Ocean Next

User's Manual

Ocean Next User's Manual - English - Version 3.0A

RTI part number: 4704.002105

Welcome to Ocean Next

Ocean Next with Quick Check is a is a powerful tool for everybody working with Quality Assurance of X-ray systems. Ocean Next can be used with the X-ray meters Mako, Piranha, Cobia and RTI Scatter Probe.

INDEPENDENT X-RAY
QUALITY ASSURANCE

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Intended Use of the Ocean Next Software

Together with instruments from RTI Group AB the Ocean Software is intended to be used for independent service and quality control, including measurements of kerma, kerma rate, kVp, tube current, exposure time, luminance, illuminance, and dose area product, within limitations stated below.

If installed according to accompanying documents, the product is intended to be used together with all diagnostic X-ray equipment except for:
- therapeutical X-ray sources.
- X-ray equipment w ith tube potential below 18 kV or above 160 kV.
- X-ray equipment on w hich the instrument cannot be mounted properly.
- specific types of X-ray equipment listed in the instructions for use or in additional information from the manufacturer.

With the X-ray installation without patient present, the product is intended to be used:
- for assessing the performance of the X-ray equipment.
- for evaluation of examination techniques and procedures.
- for service and maintenance of the X-ray equipment.
- for quality control of the X-ray equipment.
- for educational purposes, authority supervision etc.

The product is intended to be used by hospital physicists, X-ray engineers, manufacturer's service teams, and other professionals w ith similar tasks and competencies. The operator needs training to be able to use the product as intended. This training can be achieved either by study of the manual, study of the built-in help function in measurement softw are or, on request, by a course ordered from the manufacturer.

The product is intended to be used inside X-ray rooms ready for clinical use and can safely be left sw itched on and in any measuring mode in the vicinity of patients.

The product is NOT intended to be used:
- for direct control of diagnostic X-ray equipment performance during irradiation of a patient.
- so that patients or other unqualified persons can change settings of operating parameters during, immediately before, or after measurements.
- for any guidance to diagnosis of patients.

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Chapter 1

About the manual

1 About the manual

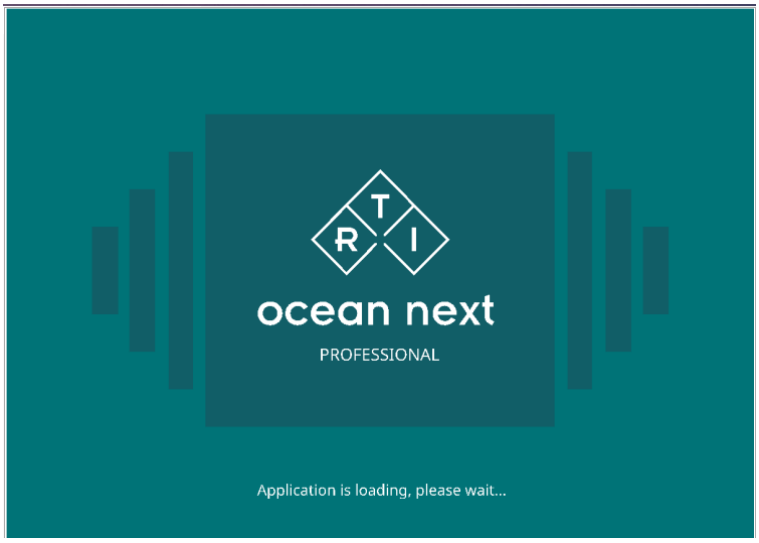
This printed **Ocean Next User's Manual** gives an overview of Ocean Next and myRTI, our cloud services. For a complete description including how to create and modify session templates, read the **Ocean Next Reference Manual**.

It is available in PDF format from RTIGroup web page. Go to **Resource Center**, scroll down and click on **Documentation** and select the **Manuals** tab.

Chapter 2

Introduction to Ocean Next

2 Introduction to Ocean Next



- ***Ocean Next*** *is a powerful software for X-ray Quality Assurance work. Use Ocean Next with the Mako, Piranha, Cobia Flex/Sense and/or RTI Scatter Probe significantly increase the quality and efficiency of your X-ray QA process.*

- ***Ocean Next*** *allows you to set up templates to automate X-ray equipment testing, analyze the test data and store the data, waveforms and analysis results for future reference or re-use.*

- ***Ocean Next*** *uses myRTI and myBox, cloud services, to safely store your data and allows you to directly share your data with your colleagues.*

Ocean Next must be activated within 30 days. This is done by getting an myRTI account at https://myrti.rtigroup.com. Do that now, if you haven't done it yet.

It is recommended that you run Ocean Next on a computer that has internet connection. You must not have access to internet all the time, but it recommended that the device you run Ocean Next on has the possibility to synchronize as often as possible but at least every 30 day. With internet connection Ocean Next will be able to use the myRTI and myBox cloud services to increase your productivity. You can read more in the topics myRTI Overview and How to use myBox.

A good way to get started with Ocean Next and your RTI meter is to do your first measurements with Quick Check. Quick Check is a "display function" that automatically sets up the measurement for you as soon as you connect a meter and probe (plug-n-play). In this way, you can quickly get started and begin to learn how to use both Ocean Next and your RTI meter.

2.1 Compatible meters and license level

The tables below shows compatible meters for Ocean Next compared to Ocean 2014:

Ocean Next	Ocean 2014
Connects to myRTI	
Black Piranha product version 5.5 or higher, firmware 4.0A or higher and **Cobia Flex** and **Sense** and **RTI Scatter Probe**	**Black Piranha** product version 5.5 or higher, firmware 4.0A or higher and **Cobia Flex** and **Sense**
Red Piranha that has been converted to Black Piranha, product version 5.5 or higher, firmware 4.0A or higher	**Red Piranha** that has been converted to Black Piranha, product version 5.5 or higher, firmware 4.0A or higher
Red Piranha with firmware 4.0A or higher	**Red Piranha** with firmware 4.0A or higher

All red Piranha can be upgraded with the latest firmware and used with Ocean Next.

Mako firmware

Each version of Ocean includes the relevant Mako firmware. Every time you connect to Mako, Ocean Next will check your Mako system and directly make it possible to install a suitable firmware. Follow the instructions in Ocean Next to complete the firmware installation.

License level

The license level is stored in your meter and is set every time you connect to a meter. This means that license level, and the available functions in Ocean, might change when you use different meters if they have different license levels stored. License level CONNECT used in Ocean 2014 has now been renamed to ADVANTAGE.

You can read more about the different license levels in the topic License levels.

2.2 Installation

Requirements

Ocean Next requires Windows 10 or 11. You must also create an account and sign in to myRTI; our customer platform. It is also recommended that you run Ocean Next on a computer with access to internet. You don't need constant access, but it is good if Ocean Next frequently can synchronize with myRTI.

The screen you use must at least have resolution of 1280 x 800 with factor of 100% (setting in Windows). The table below shows minimum screen size with other scale factors:

Scale factor	Minimum screen size
100%	1280 x 800
125%	1600 x 1000
150%	1920 x 1200
175%	2240 x 1400

200%	2560 x 1600
250%	3200 x 2000
300%	3840 x 2400
350%	4480 x 2800
400%	5120 x 3200

Example: Your screen has a resolution of 1920 x 1080, maximum scaling you can use in Windows is 125%.

Ocean will warn if screen size is incorrect and continue to run but certain objects may not be visible on the screen and it might be confusing and difficult to use the application.

Installation

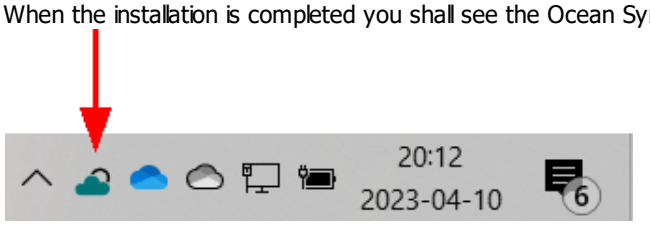
During the installation the following applications are installed:

- Ocean Next
- Ocean Sync
- Various applications required for the RTI meters

Run the installer and follow the on screen instructions.

In case you are updating from Ocean 2014 and the installer finds Ocean 2014 installed on your computer, you will be asked during the installation process if you want to import your database from Ocean 2014. If you accept this, all your data from Ocean 2014 will be moved over to Ocean Next. Read more about updating from Ocean 2014 in the topic Update from Ocean 2014 to Ocean Next.

When the installation is completed you shall see the Ocean Sync icon on the **Tray** bar:



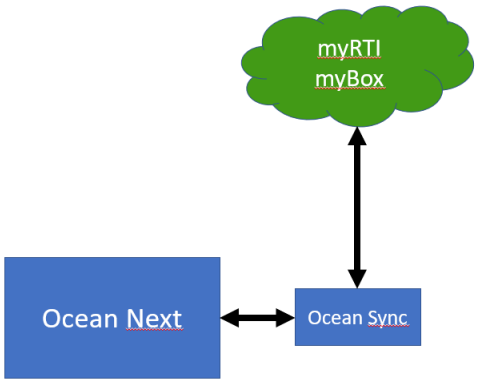
NOTE! You will sign in when you start Ocean Next, do not sign in directly with Ocean Sync even if it is possible.. You can read more about Ocean Sync in the Ocean Sync topic.

Ocean Next is installed for one user and will require you to activate it via myRTI or with an activation code withing 30 days. After 30 days without activation, Ocean Next will **no longer communicate with your meters**. All other functions will remain and all your data will be available. If you don't have internet access on your computer, or if you for any other reason don't want to connect to myRTI, activation with a code is also possible. See topic Starting Ocean Next for the first time and activation to read more.

It is recommended, in case you are more than one person using the same computer to run Ocean, that each user has a personal Windows account on the computer and installs their own copy of Ocean with their own username and password. Working in this way, will make your and your colleagues setup more compatible with future functions coming from RTI Group.

2.3 Ocean Sync

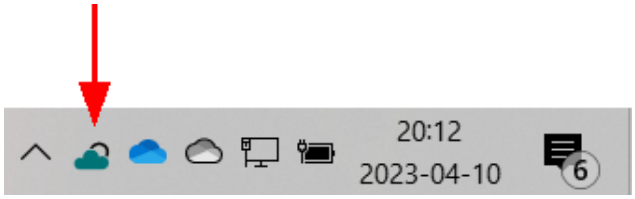
Ocean Sync is a utility software, installed with Ocean Next. This software functions in the background, to allow Ocean Next to communicate with myRTI.



You do not always need internet to use Ocean Next, but when you have connection, Ocean Sync will work silently in the background. Normally, you don't need to do anything with Ocean Sync, it starts automatically when you login to your Windows account on your computer.

Ocean Sync status

Ocean Sync appears on the **Tray** bar of your computer:



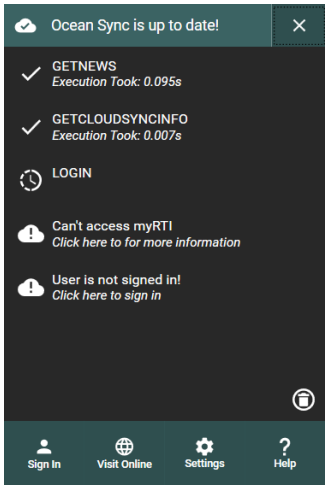
The icon shows status for Ocean Sync:

Ocean Sync is running and you are signed in to myRTI.

Ocean Sync is running but you are not signed in to myRTI.

The Ocean Sync Window

If you click on the Ocean Sync icon on Windows **Tray** bar, the Ocean Sync window is opened:



The Ocean Sync window shows the communication with the cloud. Normally you don't need pay any attention to this but it may be of use if any problem occur with the cloud communication.

Click on the ✕ button in the upper right corner to close the window.

The Ocean Sync buttons has the following functions:

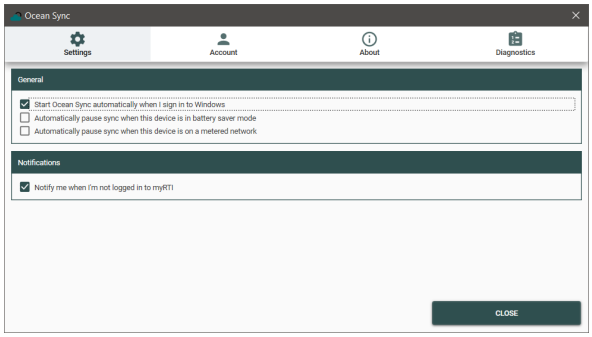
This button opens the Sign in dialogue.
NOTE: You shall normally never Sign in here, this is always done from Ocean Next.

This button starts your web browser and the myRTI web page is opened.

This button opens Ocean Sync's **Settings** dialogue, see below.

This button starts your web browser and opens RTI's Support portal.

Ocean Sync's Settings

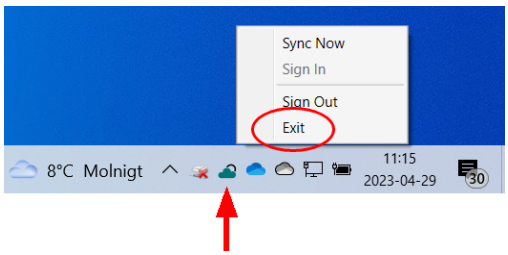


You can on the Settings page control when Ocean Sync shall synchronize depending on battery mode and internet access mode.

The other pages are not for normal use.

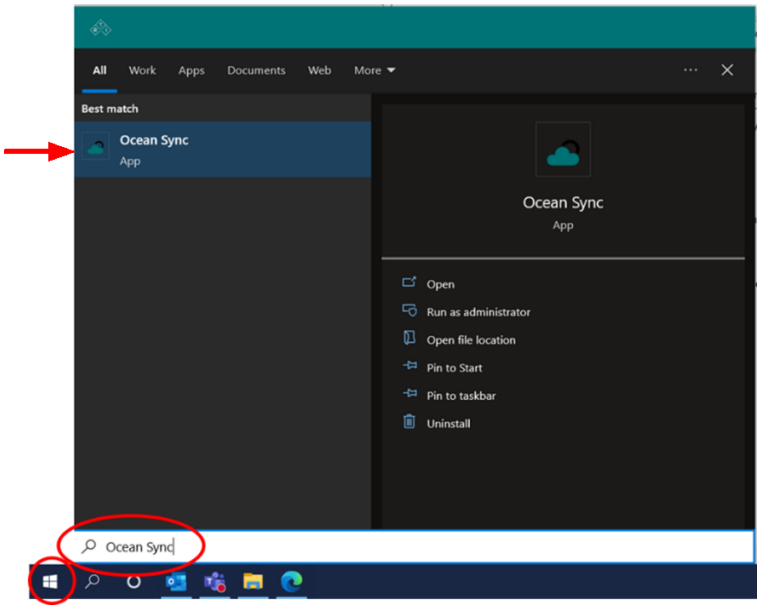
How to exit Ocean Sync

Normally, you don't need to stop Ocean Sync but if it may be needed in special situations. Right-click on the Ocean Sync icon on the Tray bar and select Exit to stop Ocean Sync:



How to restart Ocean Sync manually

Normally, you don't need start Ocean Sync manually since it starts automatically. However, there might be specific situations when this is needed, then do the following:



If you cannot see Ocean Sync in the **Tray** bar, or need to restart the software, follow the instructions below.

1. Close down Ocean Next software if it is running.
2. Find the Ocean Sync App; use the Windows start-menu, type "Ocean Sync" and it should appear.
3. Start Ocean Sync clicking on it.

2.4 Update from Ocean 2014 to Ocean Next

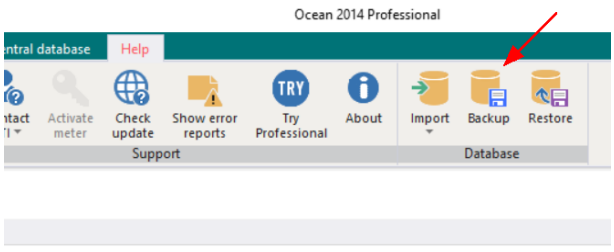
Update if Ocean Next is installed on the same computer as Ocean 2014

When you update to Ocean Next on the same computer where you have Ocean 2014, all your existing data can be imported to Ocean Next. During the installation you will get a question and if you select this option when asked, your current Ocean 2014 database is moved to Ocean Next. The conversion of the database file will occur when you start Ocean Next for the first time.

Update if Ocean Next is installed on a different computer

You must manually move the database file if you install Ocean Next on different computer than the one you use for Ocean 2014. This procedure is described below.

1. Start Ocean 2014 and go to the Help tab.
2. Click on the **Backup** button:



3. A backup file of your Ocean 2014 database is created on your Desktop. It will have the name "Ocean2014_db_date_time".

4. Rename the file to "AllData".

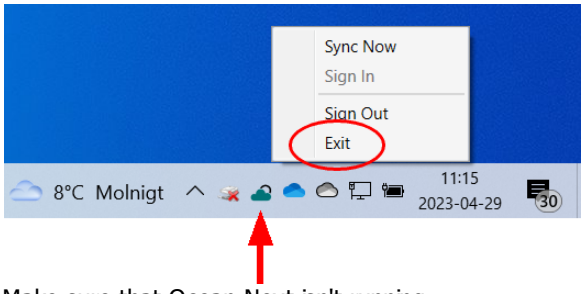
5. In some way, move over the file to the computer where you will be running Ocean Next on.

Important! if you already have been using Ocean Next on this computer and has activated with myRTI and maybe also myBox, then you must do the following:

- Deactivate myBox if you have used this service, see topic Activation of myBox for more information.
- Deactivate Ocean Next from myRTI, see topic myRTI for more information.

Now continue with step #6.

6. Stop Ocean Sync, right-click on the Ocean Sync icon on the **Tray** bar and select "Exit" from the menu:



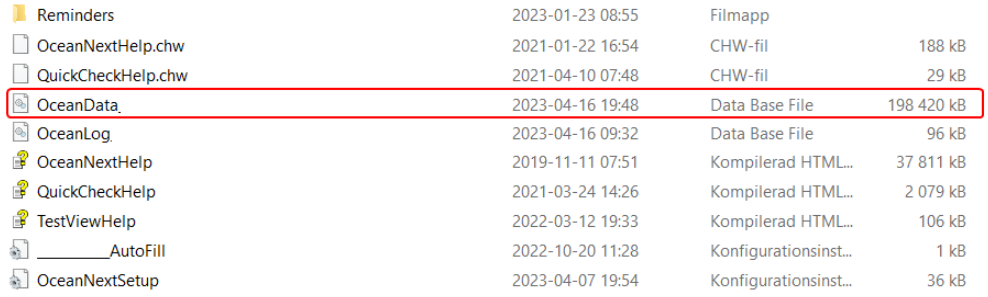
7. Make sure that Ocean Next isn't running.

8. On the computer you use for Ocean Next, open Ocean Next's Data Folder. This folder is found here:

   C:|Users|your username|AppData|Local|RTI Group|Ocean Next|ProgramData.

9. Copy the file "AllData" to this folder.

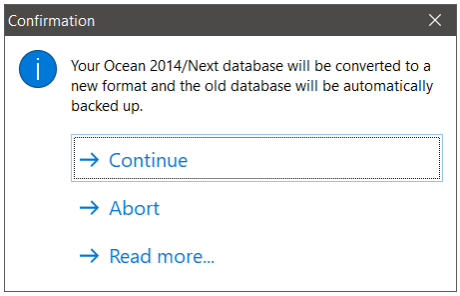
10. Locate the existing Ocean Next database file. The file name is "OceanData". Rename it or delete it if you are sure that you never want to revert back to this database.



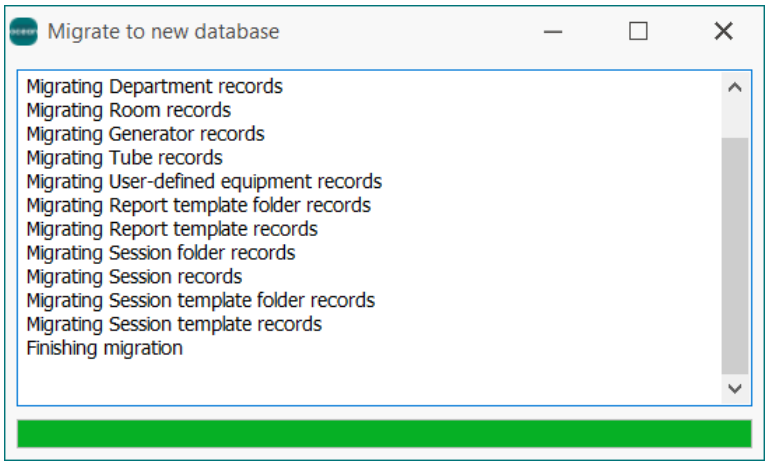
11. Now log out from your Windows account and log in again (or restart the computer) to restart Ocean Sync.

12. Now start Ocean Next.

13. Ocean Next will automatically find the Ocean 2014 database and show the following dialogue:



14. Select **Continue**, the conversion starts and a dialogue is shows the progress:



15. Wait until the conversion is completed, it might take a while depending on the size of the database and computer.

16. You will now find all your Ocean 2014 data in Ocean Next.

If you are new into Ocean Next, read the topic Ocean Next Overview to learn more about how your data is organized in Ocean Next.

2.5 Activation of Ocean Next

Ocean Next requires activation with your myRTI account. You can activate Ocean Next in three different ways:

- The device you run Ocean Next on has internet access now: You can be activate directly by signing in with your myRTI account.
- The device you run Ocean Next on hasn't internet access now but will be on a regular basis has that: You can activate later by signing in with your myRTI account when you have internet access.
- The device you run Ocean Next on will never have access to internet: You must use an other device with access to internet to get an Activation Code by signing in to your myRTI account.

You can use Ocean Next for 30 days without activation but when time expires communication with your RTI meters will be blocked until Ocean Next is activated but all other functions and your data will be available to you.

When activation is ready, Ocean Next, your measurements and your equipment will be logged and registered in your myRTI account. If you for any reason would need to change myRTI account, this can be done by deactivating myRTI and activate again with another myRTI account. You can see how this is done by reading the topis myRTI.

Start Ocean Next for the very first time:

1. It is recommended that you first sign up for an myRTI account if you not yet have one. Go to https://myrti.rtigroup.com to create an account.

2. If you, during the installation process, chose to import a database from Ocean 2014, a migration process starts that will take a few minutes depending on the size of the database. The progress is shown on your screen. Note that your existing installation of Ocean 2014 is not affected, it is kept exactly as it is.

3. Next a setup wizard will start and ask you to enter some basic information:

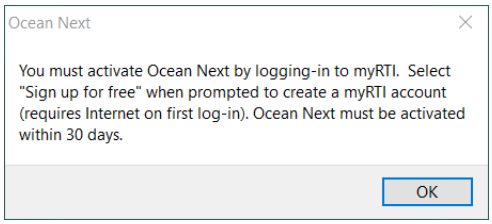
   - Language: Only English is currently available.
   - Tester information: This is the name, organization and contact information that is included in reports.
   - Default units for Exposure, Length, Temperature, Air pressure, Ambient light and Light intensity.

   Fill in the required information and finish the wizard.

4. Ocean Next will now try to connect to myRTI and ask you to sign in with your account to activate Ocean Next.

5. Depending if internet is available or not, you will see the following, if you have internet access continue to step #6.

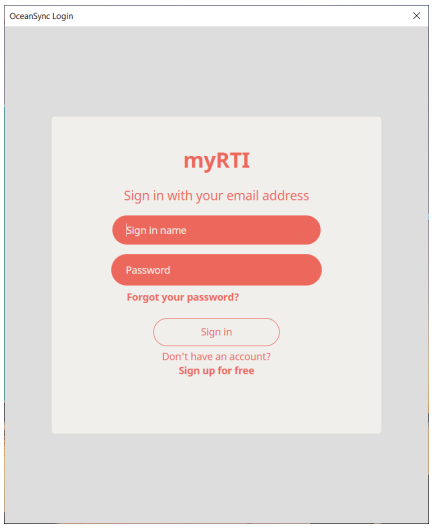
   If you don't have internet access, this dialogue will be shown:



   - Internet isn't available now but will be later on a frequent basis; do not activate no, do it later when you have internet connection, go to step 8.
   - Internet will never be available; activation by code will be required, go to step #11.

Activation by directly signing in to myRTI:

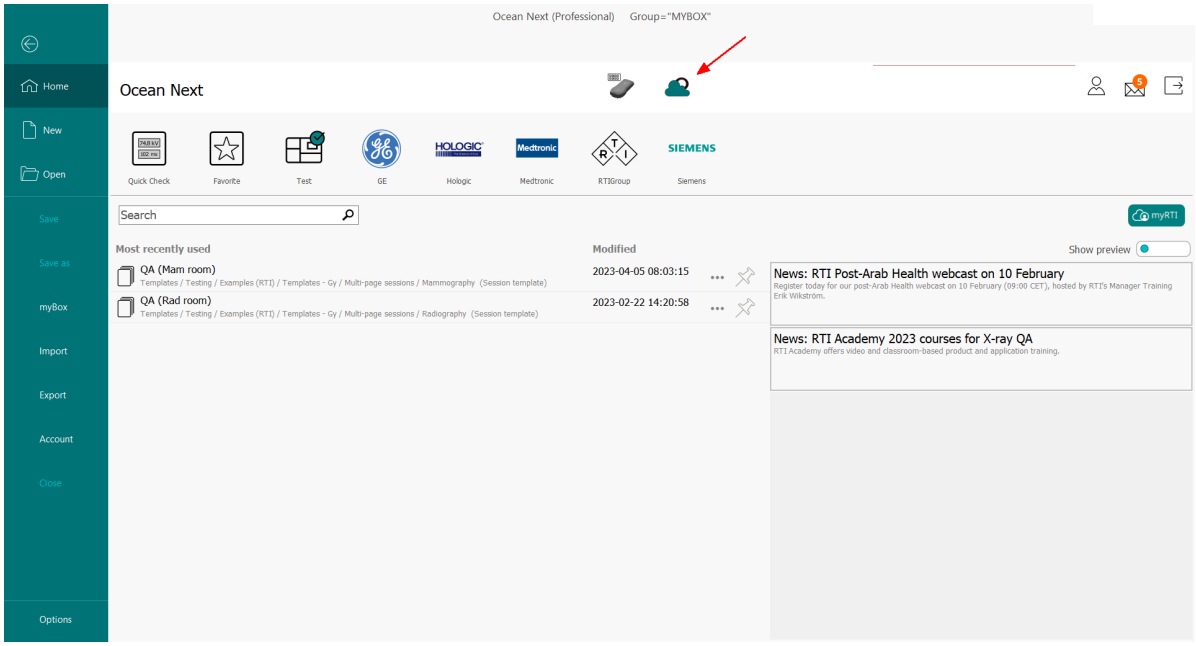
6. If your computer has internet connection it will prompt you to sign in to myRTI:
   (if you have other applications running, this dialogue may be hidden behind other windows on your screen)



   Enter your sign in name and password to sign in. Ocean Next will show a message and confirm that activation is now completed.

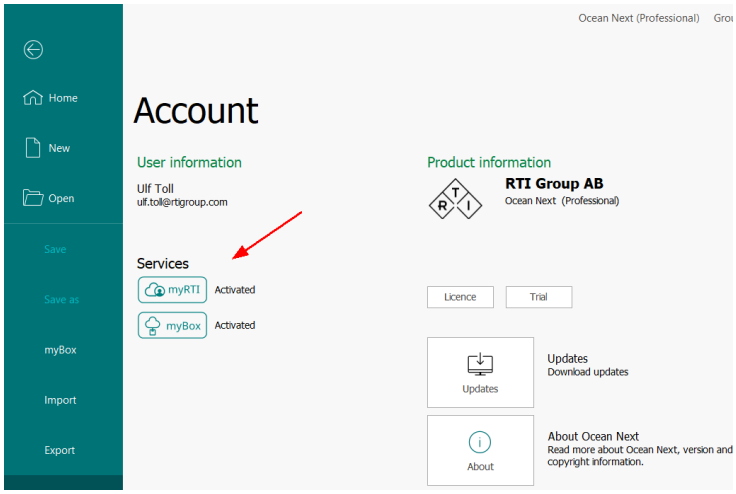
   If you for some reason don't want to activate at this point, click in the upper right corner to close the sign in dialogue. Ocean will show a message that tells you that you must activate within 30 days and you can start using Ocean Next.

7. Ocean Next starts and the Backstage is shown:



The icon at the top of the page indicates that Ocean Next now is connected to myRTI.

You can also go to the Backstage Account page and here see what cloud services you have activated:

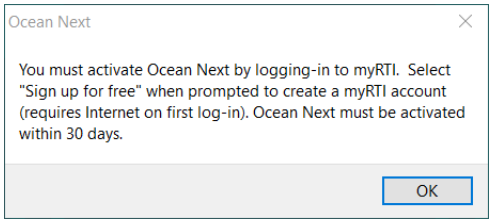


You have now activated Ocean Next and you are now ready to start using Ocean Next.

It is recommended that you continue with reading the next topic; Workflow with Ocean Next. However, if you have a valid myBox subscription you may want to activate that first. The myBox button will indicate this by saying "Click to activate" if you have one. You can read more about how to start up with myBox in the next topic; Activation of myBox.

Activation by signing in to myRTI later:

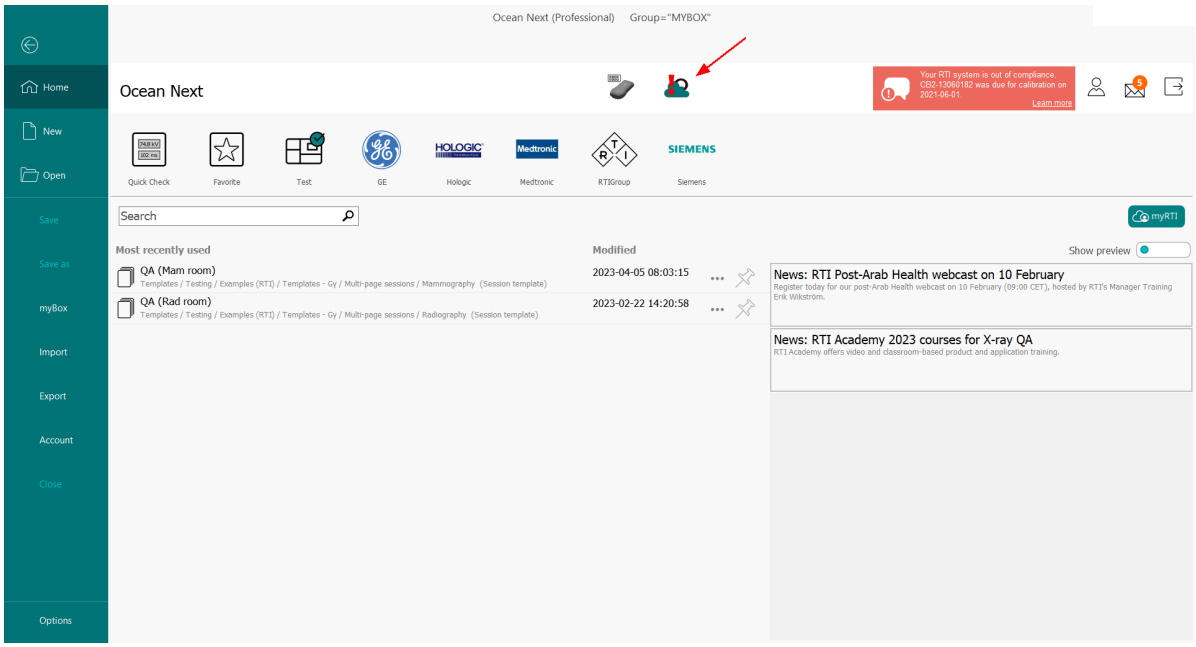
8. If internet isn't available now, the following message is shown:



This message will be shown every time you start Ocean Next until you activate it. When you start Ocean Next later and internet is available, follow the procedure starting with step 6 above. Make sure to do this before the 30 day period expires.

9. Click OK, to continue and use Ocean Next without activate it.

10. Ocean Starts and the Backstage is shown:

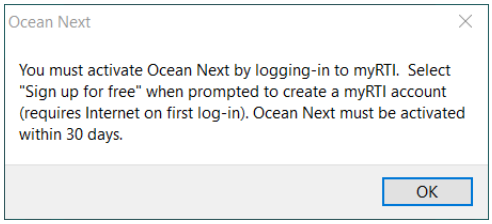


The icon at the top of the page shows that myRTI isn't available.

You have not yet activated Ocean Next but you can start using Ocean Next. However, it is recommended that you continue with reading the next topic; Workflow with Ocean Next.

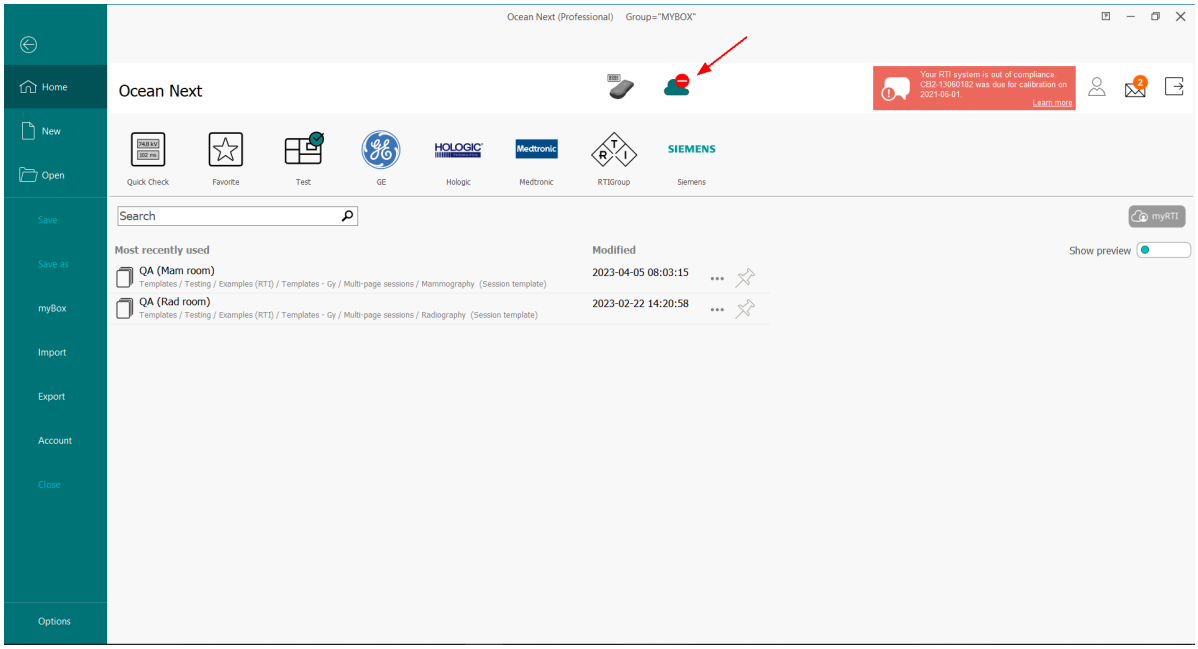
Activation by code:

11. If the device you run Ocean Next on can't use internet, Ocean Next can't connect to myRTI and activate. The following message will be shown when you start Ocean Next:



Click OK to continue.

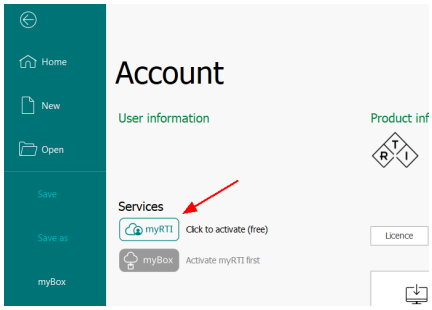
12. Ocean Starts and the Backstage is shown:



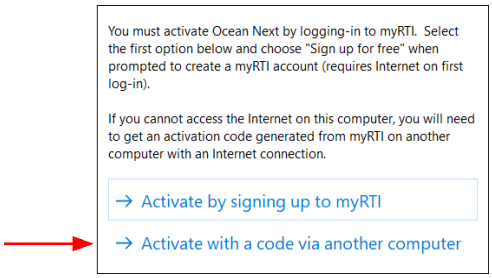
The icon at the top of the page shows that myRTI isn't available. If you don't have internet connection on this device, Ocean Next must be activated by using another computer and a code. To do this follow step 13 and forward.

13. Click on Account in the Backstage menu on the left side.

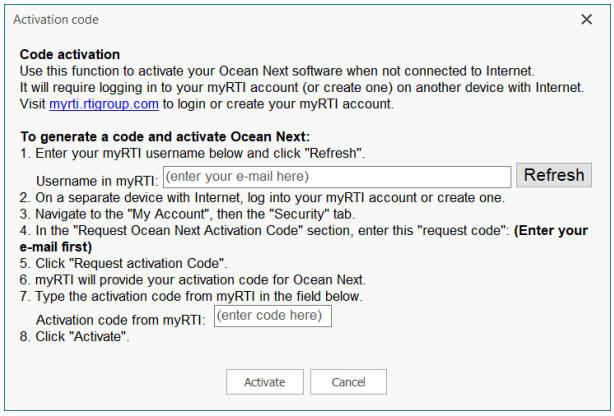
14. Click on the **myRTI** button under Services.



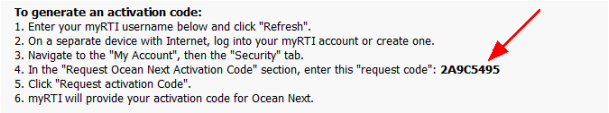
15. A dialogue is shown, select the second option.



16. A dialogue is shown:



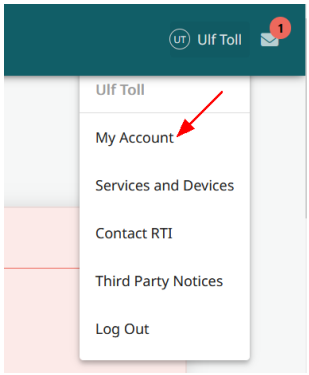
17. Follow the instructions in the dialogue. Enter your myRTI sign in name and click "Refresh", a "request code", it will be generated and used in step #4.



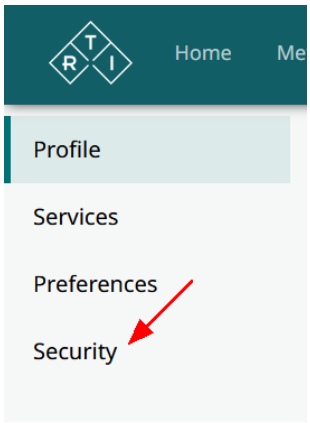
If you don't have access to your myRTI account now, do step #1 and write down the "request code" shown in step 4. You can now click "Cancel" in the dialogue and start using Ocean Next. Come back here as soon as you have been able to visit myRTI and got the activation code and complete the activation. Make sure to do this before the 30 day period expires.

18. Use a separate device to sign in to your myRTI account and follow the instructions in the dialogue.

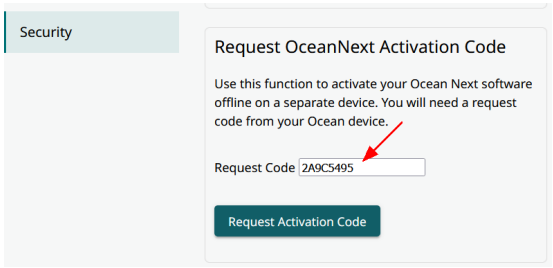
19. Click on your name in the upper right corner of the myRTI web page and select "My Account":



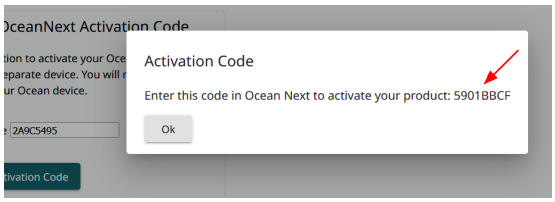
20. From the menu on the left side select "Security":



21. Enter the "request code" you created in Ocean Next:

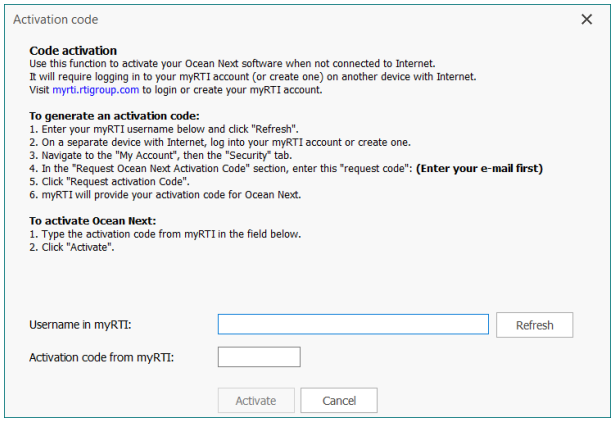


22. Click on "Request Activation Code". The code will be shown:

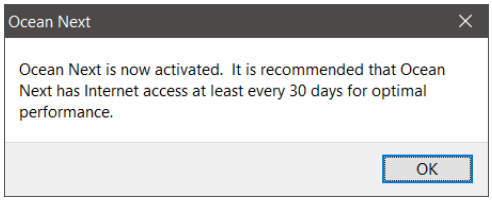


23. Now go back to Ocean Next. Write down the Activation Code if you want to continue later.

24. Enter the Activation Code and click "Activate":



25. Ocean is now activated and a dlg is shown to confirm this:



If you at any time want to use Ocean Next with myRTI connection; make sure your Ocean Next computer has internet access and click on the **Sign in** button at the top of the Backstage Home page.

You have not yet activated Ocean Next but you can start using Ocean Next. However, it is recommended that you continue with reading the next topic; Workflow with Ocean Next.

2.6 Difference between Ocean 2014 and Ocean Next

Read this topic if you are used to Ocean 2014 to understand the differences between Ocean 2014 and Ocean Next.

The main differences are:

1. Ocean Next starts with the Ocean Next Backstage view, this is described later in the topic Backstage View.

2. Ocean Next has three different views where you work and perform different tasks.

   - The main view in Ocean 2014 still exists in Ocean Next and is now called Studio View. It can be used in the same way as in Ocean 2014 but is now intended to be used when you design templates.

   - With Ocean Next, measurements are performed in the Test View. This view offers a fixed screen layout where different objects (grid, waveforms, analysis, etc.) appear on the same place regardless of how you have designed the template or the type of screen you use. This saves time when designing templates since you don't need think about how to layout different panels and objects. Every time somebody use a template, it will look the same on the screen. This means that the templates you have used in Ocean 2014 appears differently in Ocean Next's Test View but all functions will still be available. You can do your measurements in the Studio View, if you for any reason, need to use the Ocean 20014 layout.

   - The Quick Check View in Ocean Next is similar to the one in Ocean 2014 but is now limited to do only quick measurements, the application part present in Ocean 2014 is removed in Ocean Next. Quick Check is now basically a "display" that, in the same way as in Ocean 2014, automatically adapts (plug-n-play) to the meter and probes you connect. The measurements can be saved and printed. Another new thing in Ocean Next is that Quick Check measurements now has a page for the site information and can be saved in the Site section of the database if you have the PROFESSIONAL license.

3. There are less document type in Ocean Next compared to Ocean 2014. The Real-Time-Display document type in Ocean 2014 does not exist in Ocean 2014. When migrating from Ocean 2014 to Ocean Next and the database is converted, all "Real-Time Display" measurements and templates are converted to single-page sessions and single-page session templates, respectively. A single-page session is a session with site section and on "page" for measurements.

4. It is possible with Ocean Next to have multiple Session and Session Templates open at the same time, no need to close a document if you need to open another one.

5. The database structure in Ocean Next is slightly different compared to Ocean 2014.

   - Both Measurements and Library content are shown in the same tree, there is no separate Library tab in Ocean Next.

   - The Measurements folder in each Room is removed, measurements are saved directly in the Room. It is now possible to create sub folders in a Room to further organize measurements.

   - Real-time Displays does not exist in Ocean Next

   - The dedicated storage place for Quick Checks does not exist in Ocean Next. Quick Check measurement are now single-page sessions and can be saved in the same locations as session.

   - The entire content in Library; Session templates, Test templates, Real-time displays templates and Checklist templates are in Ocean Next represented by one single type, Session templates. These are located in the Testing folder under Templates in Ocean Next.

   - In Ocean Next a new location called Folders has been added for storage of measurements. You can in Folders create your own sub folder structure and store measured data here as an alternative to Sites. Folders is available with all license levels while Sites is available only with PROFESSIONAL.

     Note: If you imported your Ocean 2014 database when you update to Ocean Next, all your existing templates will be found in separate folders that makes it easy for you to identify them in the new database structure.

6. Ocean Next has a Trash folder where all content you delete will be saved. It is possible to recover content you have deleted.

7. Ocean Next uses three license levels as Ocean 2014 but CONNECT has been renamed to ADVANTAGE. The functions available for the different levels has changed slightly. The main difference is that your now with ADVANTAGE (called CONNECT before) instead of Real-time Displays templates now can create and use single-page Session Templates. You can in these single-page sessions include all capabilities like site information, analysis, graphs and user-defined calculations that in Ocean 2014 only was available with license level PROFESSIONAL. The only limitation with ADVANTAGE is that each Session Template only can have one page for measurements.

2.7 How To Get Support

You can always contact the RTI Support if you encounter a problem. The RTI Support can be reached by e-mail or phone:

E-mail: support@rtigroup.com
Phone: +46 31 746 36 28

1. First visit our website and go to Support and see if you can find a solution here.
2. Get in contact with our Support. Make sure to have the following information:
   - If you have problem with a measurement or template, save it, export it and send it to RTI Support.
   - Supply a good description, step-by-step on how to reproduce the problem or specify that it is an intermittent problem.
   - Make a "Support file".

How to make a Support file

You can send it directly if you have a mail program on the computer you use, otherwise select **Save** and send it from another computer. You will find a button for making the support file on the Ribbon bar:

In Quick Check: Click on the **Options** button and select "Make Support file".

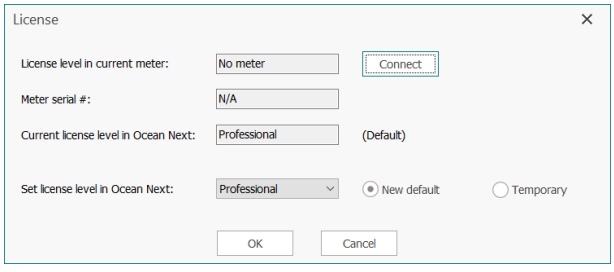
In the Test View: Go to the Ribbon bar Help page and select "Make support file".

In the Studio View: Go to the Ribbon bar Help page and click on the **Contact RTI** button and select "Make Support file".

2.8 License levels

The license level is stored in the meter. It is recommended that you make sure that all meters you use regularly have the same license level. When you connect to a meter, Ocean Next will directly adapt to the license level stored in the meter. This means the you may not have access to functions and Sessions you use with one meter, when you use another one. If you are not connected to a meter, you are allowed to use any license level. You can for example, in a situation when you can't open a Session since a higher license level is required, temporarily raise the license level. To do this:

1. Disconnect from your meter.
2. Go to the Backstage View.
3. Click on Account on the File Menu.
4. Click on the **License** and the following dialogue is shown:



5. From the drop-down list after "Set license level in Ocean Next", select the level you want to use.

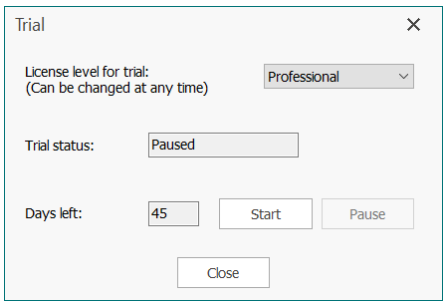
6. Select "Temporary" or "New default" if you want to change it permanently. The default level, is the level Ocean Next returns to after you have used a meter with a license level other than your default one.

   New default means that this level will always be used when Ocean starts, before you have connected to a meter.
   Temporary means that Ocean will use the license level you specify only temporary and return to the default level when you start Ocean next time.

If you purchase an upgrade to a higher level and got a license key, your meter must be activated. Read more in the topic Activate meter.

2.9 Try a higher license level

If you are using license level QUICK or ADVANTAGE a trial function is available that makes it possible during 45 days to try a higher license. When you click the Trial button the following is shown:



You can chose license level for the trial and you can change as many times you want during your trial. You can also pause the trial if you want and your 45 days count is also paused.

Important: If you save content with a higher license level, it may be locked for you when your go back to your normal license level.

Chapter 3

Cloud Services

3 Cloud Services

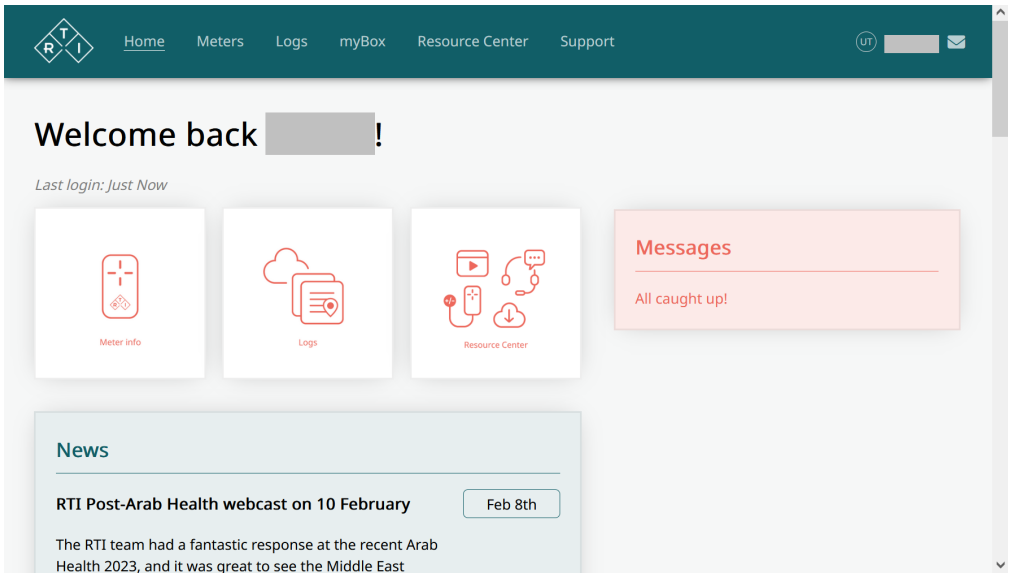
Here you can read about our customer platform, myRTI, that will help you to use our meters and software in the most effective way and maximize your productivity. myRTI is free of charge and is available as soon as you have registered an account at *https://myrti.rtigroup.com* and the Web Storage service, myBox, for Ocean Next.

Read more in the topics:

- myRTI Overview
- myBox overview

3.1 myRTI Overview

myRTI is our customer platform that will help you to use our meters and software in the most effective way and maximize your productivity. myRTI is free of charge and is available as soon as you have registered an account at *https://myrti.rtigroup.com.*



myRTI is available to everybody free of charge. Here you will find news about products, software releases and much more. If you also activate Ocean Next by connecting to myRTI (requires internet) a lot of other capabilities become available to you:

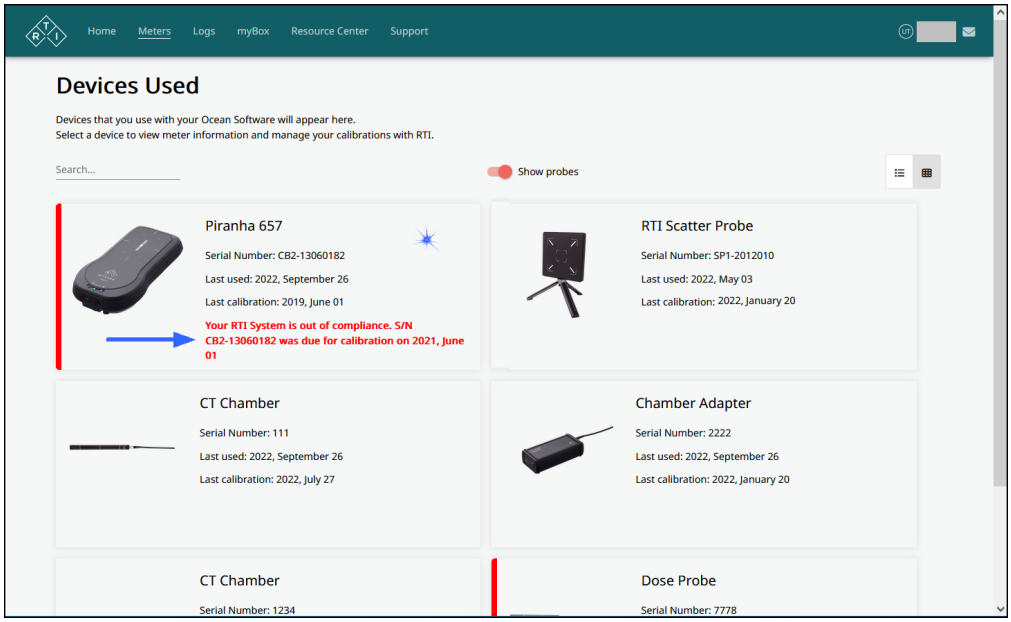
Keep track of your RTI equipment. All information about the RTI equipment you use is saved in the cloud. You can also download your calibration records here.

