing 'Supervised By:' and an 'Enable' checkbox checked. At the bottom, there is a 'Size' dropdown set to 13, a font style button (A), and three alignment buttons (left, center, right).

**Figure 64. Labels Area**

- Check the Enable checkbox to show the Heading. Uncheck to hide it.
- Check the Enable checkbox to show the Verification. Uncheck to hide it.
- Click in Heading text box and type in a heading.
- Click in Verification text box and type verification.
- Select the A button to change the typeface.
- Select the up or down Size triangles to increase or decrease font size.
- Select left, centered, or right alignment.

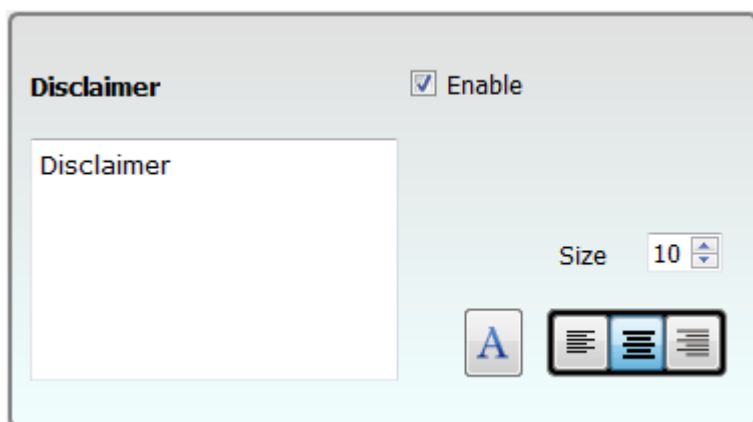
## Images



**Figure 65. Images Area**

- Check the Show Macro Image checkbox to show the Macro Image. Uncheck to hide it.
- Check the Show Micro Image checkbox to show the Micro Image. Uncheck to hide it.

## Disclaimer



**Figure 66. Disclaimer Area**

- Check the Enable checkbox to show the Disclaimer. Uncheck to hide it.
- Click in Disclaimer text box and type in a disclaimer.
- Select the A button to change the typeface.
- Select the up or down Size triangles to increase or decrease font size.
- Select left, centered, or right alignment.

## Readings

**Readings**

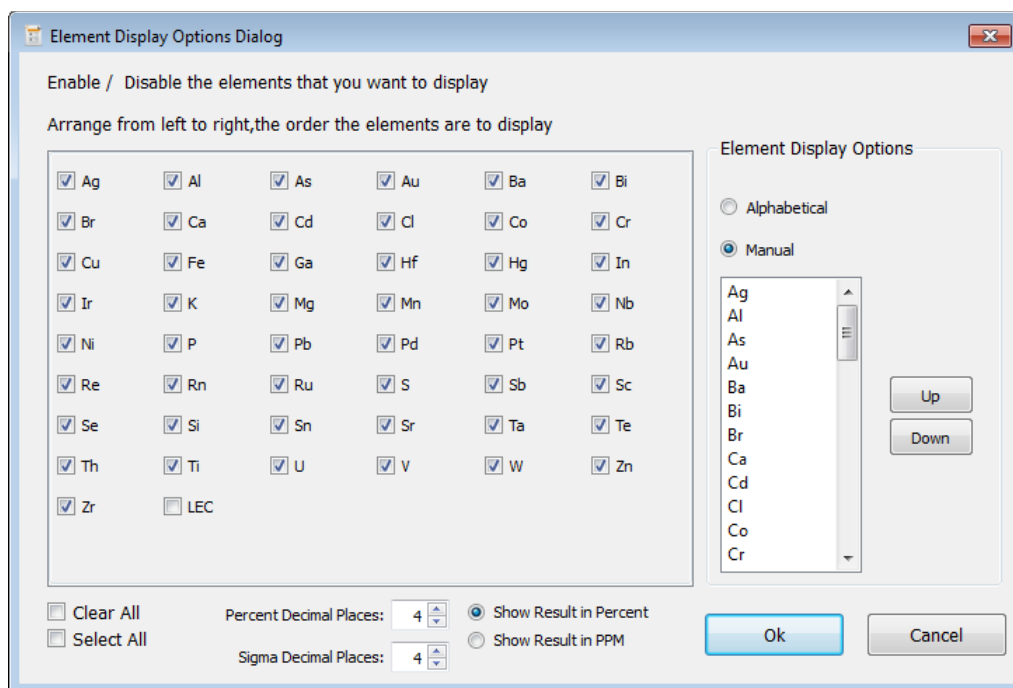
|                                     |              |
|-------------------------------------|--------------|
| <input checked="" type="checkbox"/> | <b>Names</b> |
| <input checked="" type="checkbox"/> | Reading No   |
| <input checked="" type="checkbox"/> | Time         |
| <input checked="" type="checkbox"/> | Type         |
| <input checked="" type="checkbox"/> | Duration     |
| <input checked="" type="checkbox"/> | Units        |
| <input checked="" type="checkbox"/> | User Fields  |
| <input checked="" type="checkbox"/> | Alloy Match  |

Element Display Option

A Size 13

**Figure 67. Readings Area**

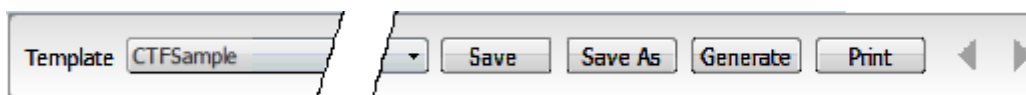
- Check the checkboxes of the reading data you want to show. Uncheck to hide.
- Select the A button to change the typeface.
- Select the up or down Size triangles to increase or decrease font size.
- Select Element Display Option to select which elements to display on the report.



**Figure 68. Element Display Options Dialog**

- Check the boxes next to the elements you want to display. Uncheck to hide.
- Check Select All to check all boxes.
- Check Clear all to uncheck all boxes.
- Select Alphabetical to put all elements into alphabetical order.
- Select Manual to manually determine the order of the elements. Select an element in the list below, then select the Up button to raise the element higher on the list, and the Down button to move the element lower on the list.
- Select the number of decimal places for element percentage, if percentage was selected as Unit.
- Select the number of decimal places for +/- 2 Sigma.
- Select unit for result, percentage or parts per million, PPM. Select Show Results in Percent to change from showing results in PPM. Select Show Results in PPM to change from showing results in percent.
- Select the Ok button to save this elemental order.
- Select the Cancel button to exit without saving.

## Template



**Figure 69. Templates Area**

- Select Template from drop down Template list.
- Select Save button to save current template under the same name.
- Select Save As button to save the current template under another name.
- Select Generate button to generate a report using the current template.
- Select Print button to print a report using the current template.

