

# Ocean 2014

## News in this release



This is a new Ocean 2014 for **Cobia**, **Black Piranha**. A **Red Piranha** that has been upgraded to firmware version 4.0A or higher can also be used with Ocean 2014. Barracuda cannot use Ocean 2014.

The most important news in this release is the support for **Cobia**. There are three models in the Cobia family that now are supported in Ocean 2014.

- Cobia Flex (model 2003)
- Cobia Flex with built-in mAs (model 2004)
- Cobia Sense with PC communication (model 3002)

### What are the benefits with Cobia in Ocean 2014?

You will no longer have to write the displayed values manually, Ocean will take care of that for you. In short terms, existing Cobia users will now have everything that Ocean 2014 can offer, saving data, printing reports, using analyses etc. You can for example now do CTDI measurements with the CT Dose Profiler.

With Cobia you don't have to worry about sensitivity, kV-ranges or waveform types. It is automatic!

Ocean 2014 can connect to Cobia through USB or Bluetooth.

Waveform sampling speed is higher than Piranha, it is 3 kHz and it is possible to measure at the highest rate up to 7 s. A Piranha can measure at its highest rate up to 1 s. You can of course measure a longer time than 7 s if needed; a Cobia can measure up to 180 s, but with a decreased sampling rate.

### Ocean templates

- All Piranha templates do also work with Cobia. Since that Piranha has more possible settings than a Cobia is our recommendation to build your templates for the Piranha. If you build a template for a Cobia and then use it with a Piranha it'll use default settings for the specific Piranha settings that doesn't exist in Cobia

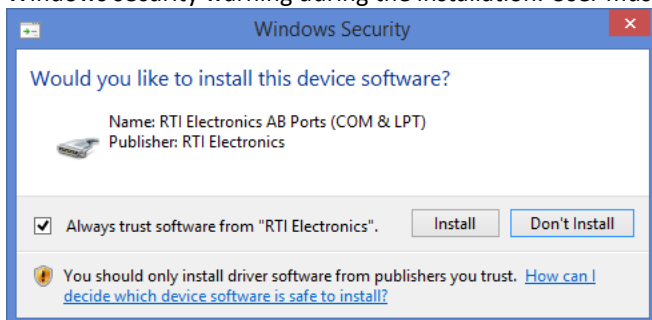
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# Ocean 2014 version history

**2015.06.01.175 (current version)**

## Known limitations

Description
"More" button disappears if tab is pinned.
Ocean 2014 does not run with 64-bit Microsoft Office.
Don't use the Cancel button in the upper right corner to close the Detector Selection wizard. This may cause the wrong detector to be selected.
Measuring with a Cobia together with a DCT10 containing dose and dose length calibrations will only display a measured value for dose in Quick check. As long as the DCT10 only contain one of the units it will measure and display the value correctly.
Windows security warning during the installation. User must click install 
The functionality to Auto-start with USB is not working with Cobia, just Piranha.
For best user experience in Ocean is it strongly recommended to follow our recommended exiting sequence of Ocean. Always exit Ocean first before switching of the meter or pulling the USB cable.
When exiting Ocean with the Cobia connected it can drift and result in that the displayed value on the Cobia isn't matching the one previously displayed in Ocean.
Measured dose values are compensated based on kVp and total filtration. When measuring dose in Ocean Quick Check only using an external dose detector there isn't any way to specify these set value and thereby can the dose value be displayed incorrect.
If a cobia's waveform memory is filled then will its graph be drawn as if the exposure would have ended even though it continued beyond that point.
If an external detector contains more than 14 calibrations and is used together with a Cobia Ocean might not be able to use that detector.

## New features

Issue #	Description
7502	Added two new QC templates for CTD: point dose and a general dose profile
7424	Make it possible to add expressions into analysis text
7280	The measuring range for the CT Dose Profiler is widened
7460	Using Ocean trial with a higher license level is no longer requiring the meter to have an already stored license any more.