The result from every exposure you do is saved in the cloud.

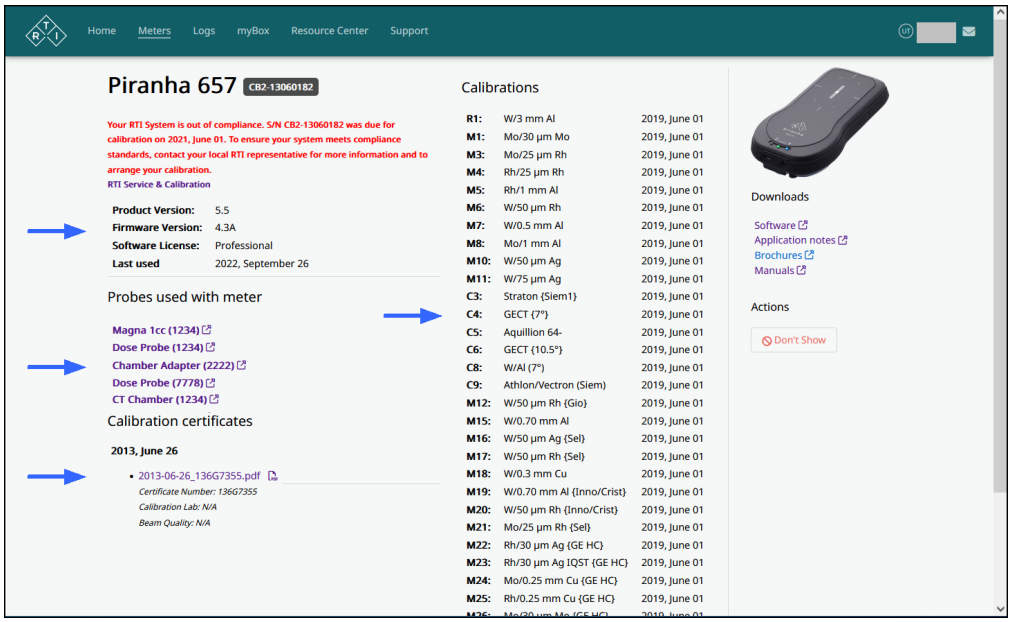
Keep-up-to date with new from RTI.

Meters - your RTI equipment

In this section of myRTI you can find your meters and probes from RTI that you use. The content here is automatically registered when you use meters and probes with and Ocean Next synchronizes with myRTI. Click on **Meters**.



Your different meters and probes are shown and you can see basic information about each; serial number, when it was last used andlast calibration date. It is indicated if calibration is due. You can click on a device to get more detailed information about it

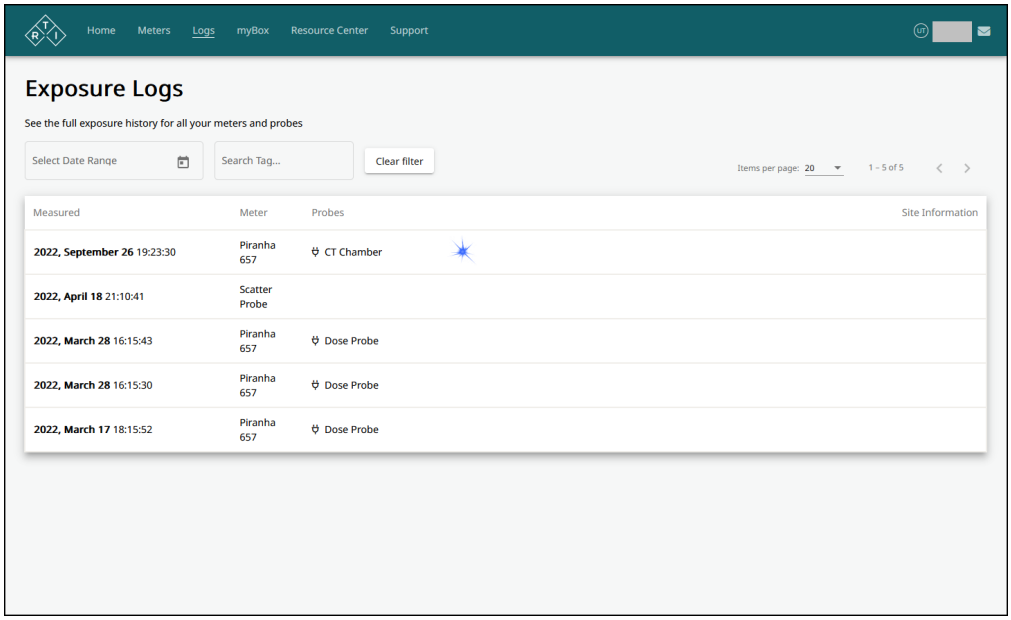


When you click on a device, you will see more detailed information:

- Product and hardware version.
- Which other devices it has been used with.
- Download of calibration records
- Detailed list with all calibrations

Logs - your measurements

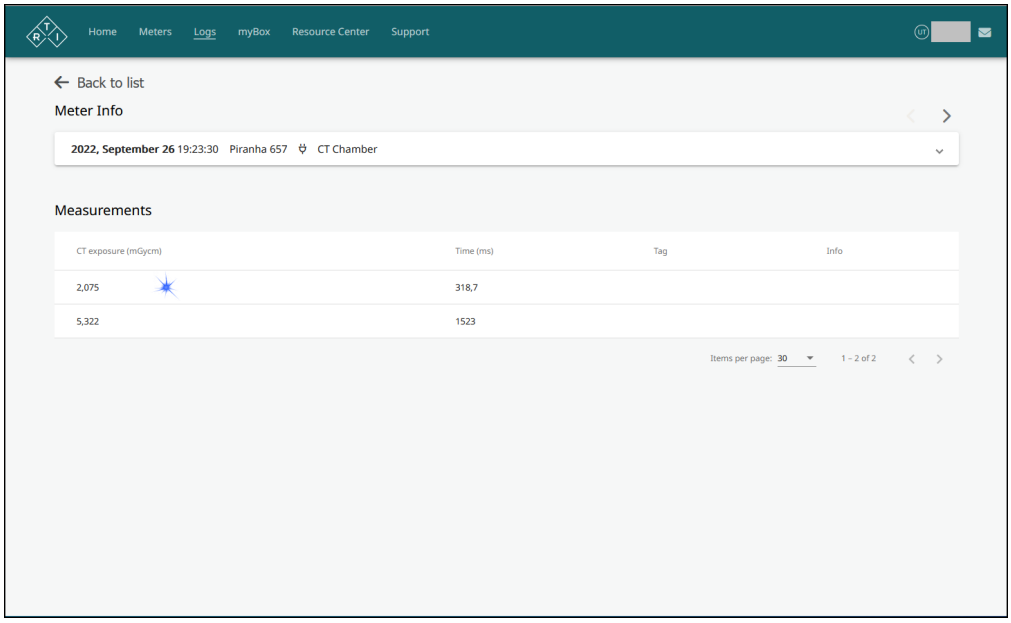
In this section of myRTI you can find all exposures you have done with your meters and probes from RTI. The content here is automatically registered when you use meters and probes with and Ocean Next synchronizes with myRTI. Click on **Logs**.



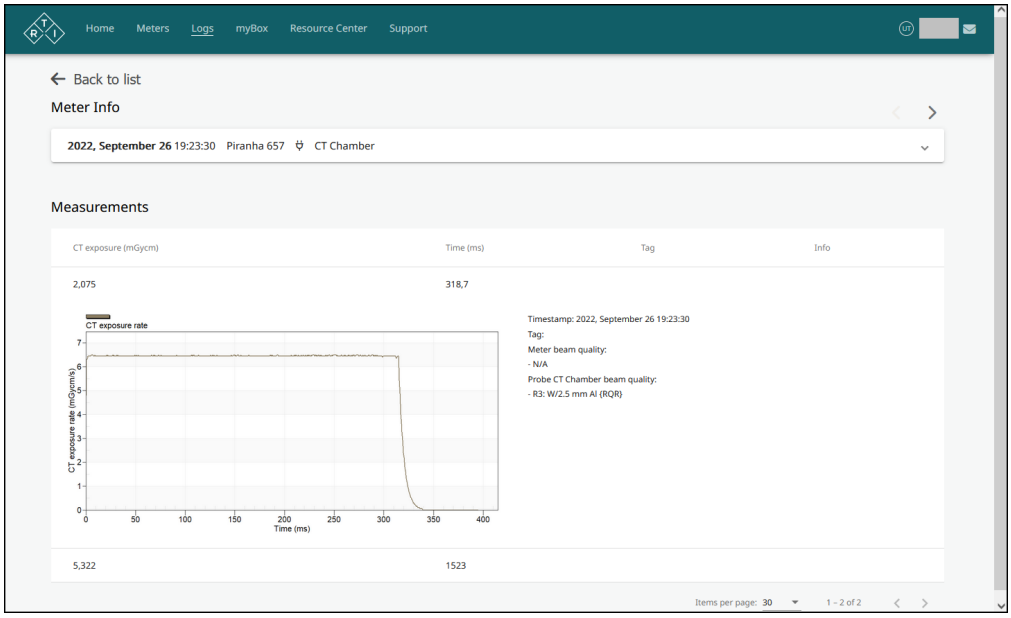
The list shows different dates/times when you performed measurements and meter/probe you used. A new item in this list is created each time you:

- Start a Quick Check.
- Start a new page in a Ocean Next session
- Each time you change probe or modifies the Ocean Next session in some way

You cab click a an item in the list to see the individual exposures:



The individual exposures are listed. To see more details you can click on a specific exposure:



You can see details from selected exposure:

- Measured values and waveforms.
- Used meter and probe calibrations.

Resource Center and Support

Here you can find help and support that increases your efficiency when you work with Ocean Next, RTI meters and probes.

3.2 myBox Overview

myBox is a Web Storage service for Ocean Next. Your entire Ocean Next database is automatically backed up in the cloud. myBox gives you the following features:

Automatic backup of your Ocean Next database. If you ever would lose your computer or it breaks down, you will be quickly up and running with another computer and have direct access to your data.

Share your measured data and templates directly from Ocean Next with your colleagues. Forget export to files and e-mails. Your colleagues will get the data you share directly in Ocean Next and can directly use it. If you update something you have shared, it will automatically be updated for your collaugues.

Run Ocean Next from multiple computers and use one synchronized database. What you do on one of your computers is directly available on your other computer(s). No need to shuffle around data manually between your computers.

You must have a subscription or a trial before you can activate and use myBox. If you don't have a subscription you need to get one and activate myBox before you can continue. Read more aboyt this in the topic Activation of myBox.

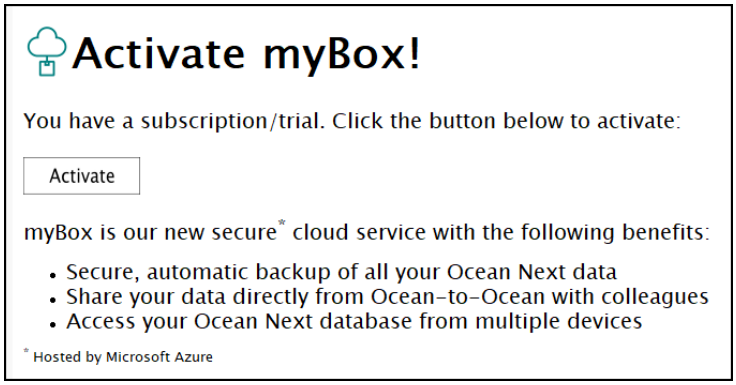
3.2.1 Activation of myBox

You must have a subscription or a trial before you can activate and use myBox. Visit https://myrti.rtigroup.com to get a subscription or trial. You can activate more than one computer using the same myRTI account with Ocean Next to your myBox. When you do this, all your computers will get the same Ocean Next database. If you have been using Ocean 2014 and/or Ocean Next before with more than one computer you may have your data you want to keep "spread out" on more than one computer. In this case, you may want to reorganize your data and create a "mater database" before you activate myBox.

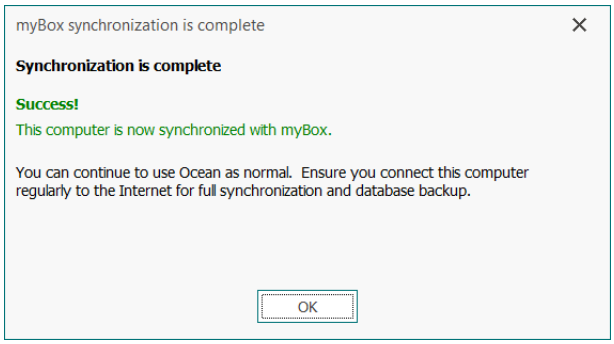
How to use the various myBox functions in Ocean Next is described in the topic How to use myBox.

Activation of myBox on the first computer

1. Make sure that your computer has internet access and start Ocean Next.
2. Click on **myBox** on the Backstage File menu.
3. If you have a subscription you will see the following:

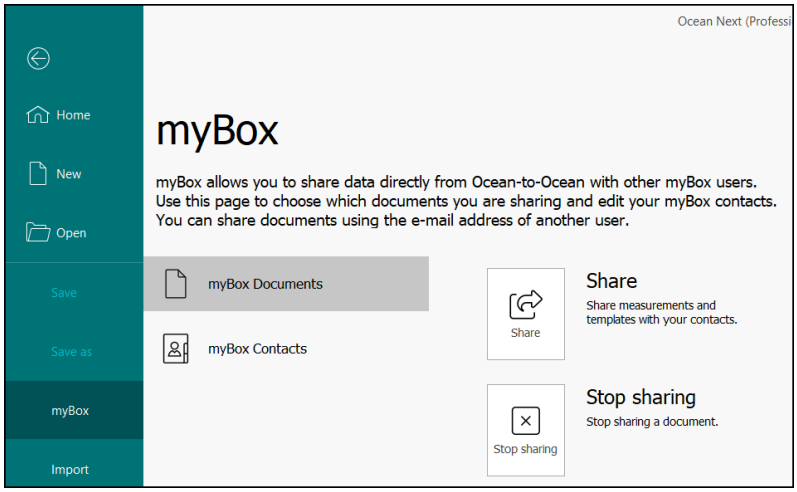


4. Click on the **Activate** button (you can also activate from the Account page, the process is similar to what is described here).
5. A dialogue will be shown. At the top you find information information about the subscription. Read the text and click **Continue**.
6. A new dialogue is shown, read the message and click **Continue**.
7. The last dialogue is shown where you click **Continue** to start the activation process, or click **Abort** if you for some reason don't want to upload your database to the cloud.
8. If you clicked on Continue, the activation process now starts. You will a progress bar, the time it takes finish depends on the database size.
9. When the process is completed a dialogue is shown:



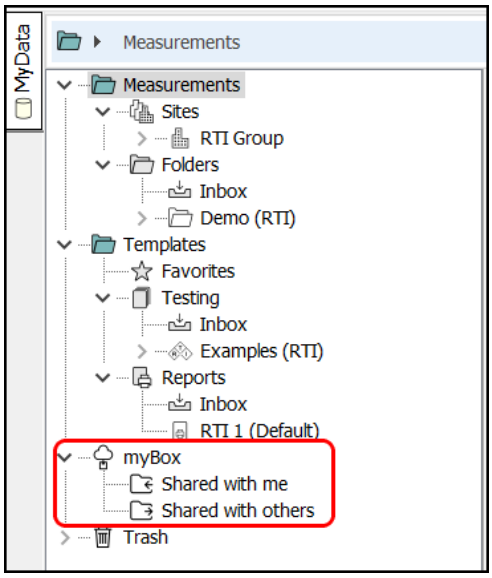
   Click on **OK** to finish.

10. You will now see that the myBox Backstage page now shows the following:



The different functions are described in the topic myBox.

11. You can also see that two new folders has been added to the database tree:



myBox is now activated and your local Ocean Next database will now continuously be synchronized with myBox as soon as your computer has internet access. You can now start to directly from Ocean Next share data with other colleagues that also has myBox. Read more in the topic myBox.

You can also go to the myRTI web page and select **myBox** from the main menu:

Activation of myBox on the 2nd, 3rd, ... computer

If you already has one computer activated with myBox, the following computers you activate will get the same database as you have on the first one. This means that, when activating a computer after the first one, it's database will be erased. Before that occur a local backup copy will be created.

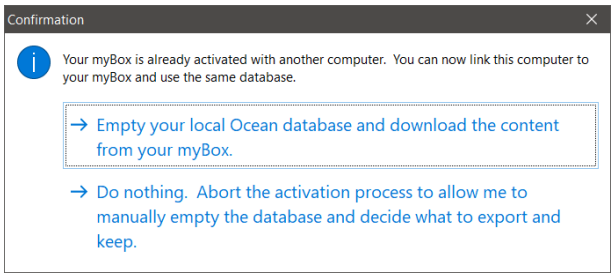
1. If you have content on this computer you want to add to your myBox: Export content (sessions and templates). Use the **Export** function and export to file(s).

2. Make sure that your computer has internet access and start Ocean Next.

3. Click on **myBox** on the Backstage File menu and click on the **Activate** button

4. A dialogue will be shown. At the top you find information information about the subscription. Read the text and click **Continue**.

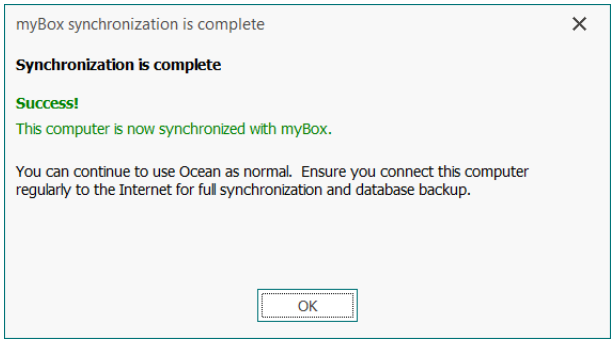
5. A new dialogue is shown:



6. As described earlier, the local database will now be erased. A backup copy will be created in Ocean Next's Data folder that you find here*C:|Users|your username|AppData|Local|RTI Group|Ocean Next|ProgramData.* The filename will be "DataBackupBeforeCleaningForMyBoxSync_Date_Time".

7. Select "Empty your local ....", the activation process starts and a progress bar is shown.

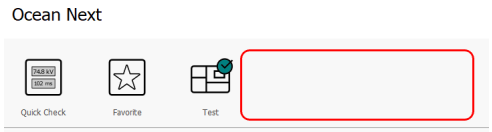
8. When the process is completed a dialogue is shown:



   click on **OK** to finish.

9. Import any content you exported if you did that istep #1.

10. If you are using any customized templates that are provided by a special installer, and accessed via button(s) in the area shown in the picture below:



    These templates must then be installed manually with that installer on the new computer.

myBox is now activated and your local Ocean Next database will now continuously be synchronized with myBox as soon as your computer has internet access. You can now start to directly from Ocean Next share data with other colleagues that also has myBox. Read more in the topic myBox.

3.2.2 How to use myBox

It is recommended that you make sure that the computer you use for Ocean Next has internet access as often as possible to ensure optimal function for myBox and ensure continuous backup of your data. If you use more than one computer with your myBox this even more important to avoid conflicting copies.

Automatic Backup

Your local database is automatically backed up in the background. Approximately every third minute, the database is synchronized with the cloud as soon as your computer has internet access, you don't even need to start Ocean Next. This means that you have backup in the cloud of your database in case you loose your computer or it breaks down. The backup will help you to quickly get up and running without loss of data using a another computer. Read topic How to restore your data if you have lost the computer to learn more.

Sharing of Measured Data and Templates

Sharing with others:

You can share measured data and templates with others and they can share with you as long as they also have myBox. Documents you share with others will be updated in the recipients' "Shared with me" folders if you update a document on your computer. Recipients will be notified.

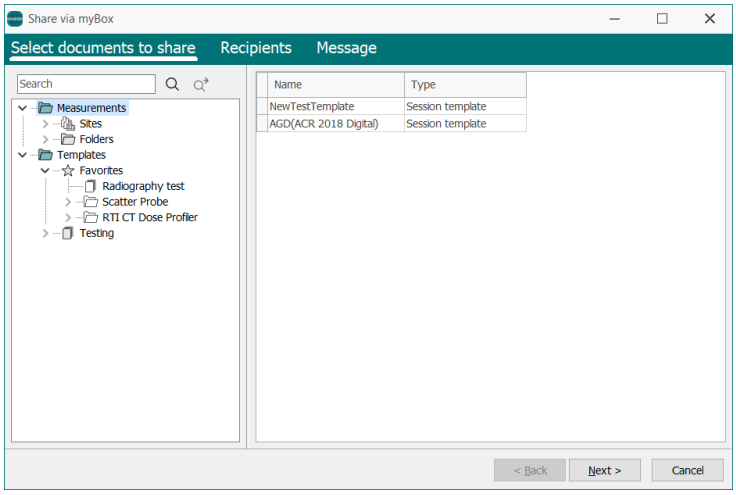
To share with somebody else:

1. You can select what you want to share in three different ways:
   - Go to the Backstage, select myRTI and click on Share, go to step #4.
   - Locate the content you want to share in the database tree, go to step #2.
   - You can also share from the myBox page if you visit the myRTI web page. Not described here.

2. Go to the Test (or Studio) View and click on the **myData** tab on the left side if the database tree isn't visible.

3. Locate and select (multi-select is possible) the content you want to share and right-click on it. From the menu select "Share via myBox...".

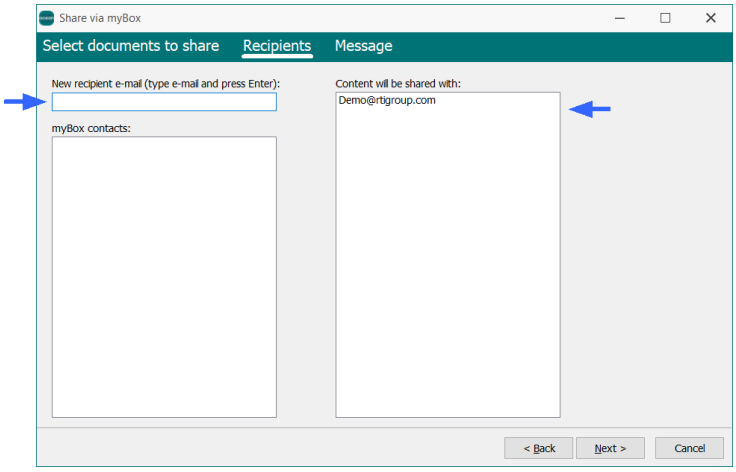
4. The "Share via myBox" wizard is open and the content you selected is preselected and shown on the right side in the wizard:



   You can add more content by selecting items on the left side and use drag-n-drop or double-click to move them to the right side. You can also, on the left side, right-click on folders and rooms and from the menu select "Select all" to move multiple items to the right side. You can use the **Delete** key on the keyboard to delete items from the right side.

5. Click on **Next** when you have selected the items you want to share.

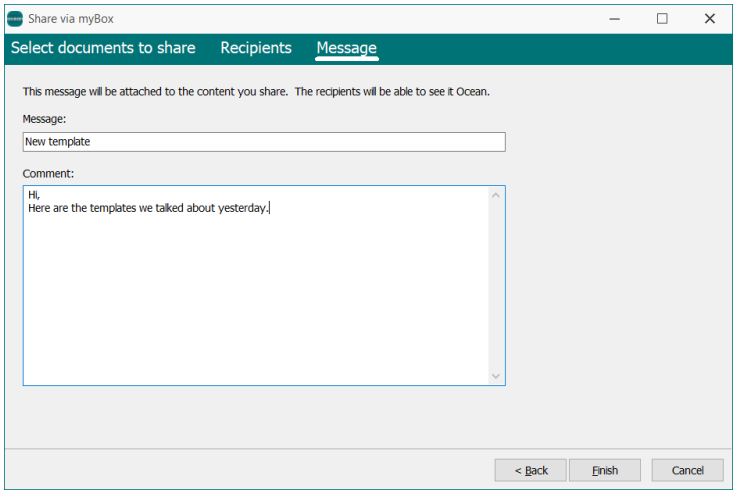
6. In the next step shall the recipients be specified:



Type the e-mail of the recipient in the upper left field one by one and press Enter. Each address is added to the "send list" on the right side. If the contact already exits under "myBox contacts, you can just double-click on the e-mail address. Add more if you want to share with more than one person. If you previously has shared something with somebody, their e-mail address will be remembered and shown in the list under "myBox contacts" and you can just double-click to add them to the "send list".

7. Click on **Next** when you have added all recipients.

8. In the next step you have the possibility to add a message to the recipients:



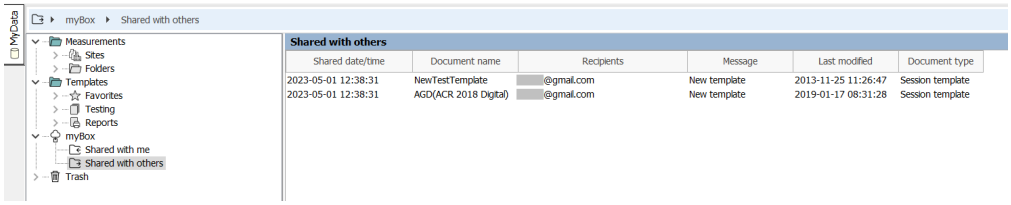
You must type something in the "Message" field, the "Comment" field is optional.

9. Click **Finish** to send away the content to your colleagues.

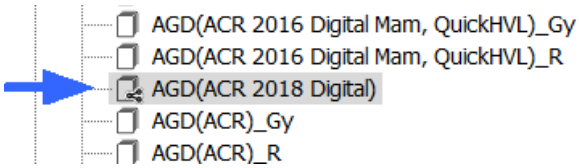
Your colleagues will get a notification in Ocean Next that you have shared something with them, and the content will appear in their "Shared with me" folder and they can use it directly. If someone that you have shared something with, doesn't have myBox, they will receive an e-mail telling them that you have tried to share something with them and how they can access it by getting myBox.

When you share something for the first time with somebody that has myBox will also get an e-mail and a message in Ocean saying that you want to share something. They can accept or deny shared content from you. If they deny, you will be blocked from further sharing with that person until they "unblock" you. In any case, you will always, when you share for the first time with somebody, get a message back informing you if they accepted or denied what you shared. You can read more about where you find your messages in the topic Backstage View.

The content you have shared with others will be shown in the folder "Shared with others":



It is indicated in the database tree if a document is shared:



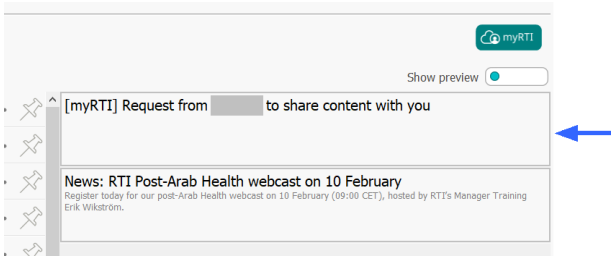
Other sharing with me:

Other persons can share measured data and templates with you if they have myBox.

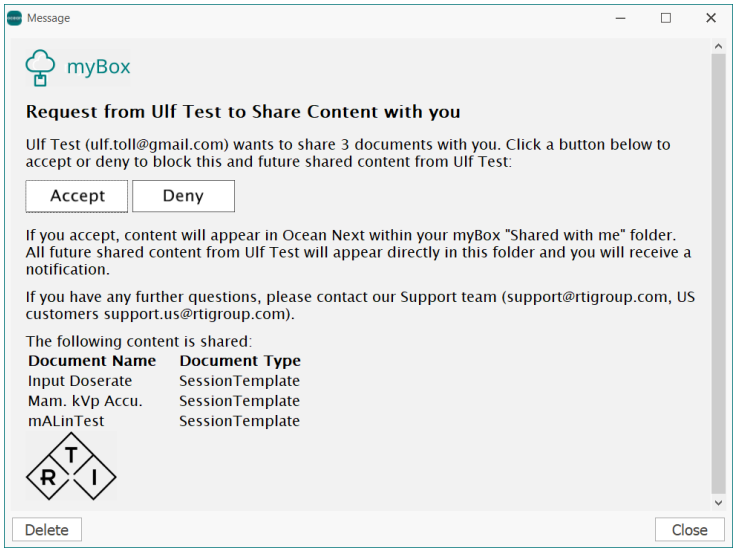
1. When somebody shares something with me for the first time you get a message, one in Ocean Next and one e-mail. You can accept to receive it in two ways:

   - Open the e-mail and accept it.
   - Open the message you get in Ocean Next and accept it.

2. When somebody shares something for the first time, the message appears on the Backstage Home page:

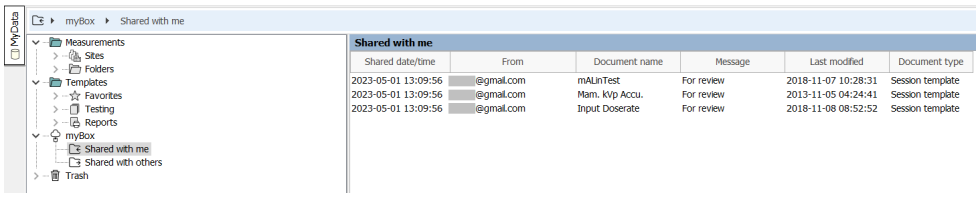


Click on the message to open it (you can also go to the Message Inbox and open it there).



Click on **Accept**.

3. The items you accepted will now be shown in the "Shared with me" folder:



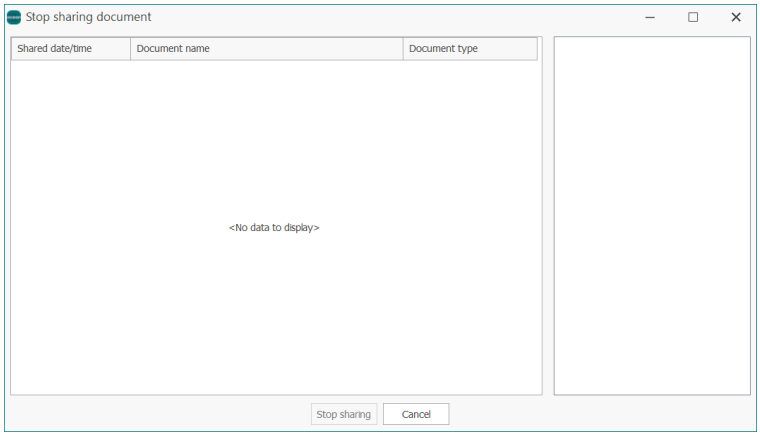
4. You can do the following with the content in the "Shared with me" folder:

   - You can use drag-n-drop to copy an item from the "Shared with me" folder to an other place in the database.
   - You can right-click on an item and select "Preview/Print", "New measurement", "Open" or "Delete".

If the person that shared something with you updates an item that is shared with you, the copy you have in this folder will also be updated. You will receive message and the "Last modified date" will change.

Stop sharing

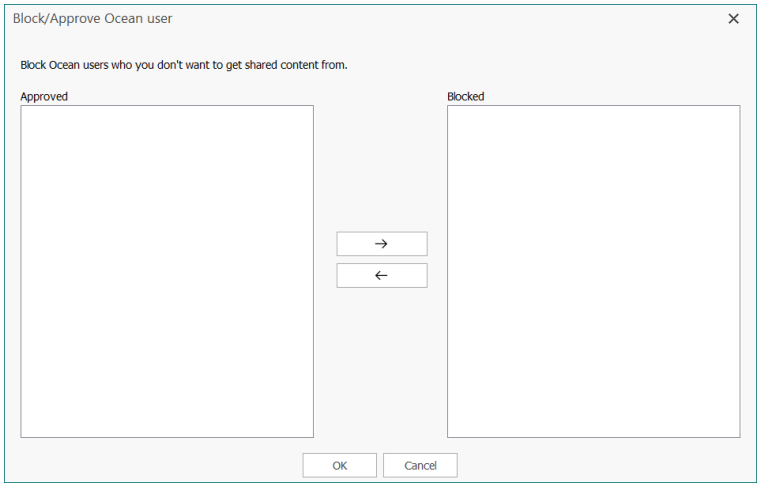
Here you can stop sharing documents that you earlier have shared with others:



The documents you have shared will be shown to the left. If you select a document, the recipient(s) will be listed to the right. Select the names you want to stop sharing with.

Block/Approve

Here you can block and approve contacts from sharing documents with you:



Contacts that has shared something with you will appear on the left side and contacts you have denied at the first request or contacts that you have blocked appear on the right side. You can select a contact and move it from Approved to Blocked or vice verse.

3.2.3 Conflicting copies

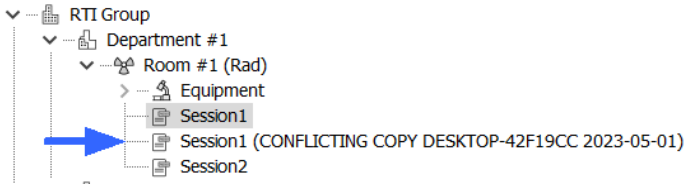
If you have more than one computer connected to the same myBox the databases all your computers will be synchronized with myBox and you will see the same content on all of them. This means that you don't need to manually export and import data from one computer to another if you use more than one computer. Of course, this require that all your computers as often as possible has internet access to allow data to be synchronized. This is important to avoid conflicting copies. The most common conflict that can occur is the following:

- Assume you have two computers.
- You use Ocean Next on both without internet access.
- You modify the same document (session or a template) on both computers.
- When the first computer has internet access the document is synchronized to the cloud.
- When the second computer gets it, and it tries to synchronize the same document, a conflict occur.
- Nothing will be overwritten, instead are both documents kept. The document that couldn't be synchronized is renamed and after that synchronized.

  To it's original document name is information added:

  c'onflict type" c'omputer name" d'ate "

  It can look like this when a conflict occur with a session called "Session1":



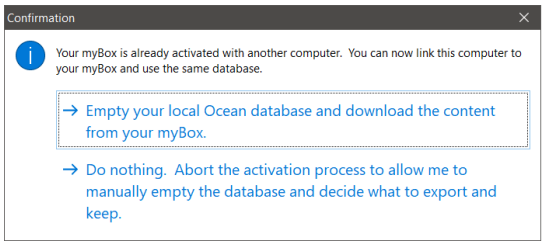
  Conflict type: CONFLICTING COPY
  Computer name: DESKTOP-42F19CC
  Date: 2023-05-01

You must manually, if necessary merge data, to solve the conflict.

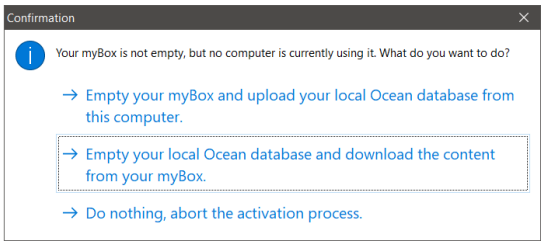
3.2.4 How to restore your data if you have lost your computer

If you have lost your computer or just want to replace it with a new one; do the following:

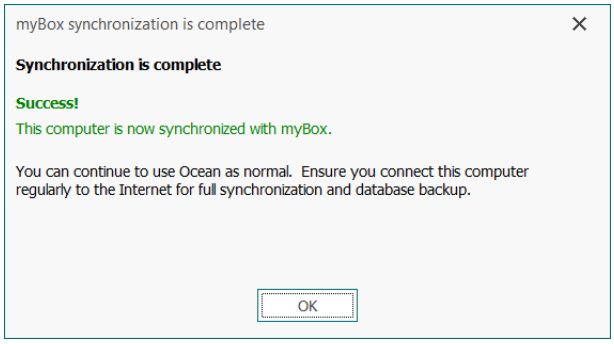
1. It is recommended that you deactivate a computer you have lost a computer or your for some reason don't want to continue to use. You can deactivate in two different ways:
   - If you have access to the computer: go to the Account page in Ocean Next, click on Tools and select "Deactivate myBox". You can read more about deactivation in the topic Account.
   - If you have lost the computer or if you can't start Ocean Next: go to the myRTI web page, click on your name in the upper right corner and select **Services and Devices**, find the myBox section and the computer you want to deactivate and click on the **Deactivate** button.
2. Start up your new computer and install Ocean Next.
3. Activate Ocean Next with myRTI by signing in when you start Ocean Next for the first time.
4. After Ocean Next is activated, go to the myBox page in the Backstage and click on the **Activate** button.
5. You will see one of these dialogues:



Or

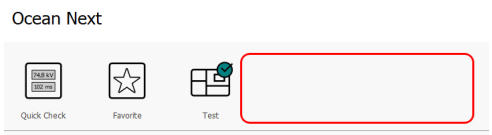


6. In both cases select "Empty your local database and download the content from your myBox".
7. When the process is completed a dialogue is shown:



   Click on **OK** to finish.

8. If you are using any customized templates that are provided by a special installer, and accessed via button(s) in the area shown in the picture below:



9. These templates must then be installed manually with that installer on the new computer.

Your are now set up to continue your work with the new computer.

3.2.5 How to activate Ocean Next with a different user name

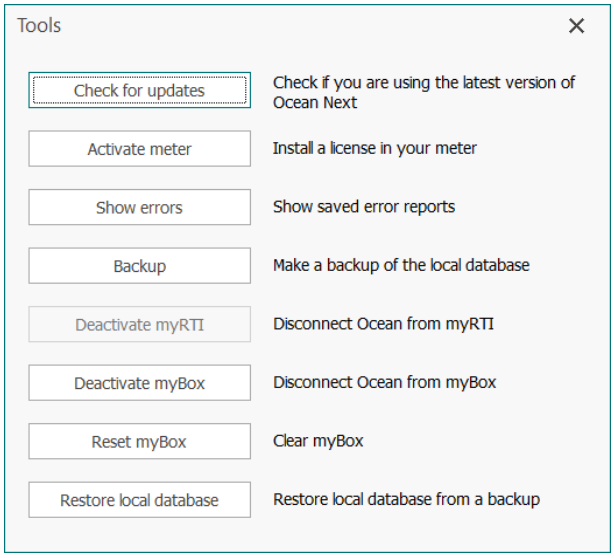
In case you would need to change the user name (e-mail address), activate myRTI with a different myRTI account, you need to do the following steps:

- Deactivate myBox if you have this service.
- Deactivate myRTI.
- Sign in with the new user name (e-mail address).

Switch user with access to the existing account

1. Start Ocean Next and sign in with the existing account. If you don't know the sign in credentials, skip this and start without signing in.

2. Go to the Account page on the Backstage and click on the Tools button. The Tools dialogue is shown:



3. If the **Deactivate myBox** button is enabled, click on it and confirm. Ocean Next is now "disconnected" from the myBox service.

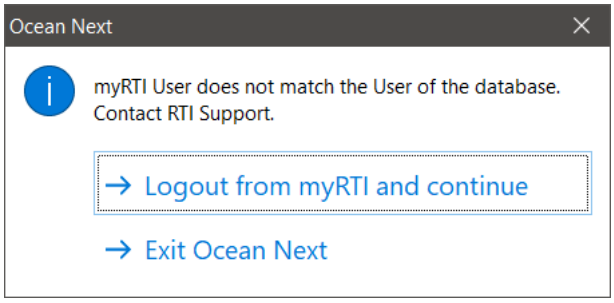
4. Go back to the Tools dialogue and click on the **Deactivate myRTI** button and confirm.

5. Ocean Next closes and is now "disconnected" from the old myRTI account and Ocean Next is quit.

6. If you want to use a different database with the new user, you can now use the **Restore local database** button on the "Tools" dialogue. If you want to import a database from Ocean 2014, read the topic Update from Ocean 2014 to Ocean Next to see how you can do this. If you want to change database it must be done before you activate with the new myRTI account.

7. Restart Ocean Next and sign in with the new myRTI account.

8. If you don't get this message, continue to step #13.



9. Select **Logout from myRTI and continue**.

10. When Ocean starts click on the **Account** button on the Home page.

11. Select **Tools** and click on **Deactivate myRTI,** Ocean Next quits.

12. Restart Ocean Next and Sign in again with the new user name (e-mail address).

13. Ocean Next is now "connected" to the new myRTI account. Activate also myBox if you have one with the new account.

Ocean Next is now setup for the new user.

3.2.6 Renewal and expiry of myBox

When the myBox subscription is about to expire, you will get a warning in Ocean Next. The first warning will come when 60 days remain and after that several more warnings will come the close to the end data you are. You will also receive e-mail reminders. Visit the myRTI web page to renew your subscription or contact your local representative.

If you don't extend and your subscription expires, you can not any longer use your myBox. However, it will remain in Ocean Next but you can't use it. Data will be buffered and if you renew your subscription within 60 days, your myBox will continue to work and your buffered data will be backed up in the cloud and all myBox functions will be available again.

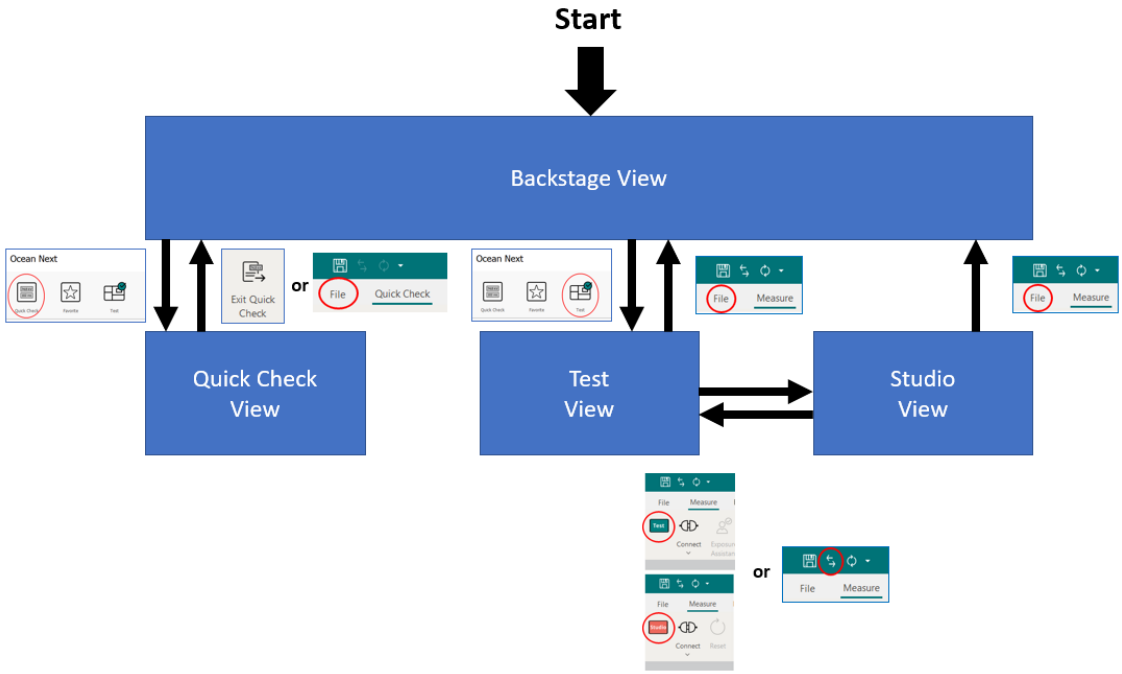
If you don't renew within 60 days after expiry, your myBox will be canceled and you can't access it any longer or the data you had in the cloud. **Note**: It doesn't affect your local data in any way, you will not lose any data that are present on your computer.

Chapter 4

Workflow with Ocean Next

4 Workflow with Ocean Next

When you start Ocean Next you will see the Backstage View. The picture below describes how to navigate between the different views:



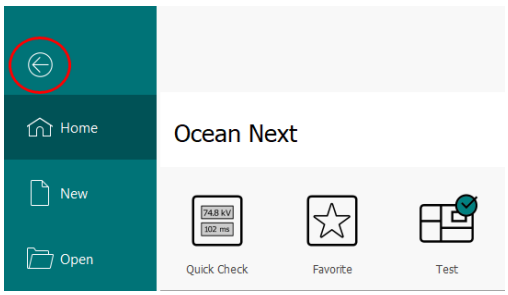
From the Backstage View you can access Quick Check and Test views:

- Go to Quick Check bu clicking the **Quick Check** button on the Home page.
- Go to Test view by clicking on the **Test** button on the Home page.

You can easily toggle between Test and Studio Views in the following ways:

- Click on the "double arrow" button on the Application bar.
- Click on the **Test** and **Studio** button, respectively.

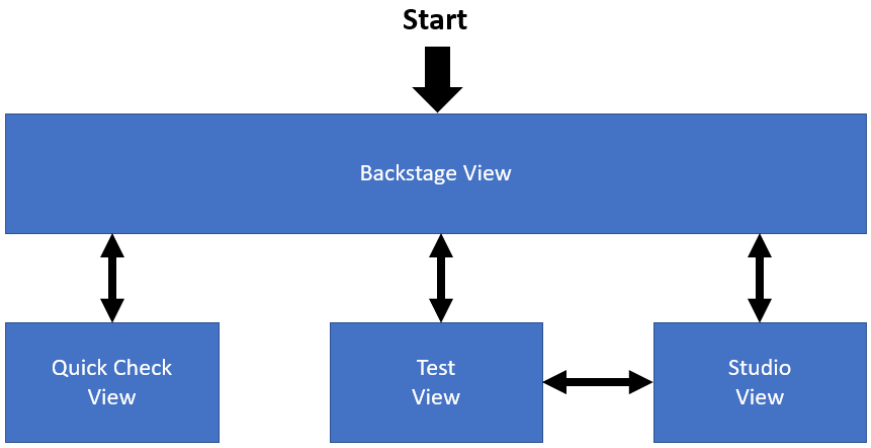
From the Quick Check, Test and Studio Views you can return to the Backstage by clicking on the File tab. When you do this, any Sessions or Session Templates open, will stay open. To go back to the view your came from, click the **Back** button:



The two following topics will describe the workflow when doing a measurement in the Quick Check View and in the Test View.

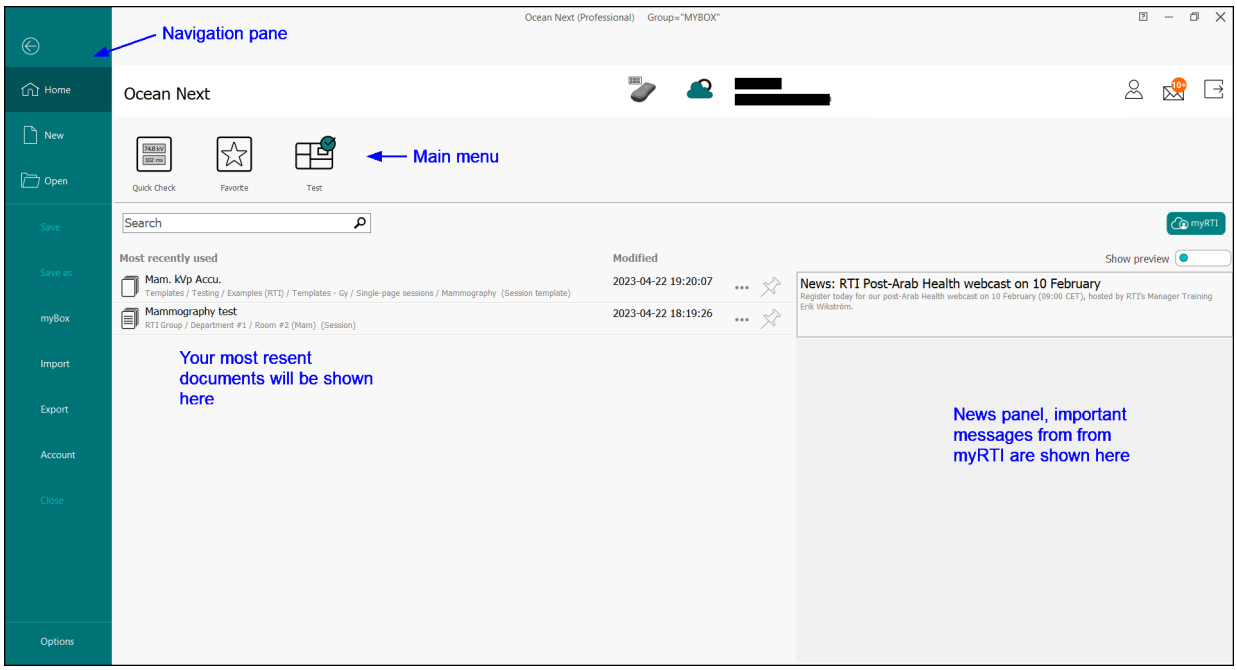
4.1 Ocean Next Overview

When you start Ocean Next, you can see the Ocean Next Backstage view. From the Backstage you can access the Quick Check, Test and the Studio view:



Backstage View

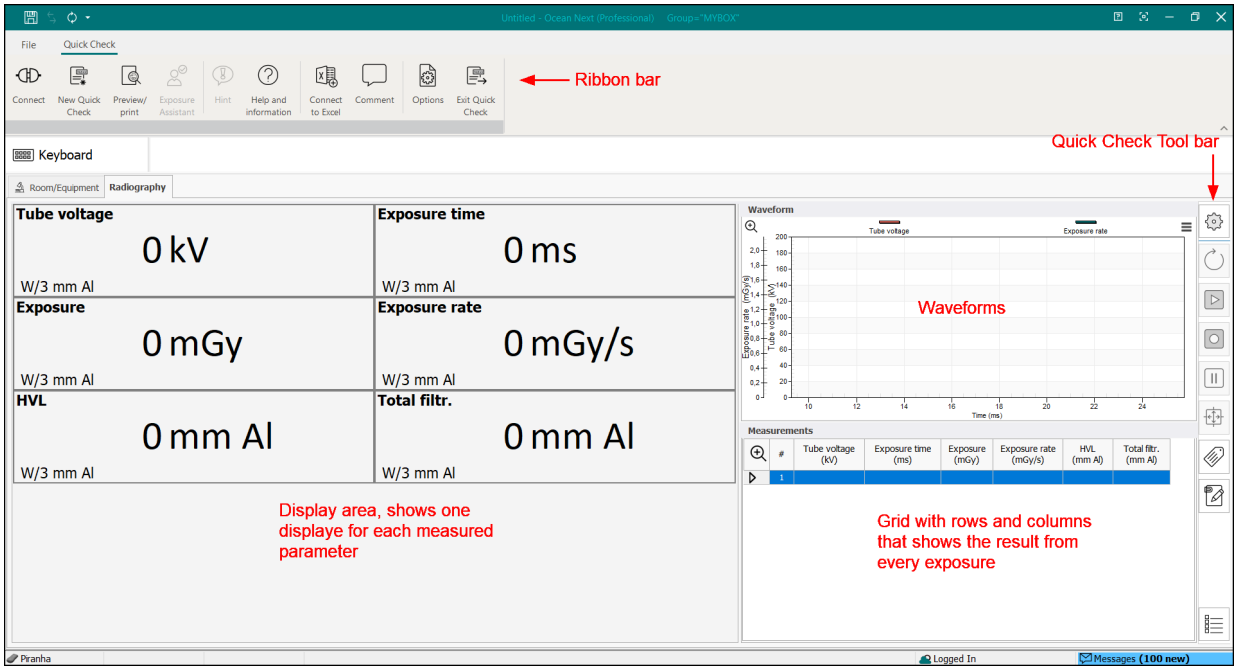
When you start Ocean Next, or after you click the **File** tab, you can see the Ocean Next Backstage view. If you need to create start a new measurement, create a new template, open an existing measurement or template, print, save, change options or more, Backstage is the place to do it. In short, it is everything that you do to a document that you don't do in the document.



You can read more in the topic Backstage View.