NDTCertificate - C:/Program Files/Thermo/NitonConnect/#394 NC Datafiles.ncd

Company Info ☒ Enable

Thermo Fisher Scientific  
2 Radcliff Road  
Tewksbury, MA 01876 USA

Size 13

Labels

Heading Verified By: ☒ Enable

Verification Supervised By: ☒ Enable

Size 13

Images

☒ Show Macro Image

☒ Show Micro Image

Disclaimer ☒ Enable

Disclaimer

Size 10

Readings

☒ Names

☒ Duration

☒ Units

☒ User Fields

☒ Alloy Match 1

☒ Alloy Match 2

Element Display Option

Size 13

Template CTFSample

Thermo Fisher Scientific

Thermo Fisher Scientific  
2 Radcliff Road  
Tewksbury, MA 01876 USA

### Certificate of Verification

|             |                     |
|-------------|---------------------|
| Reading No. | 1299                |
| Time        | 2015-09-14T09:38:05 |
| Type        | General Metals all  |
| Duration    | 6.184 sec           |
| Units       | %                   |
| Sample      | SS316               |
| Alloy 1     | SS-316              |
| Alloy 2     | SS-321              |

| Element | Result  | $\pm 2\sigma$ |
|---------|---------|---------------|
| Cr      | 16.4156 | 0.4304        |
| Fe      | 69.5825 | 0.7997        |
| Mn      | 1.2619  | 0.3425        |
| Mo      | 1.8588  | 0.0687        |
| Ni      | 9.6703  | 0.5584        |

Verified By: \_\_\_\_\_

Supervised By: \_\_\_\_\_

Disclaimer

**Figure 70. Example Certificate Print**



## NitonConnect Remote

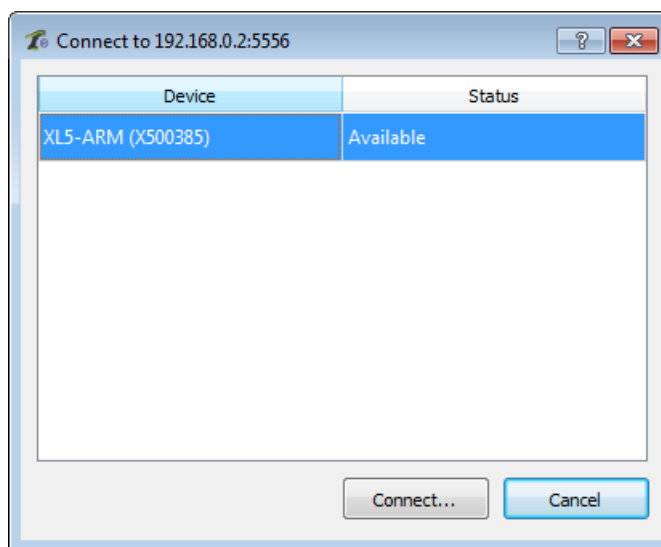
The NitonConnect Remote program allows you to completely control your analyzer remotely, from your computer. It works over USB connection or via a Wi-Fi network connection.

**Note** The XL5 Analyzer connects via a standard USB cable. The Apollo analyzer connects via a USB Type-C cable.

### Connecting NitonConnect Remote via USB

1. When you start NitonConnect Remote with your analyzer connected and powered on, the Select a device screen will appear.

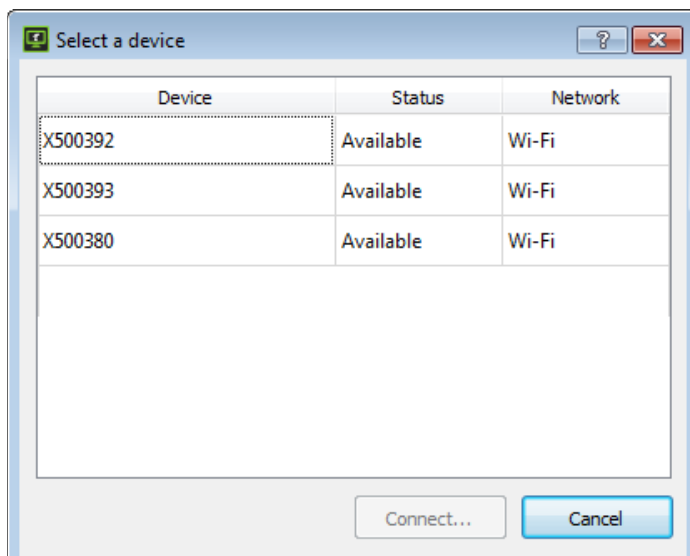
If no analyzer appears, your analyzer is not connected.



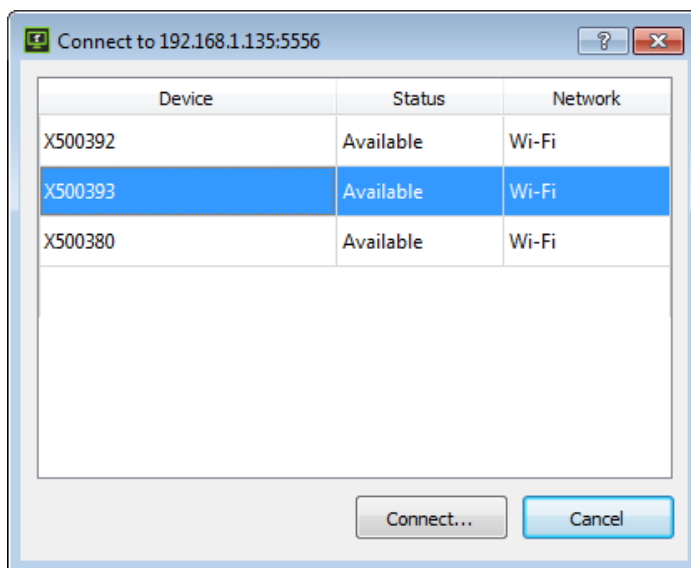
2. Select the **Connect** button.

## Connecting NitonConnect Remote via Wi-Fi

If the analyzer is connected to a Wi-Fi network, multiple devices may display.



Select the correct device and **Connect**.



Once connected, the NitonConnect Remote Main Screen displays.