7528	Restore Cobia settings to defaults upon disconnect
7292	Add the macro \$FWHM to the "in-phantom analysis"
6711	Drag-and drop files from the right side (Explorer window) to the left side (Tree)
6611	Repro analysis has no macros for non-relative MaxDevFromMean and LimitMaxDevFromMean
7290	Add "loading" progress bar for sessions & session templates
5649	Make it possible to select font size for grid and general settings
7269	Extend mA linearity analysis to handle units where only mA can be set
7422	Support "IEC calculation" in the mA Lin test
5459	Show inspector name/company on the summary page
7512	Updated the mammography Combo mode templates with new position check setting
7421	Make all macros available in a user-defined formula
7453	Add zooming of waveforms
7041	Add a choice to the right-click menu when user clicks outside the grid: "Position check only for first used target filter". It overrides setting from Program options.
7281	Added a new mammography calibration (W/Cu)
5875	Improved measurements with mAs for Cobia
7370	Add a correction factor for the Mover, one for each speed.

## Fixed problems

The following problems have been fixed:

Issue #	Description
7366	Bluetooth improvement in Ocean 2014
7434	Change so cobia "connect" process is entirely finished before changing status to "Connected"
7218	Time out when connecting a Cobia Sense with full Mammo Dose Probe
7546	_GetValueAsString: Invalid floating point operation.
6668	ctMeasDoseRaw should have an ID number associated with it. (Code 42A5-48CF)
7501	Crash when trying to print: Operation not supported on selected printer
7198	Piranha: Crash when activating checklist
7529	Cobia RTD/Tests: after selecting Normal mode, Delay remains disabled
7550	"=" feature to open formula editor may give blank formula
7545	Application main form caption accumulates "Untitled" text
7378	Measurement can be blank after exposure ends
7542	Ocean with Cobia improvements
7555	Cobia: measurements shown in grid may twitch
7466	TP correction does not work in Ocean
5635	Protect more Excel calls against VBA_E_IGNORE (namely Worksheet.Select but look for more)
7419	Use the default report template in Quick Check
6727	Change so Export is able to use multiple selections in tree
5312	If a document was not opened successfully, it may not completely close
7354	Search function can be especially slow
7287	Some ribbon state indications are not working properly
7215	AdvExplorerTreeView can raise AV during app exit
7353	improve saving of Options screen changes
6607	Unit doesn't change directly after change of unit in QC
6625	History section is not resizing when main window is resized
7349	ID field not shown/hidden directly after "Import mode" changed
7464	QC ribbon cut-off when screen resolution is minimum supported (1024 pixels)
7368	All adjust pages blank sometimes after Mover added/removed
7455	Trend is not working
7109	Add a "Save Measurements?" option in Quick Check.
4481	When changing calibration using the calibration column in the grid, the kV range under the Meter tab is not updated.

6620	Entered "ID/ref for the analysis" is not displayed when going back to modify an analysis
7213	Report generation can fail when there are many waveform pictures
7196	Excel in Quick check, lets the user do detector selection setup.
7348	When no application in QC is available QC is getting Closed
7454	Right-click on waveform in Quick Check doesn't show the correct menu
7027	Free text incorrectly used when generating the report
7465	Cobia: Change 108 second recording time to 126 seconds
7446	Cobia reports wrong error msgs to Ocean when pulses aren't detected
7416	Adjust the Dose profile shaping filter used for free in air
7355	kV range is not saved in an RTD that only contains an exposure or exposure rate column
7338	CT Phantom type does not show in display
7326	"Waveform value" column doesn't work correctly when detector selection changed in certain ways
6860	Error when starting quick check "No external detector is connected. This means no detectors are available. (Code 6B37-4F52)"

## 2015.01.22.158

This is the first version supporting Cobia.

### New features

Issue #	Description
6882	Two new Quick Check Application and Examples(RTI) templates 1. Mammo Combo mode 2. Scatter/leakage
6779	Add a choice for ("1-phase" or "HF/DC") for Dental in Quick Check
6758	Analysis, hint editor support tables
6960	Support for new "RTI-" detectors
6955	Add Coefficient of variation and limit macros for AEC field balance analysis

### Fixed problems

The following problems have been fixed:

Issue #	Description
6557	Measurement stability checker may not function entirely correctly
6630	There is a problem with the calibration list when it doesn't scroll
6970	Disconnected external probe is still displayed in column heading
6983	Part of the settings screen becomes "disabled"
6982	Disable QC Favorite button if no favorites are available
6933	Waveform recording time setting in QC is not correctly displayed
6866	The CTDI(100,c) value is not calculated and shown when the k-factor is missing
6635	Quick Check transition from Timed to Normal mode caused an exception
6482	Not possible to restore closed Excel window
7111	Quick HVL measurement on 1-phase gives often too low value
7092	Bluetooth connect/disconnect has some odd behaviour.
6808	Error in CTDI analysis frame load if (analysis) CTDI column is missing
6959	Blank default "free text" field label for equipment can cause an error when generating a report
6953	Exposure assistant broken since # 6643
7110	Close history screen causes Ocean to stop working and shutdown

## Service release (2014.09.30.146)

This release is a service release. It fixes some minor problems that were discovered in the previous release. Please read more below.

## Known limitations

Description
"More" button disappears if tab is pinned.
Ocean 2014 does not run with 64-bit Microsoft Office.
Don't use the Cancel button in the upper right corner to close the Detector Selection wizard. This may cause wrong detector to be selected.

## New features

Issue #	Description
6911	A Favorite function has been implemented to Quick Check.
6907	The Application folder in Quick Check can now contain sub folders.
6876	New Generic k-factors for CTDI.

## Fixed problems

The following problems have been fixed:

Issue #	Description
6840	Improved accuracy, in mammography, when measuring with added filtration in between 1.975-2.475 mm.
6821	Ocean 2014 can sometimes seem frozen using Timed mode in Quick Check
6917	To increase the accuracy of kV measurements for CT has the recommended kV range for Position check been changed to recommend 80-100 kV instead of the previously range of 80-120 kV.
6948	Using Timed mode with a time set to more than 20 s could cause Ocean 2014 to display an error message: "Timeout waiting for meter to provide measurements".
6811	Crash in Ocean 2014 if the CTDI column was missing while loading a CTDI analysis
6873	Safety against misspelled license keys has been added.
6748	Keyboard commands such as ALT- C and ALT-S didn't work in Quick Check.
6848	Changed text when checking for an update, in case you already were using the latest version. Previous text was: "No Ocean 2014 update available", new text is: "You are using the latest Ocean 2014 available".

## 2014.08.14.139, 2014.06.13.136 and 2014.04.29.133

This is a new Ocean 2014 for Black Piranha. A "Red Piranha" that has been upgraded to firmware version 4.0A or higher can also be used with Ocean 2014. Barracuda cannot use Ocean 2014.

## Service release (2014.08.14.139)

Current version is a service release that adds support for a probe called "RTI Dose Probe". This is a replacement for the "Piranha Dose Probe". The new probe is a direct replacement of the Piranha Dose probe and has the same specifications. No new functions are added in version 2014.08.14.139

compared to 2014.06.13.136.

## Known limitations

Description
"More" button disappears if tab is pinned.
Ocean 2014 does not run with 64-bit Microsoft Office.
Don't use the Cancel button in the upper right corner to close the Detector Selection wizard. This may cause wrong detector to be selected.