Quick Check View

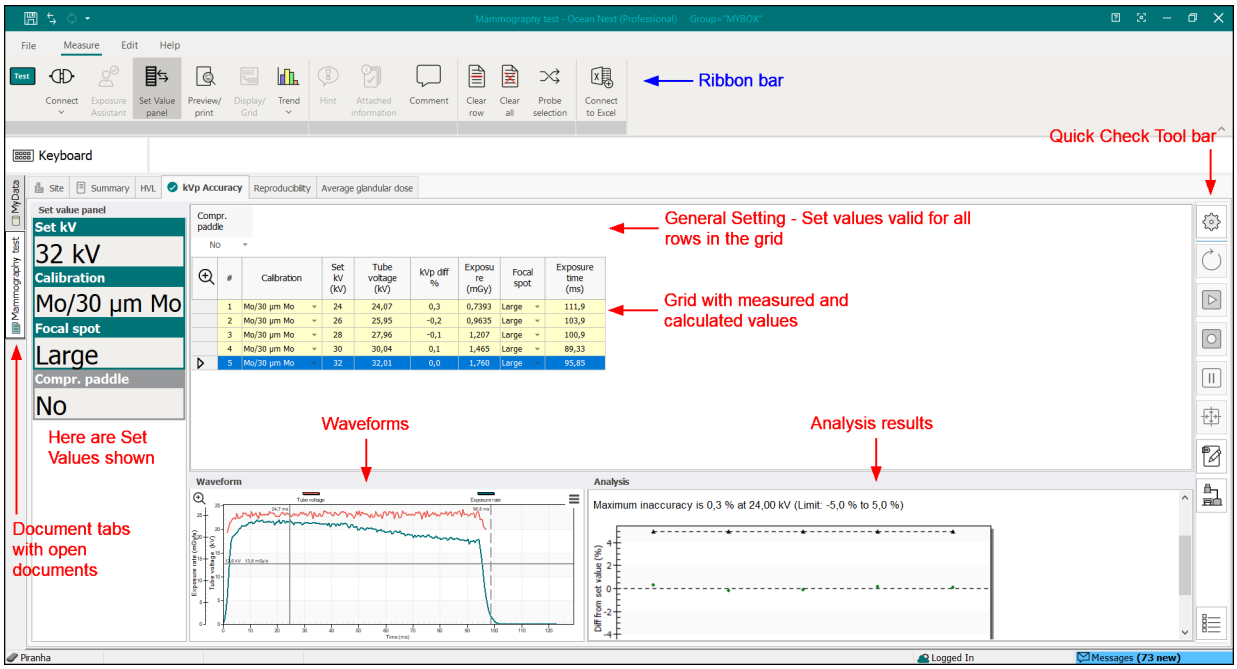
Quick Check is the display for your meter when you just need to make a quick measurement. Quick Check uses plug-and-play and adapts to the meter you use and the probe(s) you have connected.



You can read more in the topic Quick Check View but it is recommended that you continue to read the manual even if you have used Ocean 2014 before.

Test View

The Test View is the place to do measurements when you use your session templates (you must have license level ADVANTAGE or PROFESSIONAL). You can from the Test view use your various session templates to do all type of measurements, see measured data, waveforms, analysis results, save your data and print reports. You can also control your meters and probes to ensure that they are used in the most optimal way. The Test View uses a fixed screen layout to show all required information. The screen layout adapts to different screen resolutions and height/width ratios.



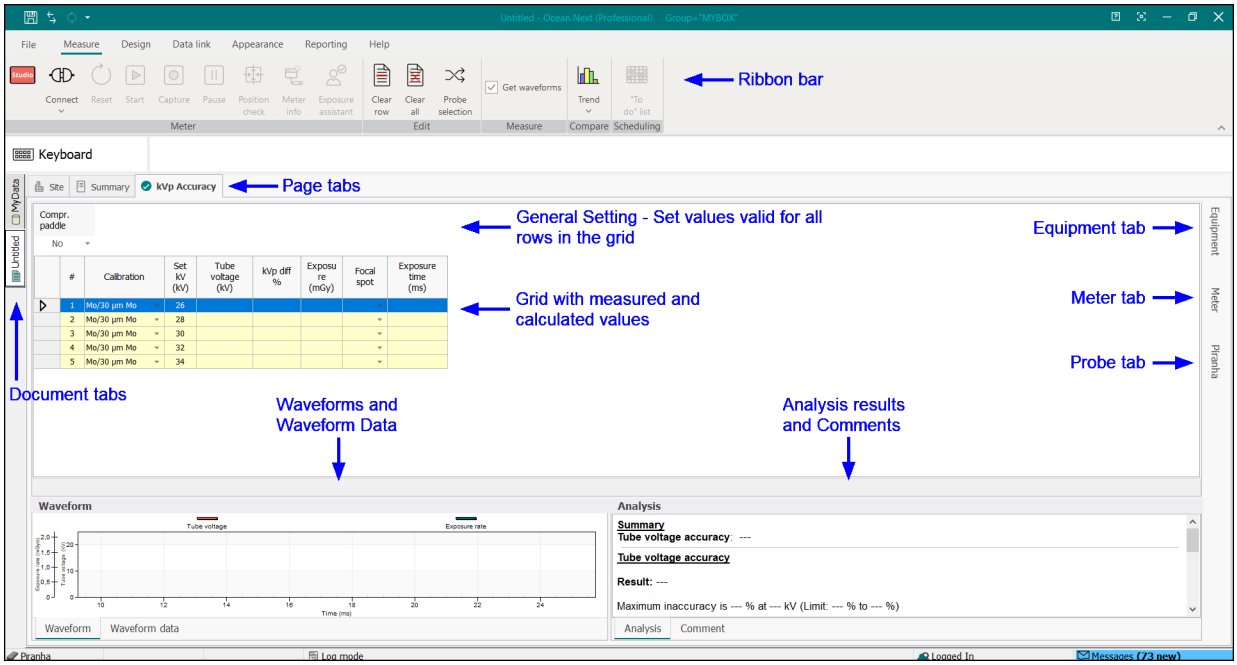
You can read more in the topic Test View. If you have used Ocean 2014 before we recommend that you continue and read at least the topics myRTI Overview, myBox Overview, Workflow with Ocean Next, Backstage View and Test View.

You are probably familiar with the Studio View since this is the same as the main view in Ocean 2014.

Studio View

The Studio View is mainly used to create and design your templates according to you requirements, meters and probes you use. A session template defines all exposures included in a session, analysis and meter settings. The template allows you to quickly collect, analyze and store your measurements.

The Studio View is the same as the main view from Ocean 2014. It is also possible, as in Ocean 2014, to do all type of measurements in the Studio View if you prefer the old Ocean 2014 work flow.



You can read more in the topic Studio View but it is recommended that you continue to read the manual even if you have used Ocean 2014 before.

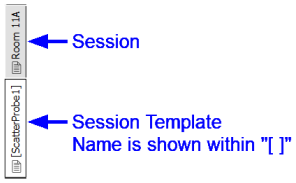
Different type of documents

All information that Ocean Next uses is stored in a local database. The database can be synchronized and also stored in the cloud if you are using myRTI and the cloud service myBox. The different document types are:

Session This is a document with measured data and results.

Session Template This is document that has no measured data, it only describes the measuring procedure. It contain set values, analysis, meter settings, report setting, etc. Session templates be created and stored and re-used every time you want to perform a specific measurement.

When you open a Session or a Session template in the Test or Studio View, the document name (the name shown in the database tree) is shown on a Document tab on the left side. Sessions and Session Templates are show differently:



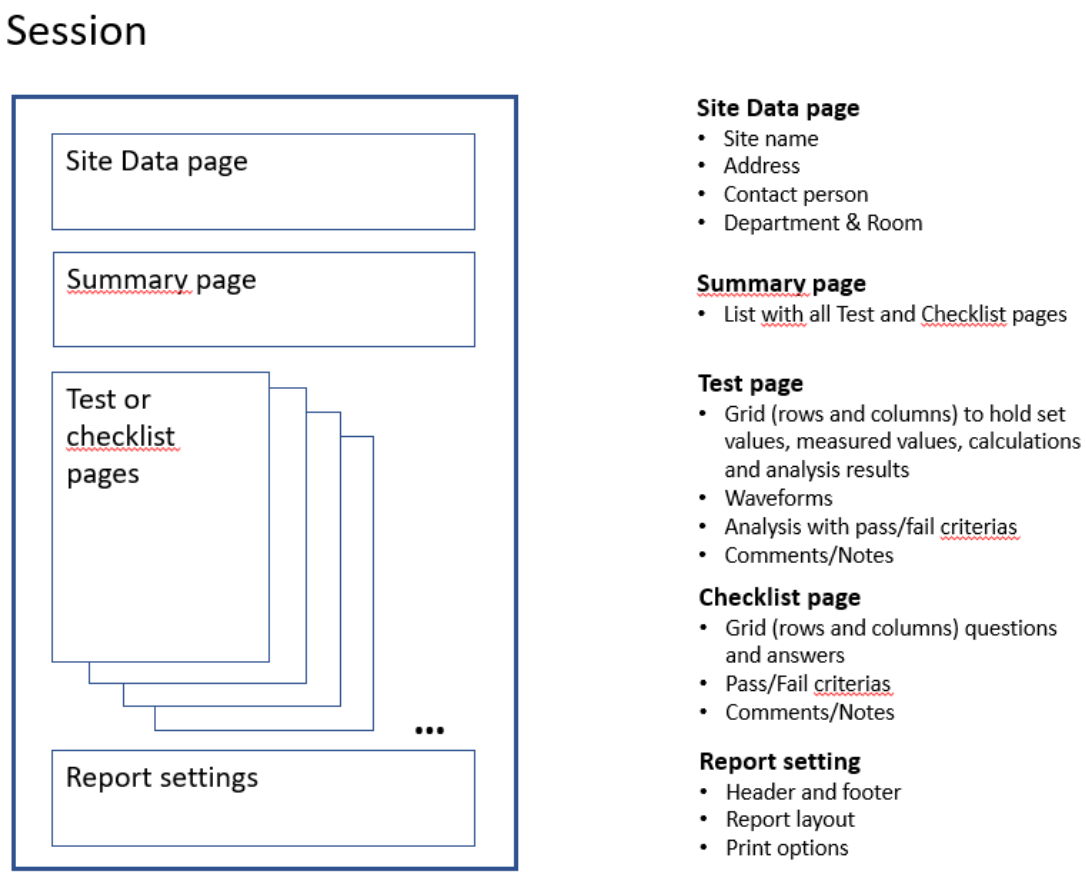
Report templates are also shown in the tree but are only "files" that contains settings for the report, for example printer settings, header/footer, etc. A report template can be added to a Session template to ensure that when it is used for a work, the printed result or created PDF file gets the format you want.

Document structure

Sessions and Session Templates have the same structure. A Session Template is a description of a specific measurement. The settings for the report are included in a Session and Session Template can be stored in a separate Report Template. The Report Template can be added to any Session and Session Template. In this way can settings for printing and PDF creation easily be reused in different Session Templates.

The benefit of setting up Session Templates for different tasks you perform is that when you do the measurement all is predefined, all you have to do is to connect the meter and start measurement by using a template for the work you intend to do. Just set the x-ray generator according to the set value shown for the specific test and make the exposure, Ocean Next will follow the template and collect required data and perform calculations as defined by the template. When you are ready you can review the report to make sure that all looks good before you leave the room. You also know that you have followed the correct procedure since that was defined in your template.

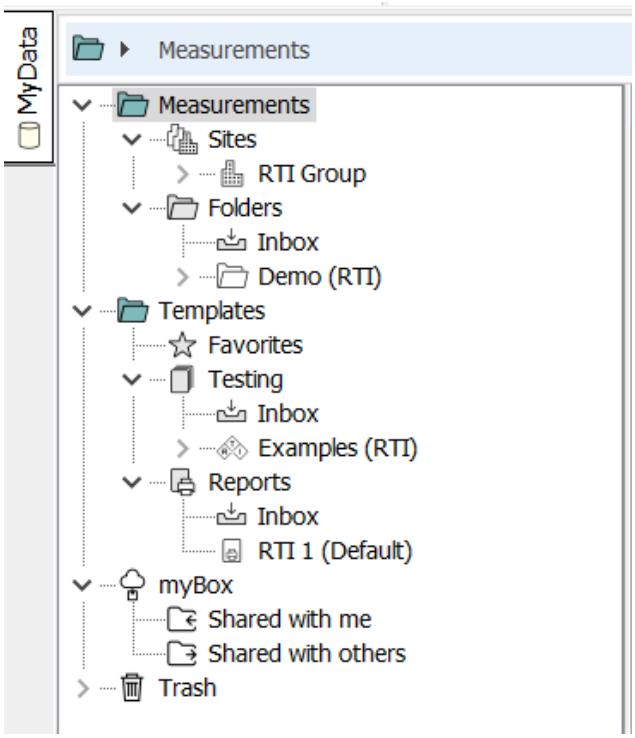
The picture below shows the structure for a Session (and a Session Template):



You are limited to Sessions with only one Test or Checklist page if you have license level ADVANTAGE, you must have PROFESSIONAL to be able to use Sessions with more than one Test or Checklist included.

Database Structure and Storage of Documents

The database structured as tree as show in the picture below:



Measurements - storage of measured data
- Sites: Predefined structure where you can define your facilities, departments, rooms and equipment. You can store Session in the room folders.
- Folders: You can here create sub-folders and store Sessions.
  - Inbox: If Sessions are imported via a file they arrive here.

Templates - storage of templates
- Favorites: Session templates stored here can easily be accessed via the Favorite button on the Backstage Home page.
- Testing: Storage for your Session Templates. Sub folder can be created to organize the templates.
  - Inbox: If Session Templates are imported via a file they arrive here.
  - Examples (RTI): Session Template examples that comes with Ocean Next.
- Reports: Storage of your Report Templates.
  - Inbox: If Report Templates are imported via a file they arrive here.

myBox - storage of shared Sessions and Session Templates
- Shared with me: Here are all Sessions and Session Templates shown that other users has shared with you.
- Shared with others: Here are all Sessions and Session Templates shown that you have shared with other users.

Trash
- Here you find entities that you have deleted.

License levels

The license level is stored in the meter you connect. This means that, if you have more than one meter and they have different license levels, Ocean Next will adapt to this when you connect to e meter and you will only have access to functionality according to current license level. This can be problematic and it is recommended that you have the same Ocean license for all your meters you use regularly.

There are three different levels for Ocean Next that gives you different levels of functionality. There is a forth one called ADAPTIVE that is only used for the RTI Scatter Probe.

QUICK

With QUICK you get access to Quick Check. Quick Check is optimized for ease of use and suitable when you just need to do some quick measurements. It simply adapts to the meter and probes you connect (plug-and-play) and loads a pre-defined setup. Data can be stored and printed.

- Only Quick Check can be used for measurements.
- Predefined setup for different type of measurements.
- Measurements can be saved.
- Printout of a standard report, you can customize header and footer.
- Basic Excel connection.

ADVANTAGE
ADVANTAGE allows you to design your own single-page measuring Session Templates for collection measured data with waveforms and analysis. You can save your templates and measurements. You can connect your templates with Excel and automatically fill in your spreadsheets with measured data.

- All functions available for QUICK.
- Access to Test and Studio View.
- User-defined templates, single-page sessions.
- Full analysis with user-defined pass/fail criteria.
- Print-out of a user-defined reports.
- Full Excel connection.

PROFESSIONAL
PROFESSIONAL allows you to design and use multi-page Session Templates and provides a predefined Site database for storage of your measured data.

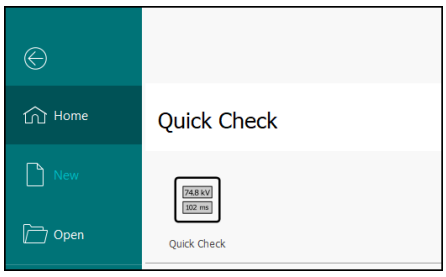
- All functions available in QUICK and ADVANTAGE.
- Site database for storage of measurements.
- Multi-page Sessions.
- Trend analysis.

ADAPTIVE
This is used only for RTI Scatter Probe. When the RTI Scatter probe is connected, the current license level is kept.

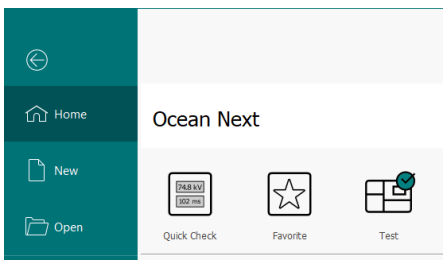
Contact RTI Group or any if the representatives if you want to upgrade to a higher license level.

Start of Ocean Next with different license levels

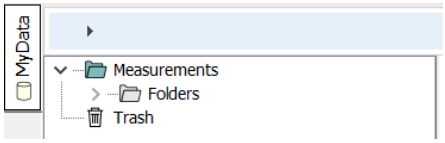
When you start Ocean Next, it will look slightly different depending on the license level you have. With QUICK only Quick Check is available:



With **ADVANTAGE** and **PROFESSIONAL** bot Favorites and the Test View are available:

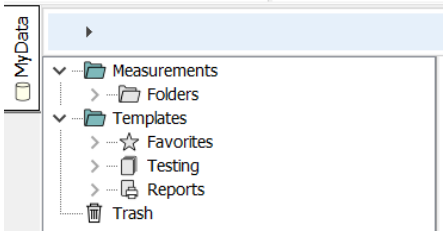


Also the database tree looks different and different parts are available depending on the license level. With **QUICK** the following parts are available:



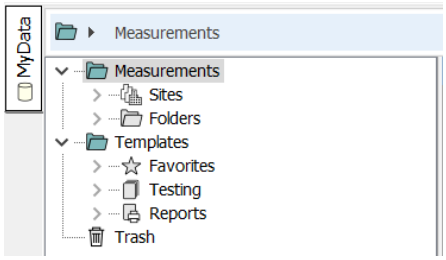
With Quick Check the only available part is Folders where Quick Check measurements can be saved.

With **ADVANTAGE** the following parts are available:



ADVANTAGE allows you to design and use single-page Session Templates. These templates are saved in the folder Testing. Measurements are saved in Folders. You can also add your own favorites to the **Favorite** button by adding session templates to the Favorites folder.

With **PROFESSIONAL** the following parts are available:



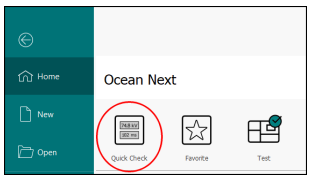
PROFESSIONAL also makes it possible to store your measurements (including those with Quick Check) in a predefined Site structure, where you define your sites (name, departments, rooms) and the equipment you are testing (generators, tubes, etc..

4.2 Quick Check Workflow

This topic is describing the main workflow with Quick Check. The functions available are described in detail in the topic Quick Check View and it's sub-topics.

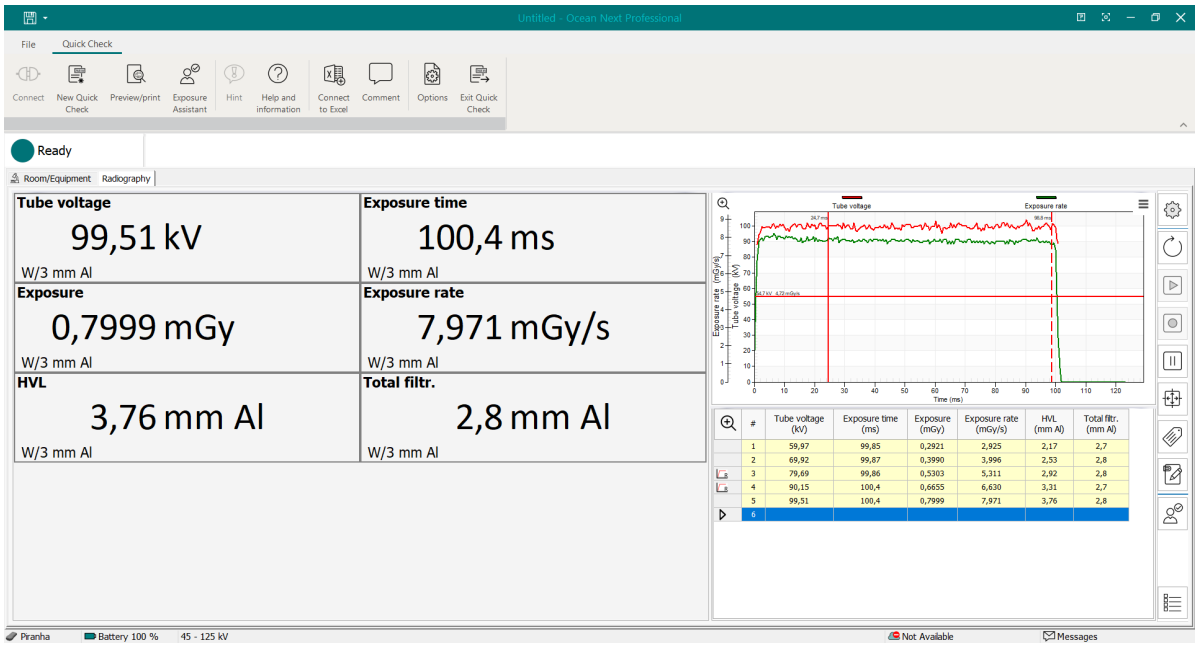
Typical Workflow with the Quick Check View

1. Make sure the meter is powered on and connect, if necessary, a probe.
2. From the Backstage Home page click on the **Quick Check** button:



3. Quick Check starts and Ocean Next connects to your meter. Depending on meter and probe, some dialogues may appear. Make selections suitable for the measurement you want to do.

4. The Quick Check View is shown and you can start to measure:



5. You have access to several useful functions on the menu to the right. You can optionally, click on the Room/Equipment tab and specify site information.

6. Make the exposures.

7. To save your measurement, click on the **Save** button to the left on the title bar or click on the **File** tab to go to the Backstage and select Save from the menu.

8. You can preview and/or print by clicking on the **Preview/Print** button.

9. Click on the **Back** button at the upper left corner of the Backstage to go back to the Quick Check View.

10. The Quick Check View provided plug-and-play and you can at any time disconnect a probe and connect another one and the Quick Check View will directly adapt to the new meter/probe configuration.

11. Click on the **Exit** Quick Check button to quit.

All Quick Check functions are described in detail in the topic Quick Check View and it's sub-topics.

4.3 Test View Workflow

This topic is describing the main workflow with Test View. The functions available are described in detail in the topic Test View and it's sub-topics.

Typical Workflow with the Test View

1. Make sure the meter is powered on and connect, if necessary, and set it up for your first measurement in the Session Template you are going to work with.

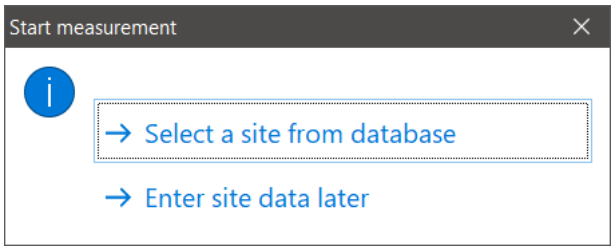
2. A new measurement always starts with loading a Session Template, you can do this in different ways:

   a. Click on **New** in the Backstage File menu, click on **Measurement** and further on **New from template** button. Locate a template and click on it.

or

b. Click on the **Test** button in the Backstage Home page. The Test View is shown with the database tree on the left side. Open the Templates folder and further the Testing folder. Locate a template, right-click on it and select "New measurement...".

3. A dialogue is now shown (only PROFESSIONAL license):

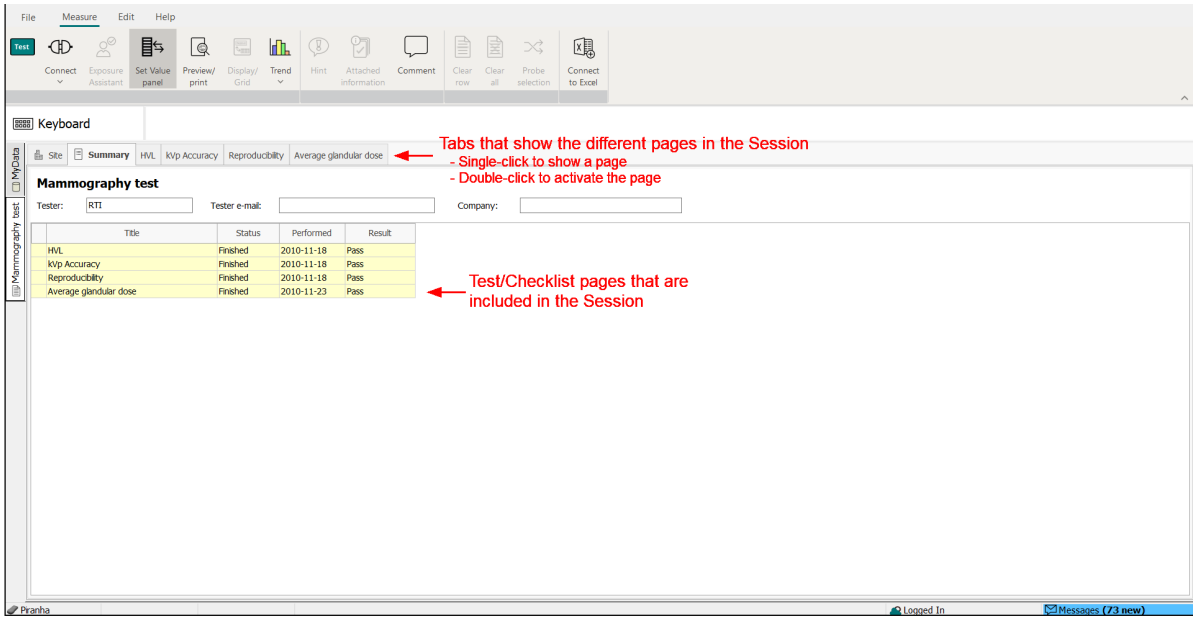


The normal workflow here is that you select the Site you want to store your measurement to. The site information will then automatically be added to your Session. You can also enter this information later and also store your Session in the Folders section of the database instead of the Site section.

4. Ocean Next connects to your meter.

5. The session's Summary page is shown and after a few seconds the first page (in this case "HVL") is **activated**. This means that your meter is set to do the first measurement on this pag, see more about this below.

6. The session's Summary page has the following content:

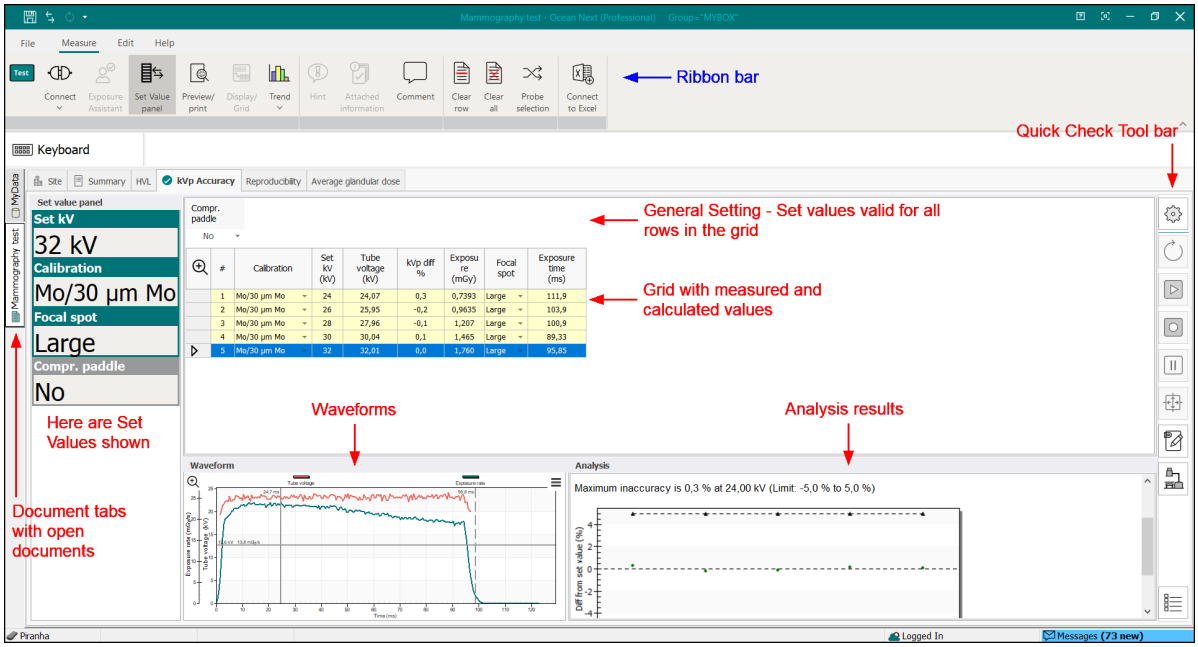


7. You can click on the different Session tabs. For the Test/Checklist tabs is the following valid:

Single click: **Selects** the page and shows the content.
Double click: **Activates** the page and prepares the meter to do the measurements on this page.

8. The page is activated if your meter and connected probe(s) are suitable for the measurement. If meter and probe can't do the measurement, the Probe Selection dialogue will appear that allows you either skip the parameter(s) not supported or connect the required probe.

9. The first page is activated automatically and you will see it:



10. You are now ready to make exposures.

11. You can see the result from each exposure in the grid. waveform and analysis results below the grid.

12. To the left you see the set values for each exposure. If you need to change something, just click on it and edit it. You can also edit directly in the grid.

13. When you have completed one page, click at the next tab to activate the next test or checklist.

14. To save your measurement, click on the **Save** button to the left on the title bar or click on the **File** tab to go to the Backstage and select Save from the menu.

15. You can preview and/or print by clicking on the **Preview/Print** button.

16. Save the Session when you have completed it. To close it; right click on the document tab and select "Close" or click on the **File** tab to open the Backstage and here click on **Close**.

All Test View functions are described in detail in the topic Test View and it's sub-topics.

Chapter 5

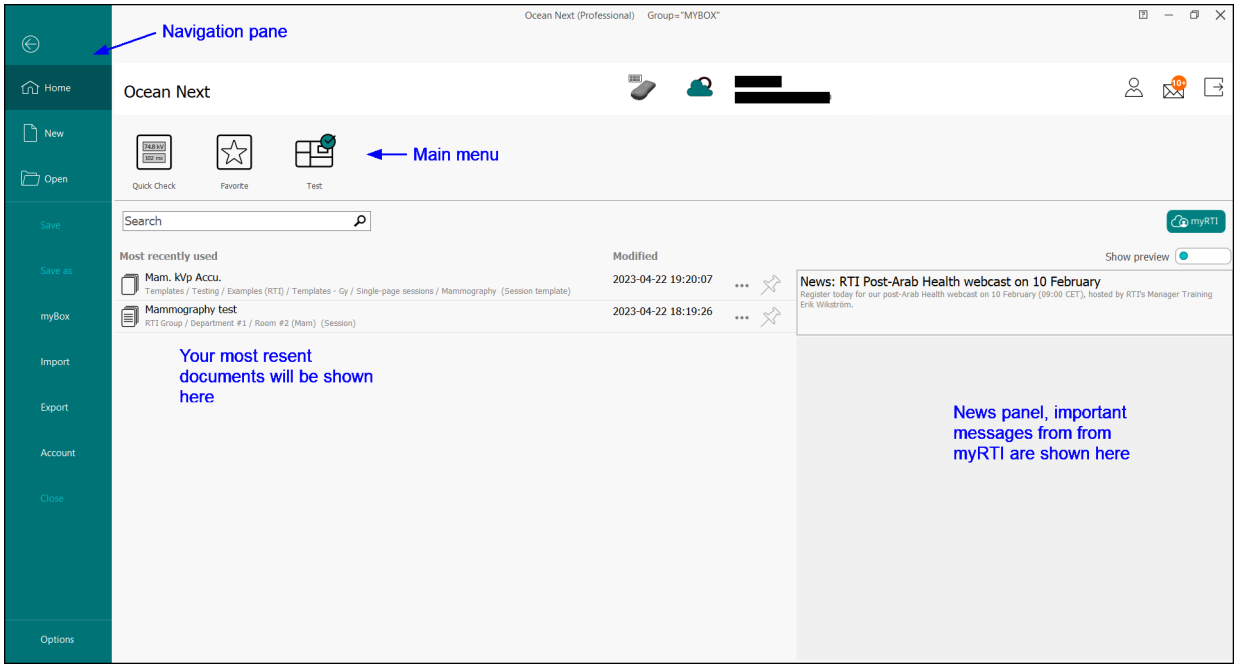
Backstage View

5 Backstage View

When you start Ocean Next, or after you click the **File** tab, you can see the Ocean Next Backstage view. If you need to create start a new measurement, create a new template, open an existing measurement or template, print, save, change options or more, Backstage is the place to do it. In short, it is everything that you do **to** a document that you don't do **in** the document.

Home

To the left you have the navigation pane with buttons to access various functions.



The Backstage screen shows you quite a few of the most recent files that you've worked on and some other information and buttons/indicators:

This button shows currently used meter and indicates if it is connected or not. You can click on the button to toggle between "connected" and "keyboard". If you click on the small arrow on the button a menu is shown where you can change to another meter type and, if you are connected to the meter, see the "Meter Information".

This indicator shows current cloud status, if Ocean Next is connected or not to myRTI. If you click the small arrow menu is shown where you can log out Ocean Next from myRTI. You can make a manual synchronization. You can also do this from the keyboard with Ctrl+r.

This button opens your web browser and shows your Profile page on myRTI.

This button opens the "Message Inbox" with all messages that Ocean Next has received. The counter indicates number of unread messages. The most important messages will also be high-lighted on the "News panel".

Click this button to exit Ocean Next.

New

To start a new measurement or create a new template click the **New** button and select what you want to do, see the topic New for more information.

Open
If the document you want to open isn't shown among the most recent used documents on the Home page, click the **Open** button. From the Open page, you can locate the document you want to open, see the topic Open for more information.

Save
Saves current document.

Save as
Saves a copy of current document. You can save current work with a new name and/or in a new location, see the topic Save as for more information.

myBox
Here you can find functions for myBox, organize your contacts, stop documents from sharing and block/unblock users from sharing with you, see the topic myBox for more information.

Import
Import documents from a file, see the topic Import for more information.

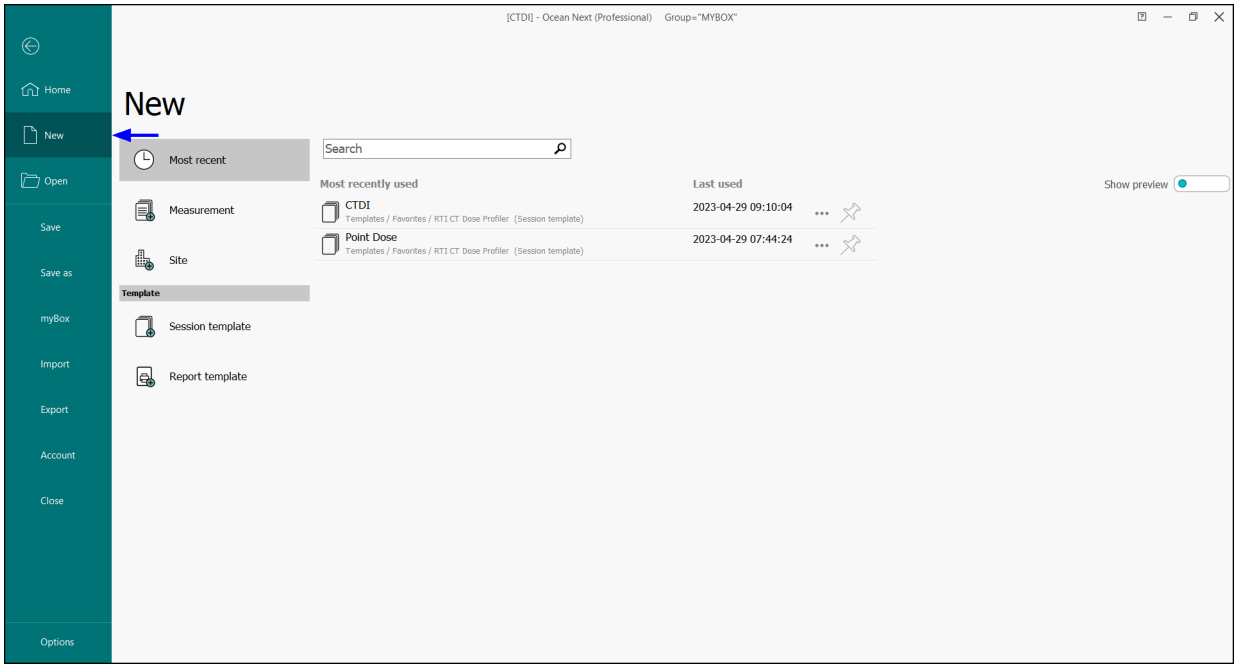
Export
Export documents from a file, see the topic Export for more information.

Account
Here you can find various functions for you administration and set up of Ocean Next, see the topic Account for more information.

Options
Click here to open Program Options and change preferences, units, defaults, etc.

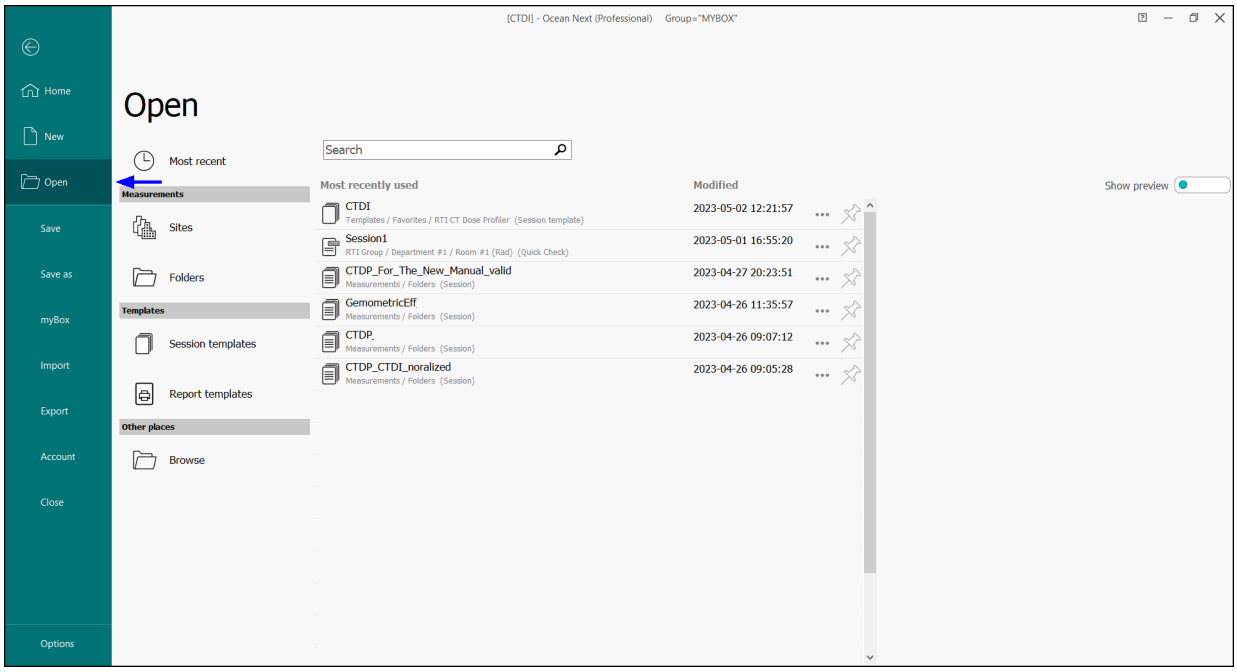
5.1 New

This page is only accessible if you have license level ADVANTAGE or PROFESSIONAL. From here you can start measurements with user-defined templates in the Test View. You can, with PROFESSIONAL, design templates that has several different pages, include analysis with pass-fail criteria, change report format and much more. With PROFESSIONAL you can also create Sites in the "Site database".



5.2 Open

This Backstage page is used to open a measurement that has been saved earlier. If you have license level QUICK or ADVANTAGE, you only have access to "Folders". If you have PROFESSIONAL, you also can open Quick Check measurements that has been saved in the Site section of the database.

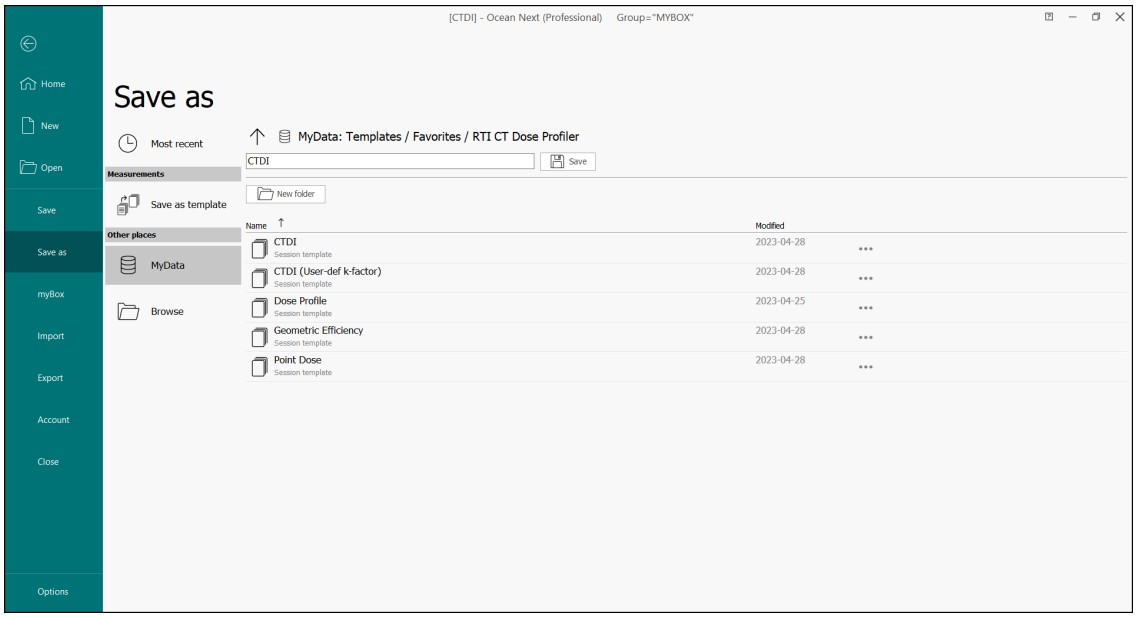


The selection Sites is not all available unless you have license level PROFESSIONAL.

If you open a Quick Check measurement and want to continue to measure, make sure to have a meter and if applicable an external probe that comply with the saved measurement connected before you open the saved measurement. Locate the Quick Check measurement you want to open and select it. Quick Check starts and the selected measurement is opened. If the required capabilities (wrong meter or external probe) a dlg will be shown allowing you to reconfigure your meter and/or external probe. If you jsut want to open it a look at it, you can do this without a meter.

5.3 Save As

This page is used if you want to rename a document and/or rename it. You will also come here when you save anew document for the first time. the first time.



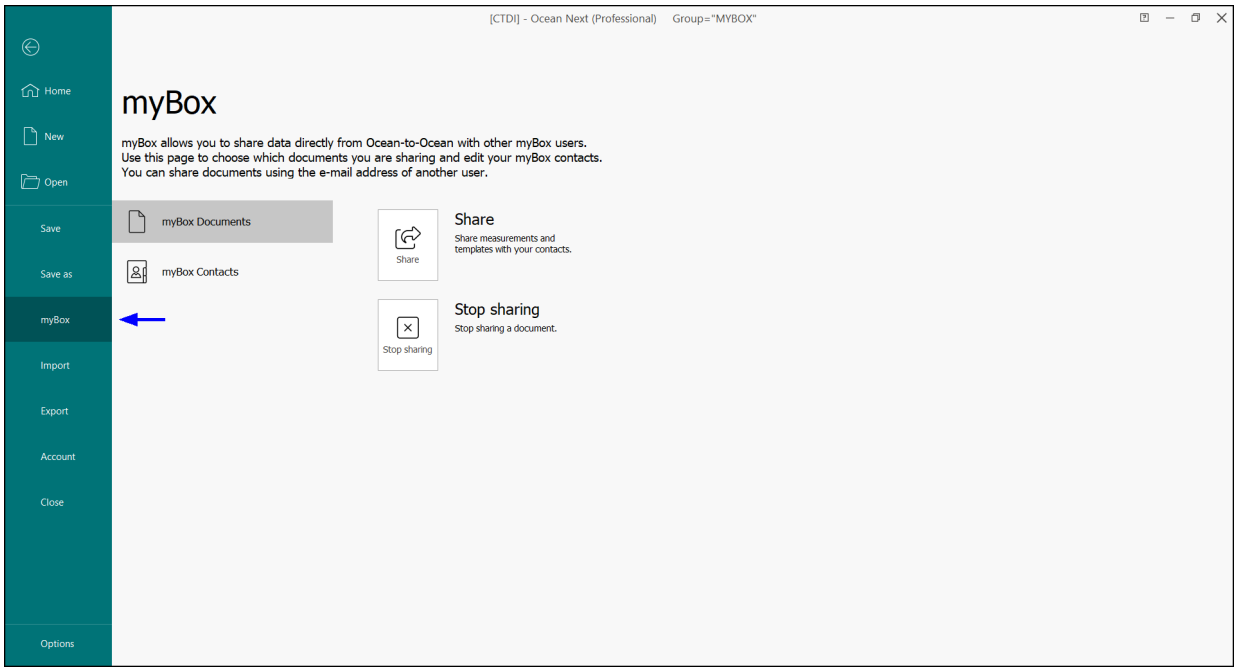
Default place to save Quick Check measurements is "Folders". This is a place where you can create sub-folders and organize your measurements in your own way. If you have license level PROFESSIONALl you can click the up-arrow and navigate further to a Site and save your measurements in a room.

The default place when you save Sessions depends if you, when you started the measurement, selected a Site or not. If you selected a Site, the default place will be the room you selected, otherwise it will be "Folder".

When you save Session templates the default place is "Testing" and for Report templates it is "Reports".

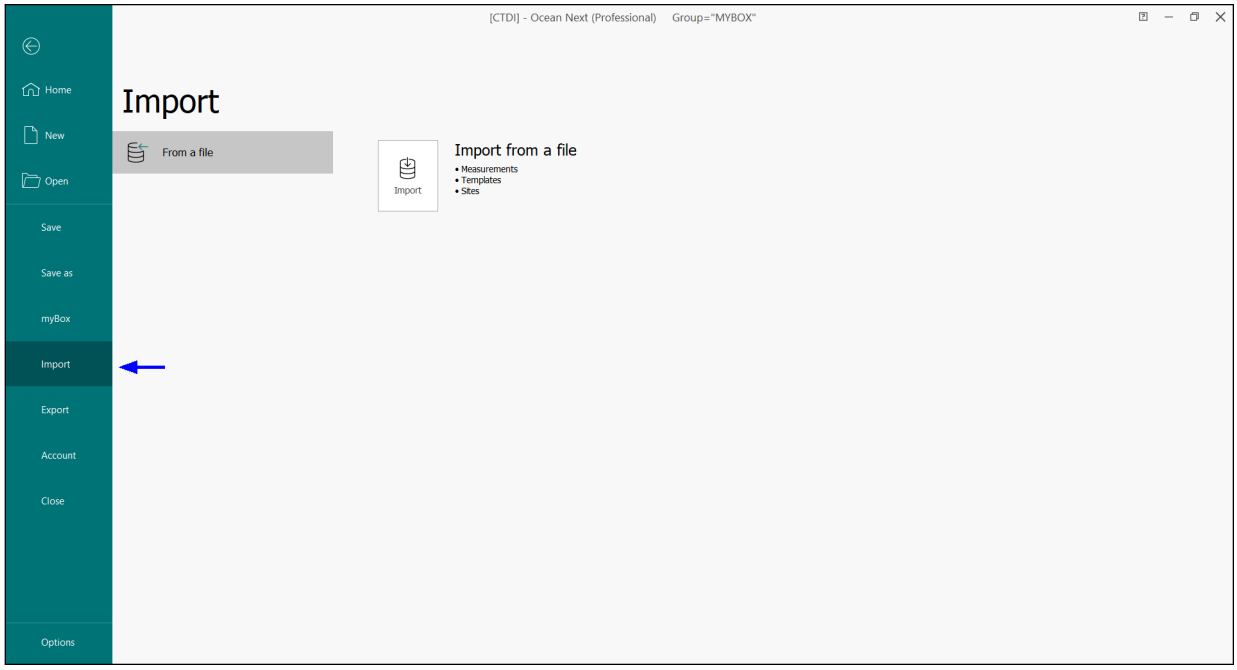
5.4 myBox

Here you find functions related to myBox, you can share, administrate your contact and cancel content you have shared. The functions here are described in the topic How to use myBox.



5.5 Import

If you want to move measured data from one computer to another, an export and import function is available to you. Click on **Import** on the navigation pane:



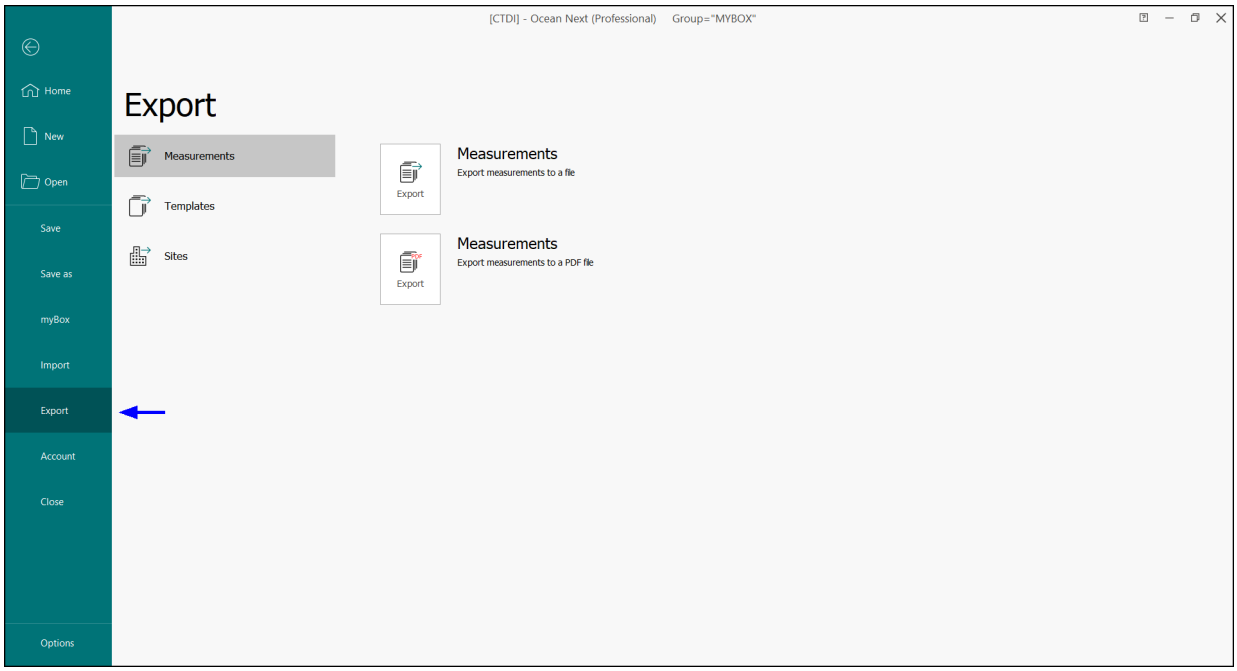
You can import a Sessions and templates in the following way:

1. Click on the **Import** button.
2. Locate the file you want to import (extension .omex for Sessions or .otex for Templates).

3. A list will be shown with the Sessions or Templates included and their destinations.
4. Click **Finish** to continue.

5.6 Export

If you want to move measured data from one computer to another, an export and import function is available to you. Click on **Export** button on the navigation pane:



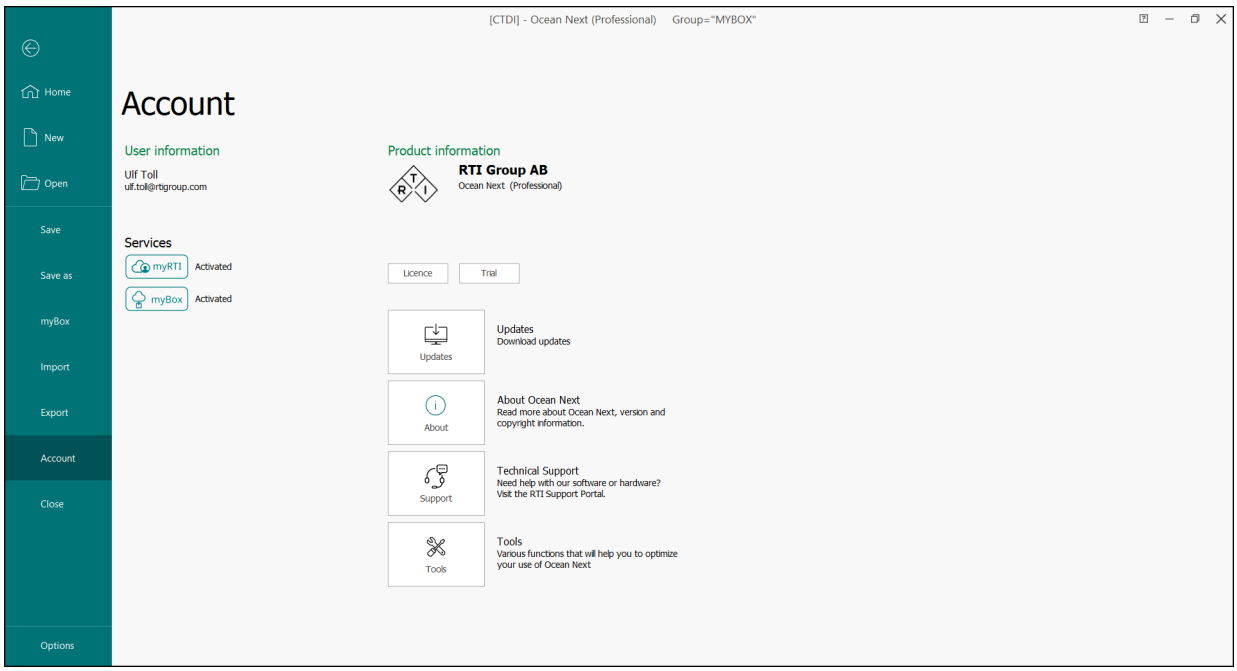
Export in the following way (if license level is QUICK, only measurements can be exported):

1. Click on the **Export** button.
2. Select the measurements you want to export, double-click or use drag the files from the left side and drop them on the right side.
3. Click on **Next** when you have selected all the measurements you want to export,
4. Select "File" or "E-mail" ("E-mail require that you have an e-mail program on your computer and internet access). If you select "File", chose a file name and the location where to save the export file.