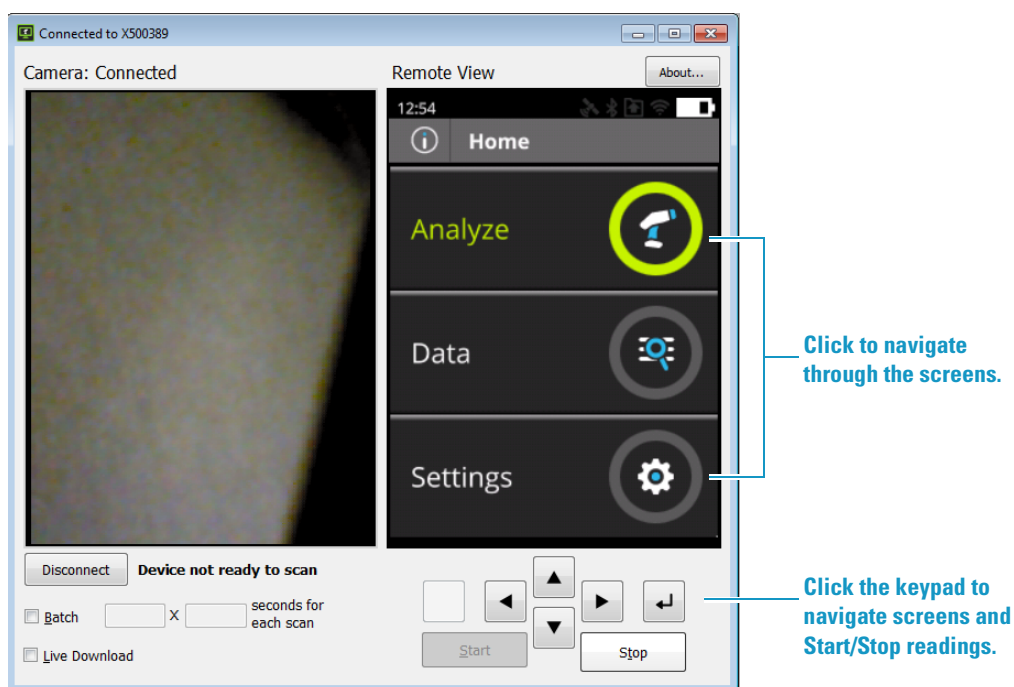


Figure 71. NitonConnect Remote - XL5 analyzer

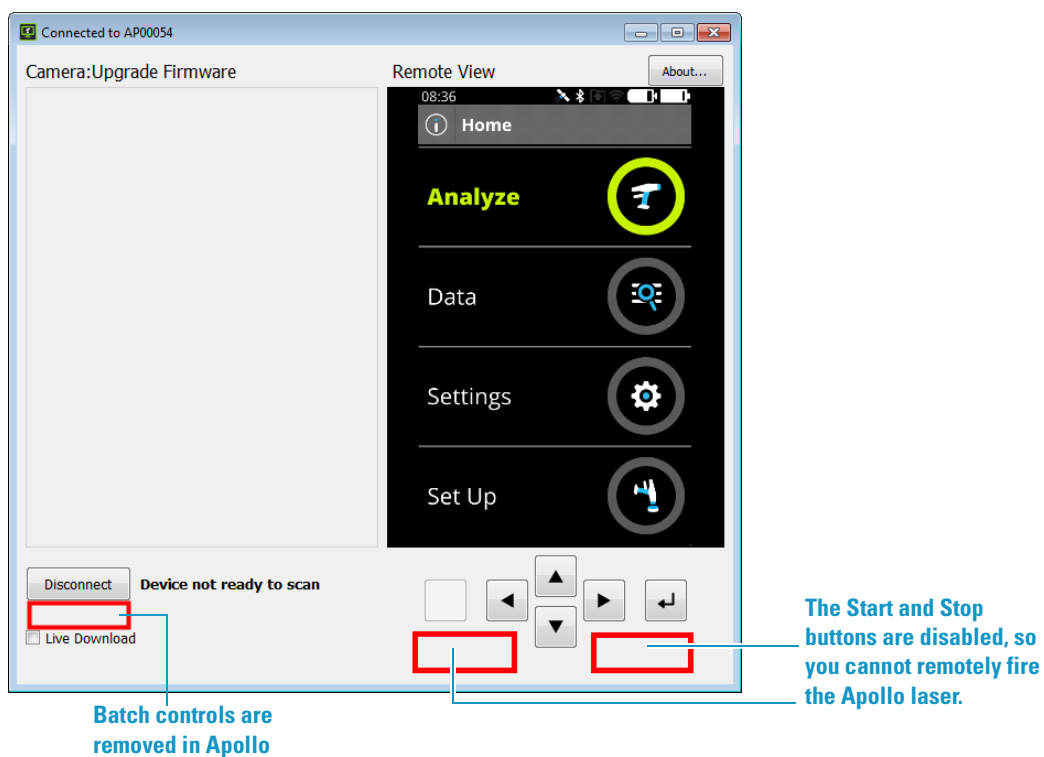


Figure 72. NitonConnect Remote - Apollo analyzer

## Camera View Side

The left side of the NitonConnect Remote screen shows mainly the camera view.

### Macro Camera

The Macro Camera can take pictures of larger objects in range of the camera, through the lens behind the raised Touch Screen.



**Figure 73. The Macro Camera View**

## Micro Camera

The Micro Camera will photograph a close view of the area of analysis, to get an exact record of the detail.



**Figure 74. The Micro Camera View**

## Disconnect Button

Clicking this button will disconnect your computer from your analyzer.

## Batch Button

Clicking this button will set up a batch analysis. You must enter the number of scans to be taken, plus the analysis time for each scan.

## Live Download Button

[“Live Download from NitonConnect Remote”](#) on page 69

## Remote View Side

The right side of the screen shows the current analyzer screen.

### Remote Analyzer Screen

This screen display is entirely interactive, and selecting anything on this screen works exactly as if you had selected it from the touch screen.

### Four Way Directional Buttons

There are four directional buttons - up down, left, and right - which work the same as the Four Way Control Pad on your analyzer,

### Escape Button

Selecting the Escape button in remote mode will operate as an escape.

### Select/Enter Button

Selecting the Select/Enter button functions exactly as the corresponding button on your analyzer will function, selecting the menu item currently active.

### Reading Start Button

Selecting the Reading Start button will initiate a reading, as if you were squeezing the trigger. To stop the reading, select the Reading Stop button.

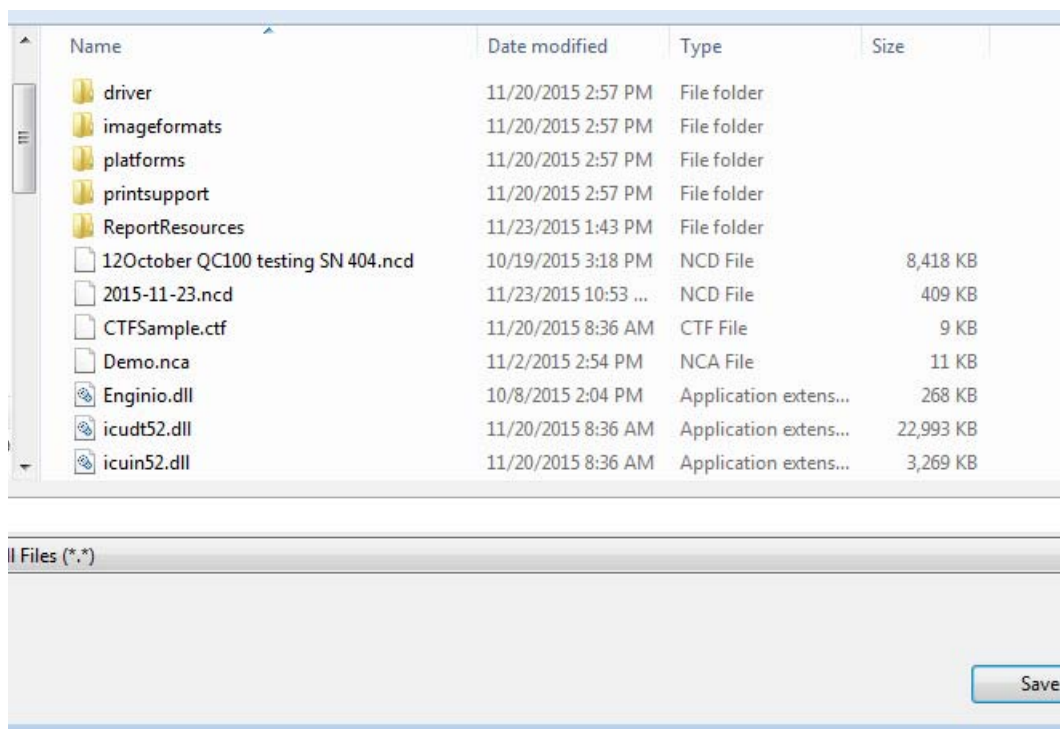
**Note** Remote readings are not supported for the Apollo analyzer.