The measurements can now be imported by any other user of Ocean Next. Mote that the receiver must use the same or higher version of Ocean Next.

5.7 Account

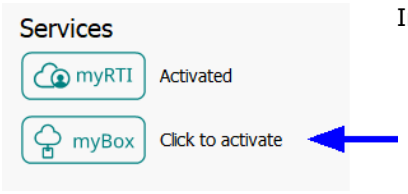
This Backstage page gives access to various functions related to administration of your software from RTI Group.



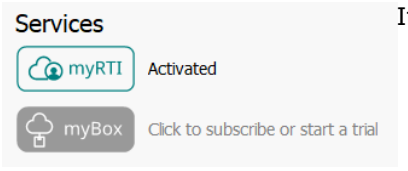
User information
Here is your user information shown that you used for your myRTI account.

Services

These buttons show the available services you can use with Ocean Next. Depending on the status, the texts to the right of the buttons tell you what the button does, for example:



In this case you can click on the myBox button to activate.



If the a button is grayed out, it means that internet isn't available.

If you click on a button with the text "Activated" to the right, a status dialogue for that service is shown.

License

Here you can change the license level. This is normally not anything you need to do, however at special occasions it may be convenient to use this function, read more in the topic License levels.

Trial

Here you can activate a 45 days Ocean Next trial with a higher license level, read more in the topic Try a higher license level.

Updates

Link to web page where you can find the latest versions of Ocean Next.

About

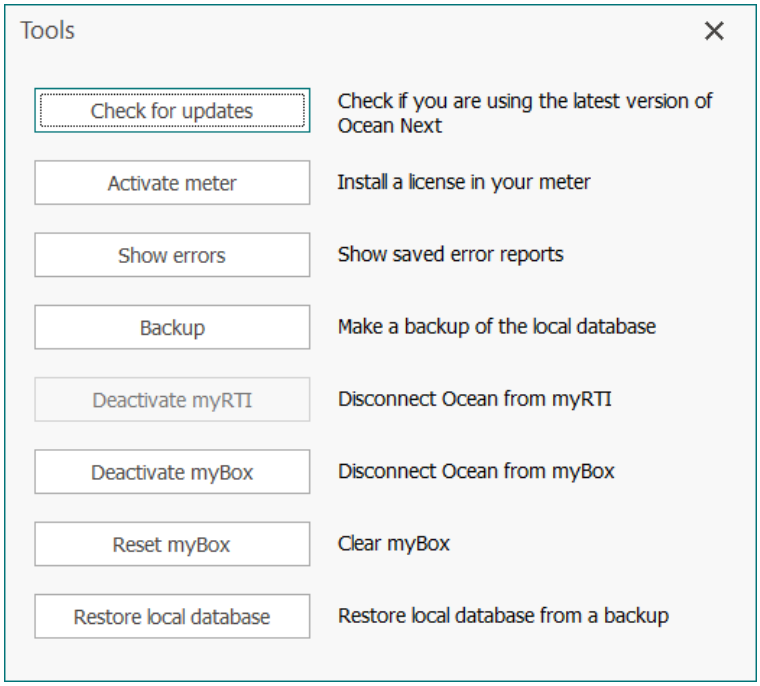
Here you can read information about Ocean Next, software versions for Ocean Next, Ocean Sync and other components.

Support

Link to RTI Support Center.

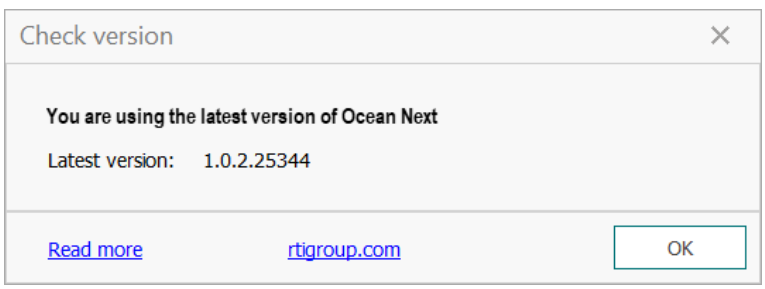
Tools

Here you can find functions for maintenance and problem solving. When you click the **Tools** button a dialogue is shown:



Below are the different buttons described:

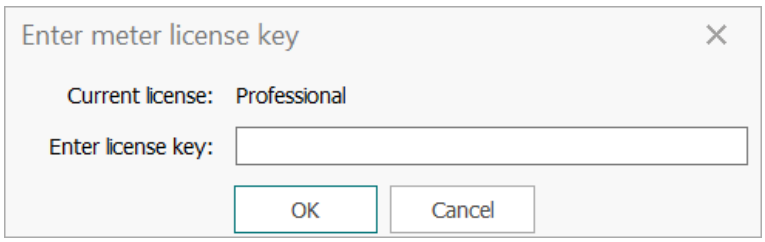
Check for updates Check if you are using the latest version pf Ocean Next. A dialogue is shown:



Activate meter

If you purchase an upgrade to a higher license level, you must be activate your meter with an activation code.

Enter the license key you received when you purchased the new license level in the dialogue shown:



Click "OK" and restart Ocean Next.

Show errors

Show all Support files that has been generated.

Backup

Create a copy of your database and select a location to store it.

Deactivate myRTI

In a situation when you want to use a computer that has been used by somebody else, then myRTI must be deactivated before you can sign in. Current computer is "disconnected" from myRTI. You can also deactivate a computer from the myRTI web site.

You can at ant time activate myBox again for this computer.

Deactivate myBox

In the same situation as above, you also might want to deactivate myBox (must be done before you can deactivate myRTI). Current computer is "disconnected" from myBox.

You can at ant time activate myBox again for this computer.

Reset myBox

Warning!
Don't use this function unless you are sure what it does and the consequences if you use it. If you are unsure, contact the RTI Support.

This clears your myBox. It erases the cloud content but your computer(s) are not affected, they keep their current content.

Restore old database

Warning!
Don't use this function unless you are sure what it does and the consequences if you use it. If you are unsure, contact the RTI Support.

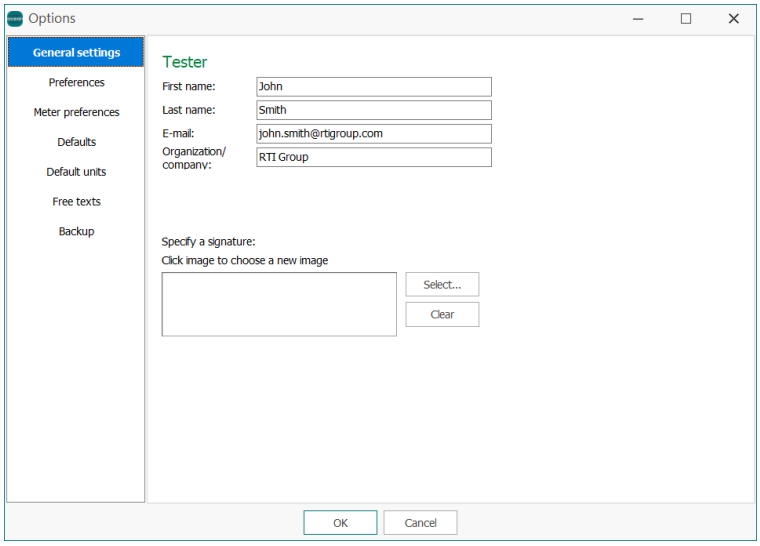
This is used to restore an old database that earlier has been saved to a file. You cannot use this command if you are activated with myRTI.

5.8 Options

Here you find setting that control how Ocean Next works. Quick Check has additional options specific for the Quick Check View, read more about this in the topic Functions in Quick Check.

Go to the Backstage (click on **File** at the top of the ribbon bar) and click on Options at the bottom of the navigation pane on the left side.

General Settings

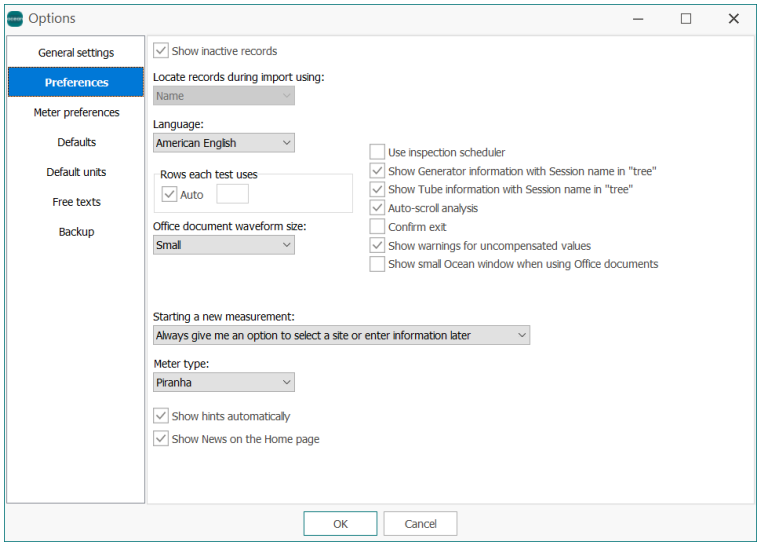


Settings on the "General Settings" page:

Tester Here you specify the name and contact information that shall be printed in reports when "Tester" is included.

Specify signature This is a image of your signature that can be added to the summary page of the report when you sign the report.

Preferences



Settings on the "Preference" page:

Show inactive records The default is checked. If unchecked, items set to "inactive" in the database are not shown.

Locate records during import using Default is that items are located by "Name", cannot be changed.

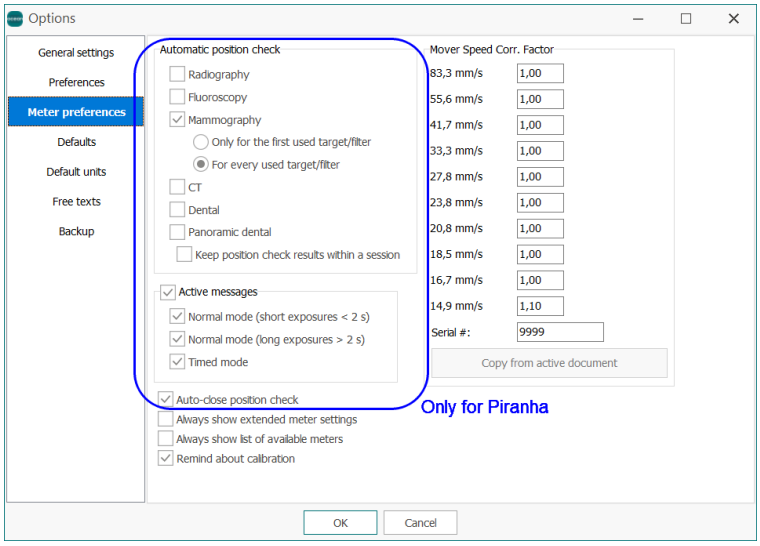
Language Select language (only American English is presently available).

Rows each test uses Space allocated for each test when a complete session is dumped to Excel.

Office document waveform size Select size for waveform pictures that are exported to Excel.

Starting a new measurement	Select how a new measurement shall start: - Show a dialogue and give an option to select to "select a site first" or "enter site data later". - Always ask for site information. - Never ask for Site information.
Meter type	When no meter is connected Ocean Next uses a "virtual" meter is assumed. Select here the meter you intend to use if you have no meter connected when you build templates. **Note**: Build the templates for Piranha if you intend to use templates for both Piranha and Cobia.
Show hints automatically	If this is checked, hints are shown automatically. **Note**: Check these boxes to use the individual checkbox that is available for each hint.
Show News on Home page	If this is unchecked, no news are shown on the right side of the Home page.
Use inspection scheduler	Enable the option to set inspection dates. You will also be reminded to set the next date when you start an inspection.
Show Generator name with session name in the "tree"	Show the generator name with the session name in the room's Measurements folder.
Show Tube information with Session names in the "tree"	Show tube information with the session name in the room's Measurements folder.
Auto-scroll analysis	When a "one row analysis" (AGD, CTDP(helical scan/in phantom), CTDP(helical scan/free-in-air) and QuickHVL) the analysis automatically scrolls to show the analysis.
Confirm exit	Show a dialogue before Ocean Next closes.
Auto start session	If checked, the session starts automatically when it is opened.
Show warnings for uncompensated values	If checked, a warning is shown if a measured value is not auto compensated. Default value is unchecked.
Show small Ocean 2014 window when using Office document	Show a minimized Ocean Next window when working with Excel workbooks.

Meter Preferences



Settings on the "Meter Preference" page:

Automatic position check Defines when user wants to be notified to do a position check.

You can select individual setting for each modality. For mammography you can also select that the position check shall be valid within a session. This assumes that you don't move the meter between different tests in the session.

Active messages If checked, active messages will be displayed for each measuring mode.

Auto-close position check If checked, position check closes automatically when it is successful.

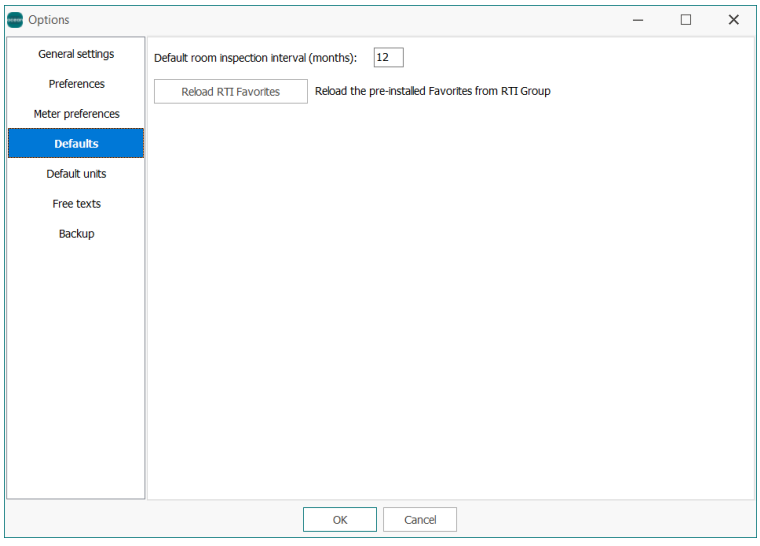
Always show extended meter settings If checked, all meter settings in Studio View are always visible on the Meter Adjust tabs and you don't need to click on the More button to see all settings.

Always show a list of available meters If checked; Ocean Next shows a list of available meters when scanning for a device to connect to via Bluetooth. If unchecked, the list is not shown if the last used meter is found. Ocean Next then directly connects with it.

Remind about calibrations Uncheck this box if you don't want to see re-calibration reminders.

Mover Speed correction factors You can here specify correction factors for the RTI Mover speed to increase accuracy when it is used. See the Mover manual for more info.

Defaults

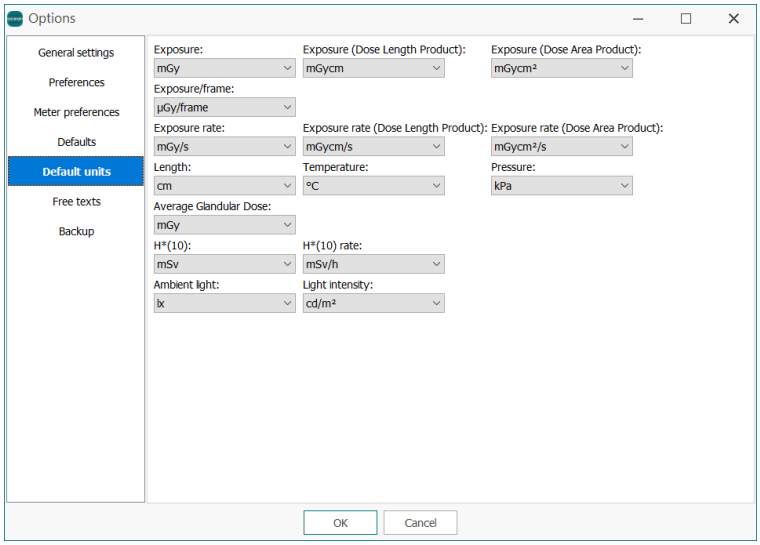


Settings on the "Defualt" page:

Default room insteaction interval (months) Not used.

Reload RTI Favorites Reloads the RTI favorites that are pre-installed.

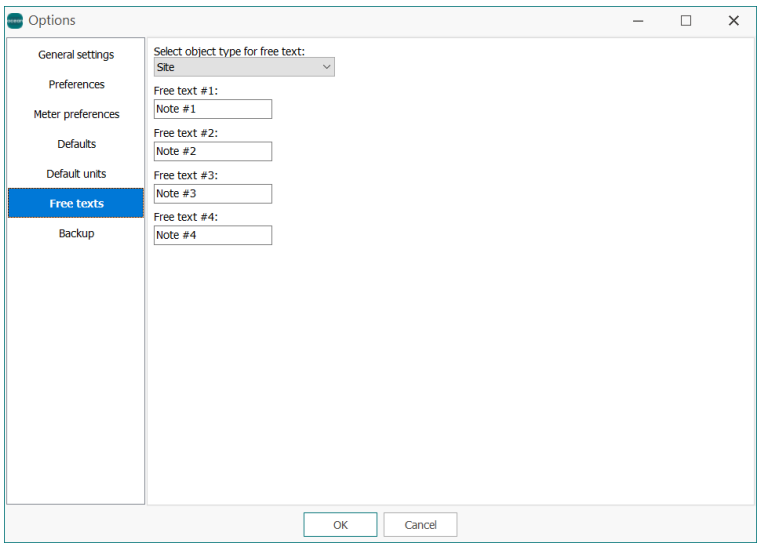
Default Units



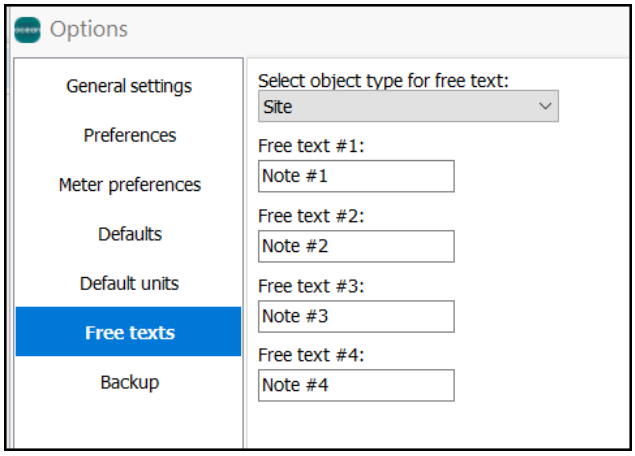
Settings on the "Default units" page:

Units This is where you can define the default units you want to work with. The choice you make here will affect all new templates you design, but you can change them locally at any time.

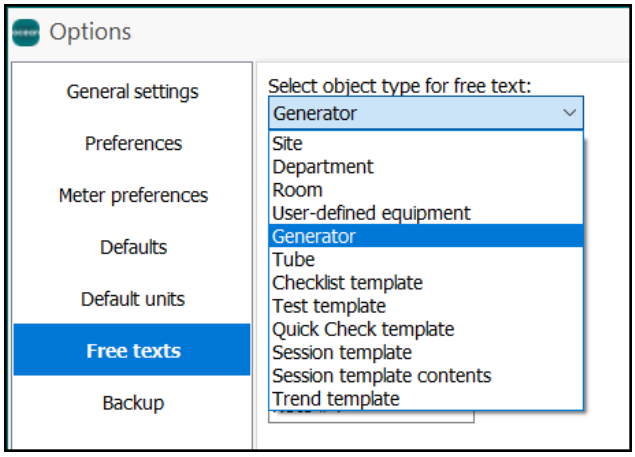
Free texts



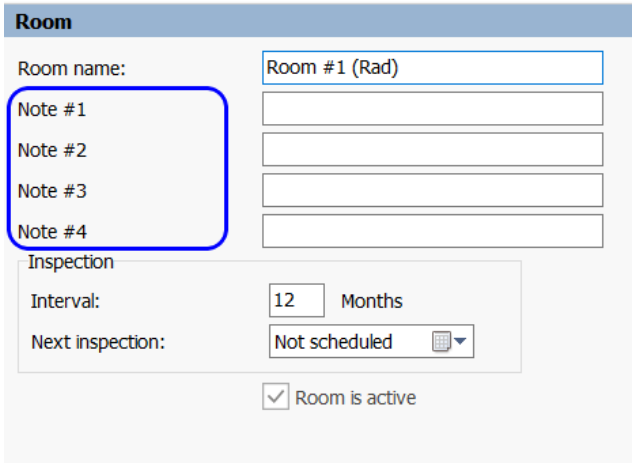
Here is it possible to specify the user-defined labels that are available for facility, department, room, generator, tube, user-defined equipment and all type of templates.



First select object type and then edit the free texts.



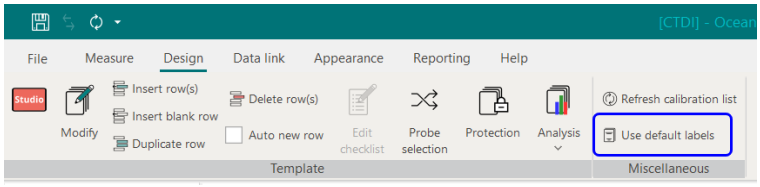
The free texts are labels for the user-defined fields that are available for all site objects:



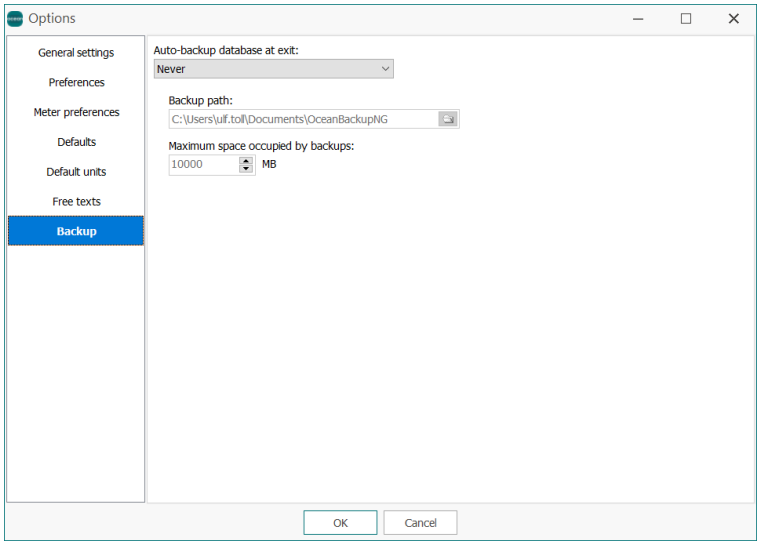
These fields are also shown in the report and can be used to specify user-defined data.

If you change the labels here it only affects the default labels that are used when you create new templates. If you want to use the new labels in already existing templates do the following:

1. Go to the design page.
2. Click on "Use default labels".



Backup



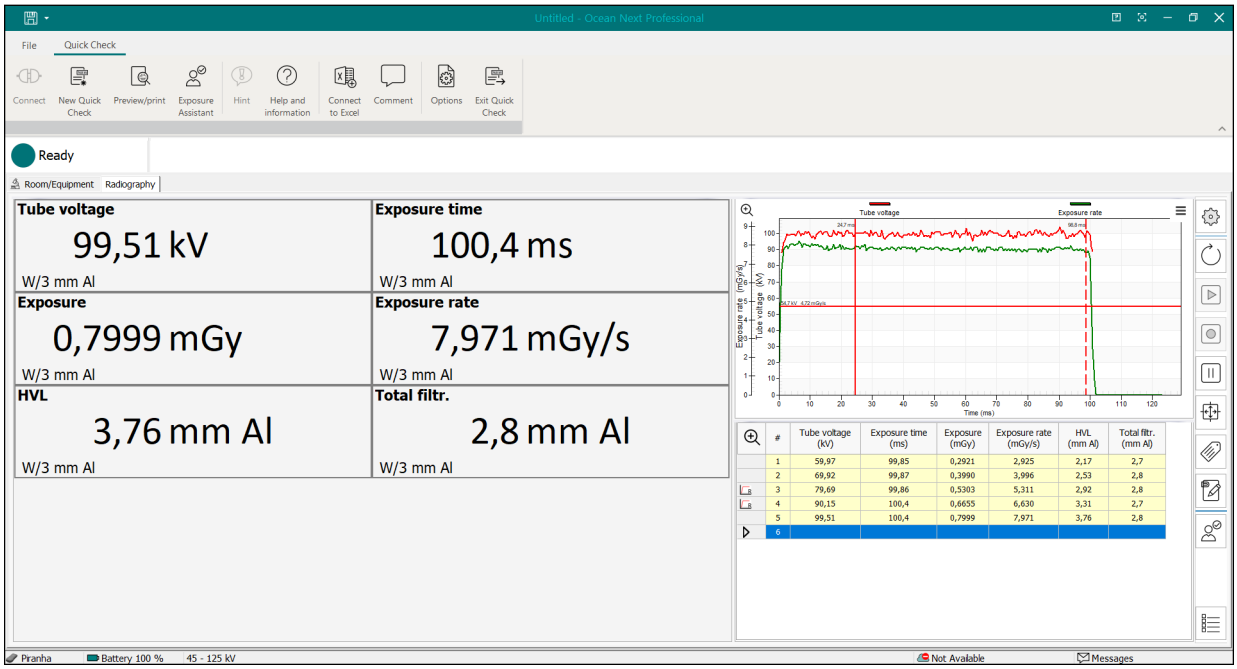
In case you don't have myBox and want a local backup you can here define how backup of your database automatically. You can decide where the backup is going to be saved.

Chapter 6

Quick Check View

6 Quick Check View

Quick Check View is the display for your meter when you just need to make a quick measurement. Quick Check uses plug-and-play and adapts to the meter you use and the probe(s) you have connected.



You can do the following with Quick Check:

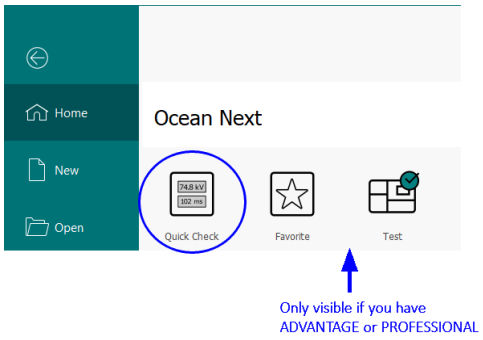
- Quick measurements
- Save your measurements
- Print a simple report
- Export to Excel

Quick Check View is available for all license levels.

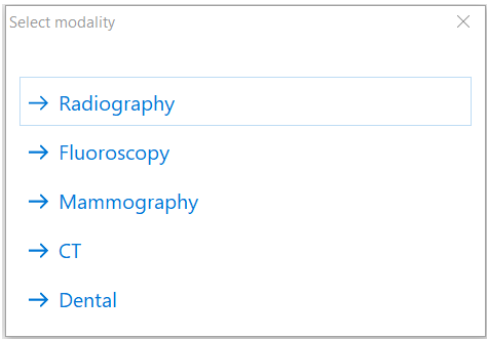
6.1 Start a Quick Check measurement

When Ocean Next is started, the Backstage show. At the top of the Home you will see the **Quick Check** button.

1. Power on your meter, disconnect any external probe. Start Quick Check by clicking on the **Quick Check** button. (In this case is a Piranha Multi used)

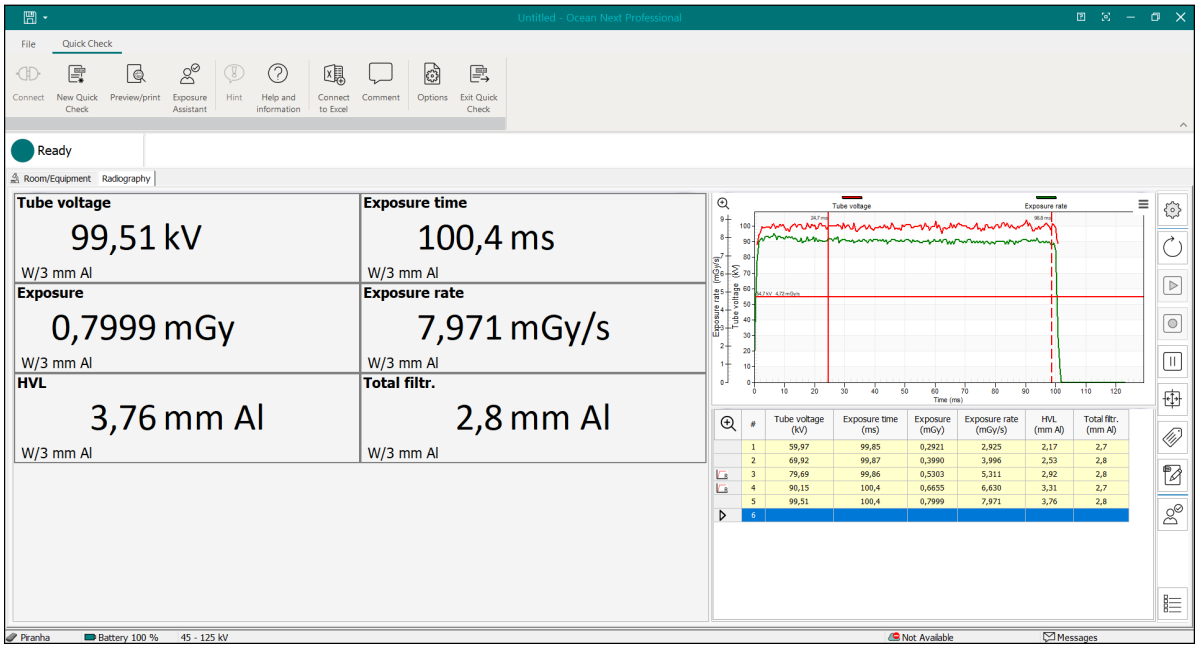


2. Ocean Next connects to the meter and depending on connected meter, next step might look different. In this case is a Piranha Multi used. The following is show:



Select for example Radiography. For other modalities from here and on; it may be several choices to make before the measurement screen appear. For example, for mammography you must chose calibration and if compression plate is used or not.

3. Ocean Next loads the predefined template for radiography:



4. Select setting on the x-ray unit and make an exposure.

5. The results appear in the displays and waveforms are shown. The grid below waveform panel shows the result from all exposures done in this session.

6. If you need to adjust meter settings, click on the **Meter/Probe settings** button on the toolbar on the right side.

7. If you want to save the session, go to the **File** menu and select **Save** or click on the save icon on the left side of Ocean Next's title bar.

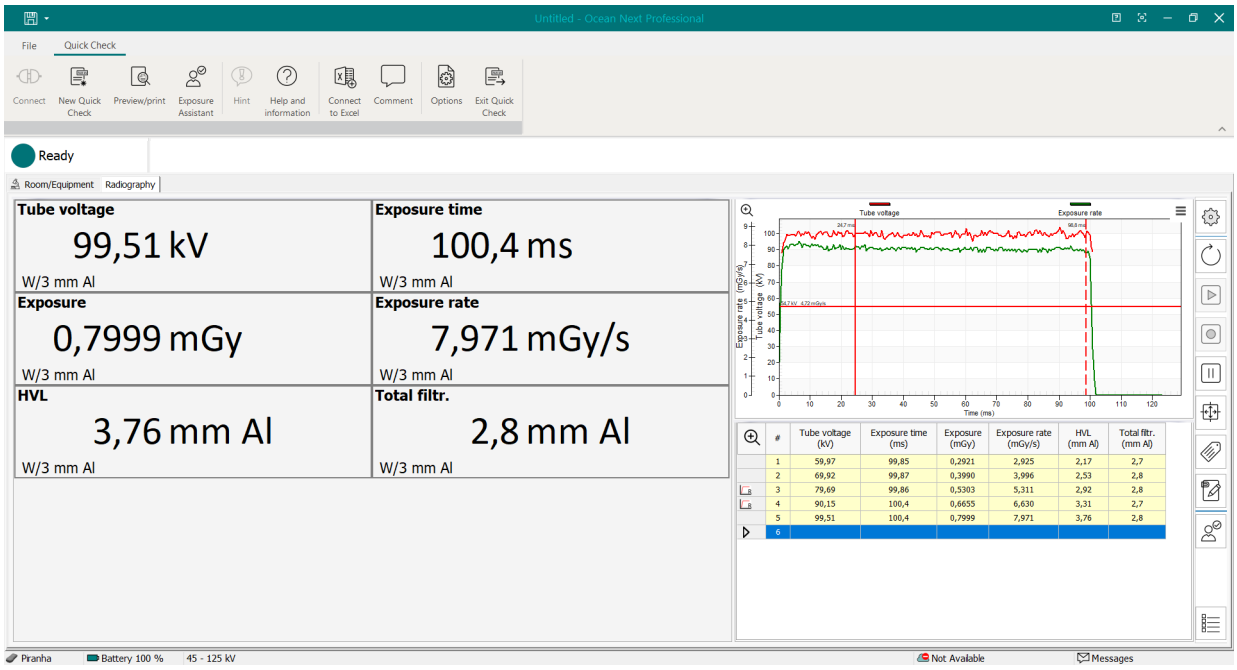
8. You can also preview or print the resulting report by clicking on the **Preview/Print** button.

9. You can start a new Quick Check measurement by clicking on the button **New Quick Check** on the ribbon bar. **Note**: By default Quick Check will not ask you to save before you exit or start a new Quick Check, you must manually save before you exit or start a new Quick Check measurement. You can change this in Quick Check Options if you click on the **Options** button on the Ribbon bar.

You can read more about the different functions in Quick Check in the topic Functions in Quick Check.

6.2 Functions in Quick Check

When you have done required selections, Quick Check connects to your meter and the Quick Check view loads. You are now ready to make an exposure:

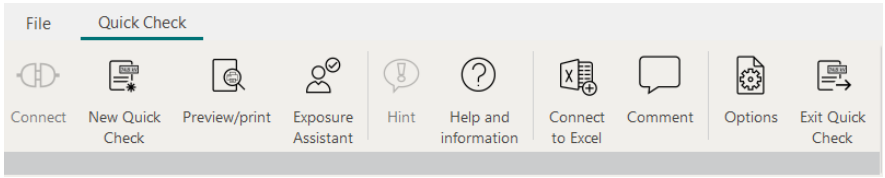


- At the top is the ribbon bar with buttons for various functions
- Measured values are shown in the displays
- Measured values are logged and saved in the grid
- Waveforms are shown in the waveform panel

NOTE: The picture above shows how it looks for a 16:9 screen, for other screens it may look different.

Ribbon bar

At the top is the "Ribbon bar" located; it has two tabs; "File" and "Quick Check". The "Quick Check" tab shows all major Quick Check functions and "File" takes you back to Backstage.



Click here to connect to meter.
During measurements this button is disabled since it is not pssible to use "keyboard" mode in the Quick Check View.

Start a new Quick Check measurement.

Preview and/or print the report, read more in the topic Preview and Print.

Turnoff/on the "Exposure Assistant". The "Exposure Assistant" is used to capture a value when radiation is stable during fluoroscopy exposures. Read more in the topic Exposure Assistant.

Get specific help with current measurement.

Access the help text. You can also use "F1" on your keyboard.

Transfer data to Excel, read more in the topic Transfer data to Excel.

Add a comment to the measurement, read more in the topic Comment.

Access Quick Check options, read more in the topic Quick Check Options for Piranha and Cobia... and in the topic for Scatter Probe.

Terminate Quick Check.

Note: By default Quick Check will not ask you to save before you exit or start a new Quick Check, you must manually save before you exit or start a new Quick Check measurement. You can change this in Quick Check Options if you click on the **Options** button on the Ribbon bar.

Toolbar

The toolbar on the right side give you quick access to functions often used when performing measurements.

Open Meter and probe settings, read more in the topic Meter and Probe Settings.

Reset meter, zero the meter and corresponding displays.

Start measurement. Used when it is "Timed mode" to start measurement manually.

Capture a measurement. Can be used, for example, during fluoroscopic to capture a measured value when radiation is stable.

Pause measurement. Can, for example, be used when an external probe must be moved to avoid false triggering.

Position check. Verify that the meter is correctly positioned when doing kVp measurements. Only used with Piranha.

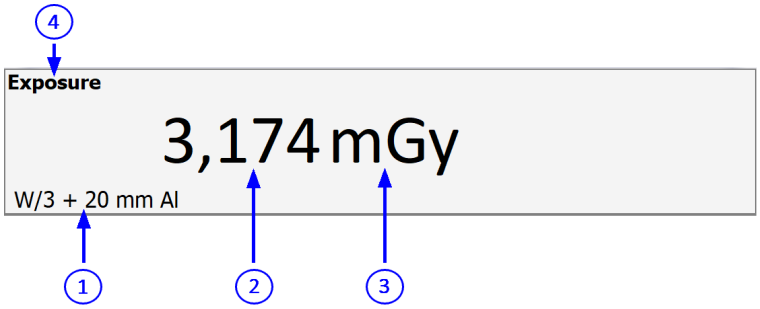
Add a tag, read more the topic Tag.

Add a note and/or an attachment to current row, read more the topic Note and Attachment.

Expand the toolbar. Shows extended information about the toolbar.

Displays

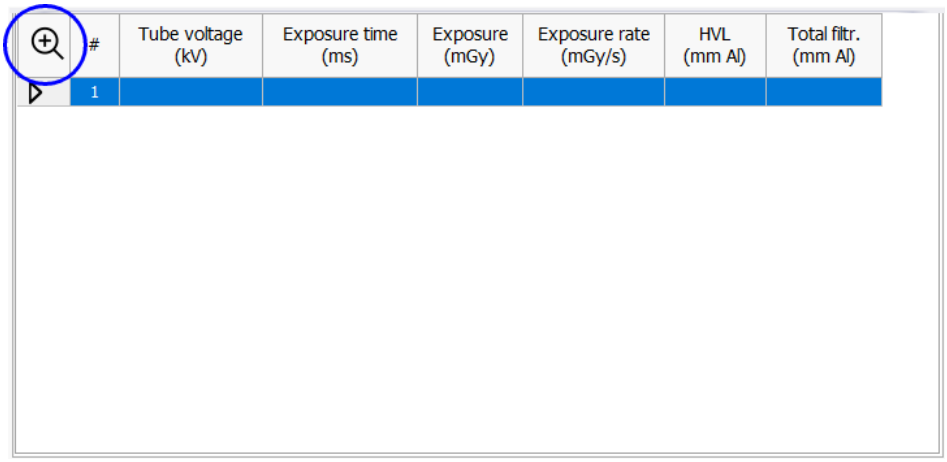
One display for each measured value is shown in the display panel. Each display can be individually configured:



1 - Click on the text to select another calibration
2 - Click on the measured value to change number of decimals
3 - Click on the unit to change to another unit
4 - Double-click on the empty space to enlarge and move this display to the top of the display panel

Grid

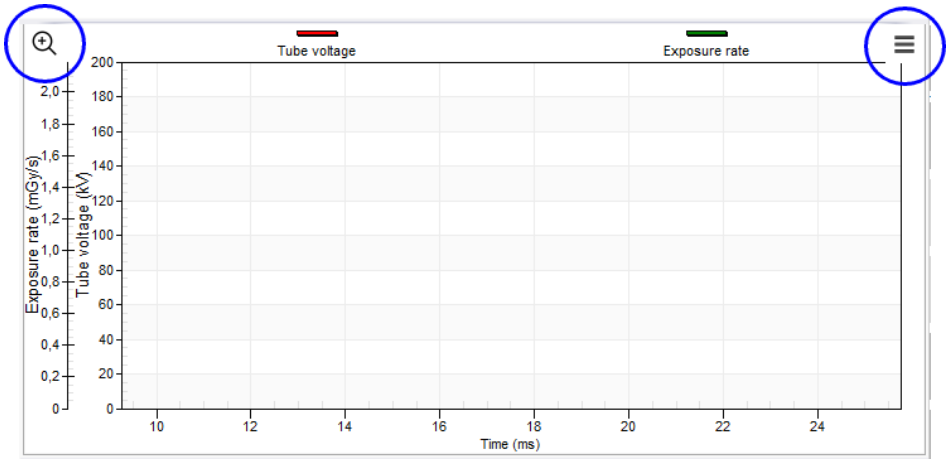
Measurements are logged and saved in the grid:



- A new row is created in the grid for each exposure.
- It is possible to repeat measurements by clicking in the first column on a previous row.
- Click on the magnifying glass to enlarge the grid

Waveform

Waveforms are shown in the waveform panel:



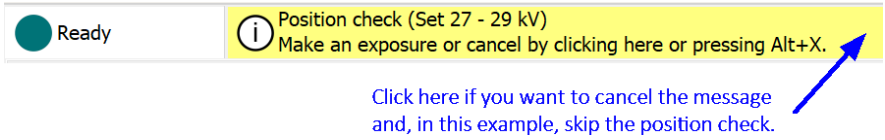
- Shows the waveforms for the current measurement.
- Click on the magnifying glass to enlarge the waveform.
- Click on the menu symbol to access smoothing and to include waveform image in the report, read more about the report here... (section "Preview and Print").
- Horizontal and vertical cursors can be moved and values are indicated close to each cursor.

Status bars

There are two status bars that shows different information related to the measurement and the program. The "upper status bar" is located under the ribbon bar and the "lower status bar" is located at the bottom of the Quick Check View.

The **upper status bar** shows meter status and different messages when you measure:

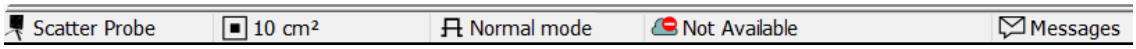
In some situations a message is shown with a yellow background; all such messages can be closed by just clicking or tapping on the yellow background:



The **lower status bar** shows for Piranha and Cobia:

- Meter used.
- Battery status.
- kV-range, click here to change kV-range (only Piranha).
- Status for myRTI (cloud).
- Messages, click here to see if any messages are available.

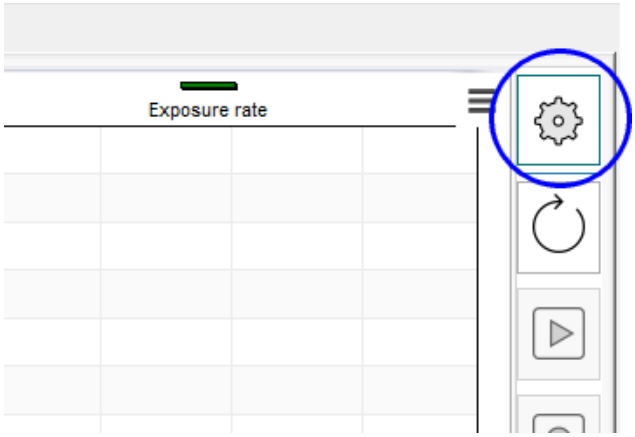
The **lower status bar** shows for the Scatter Probe:



- Meter used.
- Measuring area used, click to toggle between Large and Small.
- Measuring mode, click to toggle between Normal and Free run.
- Status for myRTI (cloud).
- Messages, click here to see if any messages are available.

Change Meter Settings

In some situation it might be necessary to change meter settings to get oiptimal conditions for a certain measurement. Click on the **Settings** button on the toolbar to the right to open "Meter and probe settings".



Read more in the topic Meter and Probe Settings.

Enter room and equipment information

It is possible to include room and equipment information in the printed report. You can enter this information on the Room/Equipment page:

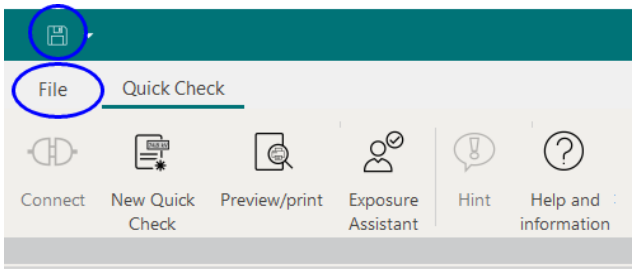
Read more in the topic Room and Equipment Information.

Preview and/or print the report

To preview or print the report, click on the **Preview/Print** button on the ribbon bar, read in the topic Preview and Print.

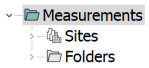
Save the measurement

Select "File" on the ribbon bar or click on the Save button on the title bar:



You will be directed to the Backstage, select **Save as...** if it is the first time, or "Save" if you already has given your measurement a name and location.

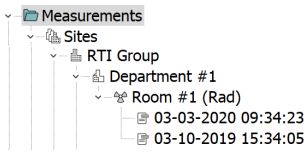
Measurements are saved in Ocean's database. Depending on the license level, measurements can be saved in two different "places":



- In a the "Folders section"
- In a room that belong to a specific site (only available if you have license level PROFESSIONAL)

Folders
Here you can create your own folder structure and save and organize your measurements.

Sites (only license level PROFESSIONAL)

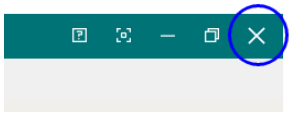


Here is a fixed structure where a site has a "Facility", the facility has one or more "Departments" and each department has one or more rooms where measured data can be saved.

The symbol shows that it is a Quick Check measurement.

Close Quick Check

To close and quit Quick Check in two different ways:



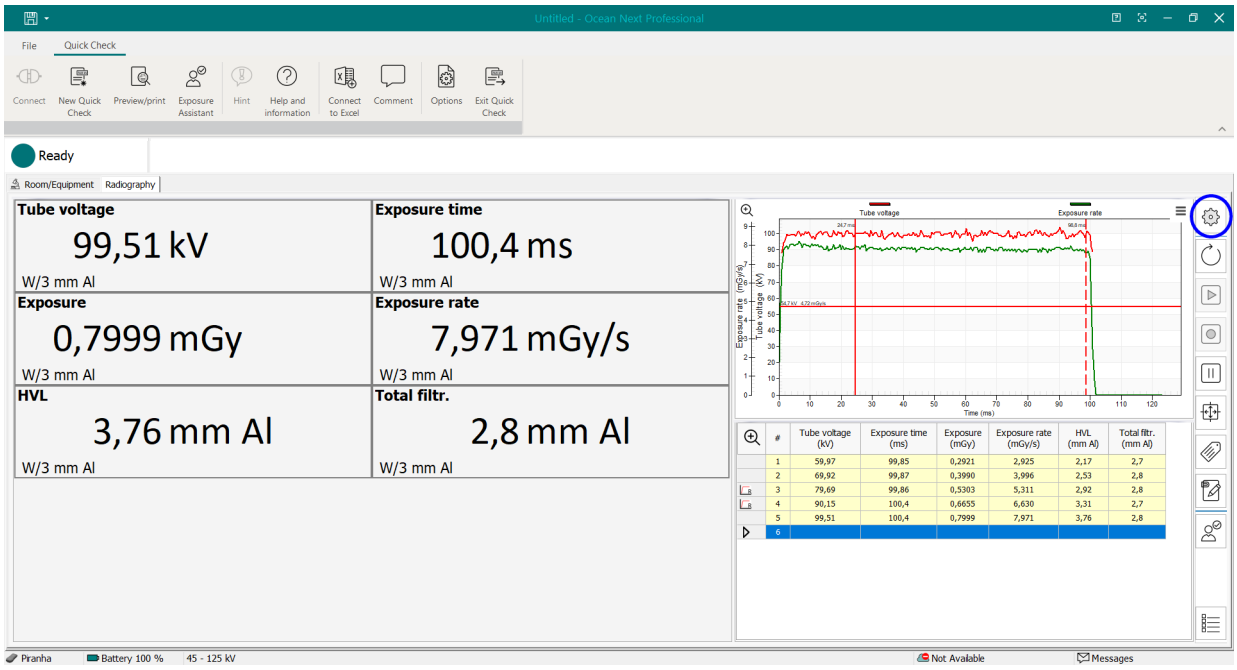
Quit the entire application by clicking in the upper right corner of the "application window".

Click on the **Exit Quick Check** button to quit and return to the Backstage.

By default, Quick Check is not asking you to save when you exit Quick Check or starts a new measurement. This can be changed in Options, read more in the topic Quick Check Options.

6.3 Meter and Probe Settings

Mako, Piranha, Cobia and the Scatter Probe have slightly different meter settings but the way you access and change them is the same. Quick Check will recognize which meter you use and automatically adapt to it. To access the meter settings, click on the **Settings** button on the toolbar on the right side:



Mako - read more in the topic Mako Settings.

Piranha - read more in the topic Piranha Settings.

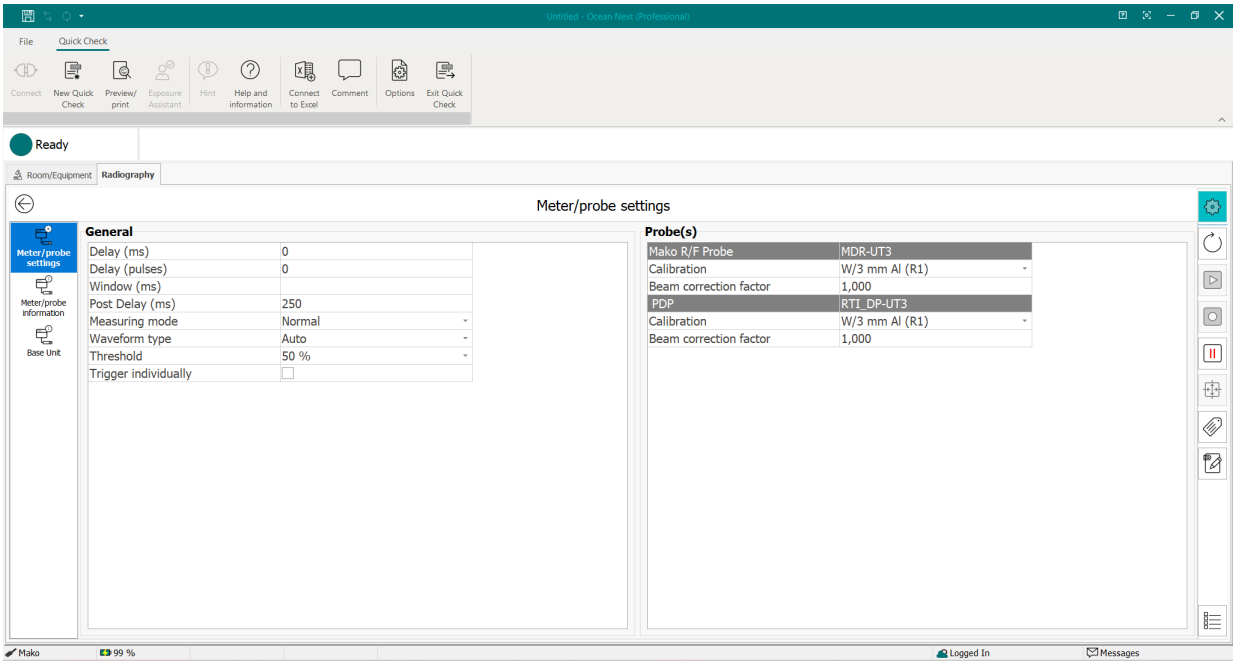
Cobia - read more in the topic Cobia Settings.

Scatter Probe - read more in the topic Scatter Probe Settings.

6.3.1 Mako Settings

When you click on the **Settings** button, the following is shown (in this example the Mako R/F Probe and a Legacy Module iwith a RTI Dose Probe are used).

On the left side is all "global" meter settings specified, on the right side are all settings that are specific for used probes:



Here you can change the meter settings. If an external probe is used, its settings are also shown here. Return to the display panel by clicking the **Back** button or the **Settings** button again.

The following meter settings are available for Mako in Quick Check and Test View:

General settings

Meter setting	Description and use
Delay (ms)	Add a delay after the detection of trig before measurement of kVp starts. This will delay measurements with Mako R/F, Mako Mammo and Mako Dental probe, it doesn't affect parameters measured with other probes. Use this if you want to specify the delay in "ms".
Delay (pulses)	Add a delay after the detection of trig before measurement of kVp starts. This will delay measurements with Mako R/F, Mako Mammo and Mako Dental probe, it doesn't affect parameters measured with other probes. Use this if you want to specify the delay in "pulses". This setting overrides the "time delay" if both are set.
Window	If a time is specified, kVp is measured during the window time (starts after the delay)
Post delay	This is the time the meter waits after trig off before it assumes that the exposure is finished. The post delay must be set to a time longer than any dead time in the radiation.
Measuring mode	You can select between Normal, Timed or Free run Normal =use this measuring mode for exposures and fluoroscopy Timed = meter measures during a time you specify Free run = meter measures continuously without use of any trig levels (for more information see table below)
Measurement time (Timed mode only)	Measuring time for Timed mode. Only shown when Timed mode is used.
Waveform type	Only available for the Mako R/F probe with a special selection for AMX-4. In all other cases, "Auto" is used.
Threshold (%)	This is the level used for the time measurement. You can use this if you want for example to avoid pre-pulses to be included in the exposure time.

Probe settings

Probe settings can look slightly different for different probes.

Probe settings	Description and use
Calibration	Calibration used for the probe
For R/F, dental: **Added filtration (External)**	The filtration used the external RTI Dose Probe to do energy compensation. **IMPORTANT**: The filtration used for energy compensation is the sum of "Total Inherent Filtration" from the Room/Equipment page plus "Added filtration".
For Mammography: **Added filtration (External)**	Added filtration used for the external RTI Dose Probe do do energy compensation **IMPORTANT**: The filtration used for energy compensation is the sum of "Compression paddle thickness" from the Room/Equipment page plus "Added filtration". .
Beam Correction factor (External)	General (user-defined) correction factor used for all exposure related parameters measured with the external detector.
Temperature (External)	If the Ion Chamber Module is used with an ion chamber, temperature and pressure can be specified to perform TP-correction.
Pressure (External)	If the Ion Chamber Module is used with an ion chamber, temperature and pressure can be specified to perform TP-correction.

How to use the different calibrations available with the Mako R/F Probe, Mako Dental Probe and the Mako Mammo Probe.

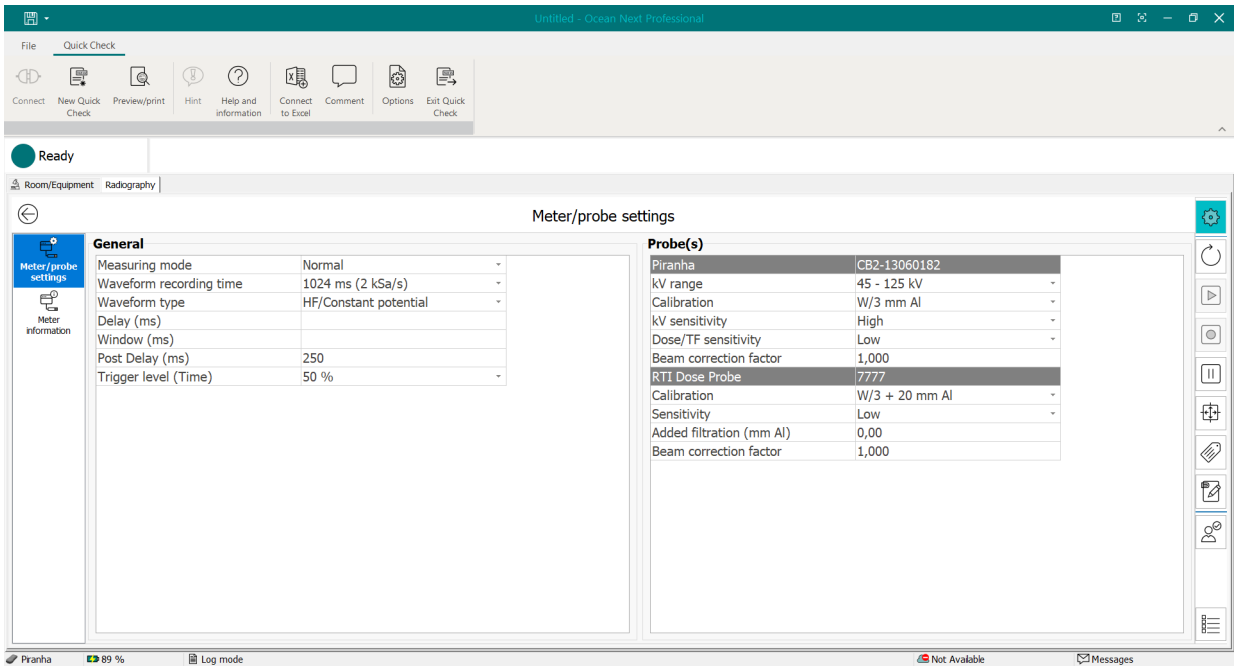
Code	Calibration	Usage
R1 C1	**W/3 mm Al**	General radiography and fluoroscopy, dental . This calibration is suitable for the following CT: General CT, GECT 7°/10°/10.5° anode angle, GE Cardiographe, Siemens (Athlon/Vectron)
C3	**Siemens (Straton)**	Suitable for Siemens CT with Straton tube
C5	**Aquillion**	Suitable for Canon/Toshiba Aquillion
M1	**Mo/30 µm Mo**	General mammography
M3	**Mo/25 µm Rh**	General mammography
M4	**Rh/25 µm Rh**	General mammography
M5	**Rh/1 mm Al**	General mammography
M6	**W/50 µm Rh**	General mammography
M8	**Mo/1 mm Al**	General mammography
M10	**W/50 µm Ag**	General mammography
M11	**W/75 µm Ag**	General mammography
M15	**W/0.70 mm Al**	General mammography
M18	**W/0.30 mm Cu**	General mammography
M22	**Rh/30 µm Ag (GE HC)**	General mammography
M24	**Mo/0.25 mm Cu (GE HC)**	General mammography
M25	**Rh/0.25 mm Cu (GE HC)**	General mammography
M30	**W/1 mm Ti**	General mammography
M31	**W/60 µm Rh**	General mammography

There are three different measuring modes available using the Piranha. They are as follows:

Measuring mode	Description and use
Normal	The Normal mode is used for short and long (fluoro) exposures. In this mode, your meter will automatically sense if there is a signal and when it is above a certain trigger level. If the exposure is long, the displays/grid will be updated with new data every 2 seconds. If the exposure is short, the results are displayed as soon as the trigger is off.
Free run	The free run mode has no trigger level. As soon as the meter is told to begin measuring, it starts to measure even if there is no signal. This measuring mode is useful when the signal you want to measure is very low. Free run is recommended for light measurements, especially when measuring "ambient" light (when no shutter is present).
Timed	The Timed mode setting measures during a pre-defined time period. Measurements in Timed mode must be started manually. This measuring mode is very useful when you want to measure a very low signal. You can use the "very high" sensitivity setting in Timed mode and it will further improve the meter's capability to measure very low signals.

6.3.2 Piranha Settings

When you click on the **Settings** button, the following is shown (in this example ia also an external dose probe used):



Here you can change the meter settings. If an external probe is used, its settings are also shown here. Return to the display panel by clicking the **Back** button or the **Settings** button again.

The following meter settings are available for Piranha in Quick Check:

Meter setting	Description and use
Delay	Add a delay after the detection of trig before measurement of kVp starts. This will delay the kVp measurement, it doesn't affect dose, mAs or time measurements.
Window	If a time is specified, kVp is measured during the window time (starts after the delay)
Post delay	This is the time the meter waits after trig off before it assumes that the exposure is finished. The post delay must be set to a time longer than any dead time in the radiation.
kV range	Current kV range. You need to change this for radiography/fluoroscopy and CT, mammography and dental have only one range.

Meter setting	Description and use
Calibration	Available calibrations for the internal (kVp and exposure) used. See table below that describes usage of the different calibrations.
kV sensitivity	Sensitivity setting for the kVp detector (internal detector). Hi = High sensitivity - for low dose rate Lo = Low sensitivity - for high dose rate
Dose/TF sensitivity	Sensitivity setting for the dose and total filtration measurement (internal detector). Hi = High sensitivity - for low dose rate Lo = Low sensitivity - for high dose rate
Beam Correction factor	General (user-defined) correction factor used for all exposure related parameters measured with the internal detector.
Measuring mode	You can select between Normal, Timed or Free run Normal =use this measuring mode for exposures and fluoroscopy Timed = meter measures during a time you specify Free run = meter measures continuously without use of any trig levels (for more information see table below)
Measurement time (Timed mode only)	Measuring time when Timed mode is used.
Waveform recording time	Select the waveform recording time. Use the shortest time to see details in the waveform. If you use a longer time, you lose details in the waveform. This setting doesn't influence on the accuracy.
Waveform type	This is the waveform type for the X-ray generator. It is normally HF/DC. Sometimes for older X-ray units and for dental you must use 1-phase. Be careful to select the correct waveform type for maximum accuracy. Note that there is a special selection for AMX-4.
For mammography: **Added filtration**	Added filtration used for the internal detector do do energy compensation and kV compensation.
Trigger level (time)	This is the level used for the time measurement. You can use this if you want for example to avoid pre-pulses to be included in the exposure time.

External probe settings	Description and use
Calibration (External)	Calibration for the external probe
Sensitivity (External)	Sensitivity setting for the external probe Hi = High sensitivity - for low signals Lo = Low sensitivity - for high signals
For R/F, dental: **Added filtration (External)**	The filtration used the external RTI Dose Probe to do energy compensation. **IMPORTANT**: The filtration used for energy compensation is the sum of "Total Inherent Filtration" from the Room/Equipment page plus "Added filtration".
For Mammography: **Added filtration (External)**	Added filtration used for the external RTI Dose Probe do do energy compensation **IMPORTANT**: The filtration used for energy compensation is the sum of "Compression paddle thickness" from the Room/Equipment page plus "Added filtration". .
Beam Correction factor (External)	General (user-defined) correction factor used for all exposure related parameters measured with the external detector.
Temperature (External)	If the Chamber Adaper is used with an ion chamber, temperature and pressure can be specified to perform TP-correction.

External probe settings	Description and use
Pressure (External)	If the Chamber Adaper is used with an ion chamber, temperature and pressure can be specified to perform TP-correction.

How to use the different calibrations:

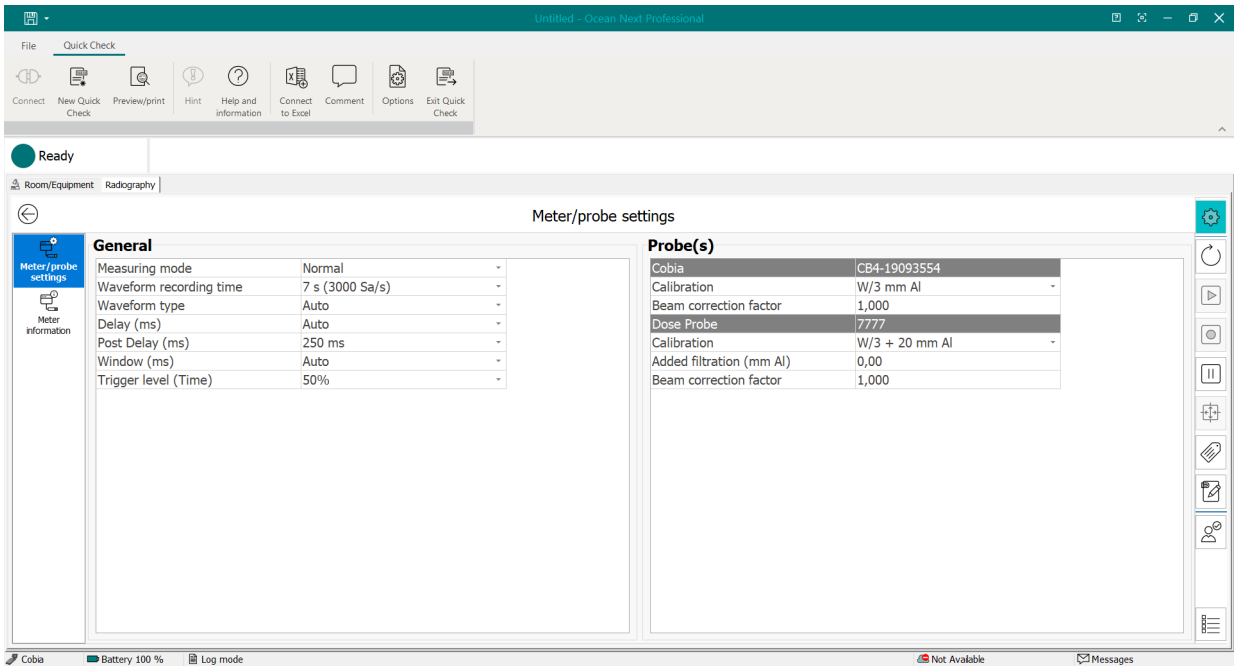
Code	Calibration	Usage
R1 C1	**W/3 mm Al**	General radiography, fluoroscopy, dental and CT
C3	**Straton (Siem1)**	Suitable for Siemens CT with Straton tube
C4	**GECT (7°)**	Suitable for GE CT tubes with a 7° anode angle as well as for other manufactures CT tubes and replacement tubes with a 7° anode angle
C5	**Aquillion 64-**	Suitable for Toshiba Aquillion 64-320 CT
C6	**GECT (10.5°)**	Suitable for GE CT tubes with a 10.5° anode angle
C7	**GECT (Cardiographe)**	Suitable for GE CT Cardiographe
M1	**Mo/30 µm Mo**	General mammography
M3	**Mo/25 µm Rh**	General mammography
M4	**Rh/25 µm Rh**	General mammography
M6	**W/50 µm Rh**	General mammography - suitable for Hologic Selenia Dimensions and Fujifilm Amulet
M7	**W/0.50 mm Al**	General mammography - suitable for Philips MicroDose (Sectra)
M8	**Mo/1 mm Al**	General mammography
M10	**W/50 µm Ag**	General mammography - suitable for Hologic Selenia Dimensions and Fujifilm Amulet
M11	**W/75 µm Ag**	General mammography
M12	**W/50 µm Rh (Gio)**	Suitable for Giotto Mammography
M15	**W/0.70 mm Al**	General mammography - suitable for Hologic Selenia Dimensions and Fujifilm Amulet
M16	**W/50 µm Ag (Sel)**	Suitable for Hologic Selenia
M17	**W/50 µm Rh (Sel)**	Suitable for Hologic Selenia
M18	**W/0.30 mm Cu**	General mammography - Suitable for Hologic Selenia Dimensions and Fujifilm Innovality/Cristalle
M19	**W/0.70 mm Al (Inno/Crist)**	Suitable for Fujifilm Innovality/Cristalle
M20	**W/50 µm Rh (Inno/Crist)**	Suitable for Fujifilm Innovality/Cristalle
M21	**Mo/25 µm Rh (Sel)**	Suitable for Hologic Selenia
M22	**Rh/30 µm Ag (GE HC)**	Suitable for GE Senographe Prestina
M23	**Rh/30 µm Ag IQST (GE HC)**	Suitable for GE Senographe Prestina
M24	**Mo/0.25 mm Cu (GE HC)**	Suitable for GE Senographe Prestina
M25	**Rh/0.25 mm Cu (GE HC)**	Suitable for GE Senographe Prestina
M26	**Mo/30 µm Mo (GE HC)**	Suitable for GE Senographe Prestina
M27	**Affirm Prone W/Ag**	Suitable for Hologic Affirm Prone
M28	**Affirm Prone W/Al**	Suitable for Hologic Affirm Prone

There are three different measuring modes available using the Piranha. They are as follows:

Measuring mode	Description and use
Normal	The Normal mode is used for short and long (fluoro) exposures. In this mode, your meter will automatically sense if there is a signal and when it is above a certain trigger level. If the exposure is long, the displays/grid will be updated with new data every 2 seconds. If the exposure is short, the results are displayed as soon as the trigger is off.
Free run	The free run mode has no trigger level. As soon as the meter is told to begin measuring, it starts to measure even if there is no signal. This measuring mode is useful when the signal you want to measure is very low. Free run is recommended for light measurements, especially when measuring "ambient" light (when no shutter is present).
Timed	The Timed mode setting measures during a pre-defined time period. Measurements in Timed mode must be started manually. This measuring mode is very useful when you want to measure a very low signal. You can use the "very high" sensitivity setting in Timed mode and it will further improve the meter's capability to measure very low signals.

6.3.3 Cobia Settings

When you click on the **Settings** button, the following is shown (in this example ia also an external dose probe used):



Here you can change the meter settings. If an external probe is used, its settings are also shown here. Return to the display panel by clicking the **Back** button or the **Settings** button again.

The following meter settings are available for Cobia in Quick Check:

Meter setting	Description and use
Delay	Add a delay after the detection of trig before measurement of kVp starts. This will delay the kVp measurement, it doesn't affect dose, mAs or time measurements.
Window	If a time is specified, kVp is measured during the window time (starts after the delay)
Post delay	This is the time the meter waits after trig off before it assumes that the exposure is finished. The post delay must be set to a time longer than any dead time in the radiation.
Calibration	Calibration for the internal probe.

Meter setting	Description and use
Beam Correction factor	General (user-defined) correction factor used for all exposure related parameters measured with the internal detector.
Measuring mode	You can select between Normal or Timed Normal =use this measuring mode for exposures and fluoroscopy Timed = meter measures during a time you specify (for more information see table below)
Measurement time (Timed mode only)	Measuring time when Timed mode is used.
Waveform type	Select "Auto" for all types except AMX-4.
Waveform recording time	Select the waveform recording time. Use the shortest time to see details in the waveform. If you use a longer time, you lose details in the waveform. This setting doesn't influence on the accuracy.
Trigger level (time)	This is the level used for the time measurement. You can use this if you want for example to avoid pre-pulses to be included in the exposure time.

External probe setting	Description and use
Calibration (External)	Calibration for the external probe.
For R/F, dental **Added filtration (External)**	The filtration used the external RTI Dose Probe to do energy compensation. **IMPORTANT**: The filtration used for energy compensation is the sum of "Total Inherent Filtration" from the Room/Equipment page plus "Added filtration".
Beam Correction factor (External)	General (user-defined) correction factor used for all exposure related parameters measured with the external detector.
Temperature (External)	If the Chamber Adaper is used with an ion chamber, temperature and pressure can be specified to perform TP-correction.
Pressure (External)	If the Chamber Adaper is used with an ion chamber, temperature and pressure can be specified to perform TP-correction.

How to use the different calibrations (only one calibration is available for Cobia):

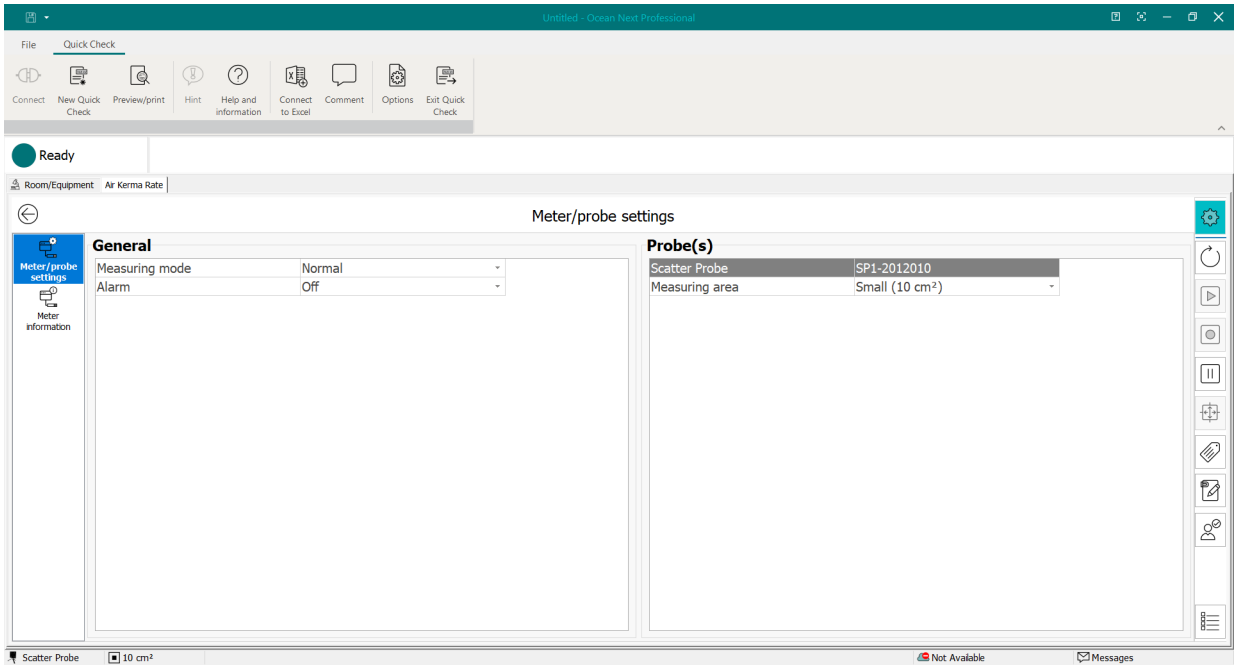
Code	Calibration	Usage
R1	**W/3 mm Al**	General radiography, fluoroscopy and dental

There are two different measuring modes available using the Cobia. They are as follows:

Measuring mode	Description and use
Normal	The Normal mode is used for short and long (fluoro) exposures. In this mode, your meter will automatically sense if there is a signal and when it is above a certain trigger level. If the exposure is long, the displays/grid will be updated with new data every 2 seconds. If the exposure is short, the results are displayed as soon as the trigger is off.
Timed	The Timed mode setting measures during a pre-defined time period. Measurements in Timed mode must be started manually. This measuring mode is very useful when you want to measure a very low signal. You can use the "very high" sensitivity setting in Timed mode and it will further improve the meter's capability to measure very low signals.

6.3.4 Scatter Probe Settings

When you click on the **Settings** button, the following is shown:



Here you can change the meter settings. Return to the display panel by clicking the **Back** button or the **Settings** button again.

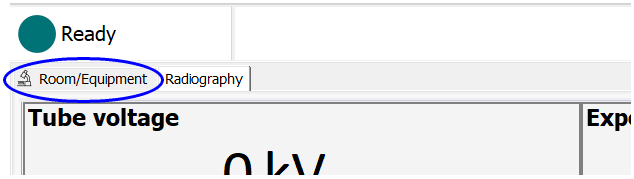
The following meter settings are available for the Scatter Probe in Quick Check:

Meter setting	Description and use
Measuring mode	You can select between Normal, Timed or Free run. Normal =use this measuring mode for exposures and fluoroscopy. Timed = meter measures during a time you specify. (for more information see table below)
Measurement time (Timed mode only)	Measuring time when Timed mode is used.
Alarm	Select OFF or an alarm level for Air Kerma or H*(10). When the alarm level is reached, an audio warning will be generated from the Scatter Probe.
Alarm level and unit (Only when Alarm is ON)	Alarm level can be set from 0.01 to 25 mGy/h or 0.02 to 50 mSv/h, respectively.

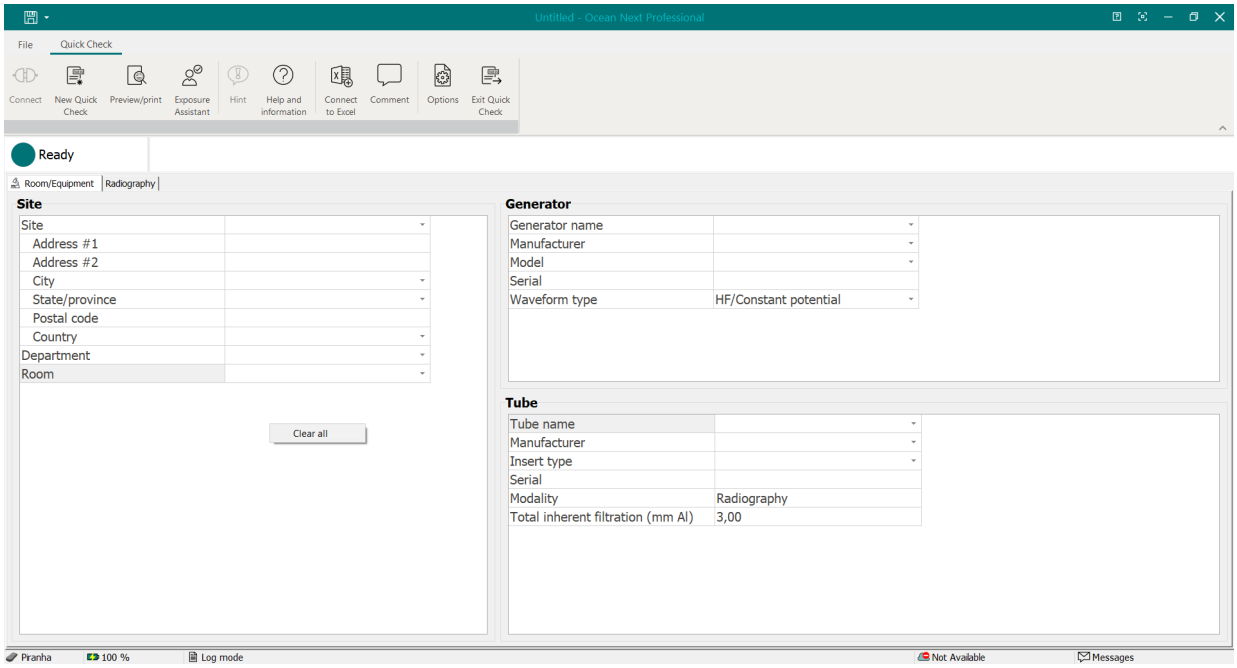
Probe setting	Description and use
Measuring area	Select Large=100 cm^2 or Small=10 cm^2

6.4 Room and equipment information

You can include information about site, generator and tube with your measurement. This is done on the **Room/Equipment** tab.



When selecting this page, the following is shown:



Here you can fill in the information. Depending on the license level this can be done i different ways:

QUICK and **ADVANTAGE** Fill in free text in the fields

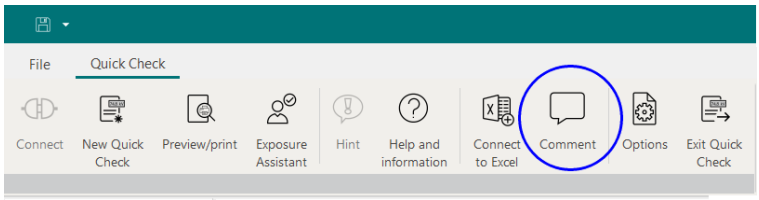
PROFESSIONAL Fill in free text in the fields or use "quick search" in the database. Example: You are in a room that you already have in your database and want to enter the information. Start to type the room name, Quick Check will suggest matching room names. Select the room and all other information is automatically filled in. If a fieled is not filled in, it depends either on missing information or there is no unique information (the room has for example two generators). Place the cursor in the blank field and the available alternatives are shown.

Note: Once you have auto-filled, you must do "clear all" to be able to auto-fill again.

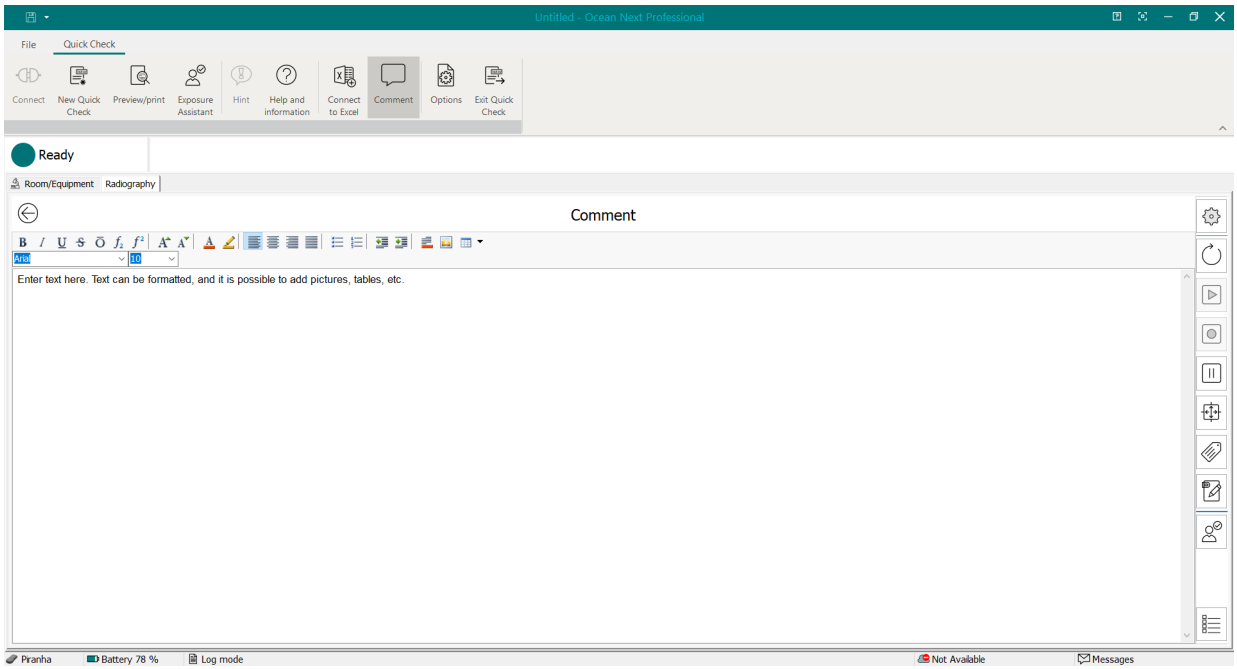
When you are ready, click on the measuring tab, in this case "Radiography", to go back to the display panel.

6.5 Comment

It is possible to add a comment that will be included in the printed report. Click on the Comment button on the ribbon bar:



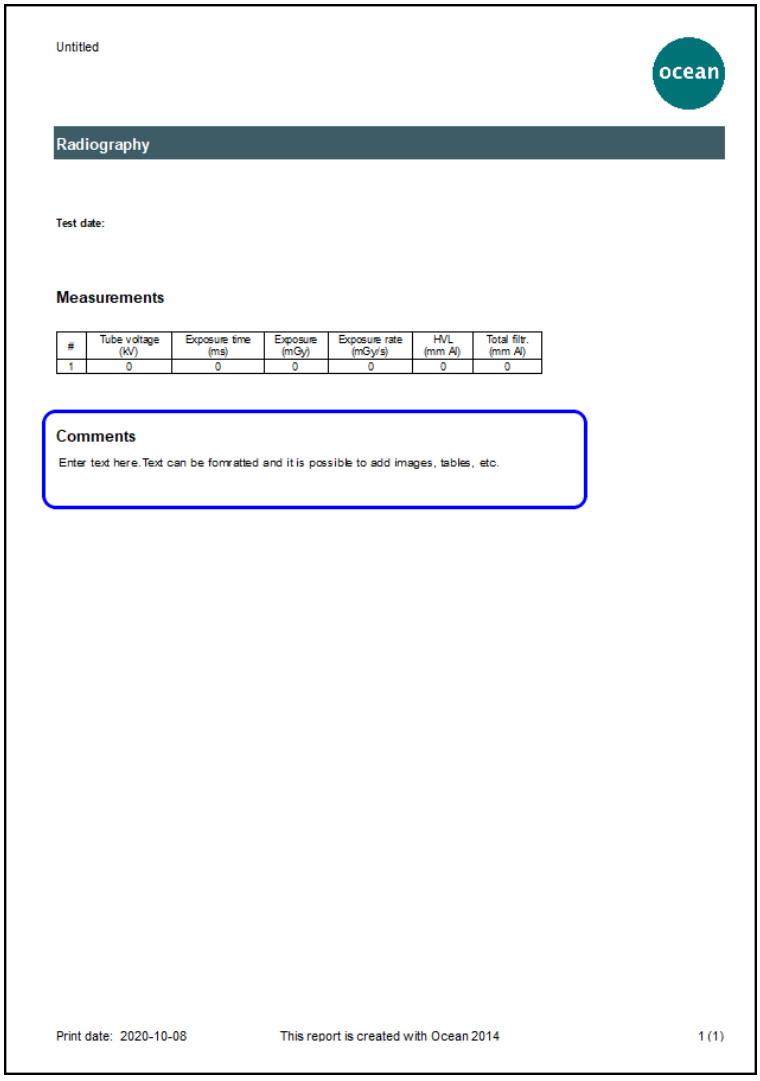
The comment page is opened:



Enter the text, all normal functions are available such as, formatting, tables, include images, fonts, etc.

To go back to the display panel, click on the **Back** button or the **Comment** button again. If you want to see or modify the comment again, click on the **Comment** button.

The comment will be automatically included in the printed report. Read more about the report in the topic Preview and Print.



Untitled

ocean

Radiography

Test date:

Measurements

#	Tube voltage (kV)	Exposure time (ms)	Exposure (mGy)	Exposure rate (mGy/s)	HVL (mm Al)	Total filtr. (mm Al)
1	0	0	0	0	0	0

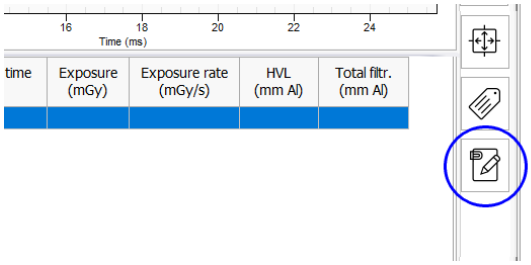
Comments

Enter text here. Text can be formatted and it is possible to add images, tables, etc.

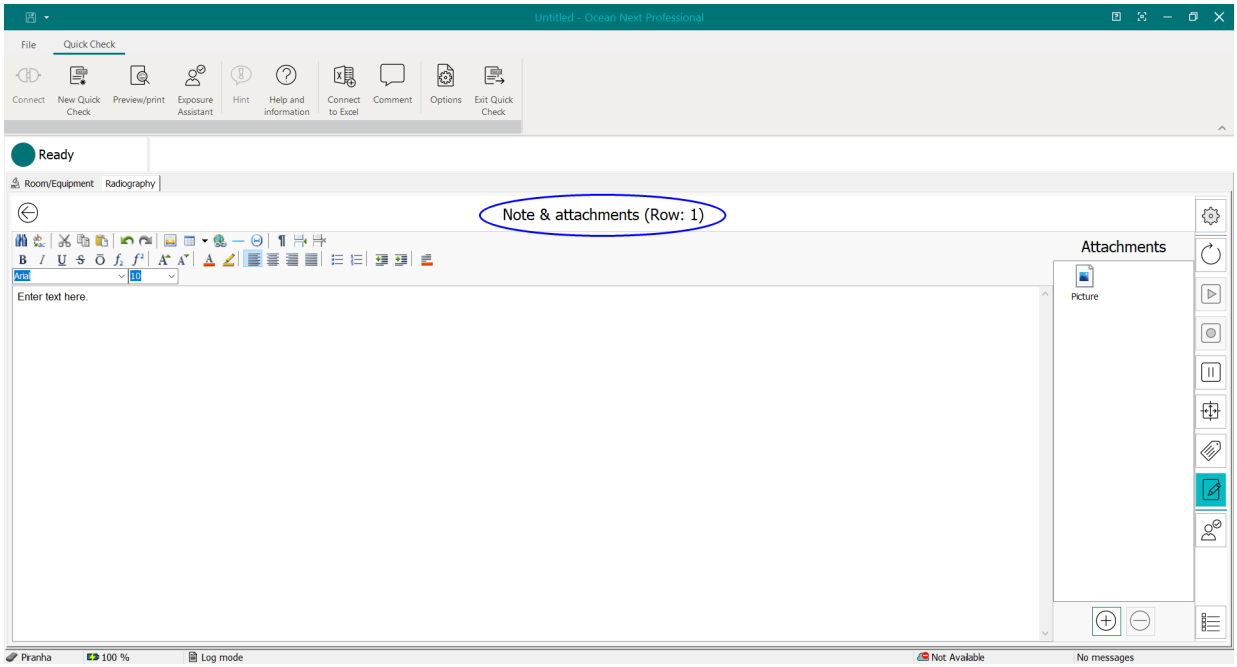
Print date: 2020-10-08 This report is created with Ocean 2014 1 (1)

6.6 Note and attachment

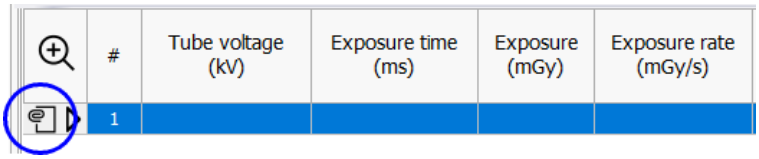
It is possible to add a note and/or an attachment to each exposure. Click on the **Note and Attachment** button on the toolbar on the right side:



The Note and Attachment page is shown:



Here you can add a note and/or attach a file realted to the row indicated at the top. It is possible to use drag-and-drop to attach files or click on the **Plus** button. It is indicated in the first column when a note and/or attachment is added to a row:



To remove an attachment, select it and click the **Minus** button.

To return to the display panel, click the **Back** button or the **Note and Attachment** button again.

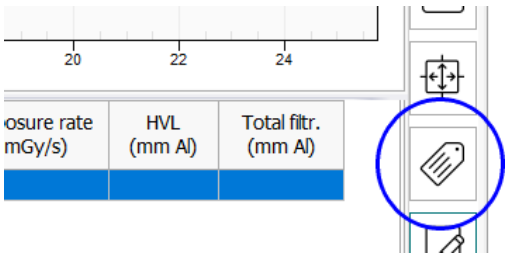
Note: The note and attachment is not included in the printed report.

6.7 Tag

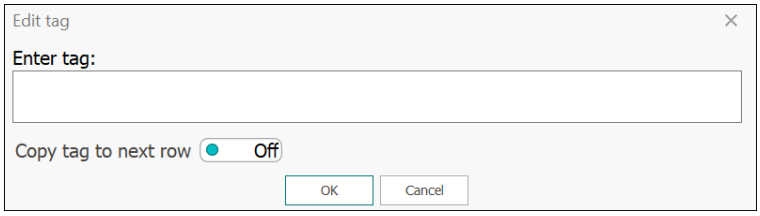
It is possible to tag measured values with an identifier to easily find an exposure in the meter log.

Note!
The meter log is a coming feature that will be available with the RTICloud. With the meter connected, all measured data will stored automatically in a "meter log".

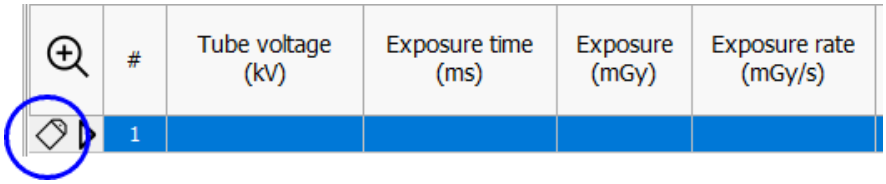
To add a tag, click on the **Tag** button on the toolbar on the right side:



Enter the tag in the text field:

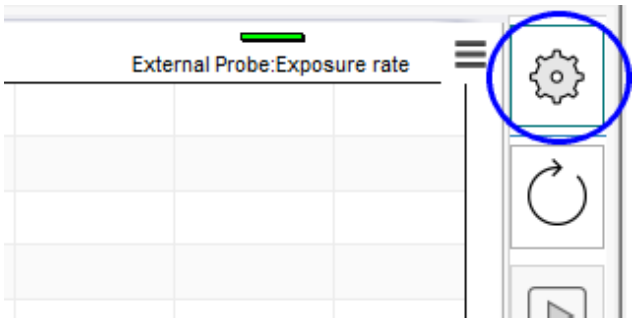


You can chose if you want the tag to be automatically copied to the next exposure or just attached to current exposure. If you turn on "copy to next row", the tag is attached to every exposure until you turn it off or until you start a new Quick Check measurement. Click **Ok** to activate the tag, or **Cancel** to skip any action. It is indicated in the first column when a tag is added to a row:



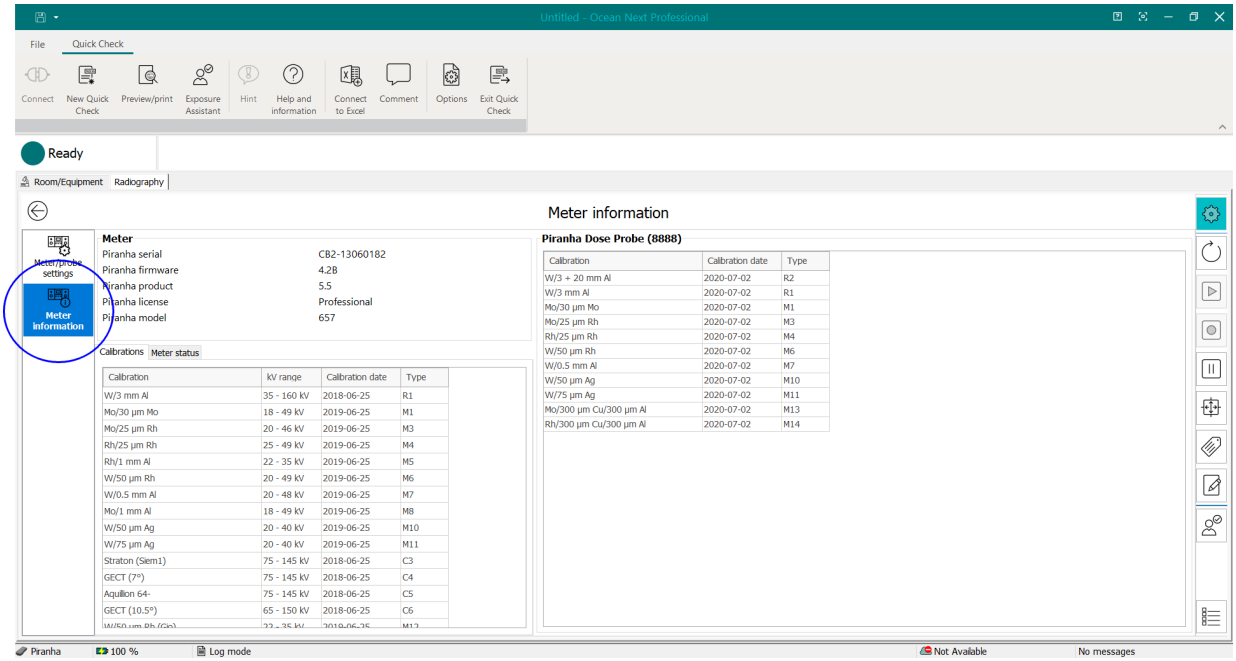
6.8 Meter information

To view the Meter information, click on the **Settings** button on the toolbar on the right side and then the **Meter Information** button on the left side:



The Meter Settings page shows information about currently used meter and external probe(if connected). The picture below shows meter information for Piranha and it is similar for Cobia and the Scatter Probe, for Mako see further down:

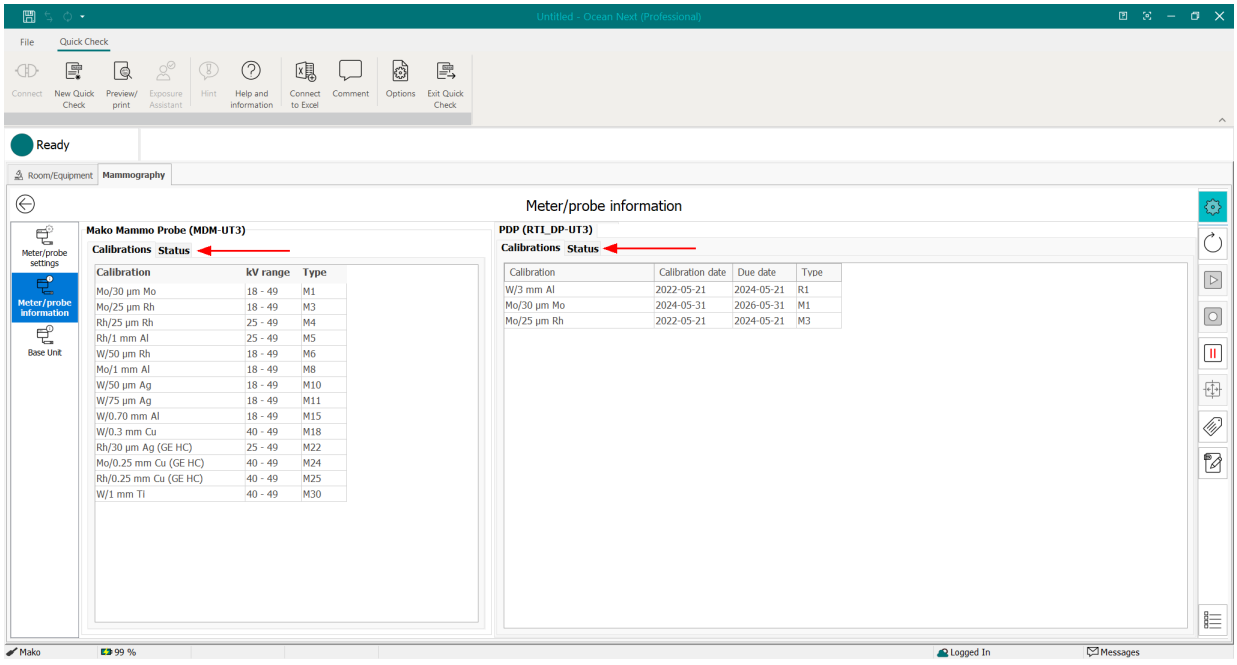
Piranha, Cobia and Scatter Probe



Close the **Meter Information** page by clicking on the **Back** button or on the **Settings** button again.

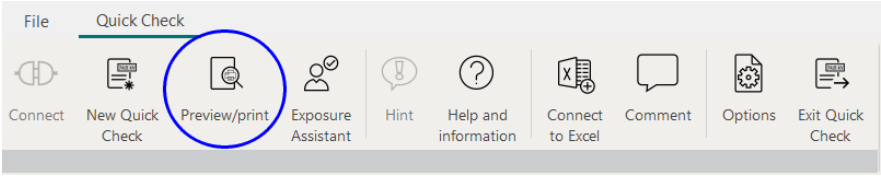
Mako

The Meter Information for Mako has a button for the Base Unit information. The Status tabs provide detailed information about probes and modules:

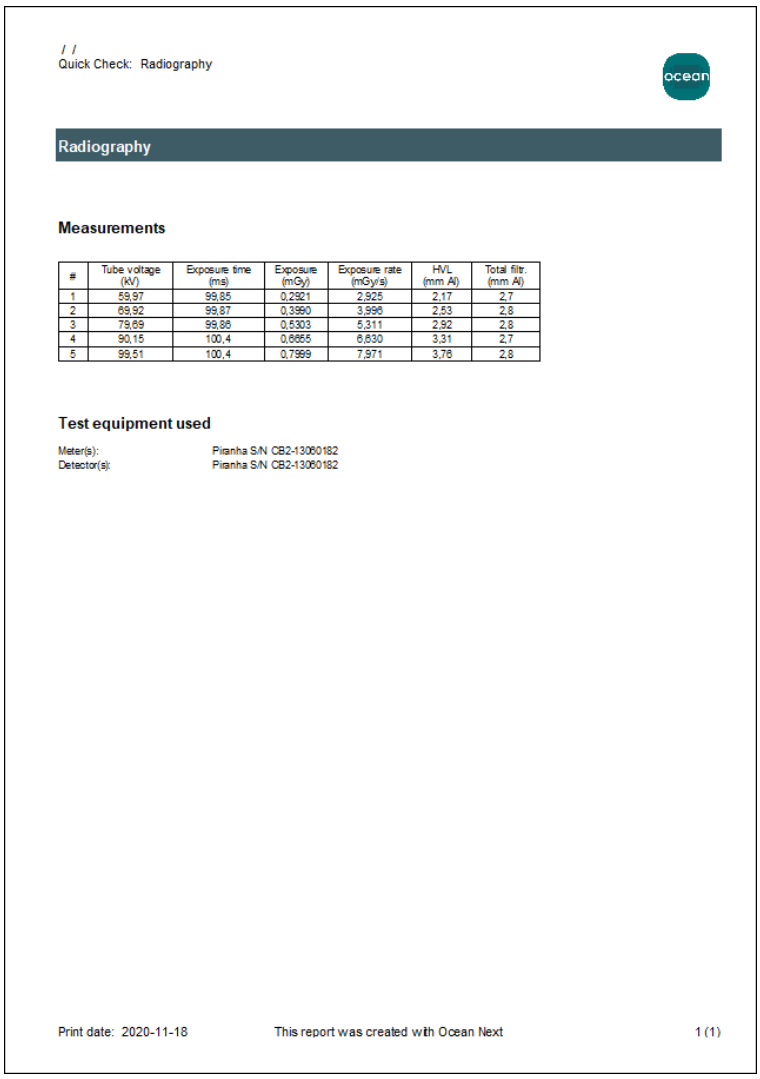


6.9 Preview and print

You can directly print your measured data (or create a PDF file) just click on the **Preview/Print** button on the Quick Check ribbon bar:



A preview of the print-out is shown on the screen:



/ /
Quick Check: Radiography

Radiography

Measurements

#	Tube voltage (kV)	Exposure time (ms)	Exposure (mGy)	Exposure rate (mGy/s)	HVL (mm Al)	Total filtr. (mm Al)
1	59,97	99,85	0,2921	2,925	2,17	2,7
2	69,92	99,87	0,3990	3,996	2,53	2,8
3	79,69	99,86	0,5303	5,311	2,92	2,8
4	90,15	100,4	0,6655	6,630	3,31	2,7
5	99,51	100,4	0,7999	7,971	3,76	2,8

Test equipment used

Meter(s): Piranha S/N CB2-13060182
Detector(s): Piranha S/N CB2-13060182

Print date: 2020-11-18 This report was created with Ocean Next 1 (1)

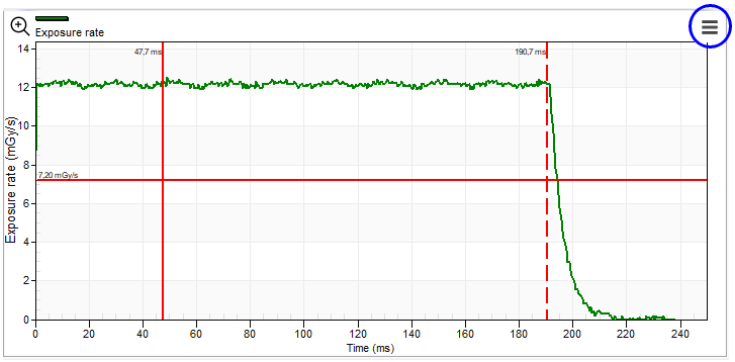
This is the basic print out. You can add more information:

- A comment, see more the topic Comment for how to add. The comment is automatically included in the report.
- Site and equipment information, read more in topic Room and Equipment Information.
- One or more waveforms.

How to add waveforms

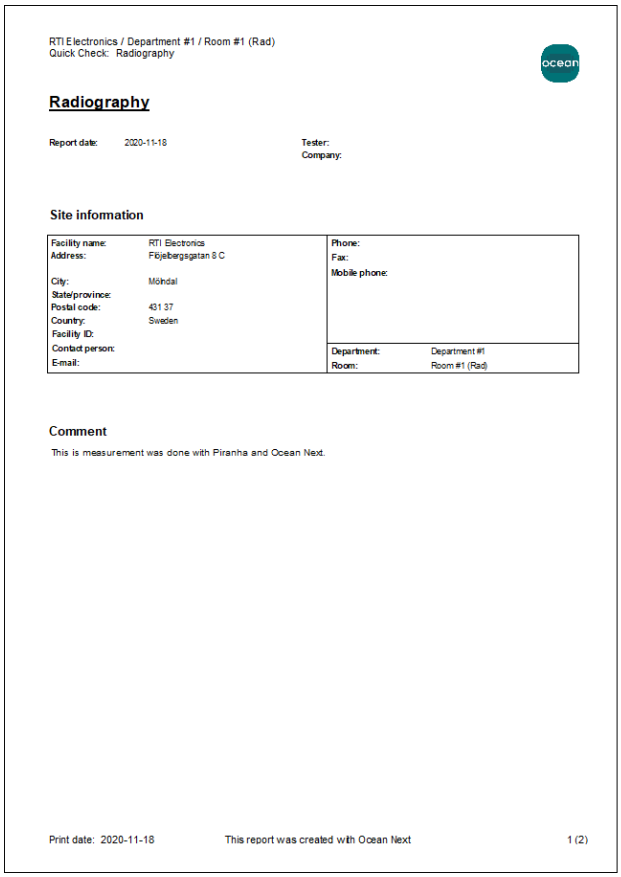
By default no waveform are included in the report. To include waveform in the report:

1. In the grid, select the row with the waveform you want to include.
2. Click on the Menu button in the upper right corner of the waveform panel.