### Reading Stop Button

Selecting the Reading Stop button will conclude a reading, as if you were releasing the trigger. To start a reading, select the Reading Start button.

## Live Download from NitonConnect Remote

Once you have connected to your analyzer using NitonConnect Remote, click on the Live Download button on the NitonConnect Remote screen. When you click the Live Download button, a Download dialog box will appear.



**Figure 75. File Dialog Box**

This is a standard Windows file dialog box, and works exactly the way you would expect. The file is always saved as a NitonConnect .ncd file.

The file will be automatically appended with results as they happen, until Live Download is disabled.



## NitonConnect Sync Manager

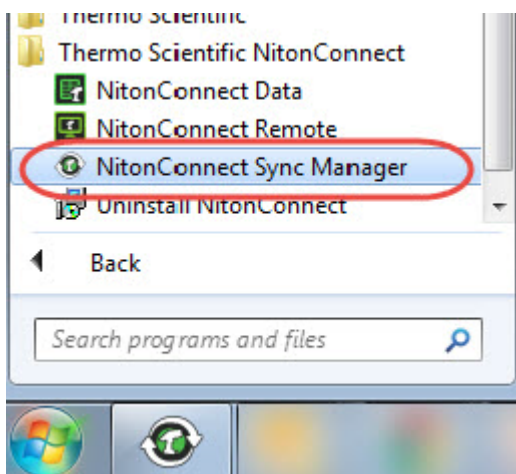
**Note** The examples shown in this chapter are for the XL5 analyzer. If you are using the Apollo analyzer the workflow is similar, but some screens will look different

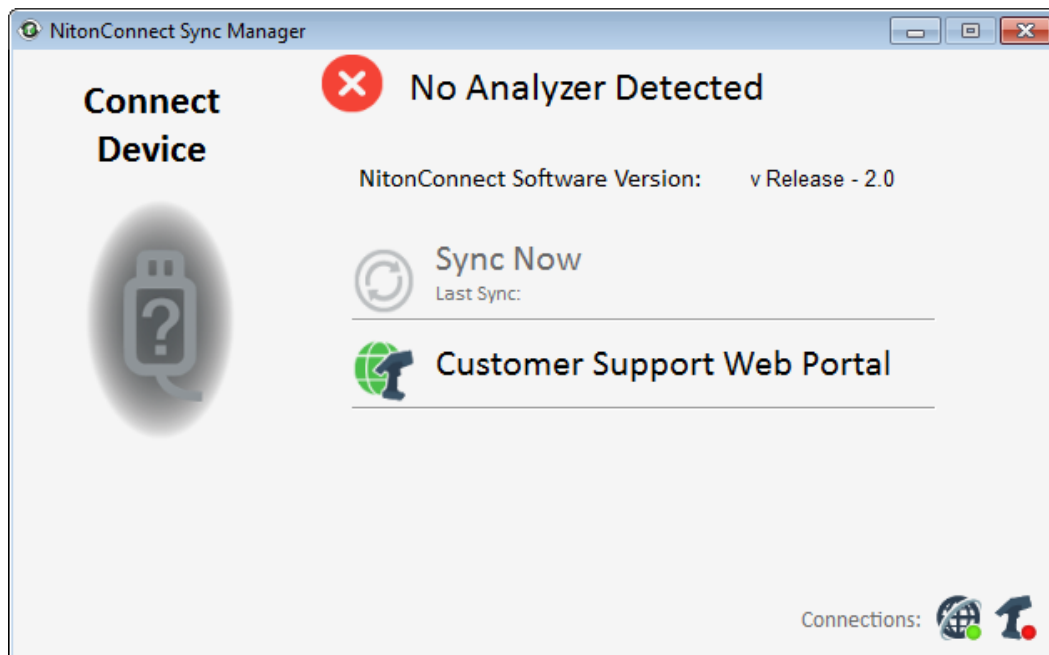
NitonConnect Sync Manager allows you to enable your analyzer for first time use, sync your analyzer to receive updates, update your device software, send diagnostic information, and access the Customer Support Web Portal.

You may open the Sync Manager window at any time either by double-clicking the NitonConnect Sync Manager icon in your system tray, or by selecting the NitonConnect Sync Manager application in your Start Menu.



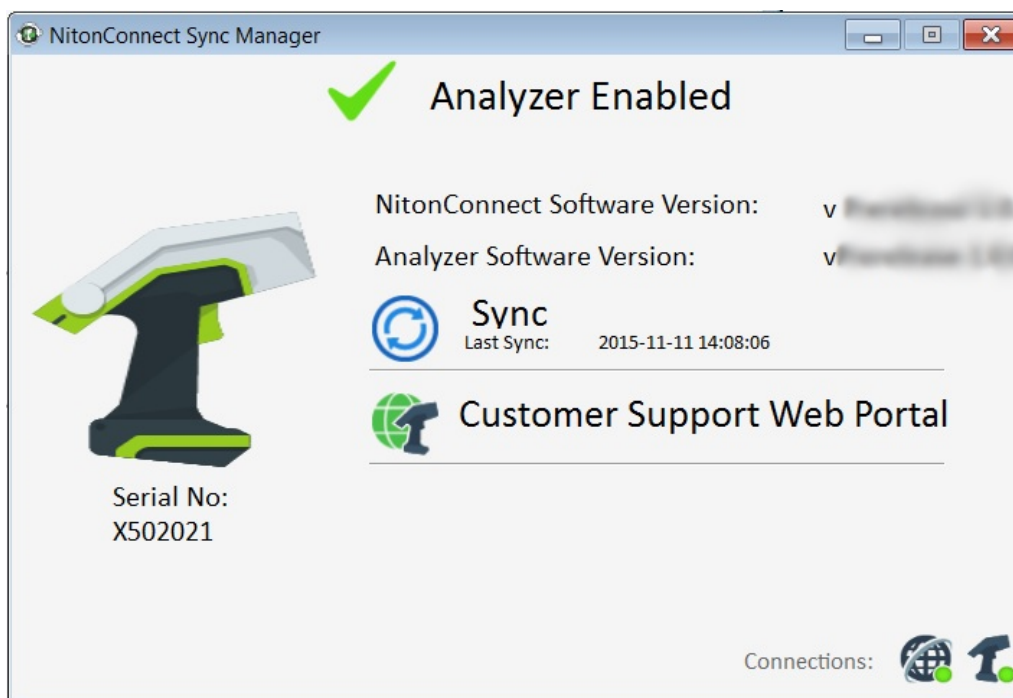
**Figure 76. NitonConnect Sync Manager Icon in the System Tray**



**Figure 77. Accessing NitonConnect Sync Manager from the Start Menu****Figure 78. No Analyzer Detected Window**

If you open the Sync Manager window and you do not have your analyzer connected to your computer, you will see the No Analyzer Detected screen. You may use this screen to access the Customer Support Web Portal at any time by clicking the icon to the left of 'Customer Support Web Portal'.