3. Click on "Include waveform in report".
4. Repeat for more rows in the grid if you want to include more waveforms.

The picture below shows the report when also site/equipment information and a comment have been added as well. To show it, click on the **Preview/Print** button on the ribbon bar:



RTI Electronics / Department #1 / Room #1 (Rad)
Quick Check: Radiography

Radiography

Report date: 2020-11-18 Tester: Company:

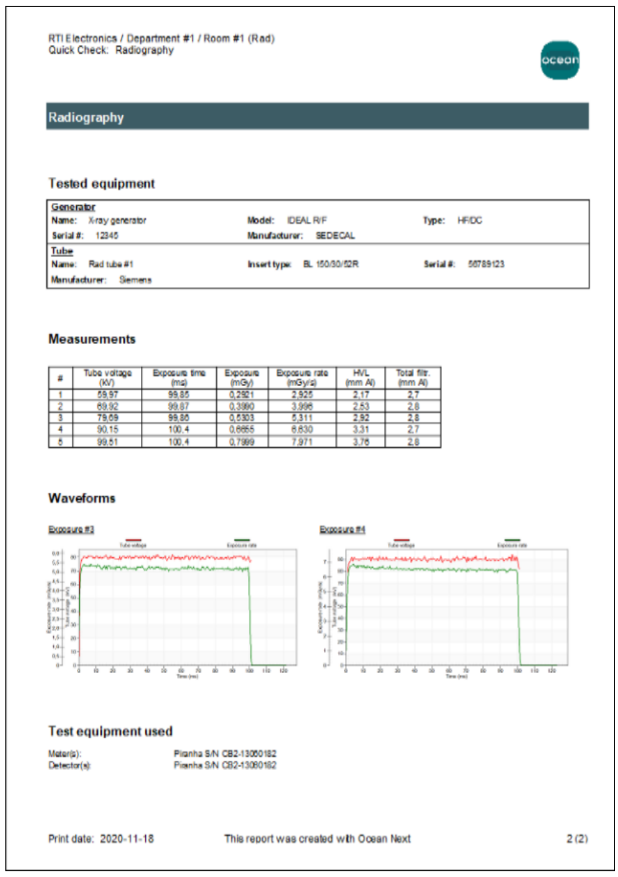
Site information

Facility name:	RTI Electronics	Phone:	
Address:	Fibjelbergsgatan 8 C	Fax:	
		Mobile phone:	
City:	Mölndal		
State/province:			
Postal code:	431 37		
Country:	Sweden		
Facility ID:			
Contact person:		Department:	Department #1
E-mail:		Room:	Room #1 (Rad)

Comment

This is measurement was done with Piranha and Ocean Next.

Print date: 2020-11-18 This report was created with Ocean Next 1 (2)



RTI Electronics / Department #1 / Room #1 (Rad)
Quick Check: Radiography

Radiography

Tested equipment

Generator					
Name:	Xray generator	Model:	IDEAL R/F	Type:	HF/DC
Serial #:	12345	Manufacturer:	SEDECAL		
Tube					
Name:	Rad tube #1	Insert type:	BL 150/30/52R	Serial #:	56789123
Manufacturer:	Siemens				

Measurements

#	Tube voltage (kV)	Exposure time (ms)	Exposure (mGy)	Exposure rate (mGy/s)	HVL (mm Al)	Total filtr. (mm Al)
1	59.97	99.85	0.2921	2.925	2.17	2.7
2	69.92	99.87	0.3990	3.996	2.53	2.8
3	79.09	99.85	0.5303	5.311	2.92	2.8
4	90.15	100.4	0.6865	6.630	3.31	2.7
5	99.51	100.4	0.7999	7.971	3.75	2.8

Waveforms

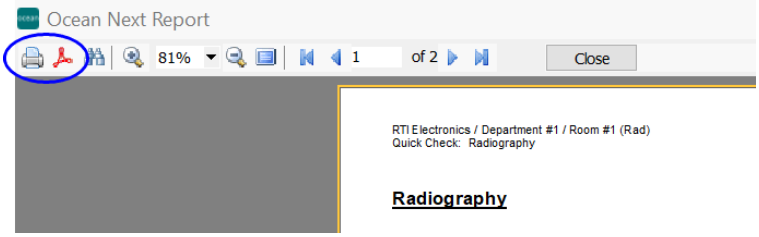
Exposure #3 Exposure #4

Test equipment used

Meter(s): Piranha S/N CB2-13050182
Detector(s): Piranha S/N CB2-13050182

Print date: 2020-11-18 This report was created with Ocean Next 2 (2)

To print on a printer or create a PDF file, click on the **Print** or **PDF** button:

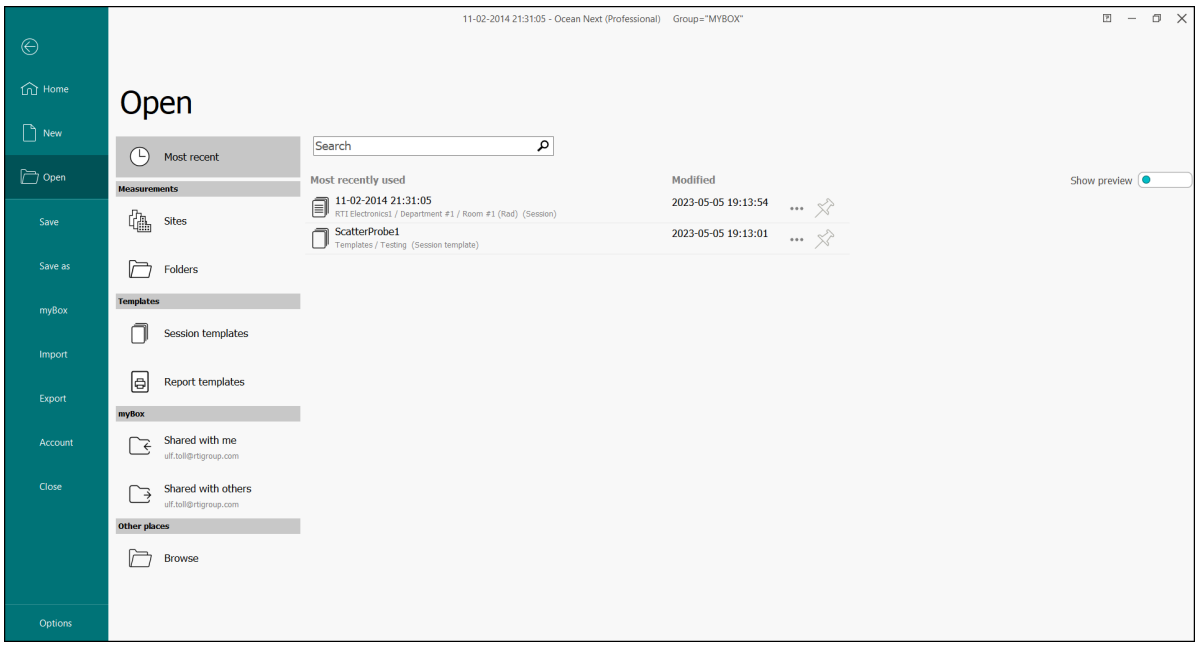


6.10 Open a saved measurement

You can re-open a Quick Check measurement that you have saved to continue to measure, to view it and/or to print it. To just open and view or print you must not have a meter connected, this can be done in off-line mode.

If you intend to continue to measure; make sure that you have the correct meter and required probe connected. To open a saved Quick Check measurement:

1. Select Open from the Backstage:



2. Select the Quick Check measurement you want to open. It is shown with the image: .
3. If not meter is connected, a dialogue is shown; select "Keyboard" here.
4. Quick Check starts and the required measurement is loaded.
5. You can now continue to measure if you have a meter connected. You can also add any other information from the keyboard, such as room/equipment information, add/edit comment and notes, and print.

To close the measurement, exit Quick Check or start a new Quick Check.

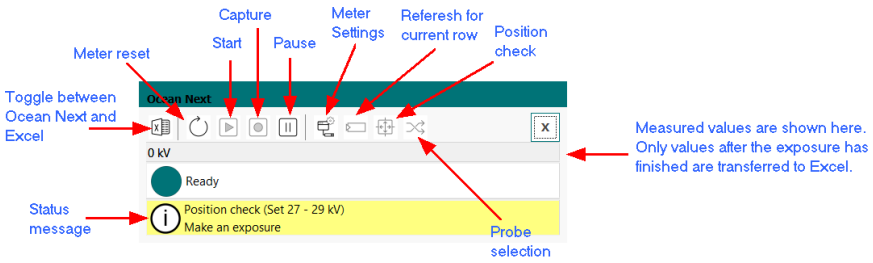
6.11 Transfer data to Excel

You can transfer data from Quick Check to Excel in three (two for the Scatter Probe) different ways:

- Send current measured data to Excel. The data dump starts in active Excel cell, read in the topic Send data to Excel.
- Connect to an Excel workbook. Measured data, are for each exposure, transferred to Excel starting in active cell, read more in topic Connect (Standard mode).
- Connect to an Excel workbook. Measured data, are for each exposure, transferred to Excel starting in active cell. A pre-defined data format is used that is compatible with Excel templates used with Xi and X2 View, read more in topic Connect (Fixed format). (not availalable for the Scatter Probe)

6.11.1 Excel control window

When an Excel workbook is used with Quick Check a small Excel control window is shown to simplify the interaction between Quick Check and Excel. The exact content in the window is depending on mode (send or connect) and/or used detectors.

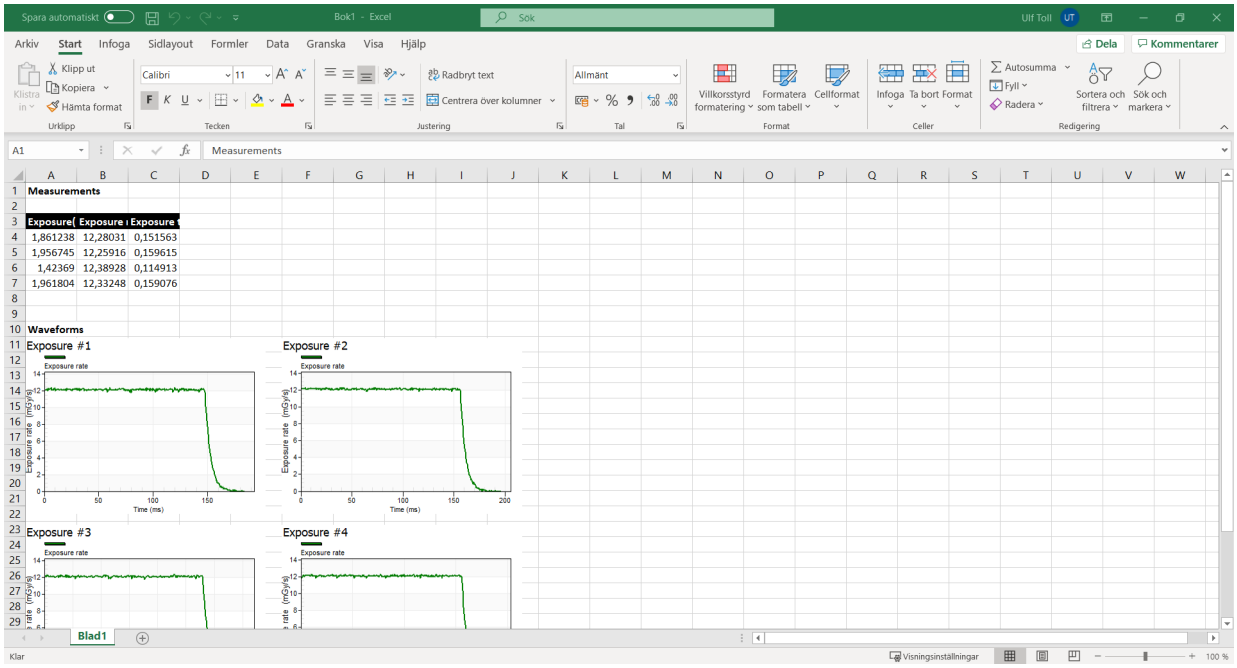


The most common meter settings are available (depending on used detector(s).

To close the Excel connection, click "x" in the upper right corner of the Excel control window. Both the window and the used Excel workbook will be closed. If necessary, you are asked to save the Excel workbook.

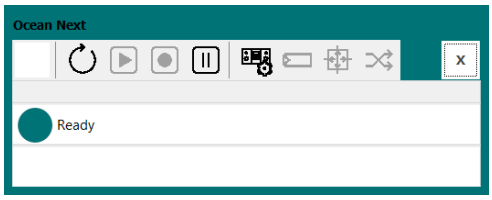
6.11.2 Send data to Excel

In this mode the entire content in the template is dumped to Excel.



This is used when you want dump your current data to Excel. You have a choice to include or exclude waveforms (waveform are exported as pictures).

1. Click on the **Connect to Excel** button: .
2. Select **Send data to workbook**.
3. Next decide if you want waveforms or not. In case you select waveforms, you will be asked about waveform size. The picture above uses "small".
4. Next step is to select which Excel workbook to use:
   - Open a new empty workbook
   - An existing workbook from file
   - A workbook already open on the computer
5. Excel starts and the selected workbook is opened and connected with Quick Check. The Excel control window is opened and shown.



You can change basic meter settings and the left most button is used to switch between Quick Check and Excel, read more in topic Excel control window.

6. You can save your Excel workbook and further process your measured data.

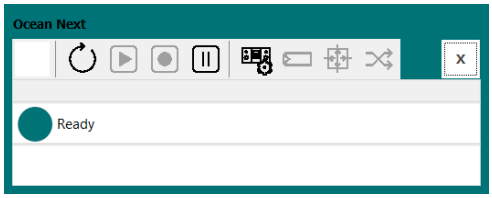
6.11.3 Connect (Standard mode)

When this mode is used, data are transferred to Excel after each exposure. The format is defined by the columns in actual Quick Check. Only numerical values are sent to Excel, no units or waveforms.

To connect to the workbook:

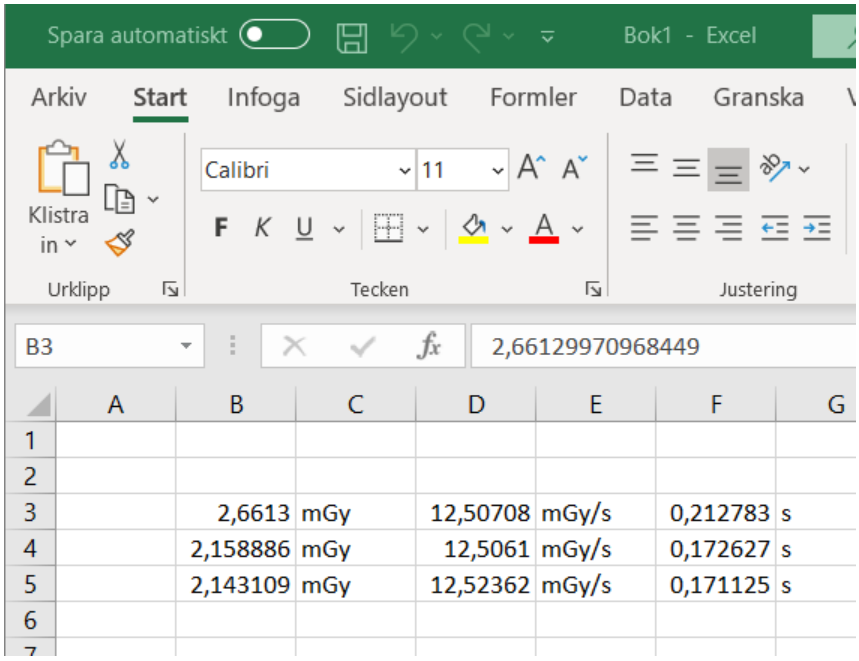
First go to Options in Quick Check and make sure that the checkbox "Fixed format (Excel connect)" is unchecked. This ensures that standard mode is used and data transferred is defined by the actual Quick Check:

1. Start Quick Check and Click on the **Connect to Excel** button: .
2. Select **Connect to workbook**.
3. Next step is to select which Excel workbook to use:
   - Open a new empty workbook
   - An existing workbook from file
   - A workbook already open on the computer
4. Excel starts and loads the workbook you chose and the Excel control window is shown.



You can change basic meter settings and the left most button is used to switch between Quick Check and Excel. Read more in the topic Excel control window.

5. Place the cursor where you want the data from the next exposure to appear, for example in C3.



6. Make some exposures, the value from the first column is put into cell C3, consecutive column values go into consecutive cells on the same workbook row as shown in the picture above.
7. You can save your Excel workbook and further process your measured data.

You can disconnect the Excel workbook by clicking in the "x" in the upper right corner of the Excel control window.

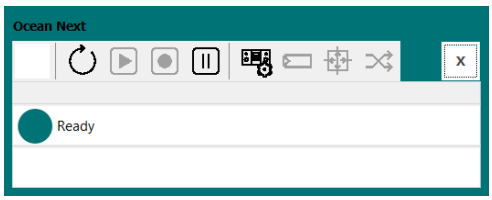
6.11.4 Connect (Fixed format)

When this mode is used, data are transferred to Excel after each exposure. The format is compatible with the format used with Xi and X2 View from RaySafe. Same Excel templates can be used with none or minimal modifications. This mode is only available in Quick Check. It is activated by checking "Fixed format (Excel connect)" on the Option page (in Quick Check). The "Fixed format" is described below. Note that fixed format is not available for the Scatter Probe.

To connect to the workbook:

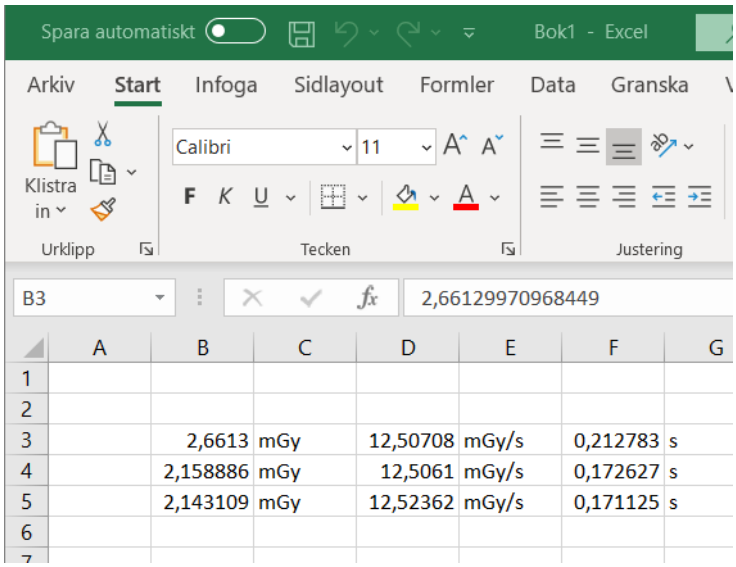
First go to Options in Quick Check and make sure that the checkbox "Fixed format (Excel connect)" is checked:

1. Start Quick Check and Click on the **Connect to Excel** button: .
2. Select **Connect to workbook**.
3. Next step is to select which Excel workbook to use:
   - Open a new empty workbook
   - An existing workbook from file
   - A workbook already open on the computer
4. Excel starts and loads the workbook you chosed and the Excel control window is shown.



You can change basic meter settings and the left most button is used to switch between Quick Check and Excel. Read more in the topic Excel control window.

5. Place the cursor where you want the data from the next exposure to appear, for example in C3.



	A	B	C	D	E	F	G
1							
2							
3		2,6613	mGy	12,50708	mGy/s	0,212783	s
4		2,158886	mGy	12,5061	mGy/s	0,172627	s
5		2,143109	mGy	12,52362	mGy/s	0,171125	s
6							

6. Make some exposures, the value from the first column is put into cell C3, consecutive column values go into consecutive cells on the same workbook row as shown in the picture above.
7. You can save your Excel workbook and further process your measured data.

You can disconnect the Excel workbook by clicking in the "x" in the upper right corner of the Excel control window.

Definition of the fixed format

There are four different detector combinations that each has its own fixed format:

- Multi-detector (internal detector) with an optional external detector
- Only an external radiation detector (Dose Probe, CTDP, T20, Ion chamber of any type)
- Only the Light detector
- Only a mAs probe

Multi-detector (internal detector)

Tube voltage
unit
Dose
unit
Dose rate
unit
Exp. time
unit
Pulses
unit
Empty
Empty
Pulse rate
unit
Dose/pulse
unit
HVL
unit
Tube mAs
unit
Tube mA

unit
TF
unit
Dose (ext.)
unit
Dose rate (ext.)
unit

Units are defined by Default units in Program options in the Backstage (not available in Quick Check).

Only external radiation detector

Dose
unit
Dose rate
unit
Exp. time
unit
Pulses
unit
Empty
Empty
Pulse rate
unit
Dose/pulse
unit

Units are defined by "Default units" in Program options in the Backstage (not available in Quick Check).

Only light detector

Lumunance or Illuminance
unit

Units are defined by "Default units" in Program options in the Backstage (not available in Quick Check).

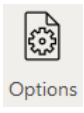
Only mAs probe

Tube mAs
unit
Tube mA
unit
Exp. time
unit

Units are defined by "Default units" set in Program options found on the Backstage Home page.

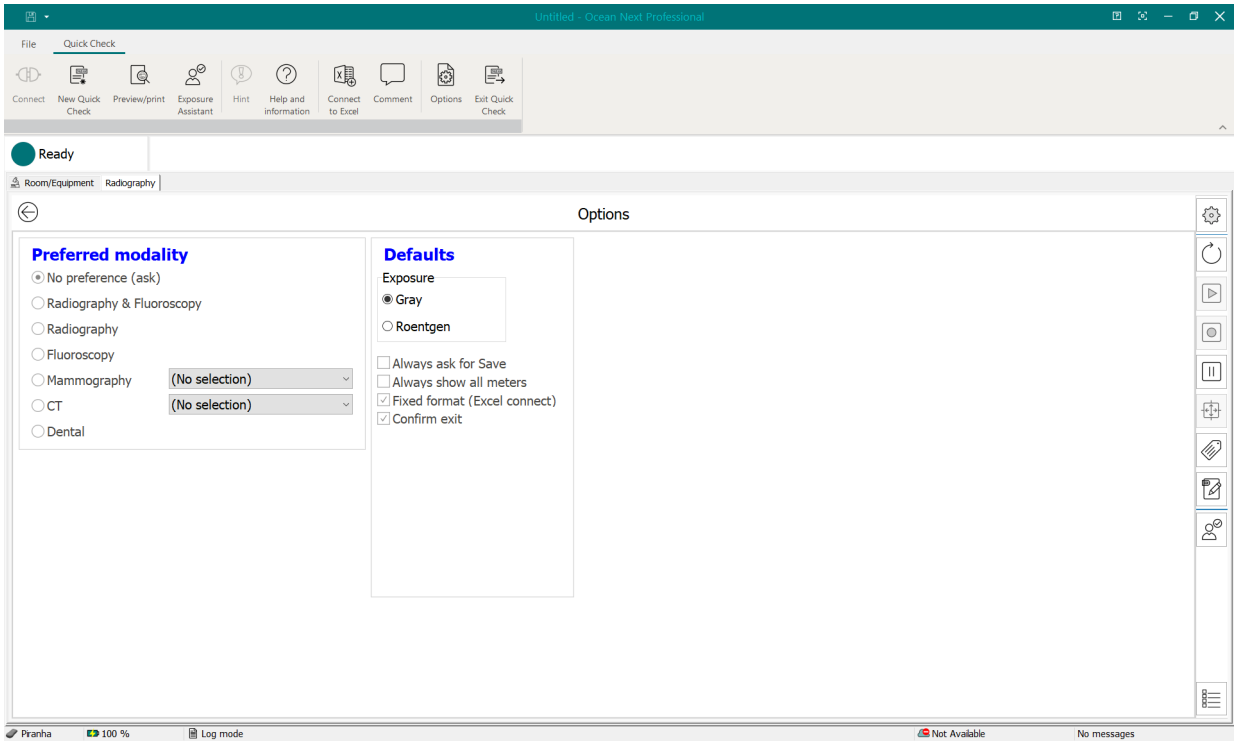
6.12 Quick Check Options

6.12.1 Piranha and Cobia Options

Click the **Options** button 

on the Quick Check ribbon bar and select "Options" from the menu shown.

The Quick Check options are shown:



There are two sections here, Preferred modality and Defaults.

Preferred modality

You can use this if you have a meter that covers many modalities but you don't want to see all choices in the Quick Check.

Defaults

Various settings that controls how Quick Check works.

Exposure unit: Select Gray or Roentgen

Always ask for Save: When this box is checked Quick Check always asks if you want to save your measurements before starting a new measurement or closing.

Always show all meters: When this box is checked a list with available meters to connect to is shown. If unchecked, Ocean Next directly tries to connect to the last used meter.

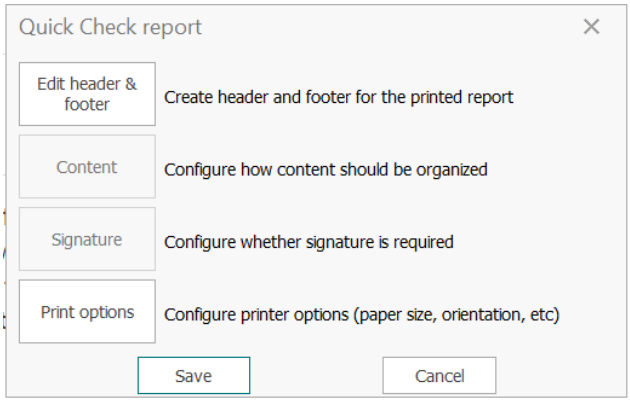
Fixed format (Excel connect): Check this box if you want to use fixed format when connecting to Excel.

Confirm exit: If you check this a dialogue is shown when you quit Ocean Next. It give you three alternatives:

- Quit Ocean Next and return to Windows
- Quit Ocean Next and turn off computer
- Resume Ocean Next

Report format

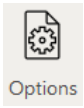
Modify and add header, footer and logo in your report. You can also modify the printer options such as paper size, orientation, etc.



Click Save when you have made your changes.

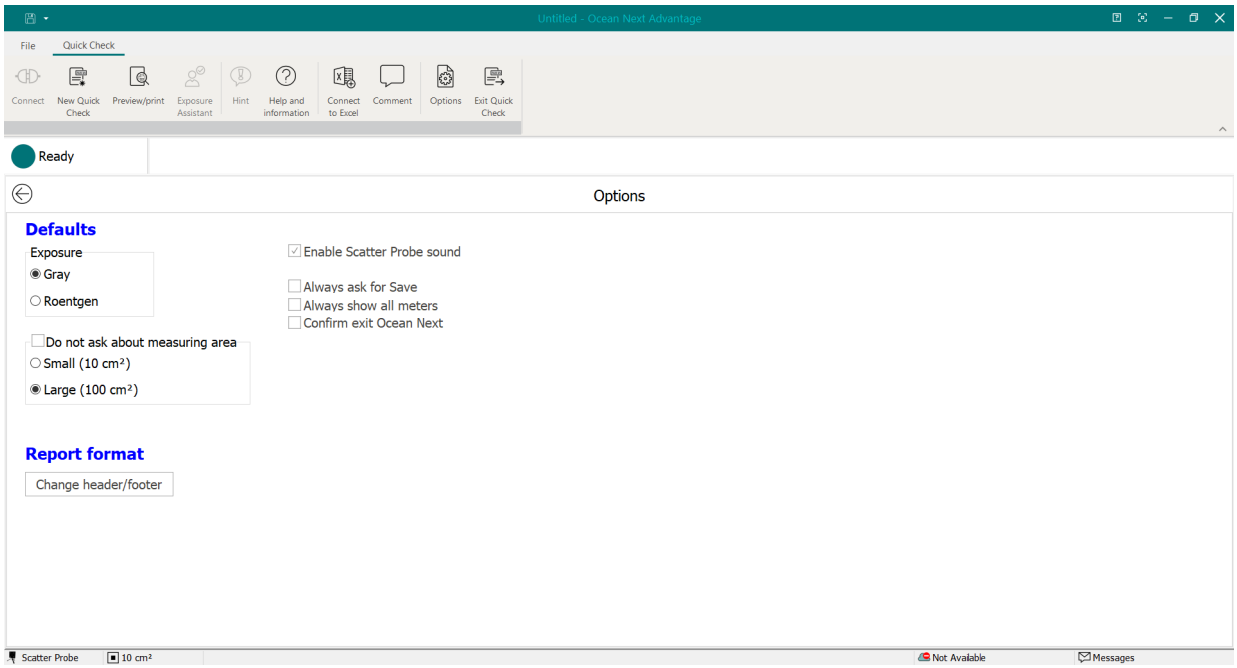
Click on the **Back** button to close Options and return to the display panel.

6.12.2 Scatter Probe Options

Click the **Options** button 

on the Quick Check ribbon bar and select "Options" from the menu shown.

The Quick Check options are shown:



Defaults

Various settings that controls how Quick Check works.

Exposure unit: Select Gray or Roentgen

Preferred measuring area: If not set, Quick Check always asks about the measuring area.

Scatter Probe sound: Uncheck to turn off sound.

Always ask for Save: When this box is checked Quick Check always asks if you want to save your measurements before starting a new measurement or closing.

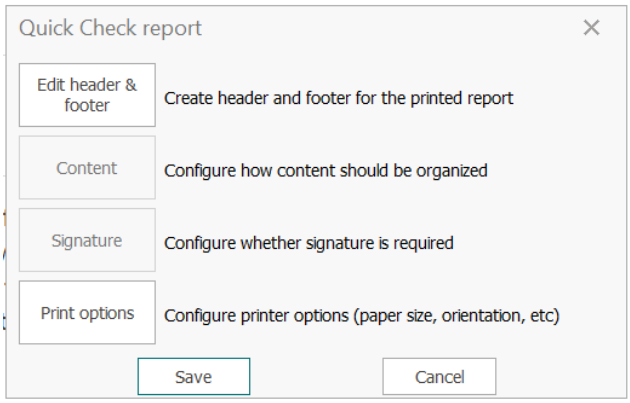
Always show all meters: When this box is checked a list with available meters to connect to is shown. If unchecked, Ocean Next directly tries to connect to the last used meter.

Confirm exit: If you check this a dialogue is shown when you quit Ocean Next. It give you three alternatives:

- Quit Ocean Next and return to Windows
- Quit Ocean Next and turn off computer
- Resume Ocean Next

Report format

Modify and add header, footer and logo in your report. You can also modify the printer options such as paper size, orientation, etc.



Click Save when you have made your changes.

Click on the **Back** button to close Options and return to the display panel.

Chapter 7

Test View

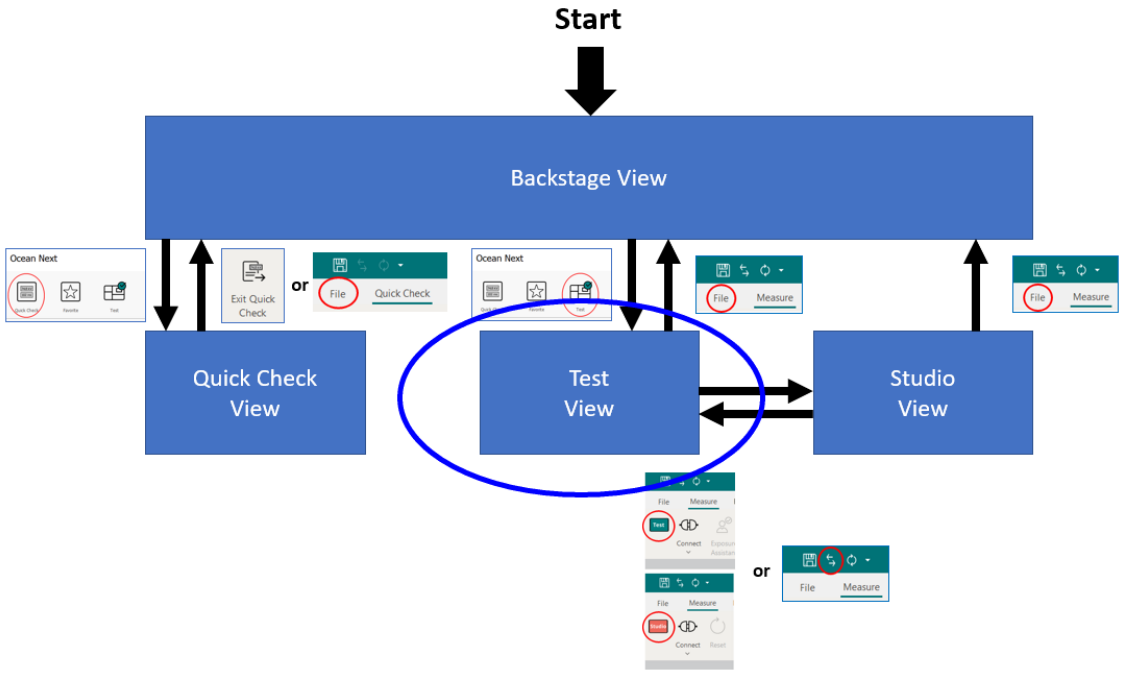
7 Test View

You use the Test View when you do your measurements using your predefined Session Templates. It involves the following steps:

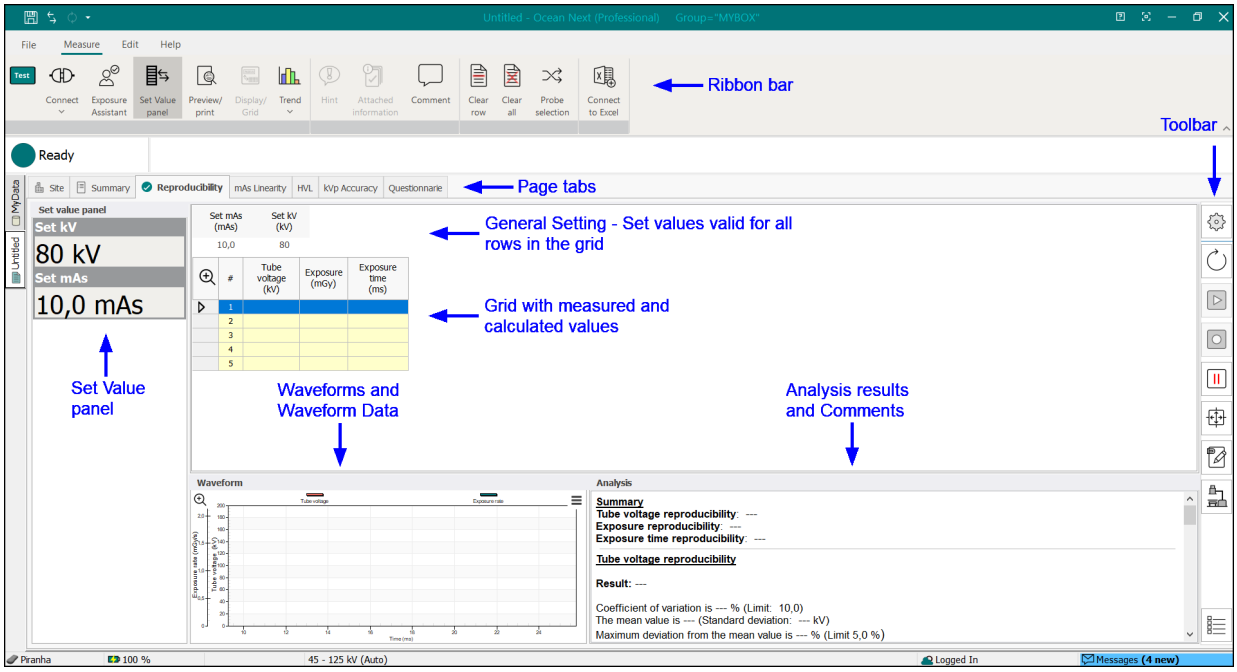
- Select the Session Template you want to use.
- Select the the site (room, department and facility) where you do your measurement and collects all you data.
- Perform the exposures and finish the Session.
- Preview the report.
- Save your Session.

The Test View is new compared to Ocean 2014 and is replacing Ocean 2014's "main window" when you do measurements. The Test View is optimized for this purpose and is recommended to be used when you do measurements even if you are used to Ocean 2014. All functions from Ocean 2014 are still present in the Studio View and and can be used.

It is assumed that you are familiar with the Quick Check View when you starting to read this.

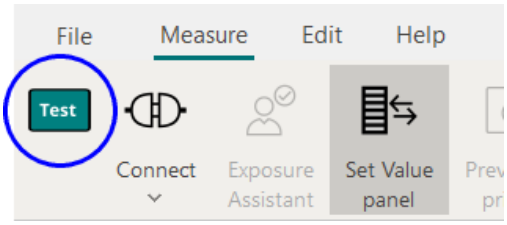


The picture below shows the Test View when a Session is loaded and activated and Ocean Next is ready for an exposure:



- At the top is the Ribbon bar with functions that are used to the measurement and view the result, these functions are described in the topic Test View Overview.
- On the right side is the Toolbar with buttons for functions that are used more frequent to control the measurement, maybe exposure by exposure. The Toolbar is described in the topic Test View Overview.
- The page tabs shows all the pages that are included in the Session. Two tabs, Site and Summary, are "fixed and predefined pages" and are present in all Sessions. The other pages, are user-defined and are either a "test page" or a "checklist page".
- To measure with a "test page" or fill in a "checklist page", the page must be activated. This means, for a "test page" that the meter is set up and "connected" to this page. After an exposure, measured data will go to this page. Activated page is indicated with a green check mark.
- To activate a page, double-click on the page tab. If you just click on a page tab, you select that page and it will be shown but **not** activated.
- The a "status indicator" is shown in the status field below the Ribbon bar. Here is indicated when the meter is ready for an exposure and when it is adjusting, connecting, etc. and not ready for an exposure.
- By default, a set value panel is shown on the left side. This makes it easy to see what you shall set the generator to and other conditions defined for each exposure.
- The grid can be enlarged by clicking the magnifying glass in its upper left corner.
- The waveform graph can be enlarged by clicking the magnifying glass in the upper left corner.
- The analysis can be enlarged by right-clicking on it and selecting "Maximize".

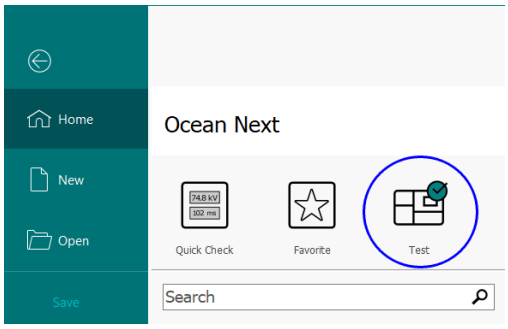
If you, during the time you do measurements, would need to modify you Session "on the fly", you can easily switch over to the Studio View by clicking the indicator shown to the left on the Ribbon bar. It indicates the view you currently use (Test or Studio):



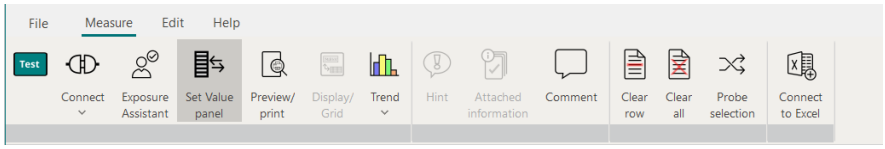
Click on it to switch over to the Studio View, go to the Design tab and make the adjustments and click on the indicator again to toggle back to the Test View. You can now continue to do exposures and collect data.

7.1 Test View Overview

When you start a measurement from a Session Template or from a Session the new measurement is started in the Test View. You can also go to the Test View by clicking on the Test button on the Home page:



When the Test View is shown, the view indicator on the Ribbon bar shows "Test":



To the right is an indicator showing current view, in this case "Studio View". You can click on it to toggle between Studio and Test View.

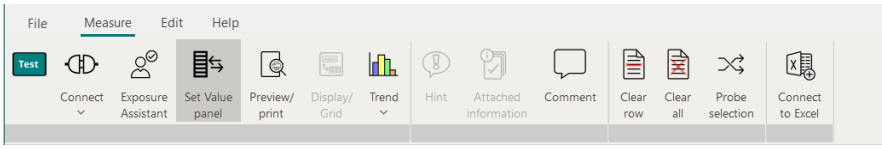
The main functions are:

Measure	Functions you need when you do measurements.
Edit	Basic function you need for modifying your session. If you need more advanced editing functions, switch over to Studio View and do the changes there. Switch back to Test View and continue to measure.
Help	Here you will find help on how to use Ocean Next and some other useful functions.
Test View Toolbar	Various functions used while you make exposures and collect data.

Many of the functions are also available via a "right-click" with your mouse. Simply right-click on an object and a menu will be shown with the functions available to you for that specific object.

7.1.1 Measure tab

Most of the functions you will need when you make measurements using the Test View are located on the Measure tab of the Ribbon bar and on the Toolbar on the right side. The Toolbar is described in the topic Test View Toolbar.



View indicator - Click here to toggle between Test and Studio View

This indicator shows which view you currently use, you can also click on it to toggle between Test and Studio View.

Connect - This function establishes communication between your instrument and Ocean

Make sure that the meter is connected to the computer (via USB cable or Bluetooth).

You can toggle between **Keyboard** and **Connected** by clicking on the upper part of the button. With *Keyboard* active you must enter all measured data manually via the keyboard. When the meter is connected the measured data is transferred automatically from the meter to the active test page.

If you click on the lower part of the button a third option, **Disconnect**, is available. Use this option only in the event you need to:

- Turn your meter off and then back on again.
- If you need to restart meter communication (for example, if you want to switch from one meter to another one).
- If you want to stop meter communication (for example if another program should use the meter while Ocean Next still is running).

Note!
It is recommended that you turn off power save mode or sleep mode on your computer while you make your measurements with a meter connected. You may experience problems with meter communication if your computer goes to sleep mode or power save mode automatically.

Exposure Assistant - Capture a value automatically when measured values are stable

Click on this button if you want to use the Exposure assistant. This is for longer exposures, for example fluoroscopy. Values are captured automatically when they are stable. If you activate the Exposure Assistant, and you have long exposures, Ocean Next will monitor the signal levels. When they are stable, the data will be acquired automatically and stored in the grid. A message will be shown in the status field under the Ribbon bar telling you that data is acquired and that you can stop the exposure.

The exposure assistant "looks" at the following measured values:

- kVp
- Exposure rate
- mA
- Pulse rate
- Light (cd/m^2 or lux)

Measured values are considered to be stable when three consecutive values differ less than:

kVp	3%
Exposure rate	3%
mA	5%
Pulse rate	0.3 pulses
Light	5%

Set Value panel - Turn the Set Value panel on and off

Click on this button if you want to use the Exposure assistant. Values are captured automatically when they are stable. This is especially useful for long fluoroscopy exposures and for light measurements.

Preview/Print - Preview and/or print the report

Click on this button to preview or print the report. You can read more about this function in the topics Preview and Print and Print Reports.

Display/Grid - Toggle between Displays and Grid

In case you have designed a test page and added displays (or if you have Real-time Display templates from Ocean 2014 with displays), the displays will be shown as default when such test page is loaded. If you instead want to see the grid, click on this button.

Trend - Make Trend analysis

Click on this button to start Trend analysis. You can compare how different parameters change over time.. Read topic Trend analysis to get more information.

Hint - Shows a hint

If a hint is included in the test page, this button is activated. Click on it to view the hint.

Attached Information - Shows any attached information

If the test page has any attached information, for example a pdf file with instructions, the button is enabled and you can view it by clicking on this button. The attached information can be a document, for example a PDF document or a web link.

Comment - Write a comment

Write a comment that will be added to your session and included in the report. Comments can be added to the Summary page and all test and Checklist pages.

Clear row - Clear current row (removes all measured data from current row)

Click on this button if you want to clear the current row. The set values will not be removed with this command.

Clear all - erase all data in the object you are working with (removes all measured data from the entire grid)

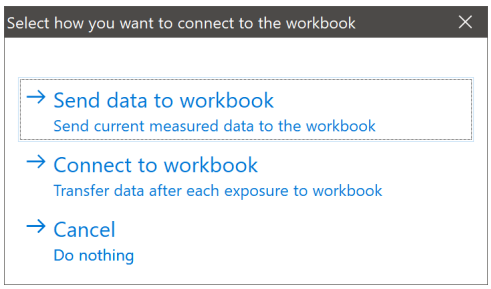
Click on this button if you want to clear all the rows. The set values will not be removed with this command.

Probe selection - Change the detector

Use this button if you want to choose another probe for your current measurement.

Connect to Excel - Send data to Excel

Use this button if you want to send data to Excel "on the fly". When you click this button a dialogue is shown:



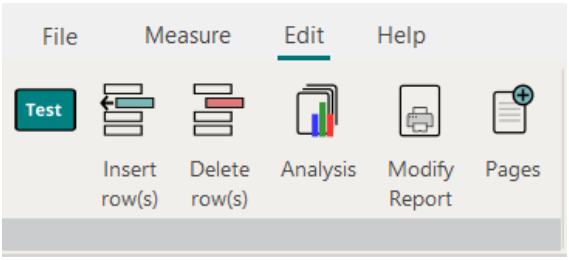
Send data to workbook - An Excel workbook is opened (you must have Excel installed on your computer) and all your current data is sent, "dumped", to Excel. You will be asked if you want to include waveforms or not, size of waveforms and if you want to open a new workbook or an existing one.

Connect to a workbook - If you select this, data after each exposure will be sent to Excel and inserted starting in active cell. A dialogue will be shown that makes it possible for you to chose between a new workbook or open an existing one.

Sending data to Excel can be done in many ways, read the topic Transfer data to Excel in the Quick Check View section for more information and Attach an Excel workbook in the Studio View section.

7.1.2 Edit tab

Here you will find some template editing functions that can be useful "in the fly" while doing measurements. If you need to do other modifications to your session, the switch over to Studio View where you have access to all template editing functions.



View indicator - Click here to toggle between Test and Studio View

This indicator shows which view you currently use, you can also click on it to toggle between Test and Studio View.

Insert row(s) - Insert row(s)

Use this if you want to insert one or more rows in the grid. Select the row where you want to insert and click the button. A dialogue appears and you can select number of rows and if you want to insert before or after the row you selected.

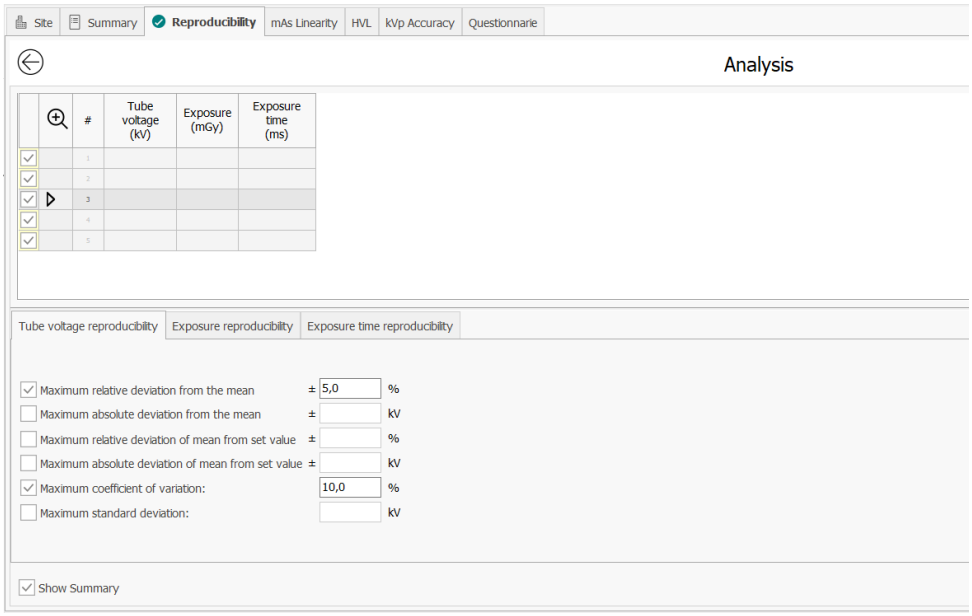
Delete row(s) - Delete row(s)

Use this when you want to delete rows in the grid. Select the rows you want to delete, you can select a range by using the Shift-key and or Ctrl-key.

- If you want to delete multiple consecutive rows:
  - Click in the first column of the first row you want to delete.
  - Hold down the Shift key.
  - Click in the first column of the last row you want to delete.
  - The rows are now selected, click **Delete row(s)**.
- If you want to delete multiple not consecutive rows:
  - Click in the first column of the first row you want to delete.
  - Hold down the Ctrl key.
  - Click on the in the first column of the next row you want to delete and so on.
  - The rows are now selected, click **Delete row(s)**.

Analysis - Click here to modify the pass/fail limits

When you click this button, the analysis setup is shown:



Here you can do basic changes to the existing analysis on current session page. Each analysis, in this case three, has their own tab. Select the analysis you want to modify:

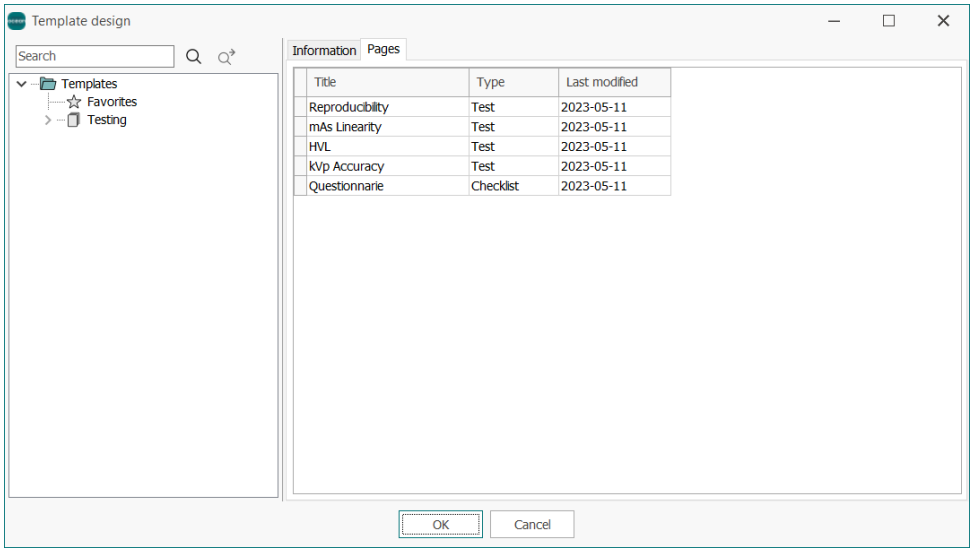
- Include or exclude rows in the grid from the analysis.
- Change the pass/fail limits.
- Hide or show the analysis Summary.

Modify report - Click here to make adjustments to the report format

Here you can make changes to the report format for the current session. When you click on the Modify Report button the Report template dialogue is shown. Read more in the topic How to create a Report Template.

Pages - Click here to add, remove, hide or change order of pages in current session

When you click this button, the Template design dialogue is shown:



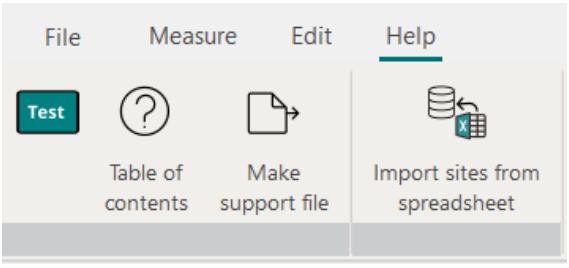
You can do the following:

- Browse for a session template on the left side and add it to your current session. All pages will be added and you can delete if there are pages added that you don't want.

- Use drag-n-drop on the right side to change page order.
- Right-click on a page (right side) and select Hide or Delete.
- Modify the Session Information by clicking on the **Information** tab.

7.1.3 Help tab

Here you will find some template editing functions that can be useful "in the fly" while doing measurements. If you need to do other modifications to your session, the switch over to Studio View where you have access to all template editing functions.



View indicator - Click here to toggle between Test and Studio View

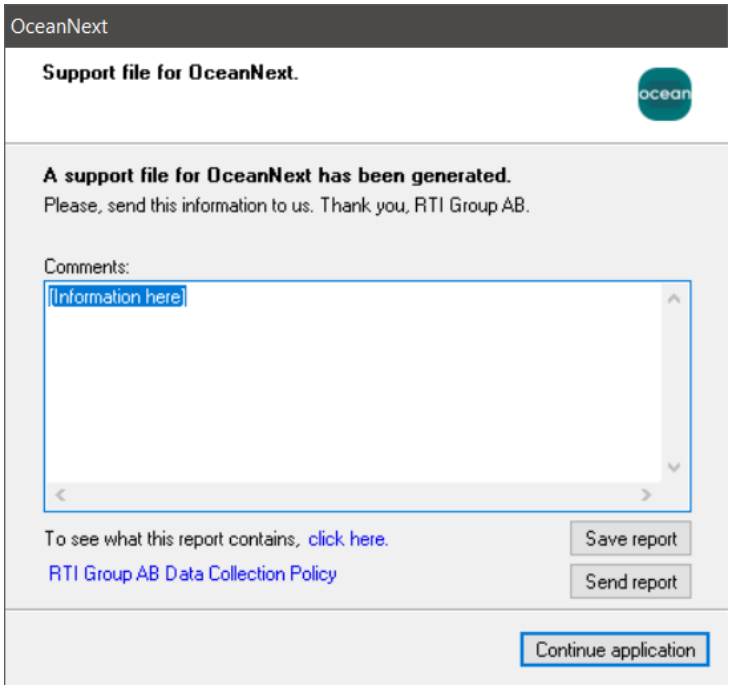
This indicator shows which view you currently use, you can also click on it to toggle between Test and Studio View.