There are two icons at the bottom right of the Sync Manager window that display the status of your computer's connections. The left icon shows Internet connectivity status, and the right icon shows if an analyzer is connected to the computer. Both of these status icons will show green or red indicators, to indicate active or inactive status, respectively.



**Figure 79. Analyzer Enabled Window**

When your analyzer is connected to your computer, assuming it has been enabled, the Sync Manager window will show the Analyzer Enabled screen. It shows your NitonConnect software version, as well as your connected analyzer's software version, Last Sync date, and Serial Number.

The Analyzer Enabled screen has two buttons: clicking the Sync button (icon to the left of the 'Sync' text) will sync your analyzer with web services; and clicking the Customer Support Web Portal button (icon to the left of the text) will open the Customer Support page in your default web browser.

**Note** If your analyzer has not yet been enabled, the NitonConnect Sync Manager will show the Analyzer Not Enabled screen. If it shows that screen, you should reference the Setup Guide for instructions on how to enable your analyzer.

## The Customer Support Web Portal

Selecting the Customer Support Web Portal button from the Sync Manager window will open the Customer Support page of the Web Portal in your default web browser.

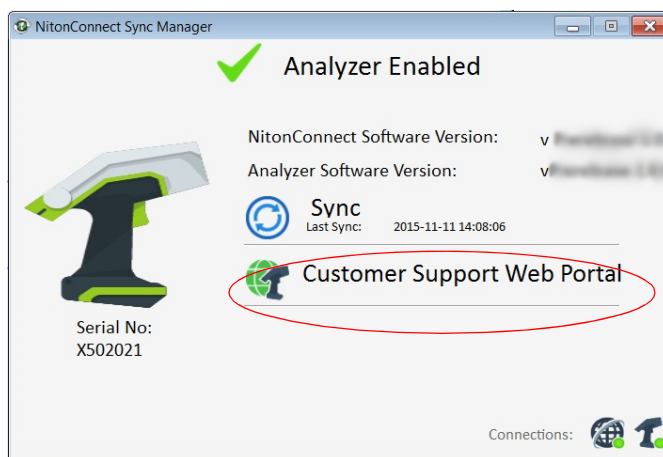
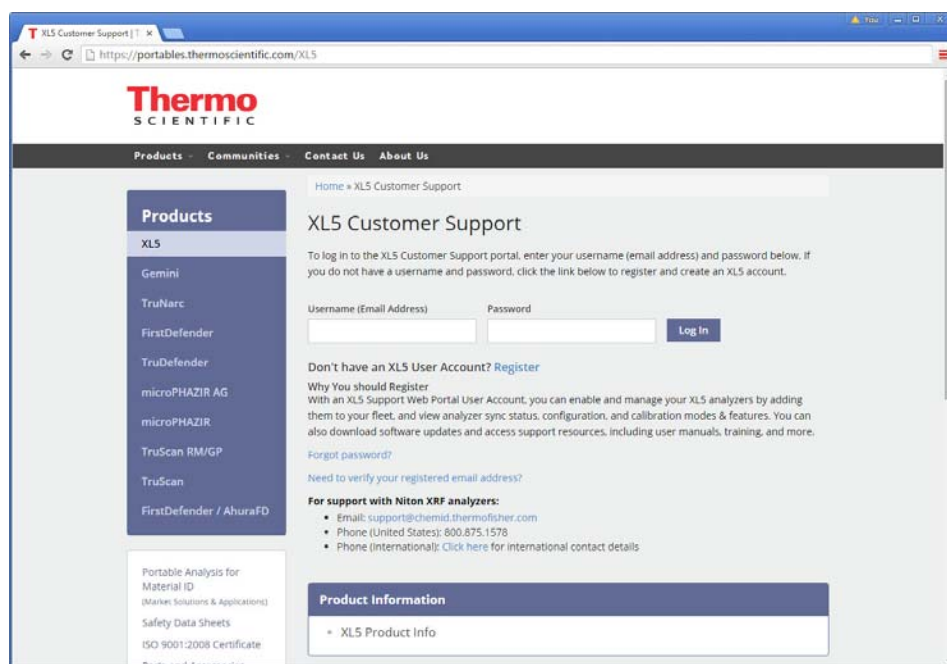


Figure 80. Select the Customer Support Web Portal



**Figure 81. The Customer Support Web Portal**

If you have already registered as a user on the Portal, login with your registered email address and password on the Customer Support page. Once logged in, you will be taken to your Analyzer Fleet page.

Note that if you have not yet registered on the Portal, you should click the Register link on the web page and complete the user registration process before continuing.

Total Number of XL5 Analyzers in **Your Fleet** : 1

Welcome, **[User Name]** | Log out

**+ Add Analyzer to Fleet**

**Your XL5 Analyzer Fleet** Refresh

Click on an analyzer Serial Number in your Fleet below to expand details and view analyzer configuration data, licensed modes and features, event history, and more. Refresh the web page at any time to view up-to-date status.

**Sync Status: Analyzer Up to Date (1)**

| Analyzer Serial Number | Sync Status | Sync Notes                       | Last Sync          | Primary Use               | Date Added to Fleet                                  |
|------------------------|-------------|----------------------------------|--------------------|---------------------------|------------------------------------------------------|
| X5000                  |             | Analyzer enabled and up-to-date. | 09-03-2015 7:26 pm | Coal Mining & Preparation | 09-03-2015 7:33 pm <a href="#">Remove from Fleet</a> |

**Figure 82. Your Fleet Web Page**

On your Analyzer Fleet web page, you may view and manage analyzer(s) in your Fleet. In order for an analyzer to exist in your Fleet, you must add it using the analyzer's Serial Number and Security Code. To add an analyzer, click the Add Analyzer to Fleet button on the web page. Clicking this button will take you to a new web page - follow the instructions on the web page to add the analyzer to your Fleet. You may repeat this process to add additional analyzers to your Fleet at any time.

## My Account

While you are logged in to the Customer Support Web Portal, you may access your Account information either by clicking the “My Account” item in the left-hand navigation panel, or by clicking on your name in the Welcome phrase at the top right of the page.