Tabel of Contents - Opens the Help text and shows table of content

Opens the Help text and shows table of content.

Make a Support file - Create a support file with system information

When you encounter a problem, click this button and create a Support file. A dialogue is shown:



You can either send it directly if you have an e-mail program on your computer or save it to a file and send it from another computer.

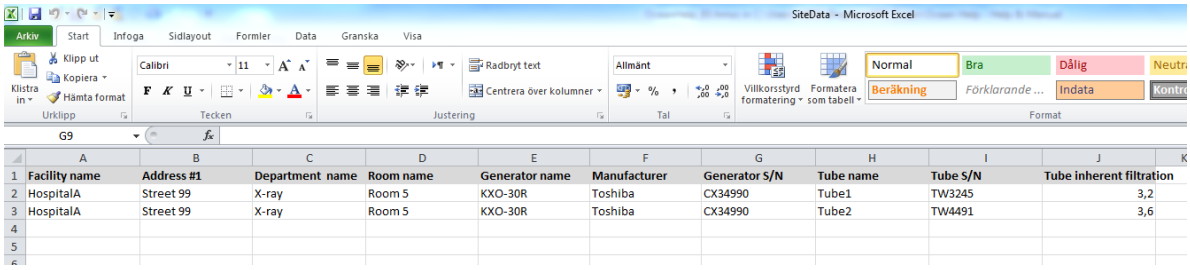
- Click on **Send report** if you have an e-mail program on the computer you are using. Describe the problem in the e-mail and send it.
- If you can't send the e-mail from the computer you are using, write a description of the problem in the "Comment" field. Click on the **Save report** button and select a place to save it. Send the file from another computer.

When you are ready click on **Continue application**.

Import sites from spreadsheet - Import new Sites from Excel

It is possible to import site information (facility, department, room, generator, tube and user-def equipment) from Excel.

The site information should be organized in a list format in an Excel workbook on your computer:



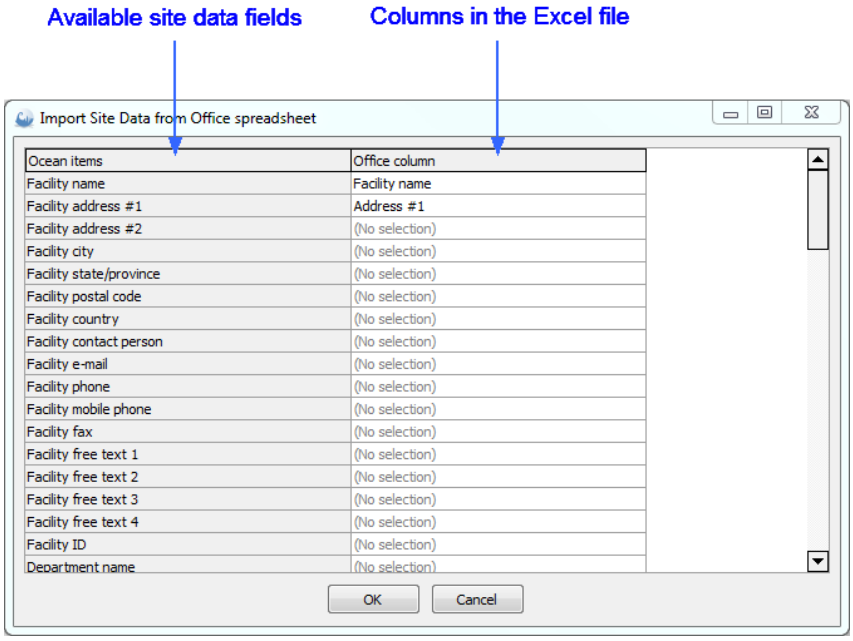
	A	B	C	D	E	F	G	H	I	J
1	Facility name	Address #1	Department name	Room name	Generator name	Manufacturer	Generator S/N	Tube name	Tube S/N	Tube inherent filtration
2	HospitalA	Street 99	X-ray	Room 5	KXO-30R	Toshiba	CX34990	Tube1	TW3245	3,2
3	HospitalA	Street 99	X-ray	Room 5	KXO-30R	Toshiba	CX34990	Tube2	TW4491	3,6
4										
5										

1. Click on **Import sites from spreadsheet**.

2. You are asked to do a backup of you database. It recommended to do so.

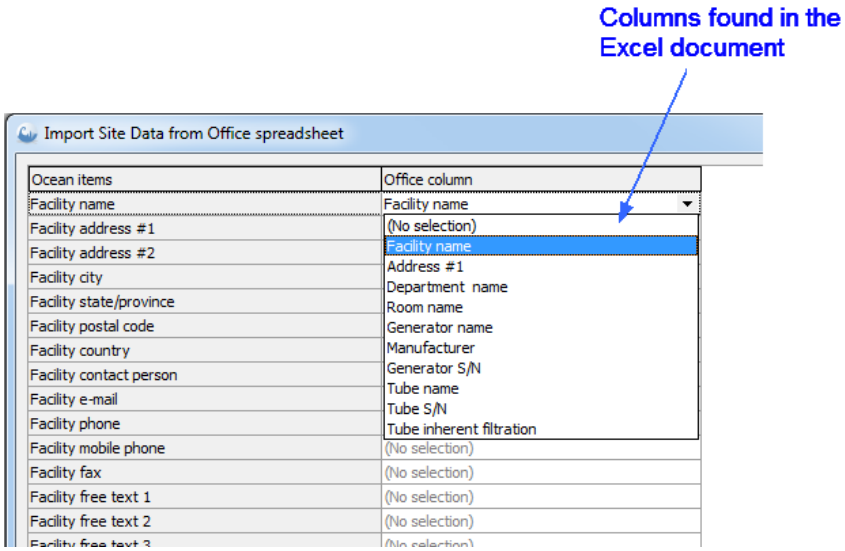
3. After the backup is completed a dialogue is shown that allows you to browse for the Excel file. Locate the Excel file and click **Open**.

4. The Excel file is loaded and a dialogue is shown.



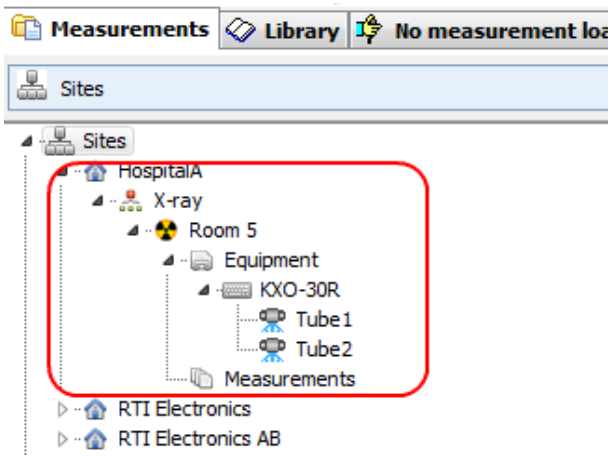
To the left are all the available Ocean Next fields to define the site information (facilities, departments, rooms, generator, tubes and user-defined equipment) shown. To the right are the columns in the Excel document shown.

5. Click in a field in the right column to select which column that should be "tied" to an Ocean field in the left column:



6. When you are ready click on OK.

7. You can now see the imported site information in the database (Measurements).



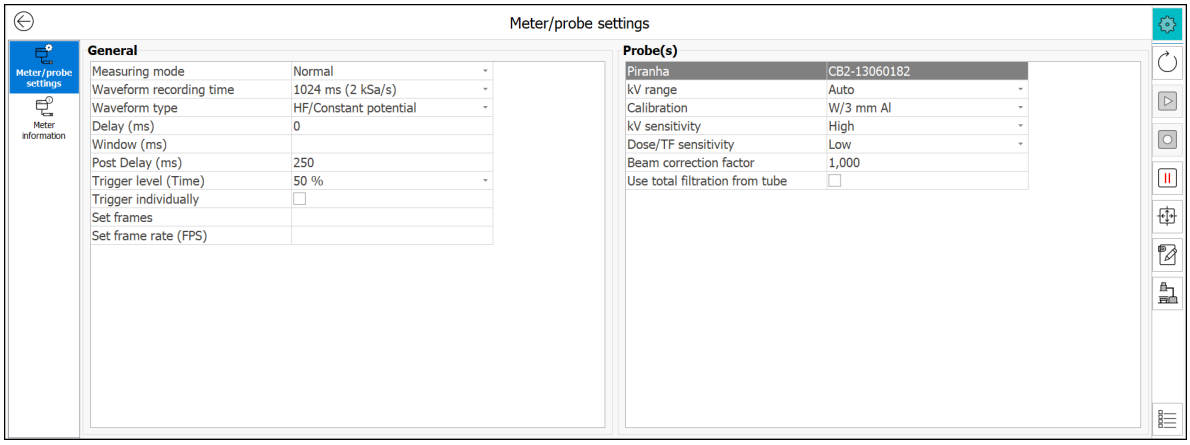
The import is done "by name", if you repeat the import existing data will be overwritten (no duplicates are created).

7.1.4 Test View Toolbar

The Toolbar is located on the left side and is the same as in the Quick Check:

Settings - Adjust Meter and Probe setting and view Meter Information

You click on this button when you need change meter and probe setting or if you want to see information about the meter and probe(s) you currently use.



On the left side there are two buttons where you can select between:

- Meter/Probe settings, all settings for currently used meter and probe(s) for the **selected row(s)**.
- Meter information, shows all information such as serial number, version, calibrations, etc. for currently used meter and probes(s).

You can read more about meter and probe setting in the topic Meter and Probe Setting.

If you need more advanced settings, switch over to Studio View and go to the Meter and Probe tabs.

Reset - Manual reset (zero-adjust)

You click on this button when you need to reset the meter. This is normally done automatically but you may have to do it manually in certain situations, for example:

- When you measure at very low signals and use "Free run" or "Timed" measuring modes.
- When you suspect that the meter, for some reason, measured an incorrect zero-level.

Start - Start measuring manually

This button is used in **Free run** and **Timed mode** to start the measuring sequence. Read more about measuring modes in the topic Measuring modes.

Capture - Click this button to capture a value manually

You can use this button during long measuring sequences (for example when testing a fluoroscopy unit) to capture the data at a time of your choose. For example, you may wish to wait until the data is stable before capturing a value. You must always use this button to capture the measured data when **Free run** mode is used. Read more about measuring modes in the topic Measuring modes.

The waveform is also captured at the same time as you click on this button (if the checkbox **Get waveform** is checked). Note - free run mode doesn't provide a waveform.

Pause - Pause measurement

This button is used if you don't want the meter to measure even if the detector gets radiation or trigger for some other reason. You can use it for example when you use fluoroscopy and the monitor to position a detector on the image intensifier or when you move a CT chamber from one phantom position to another.

Position check - Verify that your kVp detector is positioned correctly

You can use this to verify that the kVp detector is correctly positioned in the X-ray field. It is always recommended to use this function, but it is especially important in the situations described below:

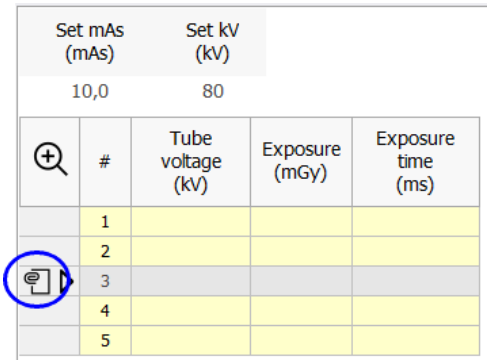
- For all small X-ray fields or when there is a risk that the entire detector may not be irradiated (for example CT and dental)
- If the detector is positioned very close to the focus point
- If the radiation field varies over the irradiated surface. I.e. strong heel effect on older mammography units.

The position check results are not stored with the measured data. If you wish to store this value, you can add a special column to your test and the position check results will be saved with the test in a column of its own.

Position check is by default initiated automatically for mammography. This function can be turned of in the Program options.

Edit Notes and Attachments - Add a note or attachment to a row

Click on this button if you want to add a note or attach something, for example a picture, to current row. The note can be printed in the report if it is enabled in the Report template. When you have added a note to a row, an icon is show in the first column of that row to indicate that a note is present:



Equipment - Show currently selected equipment (generator, tube, etc.)

Click on this button to see currently selected equipment. If you, when you started the Session, selected "Select site from database before starting to measure" the equipment has been fetched from the database.

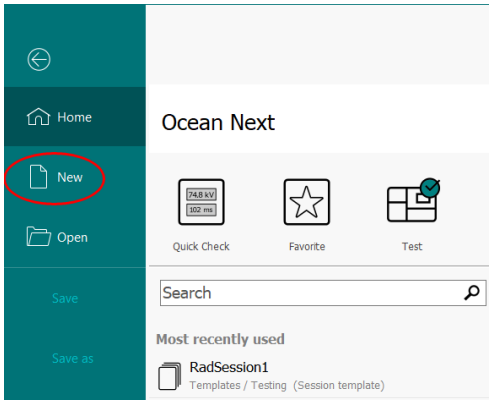
You will also see Site, Department and Room data that also has been fetched from the database.

7.2 How to do a measurement

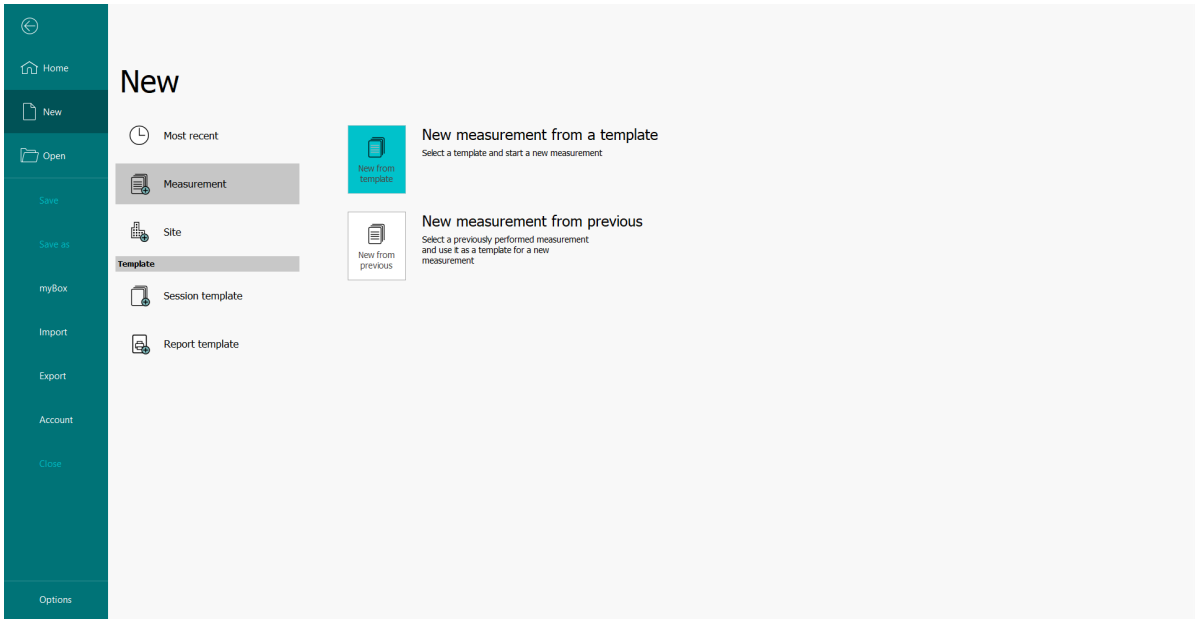
When you start a measurement the default view is the Test View. If you for any reason want to use the Studio View (this is the "main view" from Ocean 2014) to do measurements, then you must actively select the Studio View.

The description below uses as an example a predefined Session template that comes from "Examples (RTI)" that comes with Ocean Next's installation.

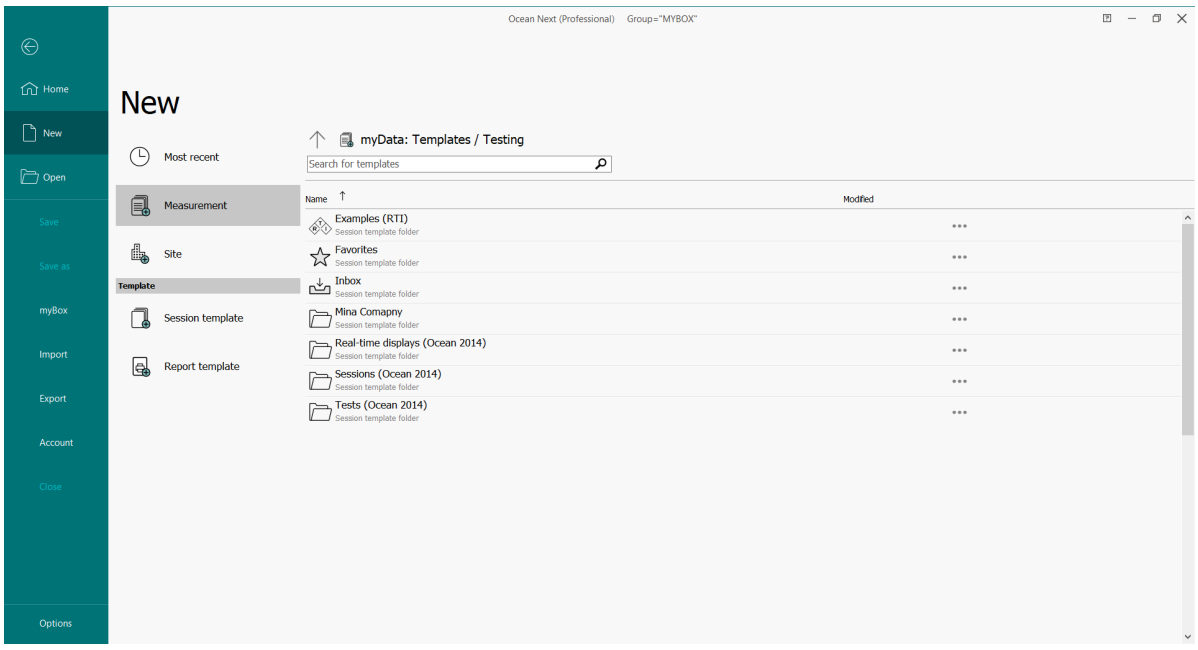
1. Power on the meter. Select **New** in the left bar.



2. Select "Measurement" in the left part of the main screen, and then select "New measurement from a template".

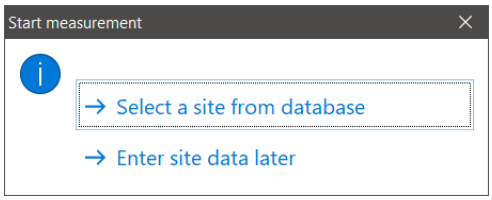


3. You can now browse for a Session Template in the "Testing" folder:



Select the folder "Examples (RTI) and locate the session template "QA (Rad room)": "Templates - Gy" -> "Multi-page sessions" -> "Radiography" -> "QA (Rad room)".

4. The template is loaded and a dialogue is shown:

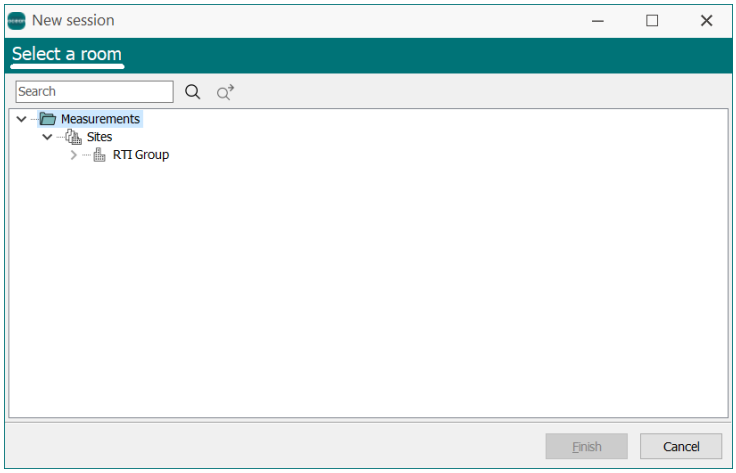


Before you start the measurement you must select if you want to pick a site from your database or enter this information later.

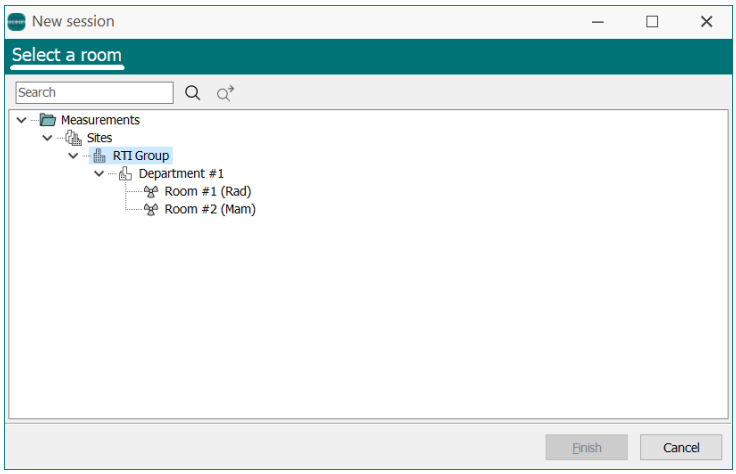
5. In this case we shall select a site before we start the measurement. The advantage of doing this is that all site information, site, addresses, contacts, department and room name, and tested equipment generator and tube are automatically added to your Session.

Select a site.

6. Ocean now connects to the meter and after a while the a dialogue appears. Here are all your sites shown (in this case is just one site stored in the database):

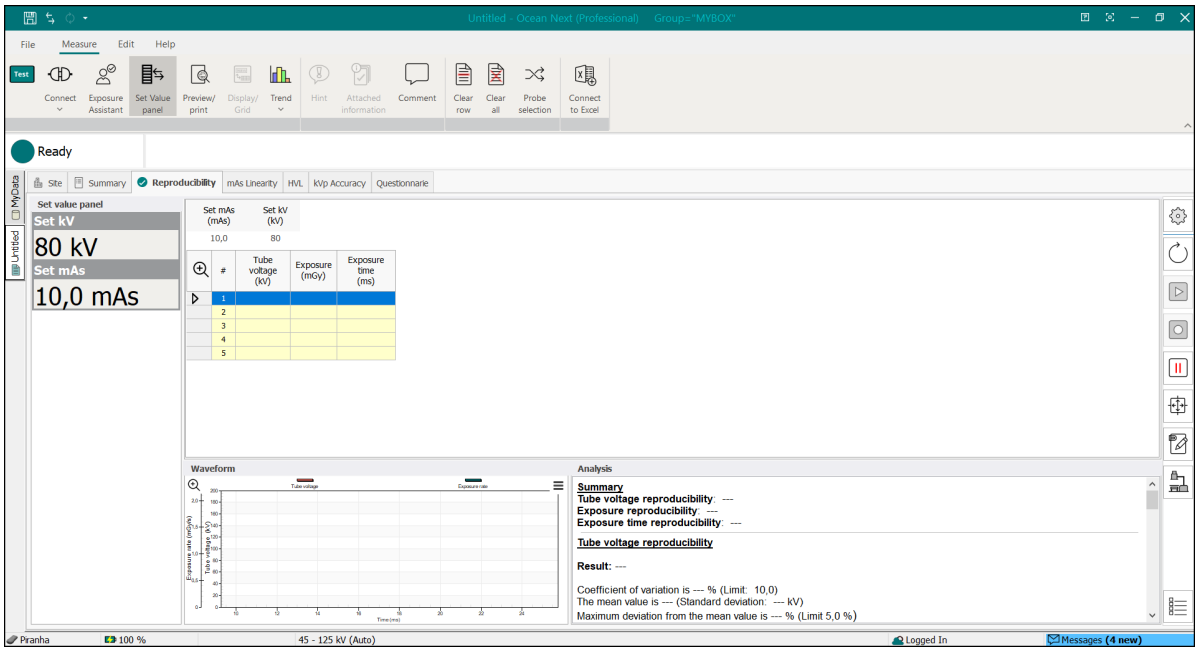


Double-click on the name or click on the ">" indicator for the site you want to use. It expands and shows the departments and rooms for that site:



Now select the room you are in, in this case select "Room #1 (Rad)" and click **Finish**.

7. The Session Template is loaded and the measurement starts in the Test View. First is the Summary page shown and the first Test page as activated automatically and the meter is set according to the requirements. If meter and/or probe capabilities doesn't match what is needed, the Probe Selection dialogue appears and allows you to make adjustments and/or connecting another probe(s).



If meter and probe(s) meet the requirement for the activated test page, the Test View appears with the first page, in this case a "Reproducibility test" appears.

When the green "Ready" sing is visible in the upper right part of the screen Ocean is ready for measurement. If you want to change a set value, just click in the Set value panel on the lefts side and change corresponding value or edit the value directly in the grid.

8. Make an exposure. Measured values will show up in the grid and corresponding waveform will show in the waveform panel (down left). Results of the analysis will be shown in the Analysis panel (down right). Yoy can enlarge the grid and waveform by clicking on the corresponding magnifying glass and the analysis panel by right-clicking on it and select "Maximize".

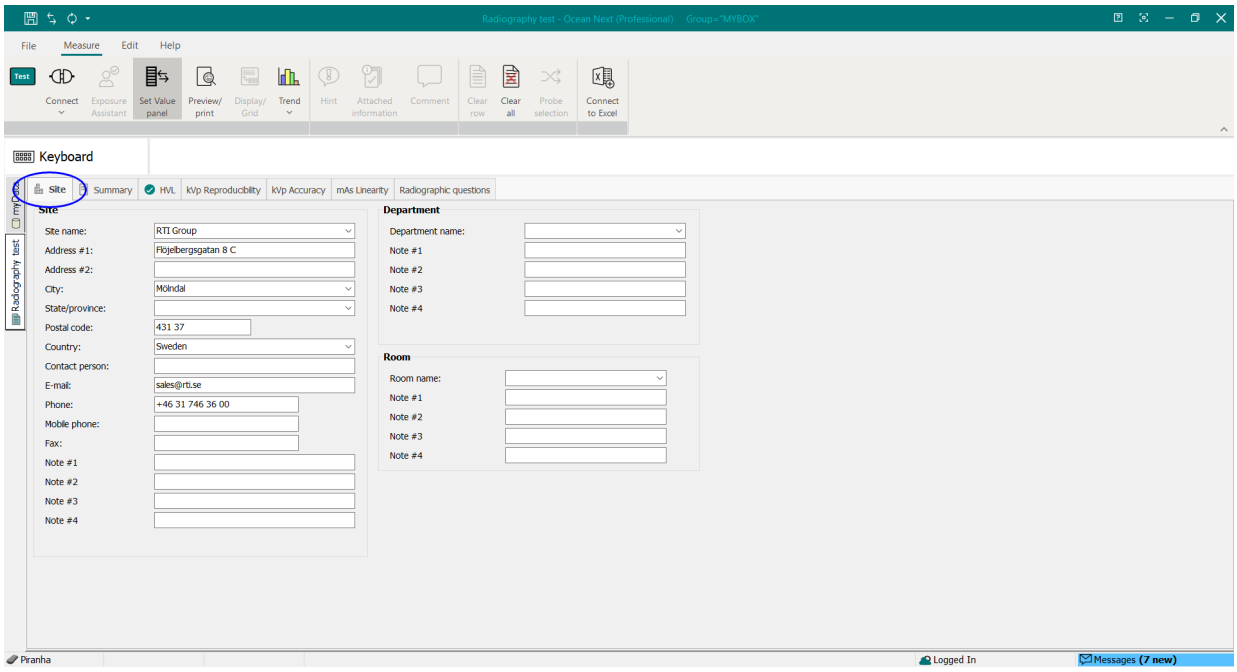
9. Various functions you may use while you measure are available via buttons on the Ribbon bar and the Toolbar to the right. These functions and their use is described in the topic Test View Overview.

10. Periodically, save your work by clicking on the **Save** button to the left on Ocean Next's title bar.

11. When you have completed all exposures on a test page, double-click on the next page tab to activate this page.

7.2.1 Enter site inormation manually

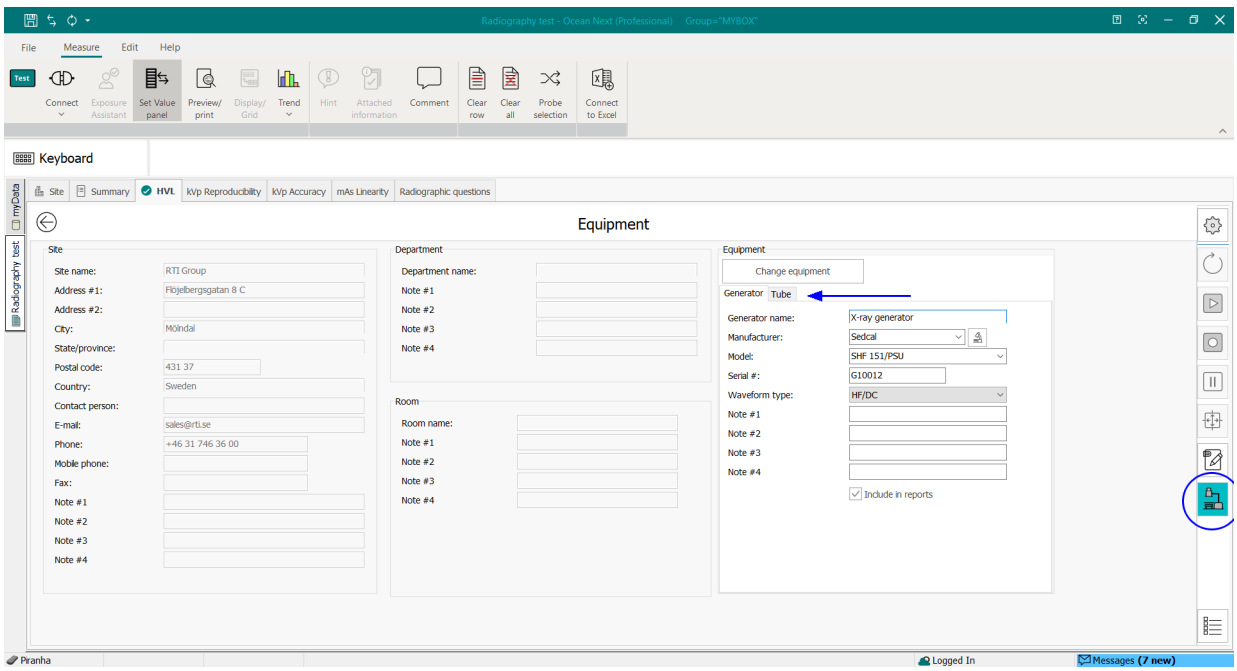
If you selected to "enter site information later" when you started the measurement, you need to fill out this information manually. Click on the **Site** tab:



You can avoid this manual work by adding your sites to you database. When you start the measurement, you select a site and all information is filled out automatically.

7.2.2 Equipment tested

If you selected to "enter site information later" when you started the measurement, you need to fill out information about the equipment you test manually. Click on the **Equipment** button on the Toolbar if you want to enter or modify the equipment information:



The Equipment Information can be added or modified manually in the right section. There are different tabs for different type of equipment (Generator, Tube and User-defined). If you have selected a Site from the database when

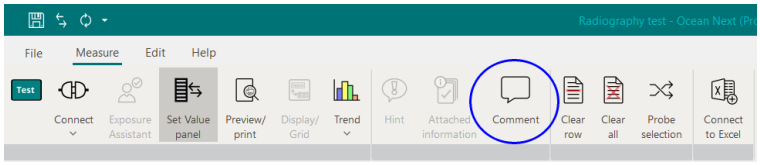
you started the measurement, the information is filled out automatically. The Change equipment button makes it, in this case, possible to select a different equipment if the room has multiple generators and/or tubes.

The site information is not possible to change here, go to the Site tab to do that.

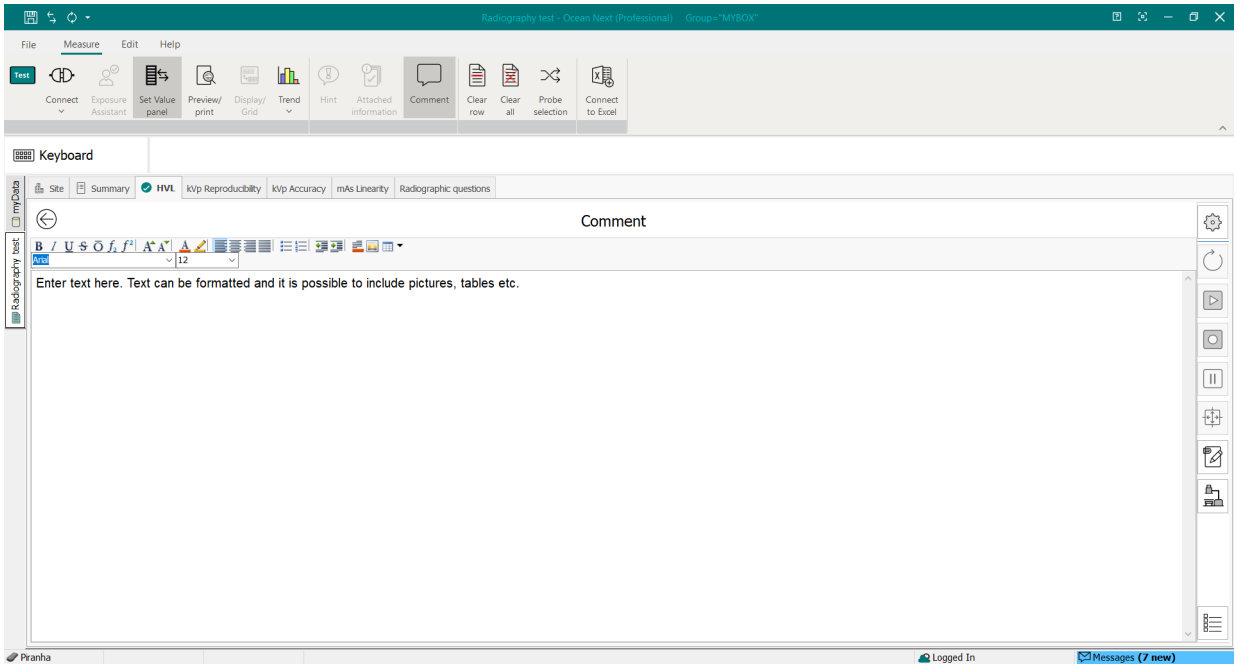
7.2.3 Comment

It is possible to add a comments that will be included in the printed report. The comment will be added to the page that is selected when you click the Comment button. Comments can be added to the Summary, Test and Checklist pages.

Click on the Comment button on the ribbon bar:



The comment page is opened:



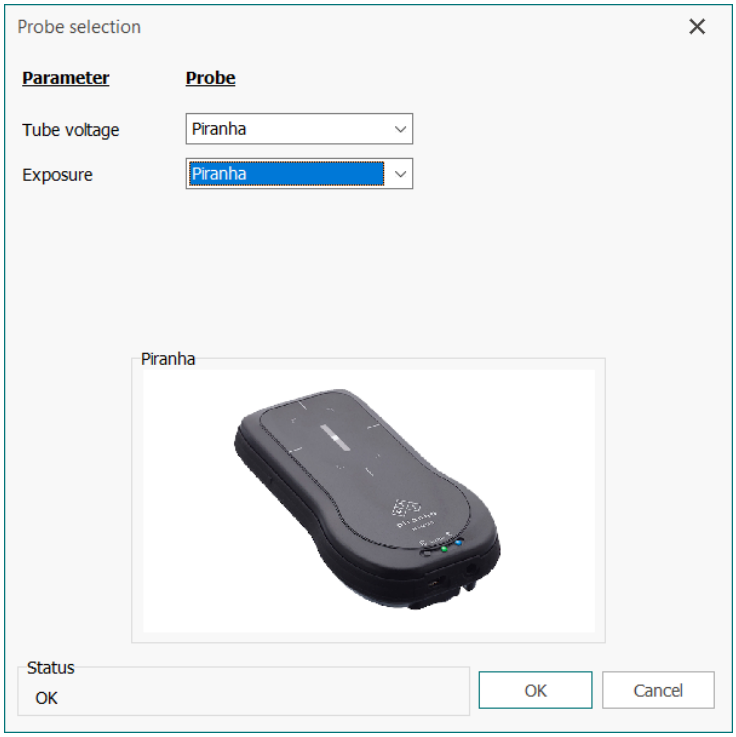
The text you enter here, will be added as a comment with the Summary or the test/checklist page that was selected when you clicked on the **Comment** button.

7.2.4 How to change which probe to use

If you need "on the fly" to change which probe to use, you do this by clicking on the **Probe selection** button on the Ribbon bar.

To change probe selection:

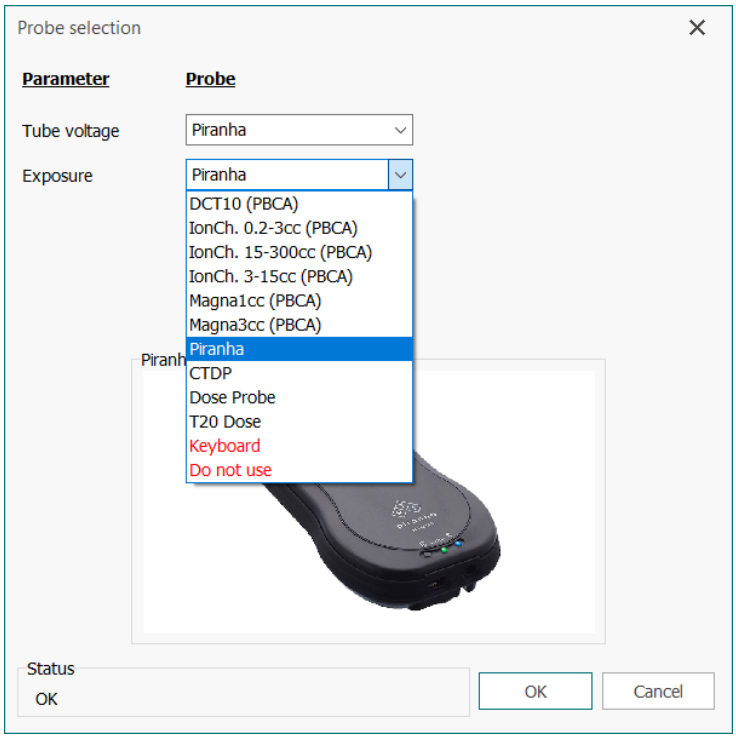
1. Click on the **Probe selection** button.
2. The "Probe selection" dialogue is opened:



It shows that current probe selection is "Piranha" for both parameters.

3. Assume that we want to use RTI Dose Probe instead for the Exposure measurement. Click on the drop-down list that corresponds to "Exposure".

4. The list shows all possible probes that can measure "Exposure", in case you have Piranha connected and "on line" with Ocean Next, only connected probe is shown.



There are also two alternatives "Keyboard" and "Do not use".

- *Keyboard* - if you select this, the parameter will not be measured instead it is expected to be typed in from the keyboard. After each exposure a dialogue will automatically pop up where you can enter a value.
- *Do not use* - if you select this, the parameter will be ignored and not measured.

5. Select the probe you want to use.

6. When you are ready click **OK**.

7.2.5 Other ways to start a new measurement

There are different ways to start a new measurement. We have already described how to start a measurement from the **New** tab in the Backstage. Other ways to start a measurement are:

- In the Test View: Double-click on a Session Template in the database tree.
- Right-click on a Session in the database tree and select "New measurement...". A new measurement will be started using the previous measurement as template. This is convenient when you want to repeat the same procedure. You will get the possibility to select site, same site, select another site, or enter site later.
- Click on Session Template in the "most recent" list on the New page in Backstage and a new measurement starts.
- Right-click or click on the "..." button in a "most recent" list in the Backstage and select "New measurement..."

7.2.6 Measring modes

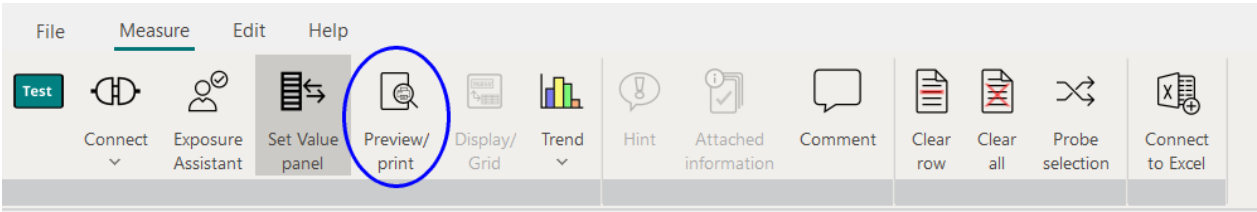
Three different measuring modes are available:

Measuring mode	Description and use
Normal	Normal mode is used for short and long (fluoro) exposures. In this mode, your meter will sense automatically if there is a signal and when it is above a certain trigger level. If the signal is long, the displays/grid will be updated with new data every 2 seconds data. If the signal is short, the results are displayed after trigger is off.
Timed	Timed mode setting measures during a predefined time period. Measurements in Timed mode must be started manually by clicking the **Start** button on the Toolbar. Measurement continues the stipulated time, you can stop by clicking on the **Capture** button on the Toolbar. This measuring mode is very useful when you want to measure a very low signal. The status bar under the Ribbon bar will guide you and tell you what to do.
Free run (not available with Cobia and Scatter Probe)	Free run mode has no trigger level. As soon as the meter is told to begin measuring, it starts to measure even if there is no signal. This measuring mode is useful when the signal you want to measure is very low. Free run is recommended for light measurements, especially when measuring "ambient" light (when no shutter is present). The status bar under the Ribbon bar will guide you and tell you what to do.

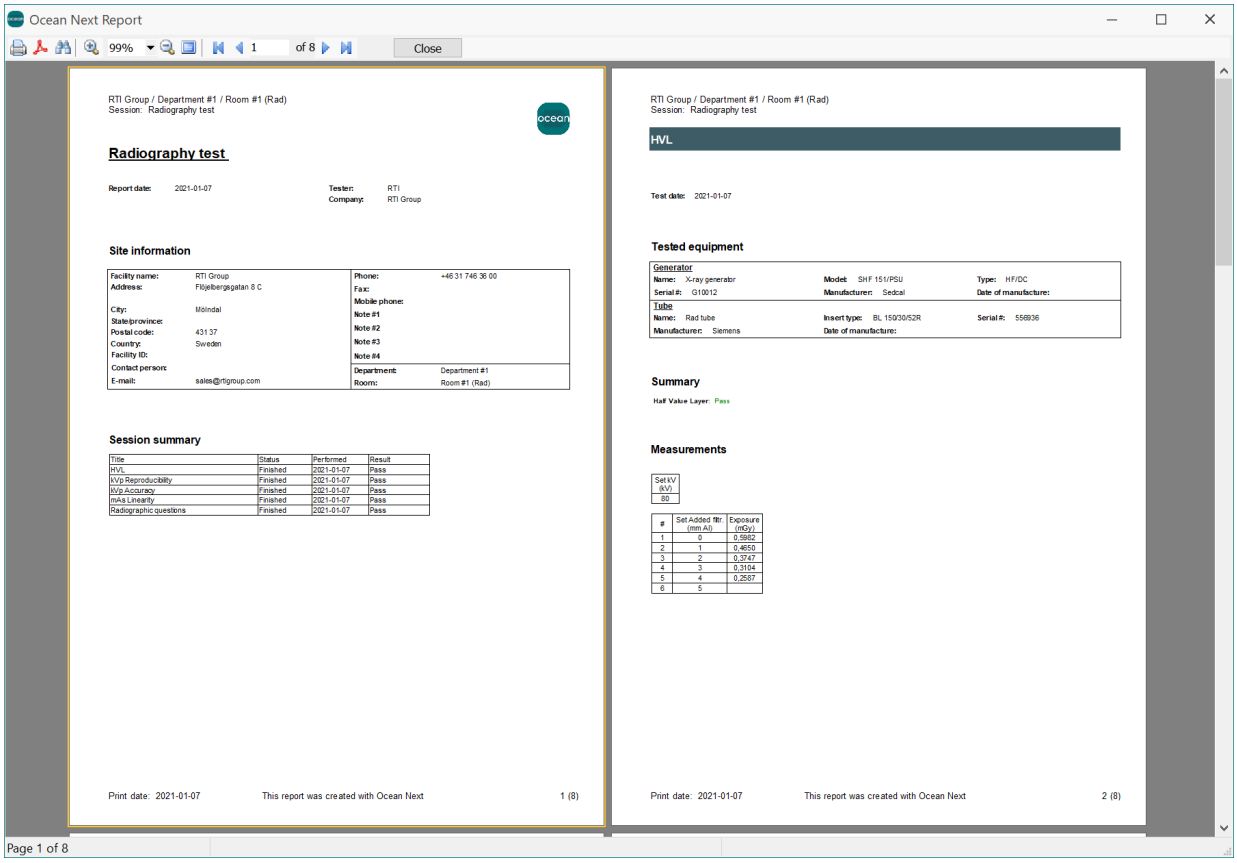
7.3 Preview/Print Reports

Direct Preview/Print during measurement

A session can be printed anytime just by clicking the Preview/Print button on the Ribbon tab.



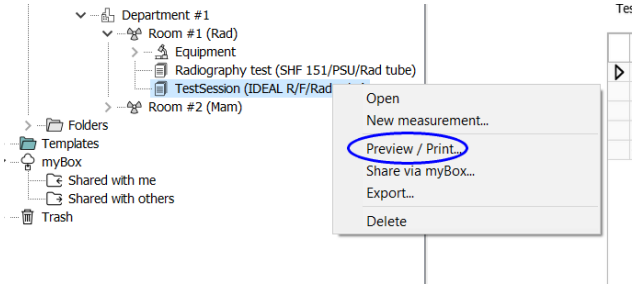
A PDF preview of the report will open. From here the entire report can be viewed. You can print or create a PDF file.



Print a Report of a session in the database

Any Session (or template) can be printed without need to open the session, by browsing the Ocean Next's database.

Right-click on the test session you want to print, and select **Print/Preview**.



Print from the Backstage

You can print any Session (or template) directly from the "most recent" lists shown in the Backstage. Click on the "..." button and select "Print/Preview...".

7.4 Create a new Site

If you need to add a new site do either from the Backstage and the New tab or directly in the database tree. We will here in this example do it directly in the database tree.

1. Go to the Test View.

2. Right-click on the myData tab and right-click on the folder "Sites" under "Measurements" and select "New Site".

3. A new site with the name "New Site" is created. On the right side is the Site information shown, give it a name and fill out the fields. There is no save button here, information is saved in the database when you type it.

4. When you are ready (you can go back at any time and change or add), right-click on the new site name and select "New Department".

5. A new department is created. Give it a name and fill out the fields on the right side.

6. When you are ready, right-click on the new department name and select "New Room".

7. A new room is created. Give it a name and fill out the fields.

8. In the Room you will find a folder called "Equipment". In this folder you define the equipment you have in the room. Right-click on the Equipment folder and select "New Generator".

9. A new generator is created. Give it a name and fill out the fields.

10. When you are ready, right click on the new generator and select "New tube".

11. A new tube is created. Give it a name and fill out the fields.

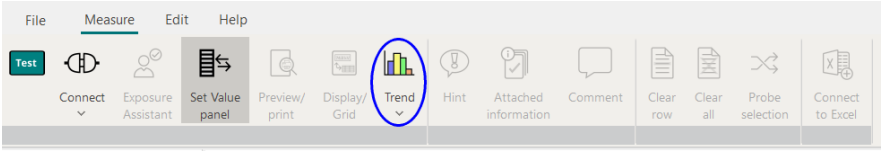
If you have more equipment add that. Maybe the generator has two tubes, then add a second tube. There are also possible to add "User-defined equipment".

7.5 Trending

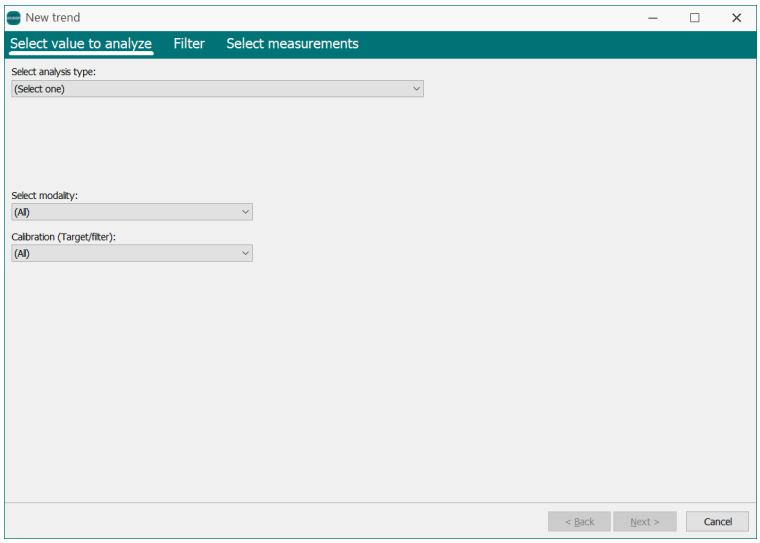
Trending is used to compare how a certain parameter change over time. You can do instant trending and view it, but not add it in the report.

To do trend analysis:

1. Go to the Ribbon bar and click the **Trend** button and select **New**.



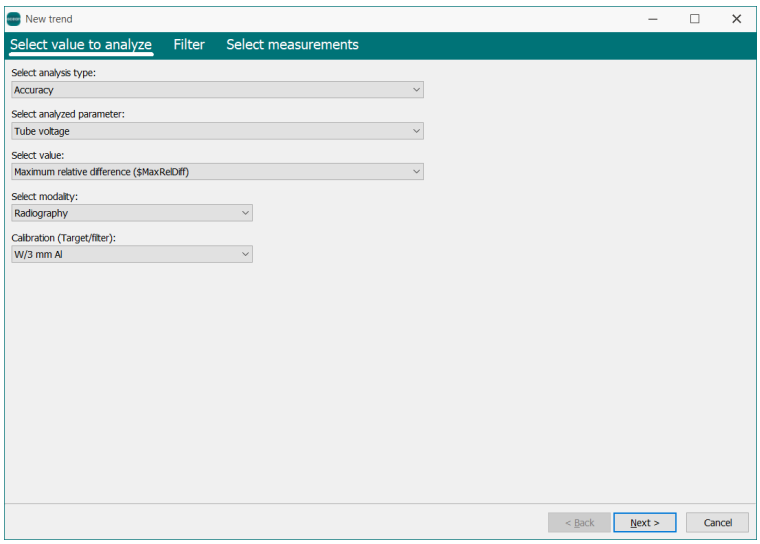
2. A wizard starts that allows you to define what you want to trend.



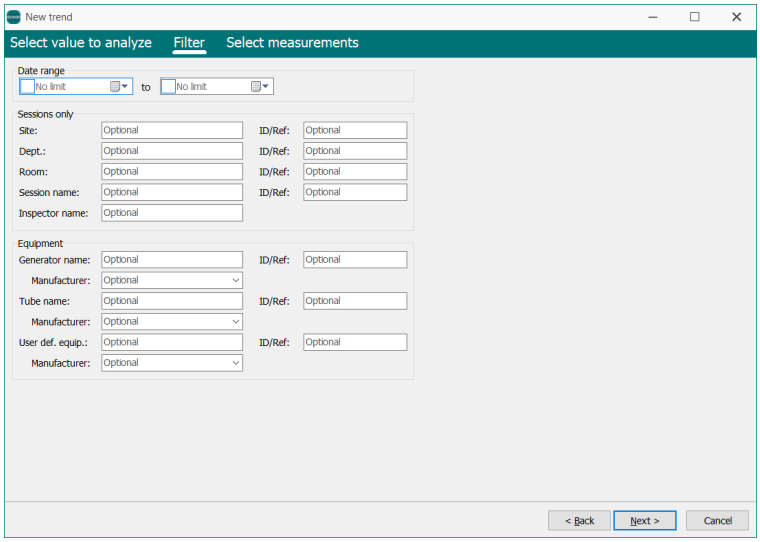
First select the type of analysis you want to trend (Accuracy, Reproducibility, etc.). Assume that we select "Accuracy". You can also trend a specific "Cell value", this is the last selection in the list. In this case, the cell must have a name.