Figure 83. Accessing My Account Page

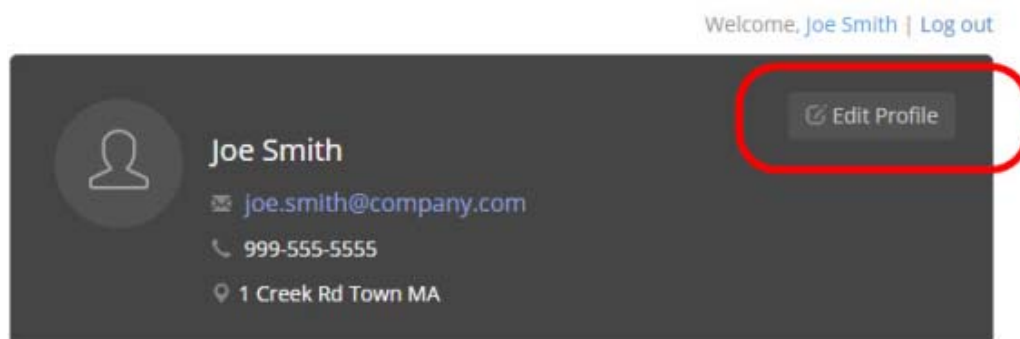
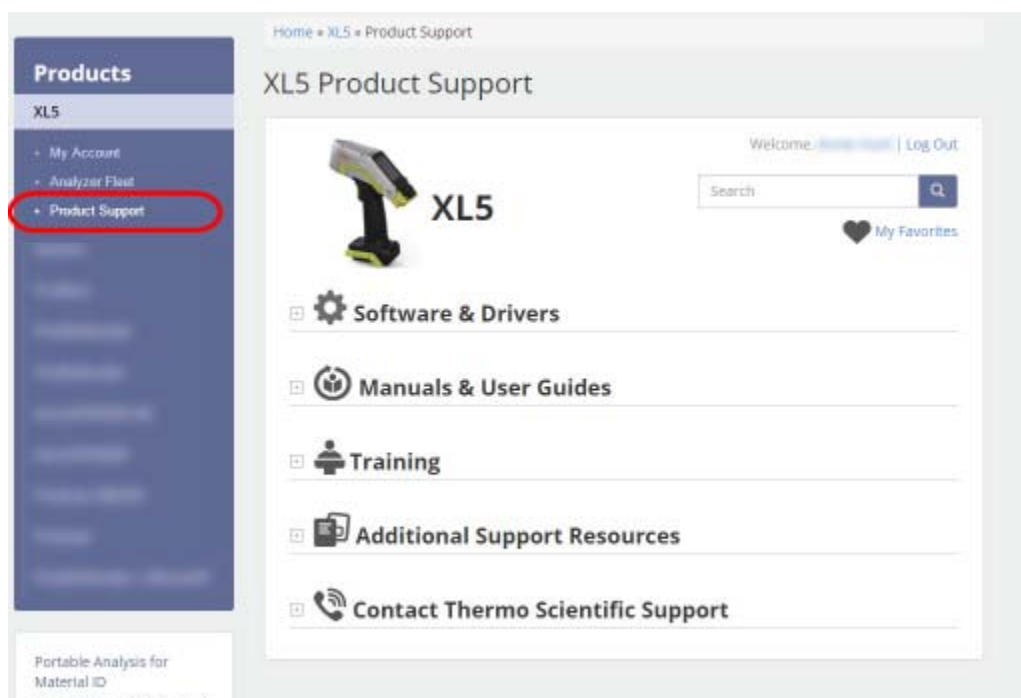


Figure 84. My Account Page

Select the **Edit Profile** button on your My Account page to change information and passwords as needed.

## Product Support



**Figure 85. Product Support Page**

From the Product Support page, you will be able to access resources including software, manuals & user guides, training, additional documentation, and contact information.

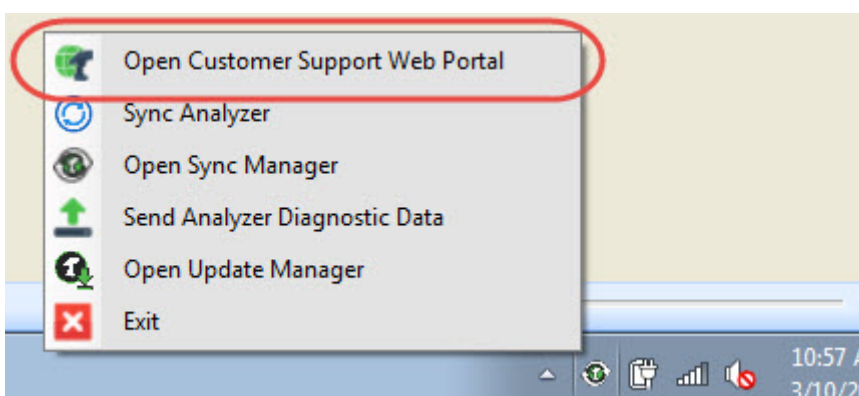


## Updating NitonConnect Data And Your Analyzer

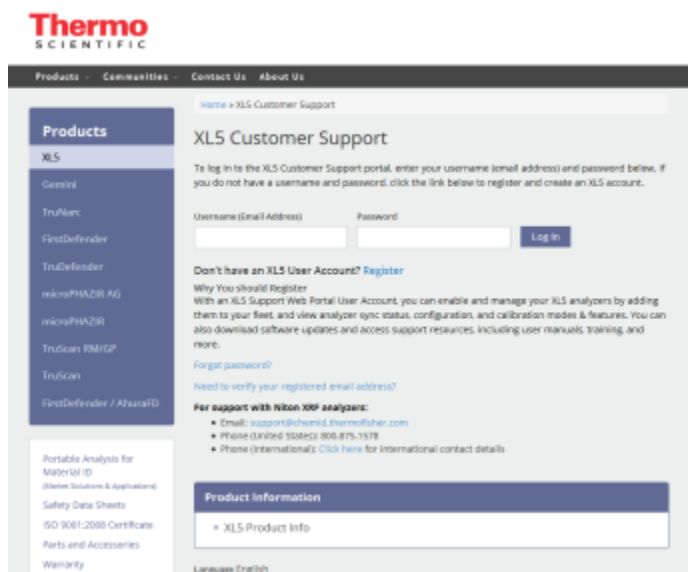
You **MUST** uninstall any existing versions of NitonConnect from your computer before installing a new version.

**Note** The examples shown in this chapter are for the XL5 analyzer. If you are using the Apollo analyzer the workflow is similar, but some screens will look different.

To access software updates, go to the [Customer Support Portal](#) and download the update file. To open the Customer Support Portal webpage, right-click on the NitonConnect Sync Manager icon in the system tray and select Open Customer Support Web Portal.