3. Now some more fields become visible, now select:

- The parameter you want to trend (Tube voltage, Exposure, Exposure rate, mA, etc.).
- The value from the analysis. Here are the macro names listed.
- Modality (Radiography, Mammography, CT, etc.).
- Calibration.

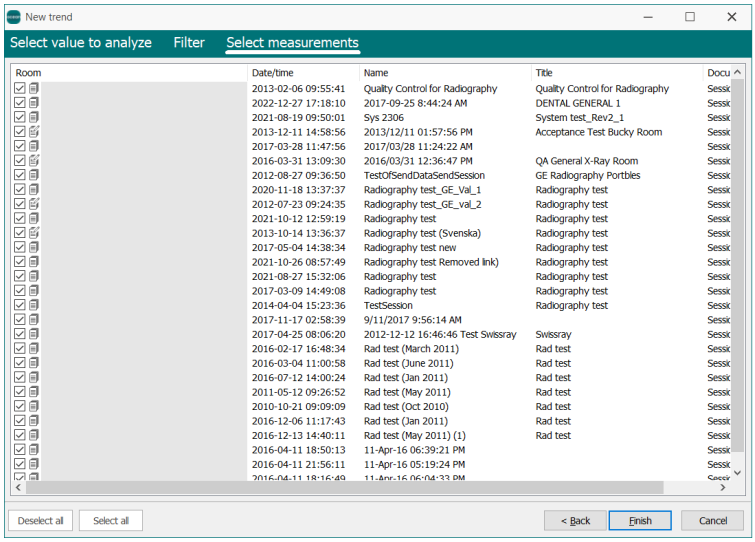


4. Click on **Next** when you are ready.



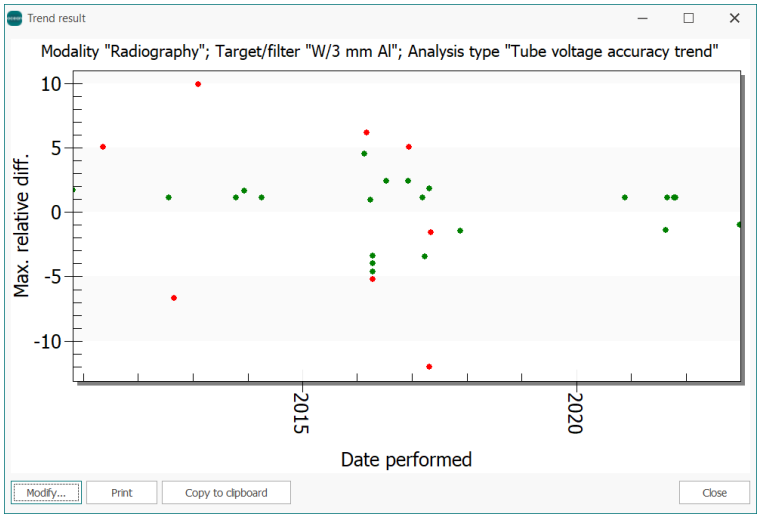
Here you have a possibility to filter what you what to see in your trend analysis. You can specify names or ID/Ref for your filtering. Note especially that you can specify ID/Ref for analysis to filter out just the analysis filter a subset of analysis of a certain type.

5. When you are ready click on **Next**. The data according to your filtering will be collected and a list will be shown with the Sessions (and Real-time displays if you have included that) that match your criteria.

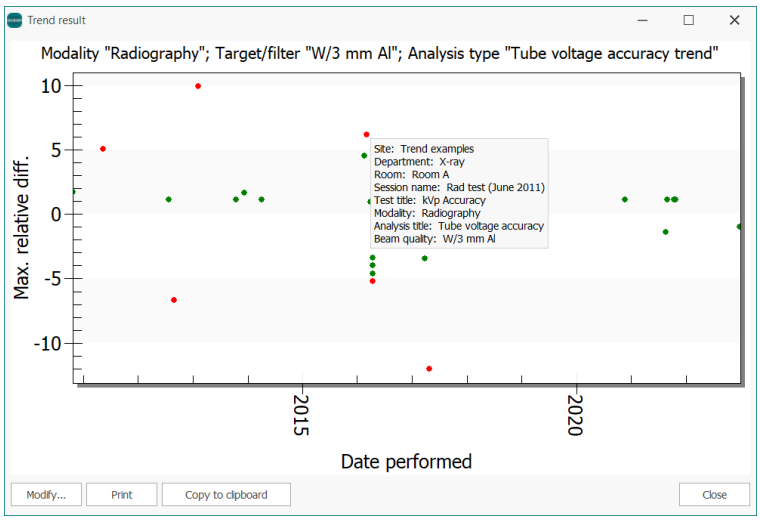


You can manually exclude items if you want by uncheck corresponding Session.

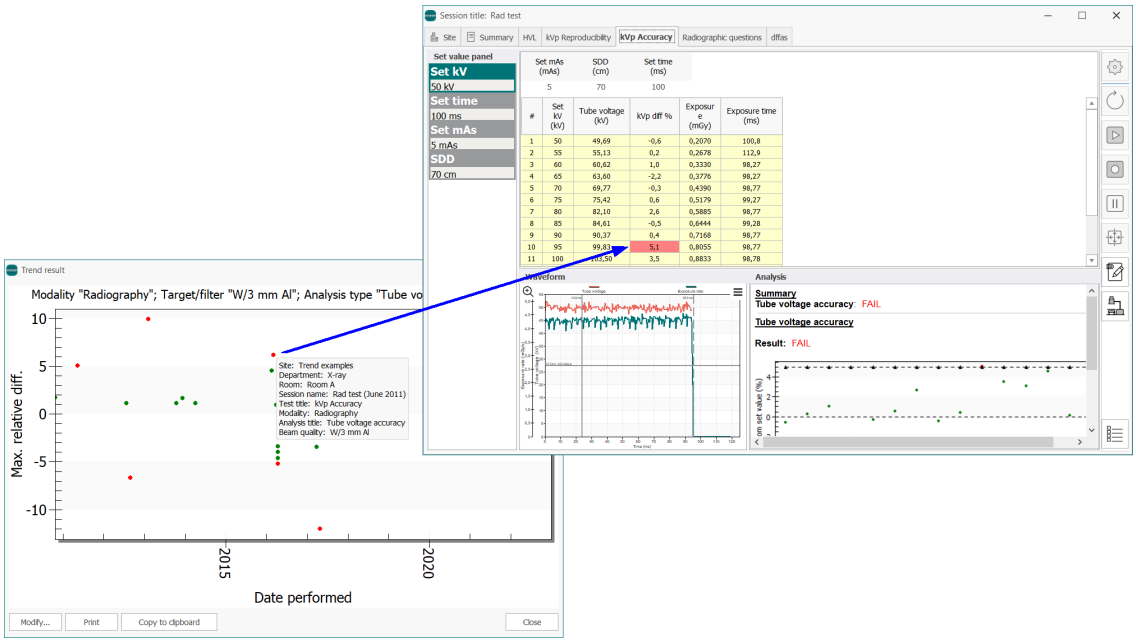
6. Click on **Finish** to see the result.



A scatter plot is shown, on the x-axis is time and on the y-axis the parameter you selected to trend. You can hover with the mouse pointer over the data points to see information about the measurement.



You can also click on a data point to open corresponding measurement. Click for example on a red dot that indicates a value out of range.



Click in the upper right corner to close the Session.

7. Click on **Modify** if you want to modify the filtering criteria in some way. You can also print the result or copy it (as a picture) to the clipboard and further into other documents.

8. Click on **Close** when you are ready. The trend result is kept and you can review it again by clicking on the **Trend** button again.

9. Click on the **New** button if you want to make a new Trend analysis.

Chapter 8

Studio View

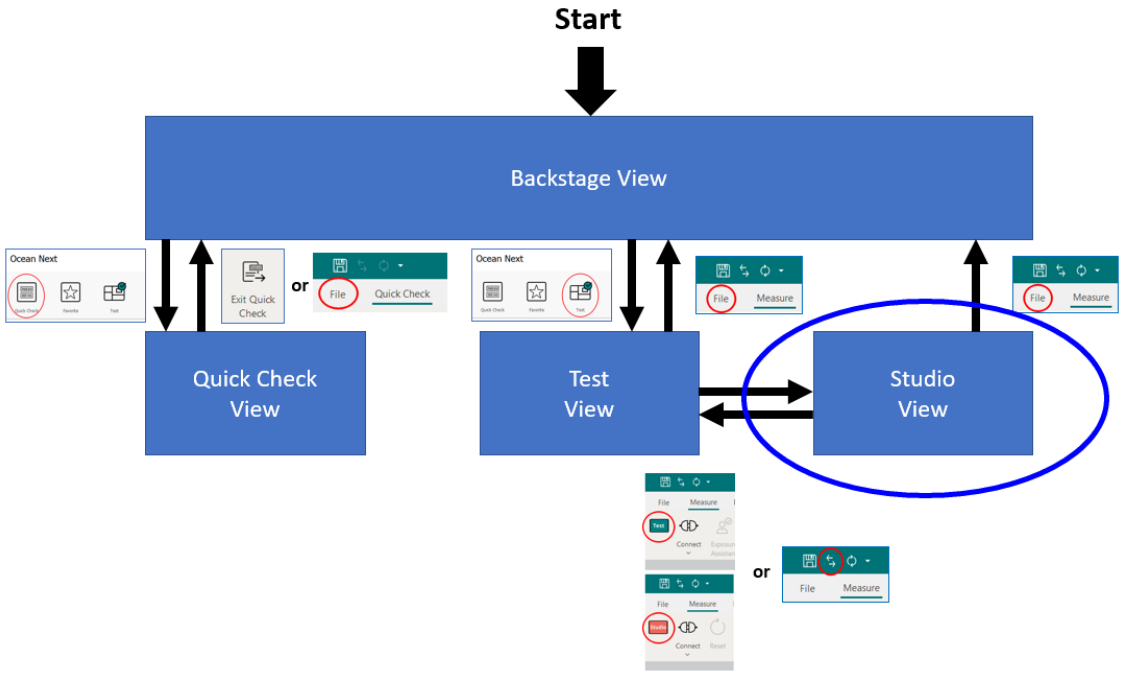
8 Studio View

You use the Studio View when you create and modify your Session Templates involving the following:

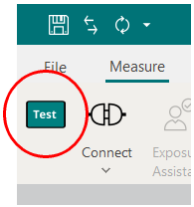
- Defining which columns you want to have (measured values, set values and user-defined values or calculations).
- Defining Set Values, for example Set kV, Set mAs, etc.
- Defining specific meter settings when required.
- Set up analysis and compare measured values against set or reference values.
- Defining pass/fail criteria.

The Studio is the same as the main view in Ocean 2014 and can, as in Ocean 2014, also be used for measurements. However, the Test View is optimized for this purpose and is recommended to be used when you do measurements. All functions from Ocean 2014 are still present in the Studio View and and can be used.

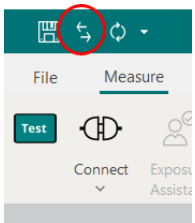
It is assumed that you are familiar with the Test View when you start to reading this.



Unless you actively select the Studio View, you will automatically come here if you open a Session Template from the database tree or from the Backstage. You may also want to go to the Studio View if you during a measurement want to modify the Session you currently work with. In that case, from the Test View, you click the indicator the left on the Ribbon bar:

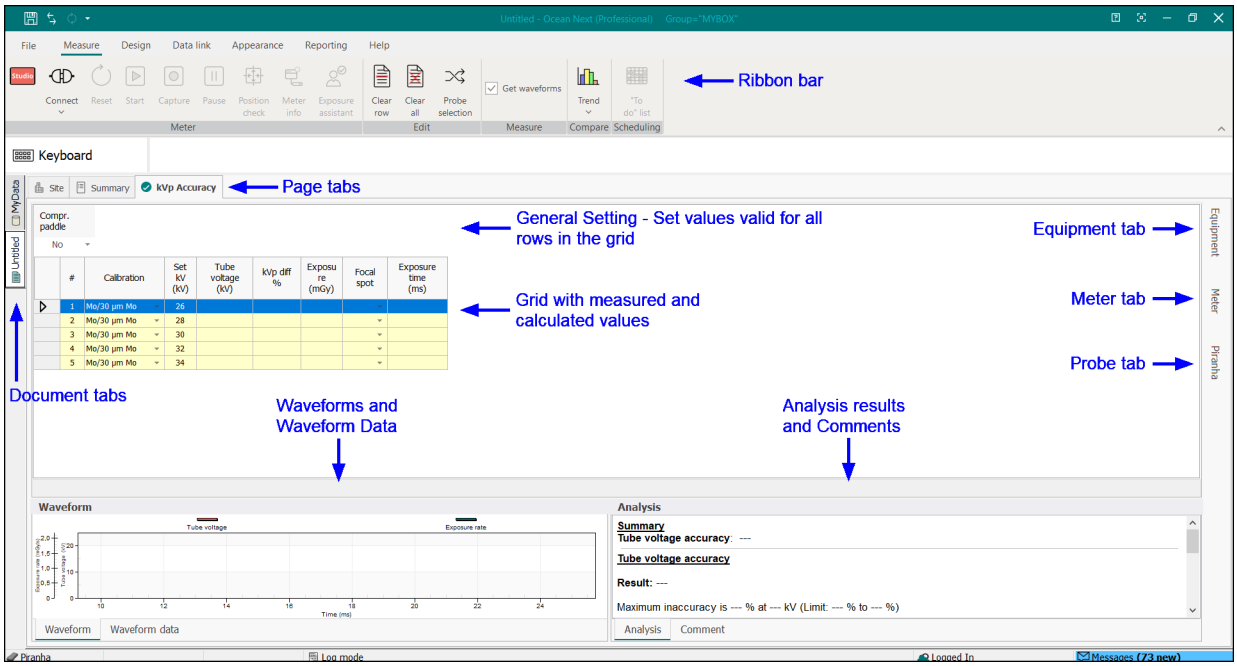


or you click on the button on the title bar that toggles between Test and Studio View:



When you have modified the Session you click the same button to return to the Test View and can continue the measurement.

If you are working creating new Session Templates or modifying existing templates, you will be using the Studio View. The picture below shows how the Studio View typically looks like when you have a Session loaded. However, note that it can look different if you open a Session or Session Template. The Studio View does not have a fixed layout, and Sessions are shown as they are designed.



Below are the different parts of the Studio View described.

Ribbon Bar

The Ribbon bar at the top provide all the main functions, see topic Studio Main Functions for more information.

Equipment tab

When a Session Template has been assigned to a Site, the equipment in selected room is shown here.

Meter Tab

Settings for used meter are available here. The most common settings are described in the topic Meter and Probe Settings.

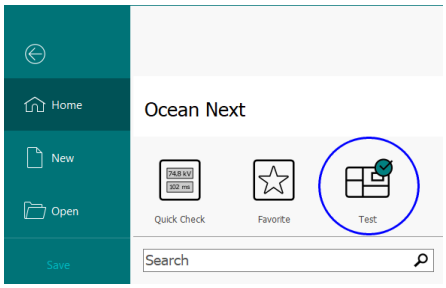
Probe Tab(s)

Settings for used probe(s) are available here. The most common settings are described in the topic Meter and Probe Settings.

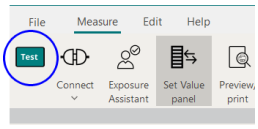
8.1 Overview of Studio View

There is no button to click on to directly go to the Studio View. The Studio View is automatically selected when you open a Session Template for editing or you can reach it from the Test View.

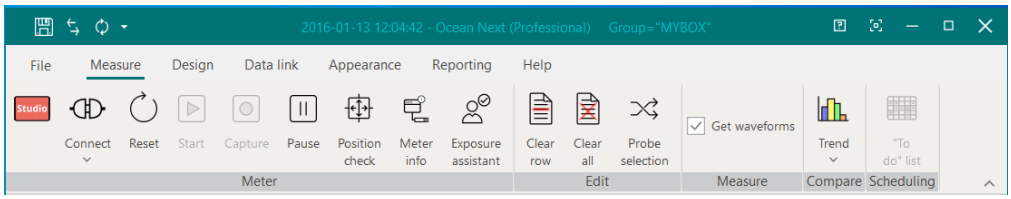
To reach the Studio View via the Test View:



Click on the **Test View** button and the on the "view indicator" on the Test View Ribbon bar:



In this topic the main functions on the Ribbon are described.



To the right is an indicator showing current view, in this case "Studio View". You can click on it to toggle between Studio and Test View.

The main functions are:

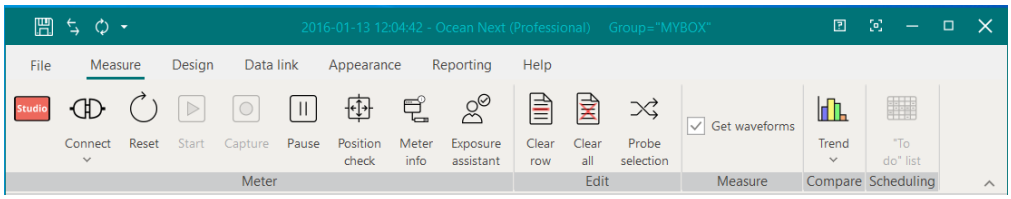
Measure	Functions you need when you do measurements.
Design	Functions you need when you create or modify templates.
Data link	Functions you need when you use Ocean Next with Microsoft Excel
Appearance	Functions you need when you want to change how things appear on the screen if you use the Studio View to measure. If you use Test View a fixed layout is used and nothing needs to be done when creating the template.
Reporting	Functions you need for reporting.
Help	Here you will find help on how to use Ocean topic by topic.

Many of the functions are also available via a "right-click" with your mouse. Simply right-click on an object and a menu will be shown with the functions available to you for that specific object.

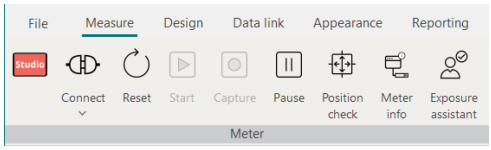
8.1.1 Measure tab

You must actively select the Studio View if you want to do measurements here. Ocean Next will by default take you to the Test View when you load as session and starts a measurement.

Most of the functions you will need when you make measurements using the Studio View are located on the Measure tab of the Ribbon bar. The different functions are divided into separate groups.



Meter



These are functions related to controlling your instrument. The settings are also available on the Meter settings tab on the right of the Ocean Studio screen.

View indicator - Click here to toggle between Studio and Test View

This indicator shows which view you currently use, you can also click on it to toggle between Studio and Test View.

Connect - This function establishes communication between your instrument and Ocean

Make sure that the meter is connected to the computer (via USB cable or Bluetooth).

You can toggle between **Keyboard** and **Connected** by clicking on the upper part of the button. With *Keyboard* active you must enter all measured data manually via the keyboard. When the meter is connected the measured data is transferred automatically from the meter to the Main screen grid.

If you click on the lower part of the button a third option, **Disconnect**, is available. Use this option only in the event you need to:

- Turn your meter off and then back on again.
- If you need to restart meter communication (for example, if you want to switch from one meter to another one).
- If you want to stop meter communication (for example if another program should use the meter while Ocean 2014 still is running).

Note!
It is recommended that you turn off power save mode or sleep mode on your computer while you make your measurements with a meter connected. You may experience problems with meter communication if your computer goes to sleep mode or power save mode automatically.

Reset - Manual reset (zero-adjust)

You click on this button when you need to reset the meter. This is normally done automatically but you may have to do it manually in certain situations, for example:

- When you measure at very low signals and use "Free run" or "Timed" measuring modes.
- When you suspect that the meter, for some reason, measured an incorrect zero-level.

Start - Start measuring manually

This button is used in **Free run** and **Timed mode** to start the measuring sequence.

Capture - Click this button to capture a value manually

You can use this button during long measuring sequences (for example when testing a fluoroscopy unit) to capture the data at a time of your choose. For example, you may wish to wait until the data is stable before capturing a value. You must always use this button to capture the measured data when **Free run** mode is used.

The waveform is also captured at the same time as you click on this button (if the checkbox **Get waveform** is checked). Note - free run mode doesn't provide a waveform.

Pause - Pause measurement

This button is used if you don't want the meter to measure even if the detector gets radiation or trigger for some other reason. You can use it for example when you use fluoro and the monitor to position a detector on the image intensifier.

Position check - Verify that your kVp detector is positioned correctly

You can use this to verify that the kVp detector is correctly positioned in the X-ray field. It is always recommended to use this function, but it is especially important in the situations described below:

- For all small X-ray fields or when there is a risk that the entire detector may not be irradiated (for example CT and dental)
- If the detector is positioned very close to the focus point
- If the radiation field varies over the irradiated surface. I.e. strong heel effect on older mammography units.

The position check results are not stored with the measured data. If you wish to store this value, you can add a special column to your test and the position check results will be saved with the test in a column of its own.

Position check is by default initiated automatically for mammography. This function can be turned of in the Program options.

Meter info - Get meter information

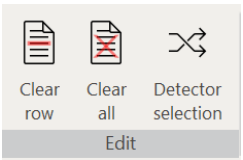
Click on this button if you want to know more about the connected meter and Ocean. The following information is provided:

- Meter DLL location and version
- Ocean Next version
- Meter serial number
- Hardware versions
- Model
- Calibrations

Exposure Assistant - Capture a value automatically when measured values are stable

Click on this button if you want to use the Exposure assistant. Values are captured automatically when they are stable. This is especially useful for long fluoroscopy exposures and for light measurements.

Edit



These functions are used for editing the measured data.

Clear row - Clear current row (removes all measured data from current row)

Click on this button if you want to clear the current row. The set values will not be removed with this command.

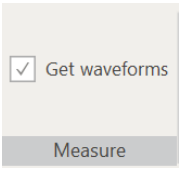
Clear all - erase all data in the object you are working with (removes all measured data from the entire grid)

Click on this button if you want to clear all the rows. The set values will not be removed with this command.

Detector selection - Change the detector

Use this button if you want to choose another detector for your current measurement.

Measure



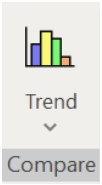
These functions are used when doing measurements.

Get waveform - Enable waveform acquisition for every exposure

The default for this function is CHECKED. This means that a waveform will be acquired for every exposure. Uncheck this box if you don't want waveforms to be acquired for each exposure.

If you prefer to acquire waveforms sometimes but not all the time, you can specify in the test template whether or not you want to acquire the waveform. For example, if your test template contains four measurements, and you only want to acquire two waveforms, you can choose which two of the four measurements will acquire the waveform and which two will not. If you use this option it will override the **Get waveform** checkbox.

Compare

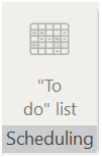


From here you can do trend analysis and easily look up previous measurements done earlier in the same room.

Trend - Trend analysis

Click on this button to start Trend analysis. You can compare how different parameters change over time.

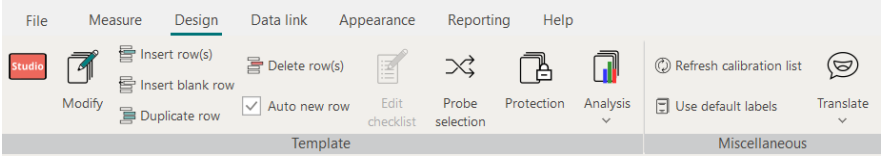
Scheduling



This is not used in Ocean Next.

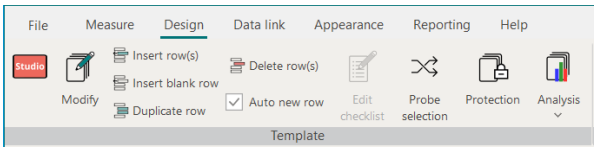
8.1.2 Design tab

The functions you will need when you modify tests and templates are located on the Design tab of the Ribbon bar.



You can use the same templates for both Piranha and Cobia, a template built for Piranha can be used with Cobia and vice verse. It is recommended, if you intend to use your templates with both Piranha and Cobia, that you build your templates for Piranha. The reason for this is that Piranha has more settings and you can in this way setup the templates to work in the best way with Piranha. If you do the opposite, Ocean will select default settings for the Piranha when a value is missing (due to it doesn't exist for the Cobia). If you build templates without a meter connected; go to program options and select default "Meter type" in the Preference section.

Template



These functions you use when you want to modify a test or template.

Modify - Modify Template

When you click this button, the template design mode is enabled. You can go back to working mode again by closing the window or clicking the Cancel button.

Insert row(s) - Add more rows to current test or checklist

With this function you can do the following:

- Number of rows to insert
- Insert first, last or before/after active row

Inserted rows will not be assigned to any analysis.

Insert blank row - Add a blank row to the grid

Add a blank row in the grid. This row has no function, it is just used to increase readability.

Duplicate row - Duplicates selected row

Selected row is duplicated, the new row(s) will be a copy of the selected row, including any analysis, cell formulas, background and font color.

Delete row(s) - Delete selected rows

Delete the selected row(s). By default, this function deletes the current active row. You can select a range of rows for deletion by using mullti-selection.

Auto new row - Select if you want to add new rows automatically

If you have Display license level, this checkbox is always checked.

If you have Connect or Professional license level, you have the ability to create real-time display templates with a specific number of rows pre-defined. When you use a real-time display template, just make your measurements and when you wish to stop, uncheck this box and no further rows will be created.

Edit checklist - Edit questions in a checklist

Click this button if you want to edit a question is a checklist.

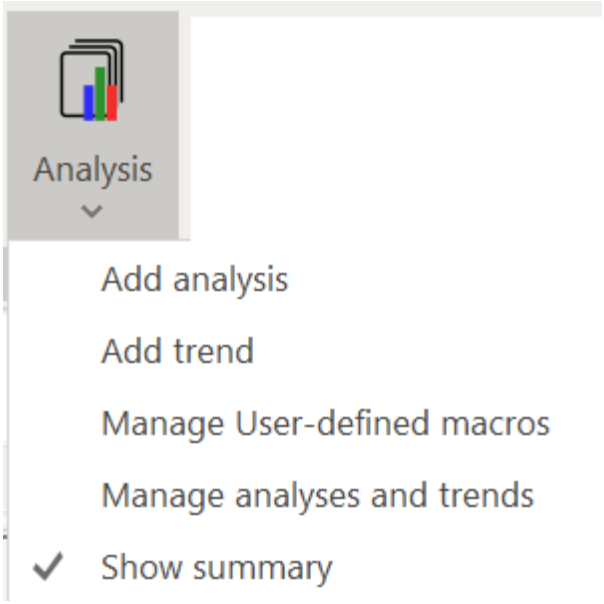
Detector selection - Select or change the detectors to be used

When you click the Detector selection button, the detector selection dialogue will be shown and you may select any detector you have in the list to be used with your template.

Protection - Add protection to templates

A template can be protected from modification.

Analysis - Modify analysis in active template



Note: The functions under the Analysis drop down icon can also be reached by right clic in the white area of the Analysis display.

Add analysis

This function is to add or change analyses into the current test template.

Add trend

This function is to add a trend analysis into the current test template.

Manage User-defined macros

This function is to add or change user-defined macros in the current test template.

Manage analysis and trends

This function is to manage the current analyses and trends in the current test template.

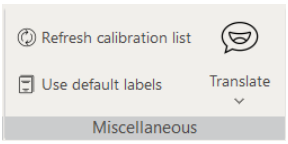
Show summary

This function is to add or change analyses in the current test template.

Add displays - Manage displays

this button if you want to add or delete displays in the template.

Miscellaneous



These functions you use when you want to modify a test or template.

Refresh calibration list - Refresh the calibration list stored in the document (only mammography)

This button is to load current (from Program options) calibration list for mammography into the open document.

Use default labels - Force user-defined labels into the template

When you click this button is active template updated with default labels as they are specified in Program Options.

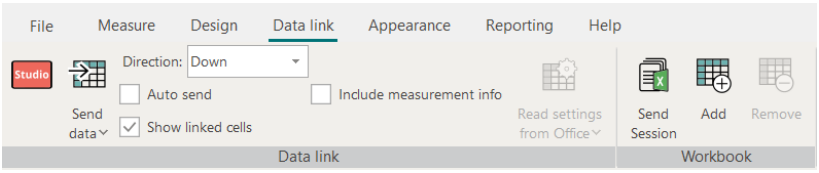
- **Translate** - Translate standard texts (Not available, no other language is currently supported)

Used to translate standard texts to another laguage.

Note: Currently is not other language supported.

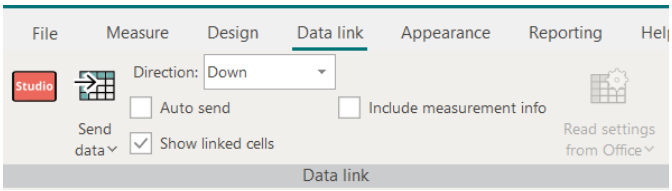
8.1.3 Data link tab

The functions you need when you want to send data to Microsoft Excel are located on the Data link tab of the Ribbon bar. Functions are divided into two different groups.



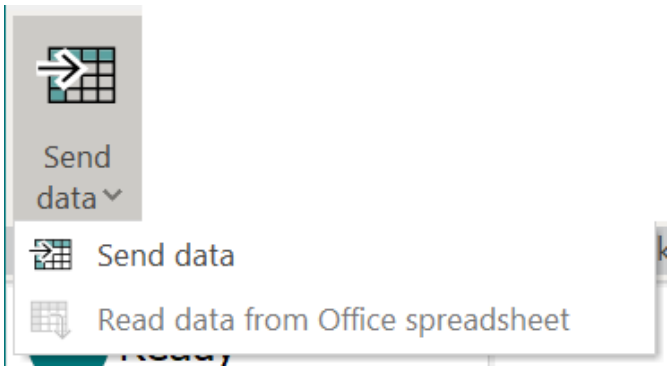
Each group are described hereunder.

Data link



These functions are related to exporting data to a spreadsheet.

Send data - Send data to Excel



Send data

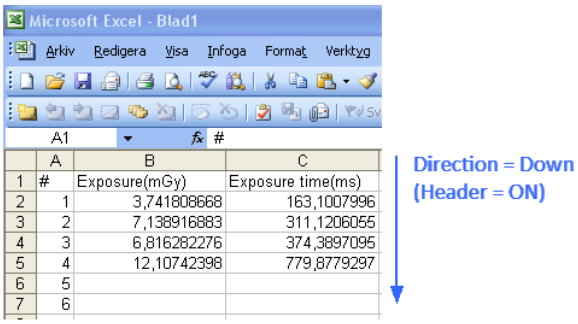
You can manually send data to a spreadsheet by using this button. The data will be sent to the spreadsheet according to the currently selected data export mode.

Read data from Office spreadsheet

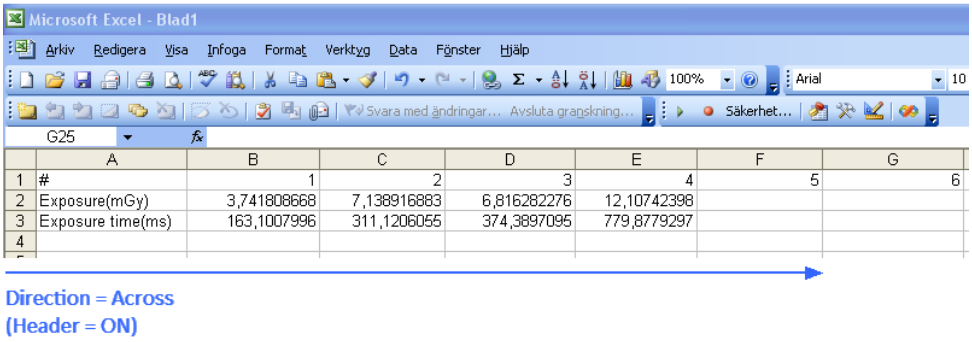
Data can read from an Excel spreadsheet into Ocean if you use linked cells. This makes it possible to import data from other meters into Ocean.

Direction - Manually select direction to fill the spreadsheet (horizontal/vertical)

Data can be sent using the Down or Across direction. This is used only when you are not using direct linking between cells in Ocean and in Microsoft Excel.



	A	B	C
1	#	Exposure(mGy)	Exposure time(ms)
2	1	3,741808668	163,1007996
3	2	7,138916883	311,1206055
4	3	6,816282276	374,3897095
5	4	12,10742398	779,8779297
6	5		
7	6		



	A	B	C	D	E	F	G
1	#	1	2	3	4	5	6
2	Exposure(mGy)	3,741808668	7,138916883	6,816282276	12,10742398		
3	Exposure time(ms)	163,1007996	311,1206055	374,3897095	779,8779297		
4							

Auto send - Enable auto send

With auto send on, data is transferred automatically from your meter to the spreadsheet after each exposure. Auto send can be used with all link modes, but it's optional since the data can always be sent by using the "Data send" button.

Show linked cells - Enable indication for linked cells

This is only used for cell-to-cell mode to indicate which Ocean cells that are linked to a spreadsheet.

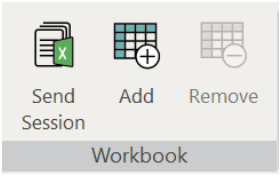
Include measurement info - Include information about the exposure

The following information is attached to each exposure:
- Date and time
- Inspector name
- Meter type and S/N
- External detector type and S/N

Read settings from Office - Read meter settings from the Excel workbook

You can define meter settings in your Excel workbook to control the meter.

Workbook



These functions are to help you quickly connect or disconnect a workbook to an Ocean template.

Send Session - Send a complete session to a workbook

You can send a complete session to a workbook.

Add - "Link" a workbook to current template

This button is used to "link" a workbook to a test. There are three ways to "link" workbooks:

Embed workbook: When you use this type of "link", a copy of the "linked" workbook is stored (embedded) inside the session or real-time display.

NOTE: In this case, Ocean works with the embedded copy of the workbook and the original file is not needed when you use the Ocean template to which the workbook was "linked". Using this function gives users the benefit of never losing the workbook by accident.

Associate workbook: When you use this type of "link", it will be established to a user-specified workbook.

NOTE: Once you "linked" a workbook to an Ocean template using the Associate function, that workbook must be available on your computer (or other media such as a CD or flash drive) so that Ocean can find it and create the link whenever you use the Ocean templateto which the workbook was linked. It is, therefore, recommended that you either store your "linked" workbooks in a clearly identified folder on the computer you usually use Ocean with or on other media (such as a CD or flash drive) that is clearly marked and readily accessible when you use Ocean.

Free workbook: Use this type "link" when you just want to create a temporary link.

NOTE: In this case the link is not saved when you save the real-time display or the session.

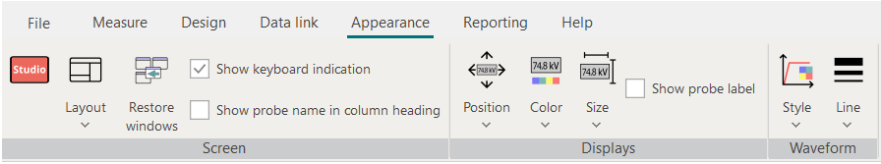
Remove - Delete the link to the workbook

Use this function to delete a link to an associated workbook or remove an embedded workbook.

8.1.4 Appearance tab

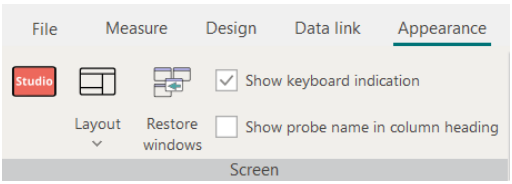
The controls that customize the Studio View layout (your workspace if you use the Studio View) are found on the Appearance tab of the Ribbon bar. There are screen layout functions, display layout functions and waveform appearance functions available on this tab.

Note: Most of the settings are not required and has normally no affect since Ocean Next uses the Test View as default for all measurements.



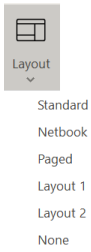
Each group of functions is described below.

Screen



These functions are related to the Main screen layout and appearance.

Layout - Change the layout for the workspace (not required for Test View)

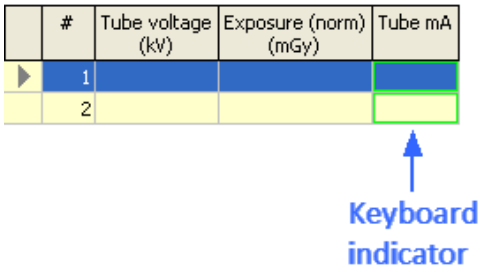


This button is used to toggle between different layouts. You can also arrange the screen layout manually.

Restore windows - Restore windows (not required for Test View)

This button is used to restore the default screen layout.

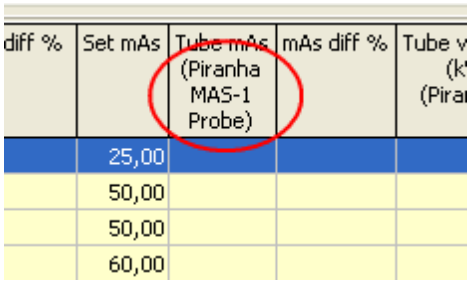
Show keyboard indicator - Indicates that a column needs manual keyboard input



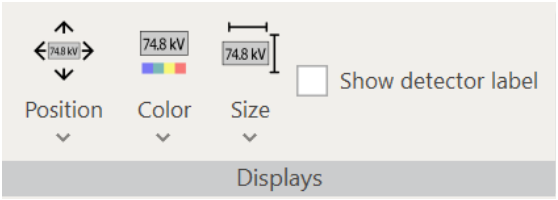
When you use Ocean without a Piranha or Cobia, or if you don't have a certain detector for the job, you have the option to use this function to mark columns that will need to have values entered into them manually. The special columns requiring input from you via the keyboard are marked with a green outline as you see on the above picture.

Show detector name in column heading - Show the detector name in the column heading (not required for Test View)

This checkbox is used to show or hide the detector name in the column heading:

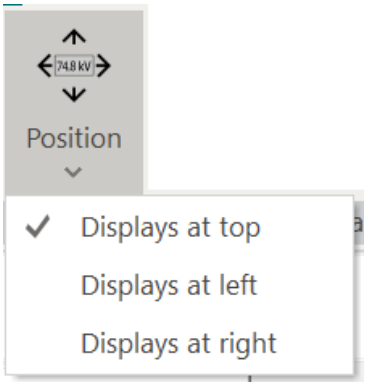


Displays

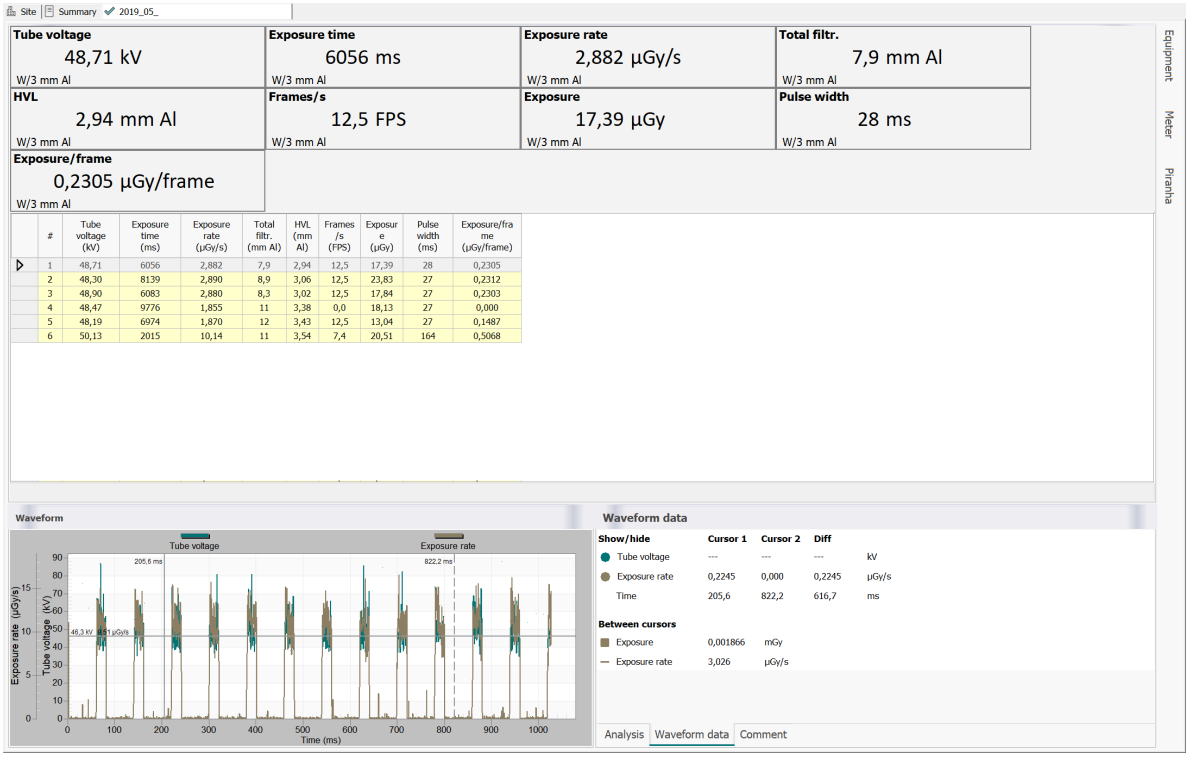


These are the functions you will use to manage the look of your screen and displays.

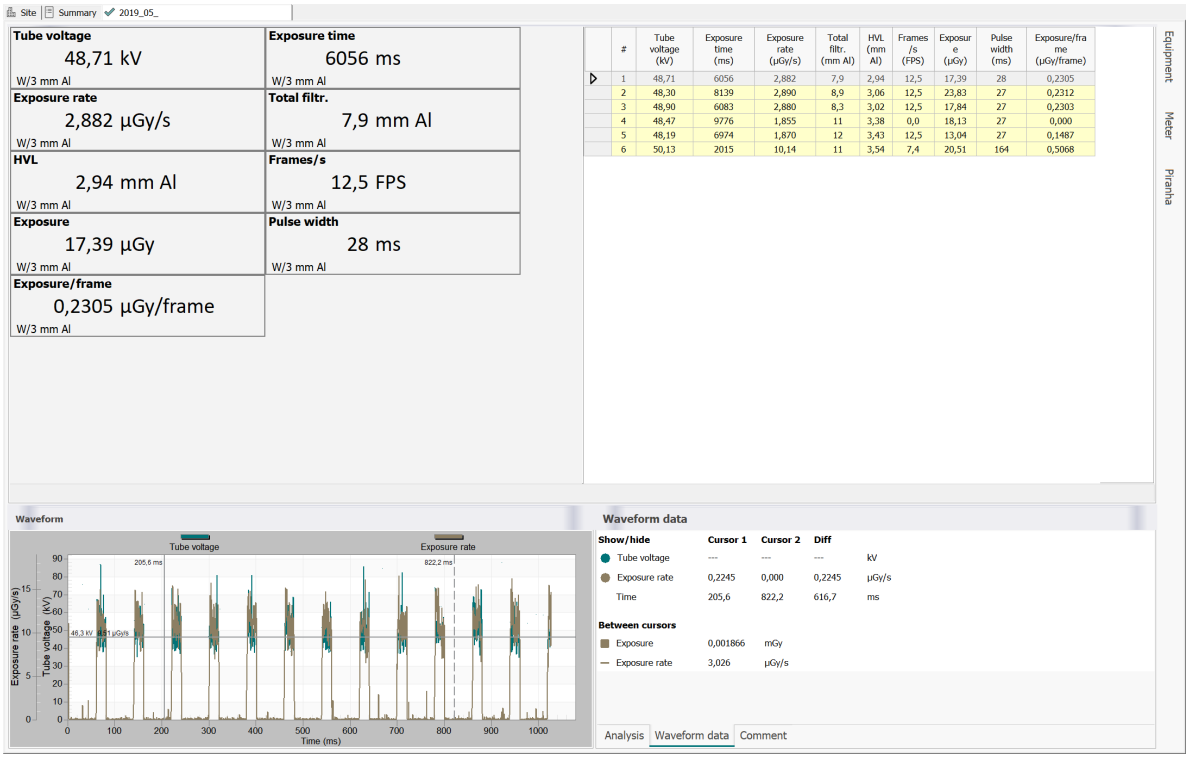
Position - Select position for the displays (not required for Test View)



Ocean provides three options, Left, Right or Center for display positioning.



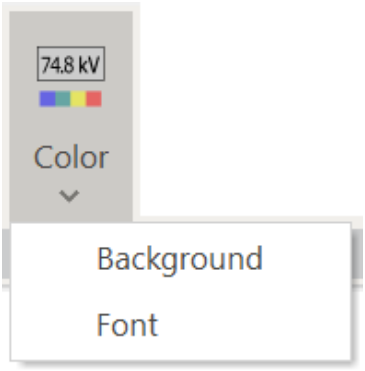
Top



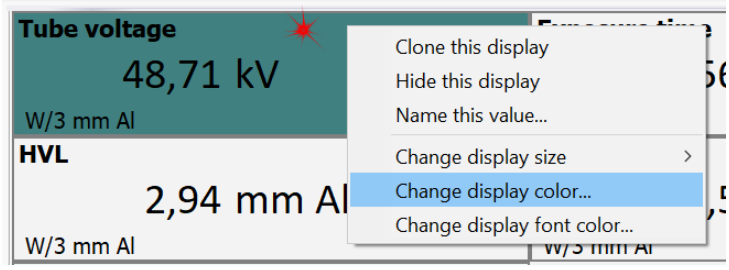
Left

Right

Color - Select color for the displays (not required for Test View)

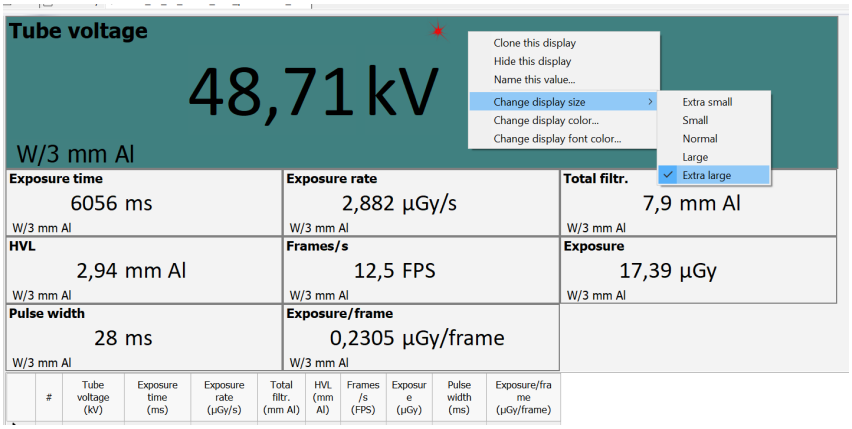


You can change background and font color of the displays by clicking on this button. Any changes you make here will affect every display.
If you want each of your displays to have a different font color, you can do that by right-clicking on each display (upper part of the display area) and choose the Change display color... or Change display font color...



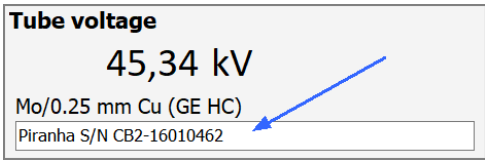
Size - Select size for the displays (not required for Test View)

You can change the font size of the displays by clicking on this button. Any changes you make here will affect every display.
If you want each of your displays to have a customized font size, you can do that by right-clicking on each display and choose the change display (upper part of the display area) and choose the font size option.



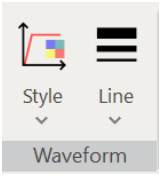
The sizes will scale and adjust to the screen size.

Show detector label - Show detector name/serial number (not required for Test View)



When you are using several detectors at the same time, it would be very useful in some cases to see which display is showing readings from which detector. If you check this box, the detector information will be shown in the displays.

Waveform



These functions are related to the appearance of the waveform display.

Style - Change the style of the waveform graph (not required for Test View)

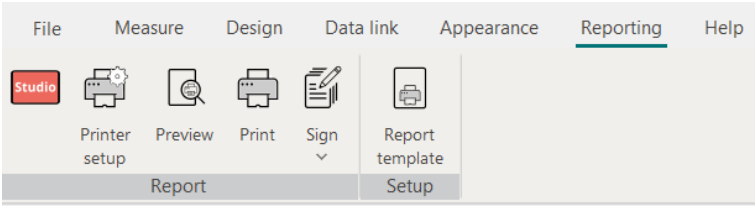
There are three pre-defined styles of waveform graphs to choose from: Normal, Paper and Scientific.

Line - Select the line width for the waveform plot (not required for Test View)

There are three possible line widths for waveform plotting: "Thin", "Normal" and "Thick".

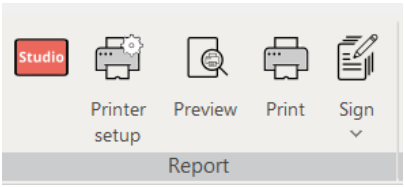
8.1.5 Reporting tab

The functions for creating and editing reports as well as print the reports are found on the Reporting tab of the Ribbon Bar.



The report control functions are divided into Report functions and Setup functions and each group is described below:

Report



These are the functions you will use to generate a printed report.

Printer setup - Opens the printer setup dialogue

Click here to open the printer set up dialogue.

Preview - Preview the report on the screen

This is a print preview function that allows you to see what is in your report and how it will appear on the pages when it is printed.

Print - Print the report

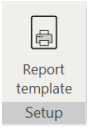
Use this button when you want to print your reports.

Sign - Click here to sign the report

You can specify a signature that can be used to digitally sign the report. A signed report is locked from further modification.

If you click on this button and the report is already signed, you will be asked if you want to remove the signature.

Setup

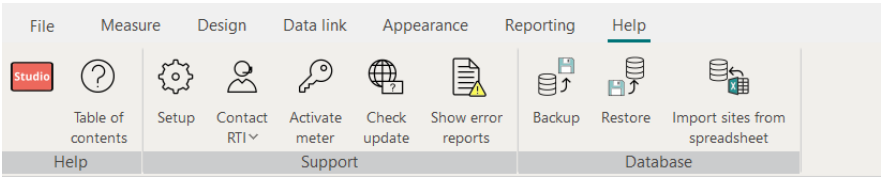


Here you can modify the report template that defines the layout for the report.

You can select report template or modify current report.

8.1.6 Help tab

The help system contains topic by topic detailed information on Ocean Next's many features and functions to help you get the most out of Ocean. You can easily access the help system by clicking on the Help tab on the Ribbon bar if you are not sure how to use a certain function or feature.



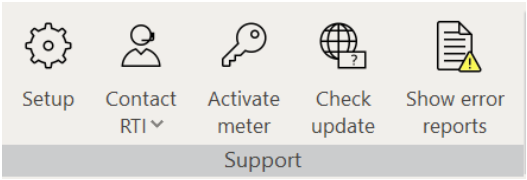
Each group of functions is described below.

Help

Table of contents

This buttons give you quick access to the help system table of contents and the FAQ section.

Support



This section is used for various support tasks.

Setup
Click on this button to activate the Setup procedure. This will allow to reload default templates, and restore default units of measure etc...

Contact RTI
Use this button if you want to contact RTI or report a problem or suggest an improvement. There are two choices:

- **Review** - Send comments, suggest improvements and new functions.
- **Make support file** - Create a support file to report a problem or suggest an improvement.

Activate meter
Use this button to install a new license into your meter.

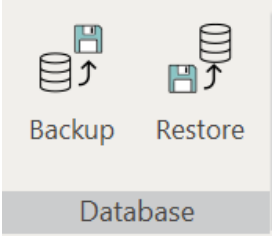
Check update

This function will check if you are running the latest Ocean software and meter firmware. Note that the meter firmware is only checked when your meter is connected to Ocean. To use this feature your computer must have an internet connection.

Show error reports

All error reports that are generated are saved in a folder on your computer. Directly when one is generated, you are always asked if you want to send it to RTI. You may not be able to do that and it will be available in this folder. Click on this button to open the folder.

Database



With these features backup and restore of the Ocean database is handled.

Backup

Click on this button when you want to make a backup of your database. A dialogue will be shown asking you to choose where you want to store the back-up file. It is highly recommended that you back up your data on regular basis.

Notice: You can also activate automatic backup evey time you exit Ocean. This is done form Program options.

Restore

Click on this button when you want to restore a backup of your database.

Location of the database file

You may want to search for the database file manually. Depending on the operating system, the database file can be found at various locations:

C:|Users|your username|AppData|Local|RTI Group|Ocean Next|ProgramData

8.2 How to create a Session Template

This printed **Ocean Next User's Manual** gives an overview of Ocean Next an our cloud services, myRTI. For a complete description including how to create and modify session templates, read the **Ocean Next Reference Manual**.

It is available in PDF format from RTIGroup web page. Go to **Resource Center**, scroll down and click on **Documentation** and select the **Manuals** tab.

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