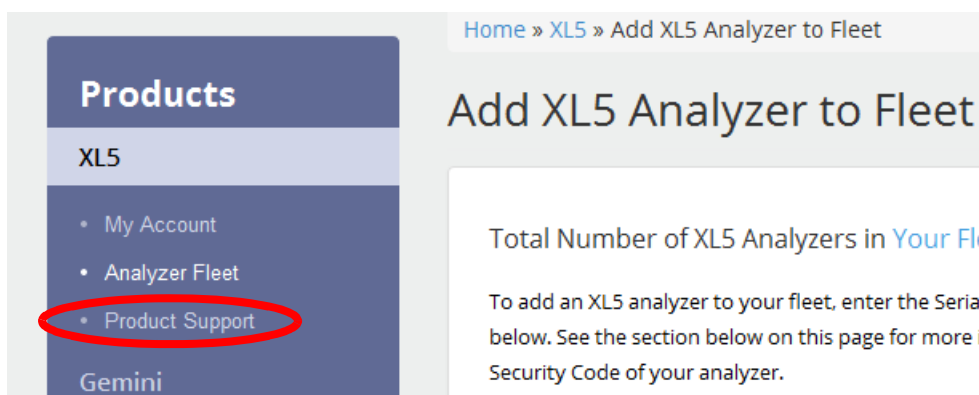


**Figure 86. Select Open Web Portal**



**Figure 87. Customer Support Web Portal**

Once you have opened the Customer Support webpage, log in with your account username and password (or Register if you have not previously created an account, and then Log in). Once logged in, navigate to Product Support under in the left navigation menu.



**Figure 88. Left Navigation Menu**

On the Product Support page, expand the Software & Drivers section and click the link for See all items in Software & Drivers...

Locate the version of NitonConnect Desktop Software that you want to install on your computer, and click the Download icon for that item to begin the download. Save the downloaded file to a preferred location on your computer.



**Figure 89. Download Icon**

**Thermo SCIENTIFIC**

Products - Communities - Contact Us - About Us

Home » XL5 » Product Support » Software & Drivers

### XL5 Software & Drivers

Welcome, Annie Hunt | Log Out

 **XL5**

Software & Drivers

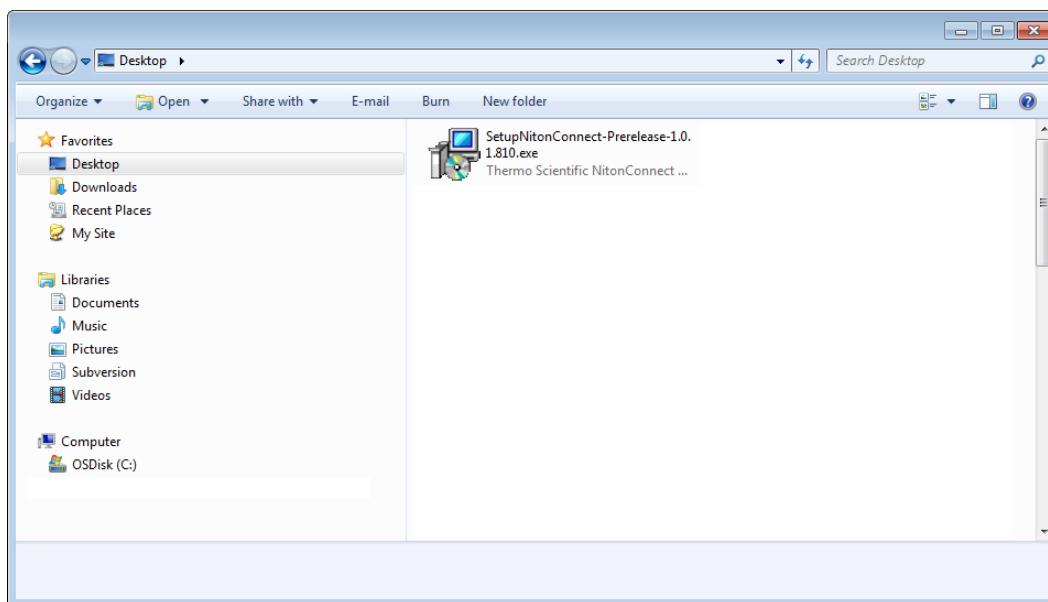
| Item Title                                           | Original Publication Date | Last Modified Date | Type              |                                                                                                                                                                                                                                                                   |
|------------------------------------------------------|---------------------------|--------------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">XL5 Analyzer Software, v. 1.1.0.0</a>    | 04/01/2016                | 04/15/2016         | Analyzer Software |    |
| <a href="#">NitonConnect Software, v.1.1.0.0</a>     | 12/18/2015                | 12/28/2015         | Desktop Software  |    |
| <a href="#">XL5 Analyzer Software, v. 1.0.0.2078</a> | 11/25/2015                | 01/05/2016         | Analyzer Software |    |

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Portable Analysis for Material ID  
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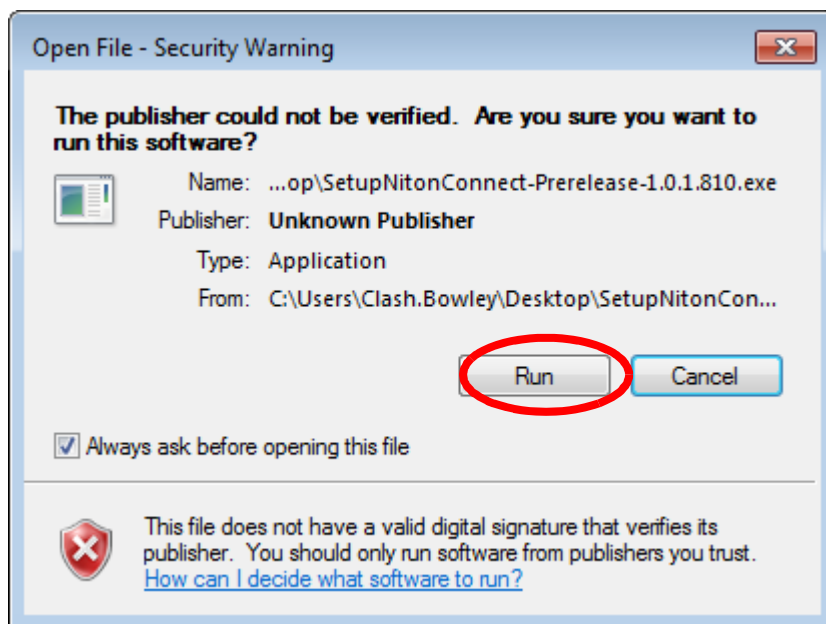
**Figure 90. Download Software**

Use Windows Explorer to browse to the folder where you saved the setup file.



**Figure 91. Browsing to the File Location**

Double click on the file to start the setup process, and select the Run button, then follow the instructions on “” on [page 2](#).

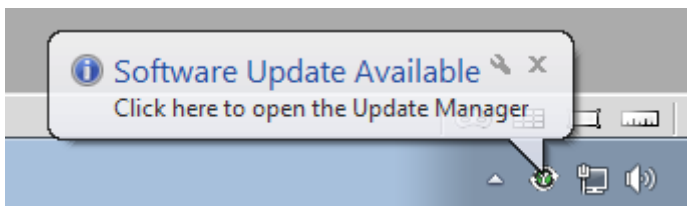


**Figure 92. Running the Setup File**

## Updating your Analyzer Software

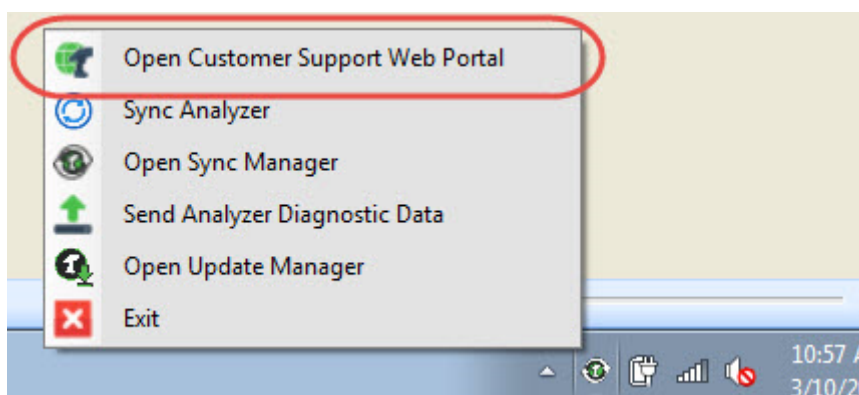
To update your device software, you will need NitonConnect version 1.3.1 or later.

If you have an Internet connection and NitonConnect Sync Manager running on your computer, you will sync upon connection and will notify you with a notification balloon if a software update is available for your device.

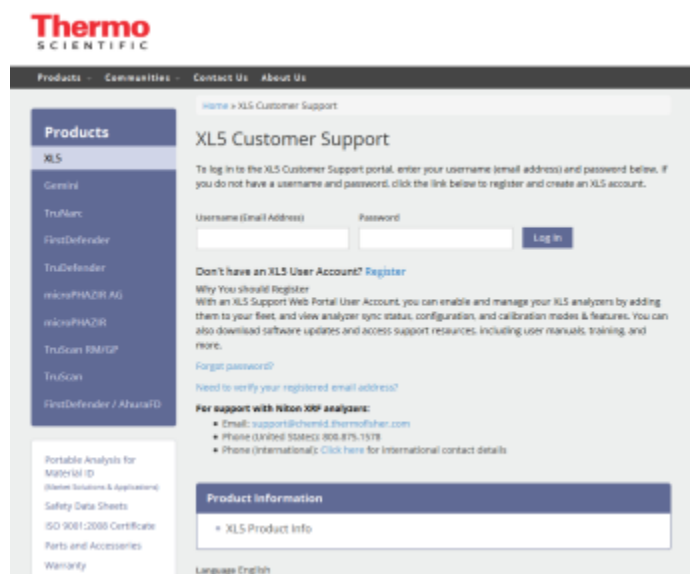


**Figure 93. Software Update Notification Balloon**

To access software updates, go to the [Customer Support Portal](#) and download the update file. To open the Customer Support Portal webpage, right-click on the NitonConnect Sync Manager icon in the system tray and select Open Customer Support Web Portal.

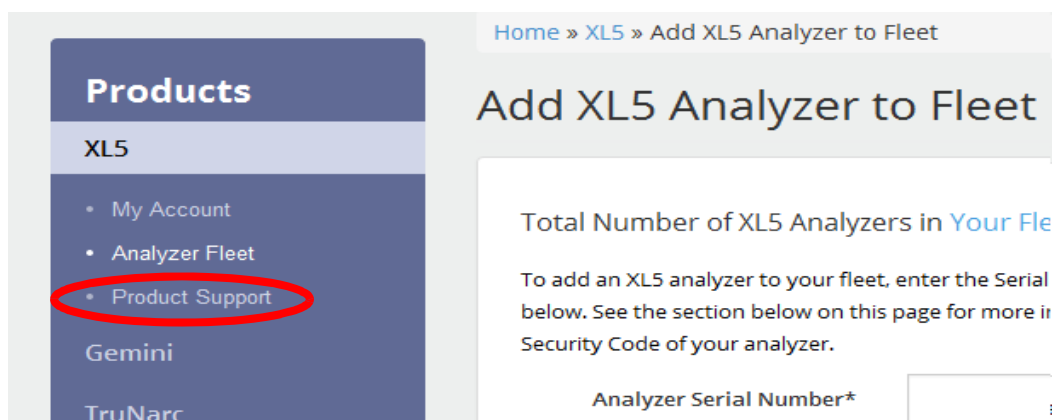


**Figure 94. Select Open Web Portal**



**Figure 95. Customer Support Web Portal**

Once you have opened the Customer Support webpage, log in with your account username and password (or Register if you have not previously created an account, and then Log in). Once logged in, navigate to Product Support under in the left navigation menu.



**Figure 96. Left Navigation Menu**

On the Product Support page, expand the Software & Drivers section and click the link for See all items in Software & Drivers...

Locate the version of Analyzer software that you want to install, and click the Download icon for that item to begin the download. Save the downloaded file to a preferred location on your computer.



**Figure 97. Download Icon**

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### XL5 Software & Drivers

Welcome, Annie Hunt | [Log Out](#)

**XL5**

**Software & Drivers**

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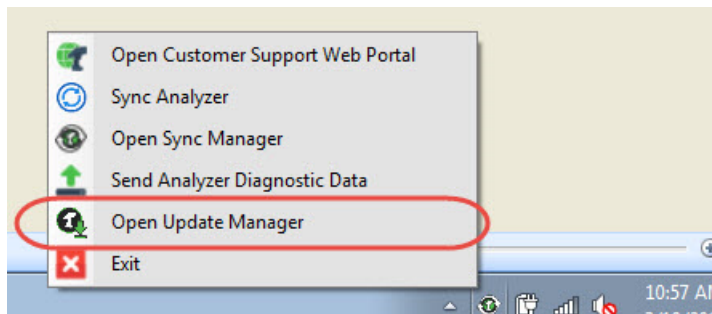
Portable Analysis for Material ID  
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**Figure 98. Download Software**

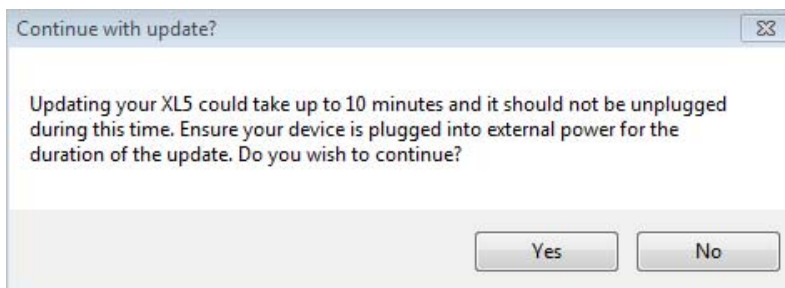
❖ **To update analyzer software**

1. Make sure your analyzer is securely connected to your computer via USB.

Open the Update Manager by right-clicking the Sync Manager icon in the system tray, and select **Open Update Manager**.



2. When the Update Manager opens, browse and select the file that you downloaded and saved in the steps above.
3. Click **Install Now**.
4. Select **Yes** to continue with the update, which may take up to 10 minutes to complete.
  - The analyzer must remain securely connected by USB during the update process.
  - Plug the analyzer into external power during the update, as a power interruption could result in failure.



5. When the update completes reboot your analyzer.