## New features

Issue #	Description
6706	<b>Add ability to insert a blank row</b> You can insert a blank row in the grid to increase visibility
6232	<b>Add possibility to drag-and-drop files to a folder not visible in the grid</b> When you use drag-and-drop to move files, the tree scrolls when you reach the top and the bottom. You can also make a multi-selection and move more than one file with one action.
6685	<b>Save error reports in a folder</b> All error reports generated by Ocean 2014 are stored in a folder. The folder is available via a button on the Help menu. These files may provide important information in case you ask for support.
6698	<b>Make active messages smarter</b> Active messages have are now smarter to reduce the number of steps needed to adjust the meter if a measuring error occur
6678	<b>Quick access to cell formula, cell name and column name</b> You can now just type a "=" sign in a cell and the formula editor appears. If you double-click on a cell or a column heading the name editing dialogue appears directly.
6679	<b>Make it possible to specify Slice width in "mm"</b>
6629	<b>Make it possible to set time trig level in Quick Check</b> Time trig level has been added to the settings page in Quick Check.
5699	<b>Allow CT dose to be measure by using exposure and chamber length</b> It is now possible to measure CTDI and use a CT chamber calibrated in exposure. A new column is added for "Active Chamber length". The CTDI analysis has been modified to support this.
6172	<b>Add a new s-factor for W/50 um (Gio) to the ADG analysis</b>
6565	<b>Make it possible to use analysis macros in user-defined calculations</b> Now are all macros from all analysis in a test available to be used for further calculations in a user-defined formula column.
6515	<b>The "GECT" calibration changes name to "GECT (7°)" and add a new calibration "GECT (10.5°)"</b>
6079	<b>Show indicator for push and pull for the RTI mover</b> The icon for the Mover is now indication if "push" or "pull" is selected.
5946	<b>Add a "Info box" to each row</b> The "Info box" shows all information about the exposure, used meter, date, time and detectors.
5393	<b>Make it possible to extract report template</b> It is now possible to extract a report template form a session or real-time display. It can be saved in a separate file. It can be imported in this way distributed to other users.
6199	<b>Add target/filter macro to AGD, Quick HVL, HVL and CTDI analysis</b>
6187	<b>Add a new \$RowNo macro</b> This macro is available for all analysis that only uses one row. It can be used in the analysis title and will the reference the row the analysis operate on.
6121	<b>Add new analysis "User-defined graph"</b> Two new analysis are available to create graphs (one or two columns). It includes curve fitting,

	with (linear and polynom).
5949	<b>Automatic backup of the database</b> Setup for backup. Backup can be done each time Ocean 2014 terminates or the last time Ocean 2014 is terminated every day. You can also turn off backup completely. All backup files are stored in a folder you select.
5826	<b>Export analysis graphs</b> You can use copy-and-paste to copy analysis graphs to other documents (for example Word and Excel).
6255	<b>Report templates can be exported/imported, see also 5393</b>
6564	<b>Add function for Standard deviation to be used in the user-defined calculation column</b>
6512	<b>Make it possible to do manual CTDI calculation when Ocean 2014 can't automatically find the center position and FWHM</b> You can at any time use drag-and-drop to move the center indicator when measuring with the CTDI and using the built in analysis.
6463	<b>A "instruction" field is added to the session summary page</b> The session summary page is now extended with a new panel "Instruction". It allows you to add comments when you design the session template. This text is part of the template and you can have predefined text here that you modify when you use the session. The existing text field is a "Comment" field and the text entered here is not part of the template, it is considered to be a "measured value".
6281	<b>Make it possible to include pictures in the report</b> Use the attachment column in a test or checklist to store pictures. The pictures can be shown in the report (this is specified in the report template setup).
6212	<b>New History function</b> You can now see one old measurement simultaneously as you do a new measurement and easily compare new and old results.
6180	<b>New Trend function</b> A completely new Trend function is available. You can now create trend graphs by filter on various parameters.

## Fixed problems

Issue #	Description
6614	Some column types are not available for reproducibility analysis
6627	Crash: when deleting the CTDI CTDI analysis applicable to current row
6704	Piranha Dose Probe can't be chosen to measure exposure time on its own
6642	Overflow/underflow on TF signal (S4) doesn't generate an error message that triggers Ocean to change sensitivity
6583	Export to PDP: PDF file can't be opened if you remove the Tested Equipment from the report
6717	Crash when plug-and-play occur when choosing Excel Export selection.
6699	Quick Check doesn't close connected Excel documents in a logical way
6671	Modify cancel message (indicate that clicking on the "yellow field" is equivalent to Alt+X
6707	Detector selection dialogue can appear in Quick Check
6665	Crash: you tried to commit or rollback a transaction without first beginning a transaction
6643	An error message in the exposure or exposure rate column is not recognized if the column is not in the grid
6700	Quick Check application templates are creating a new row automatically
6662	Office panel will not auto-open when adding a free workbook that is already open
6646	Send to Excel leaves an empty waveform
6675	Improve minimized Ocean window used with Excel
6654	Document may not close properly
6670	CTDI axial scan analysis: MinDLP and MaxDLP macros can be wrong units
6663	Integrated exposure cursor value may be shown in wrong units



6653	If you attempt to close the measurement screen while it is still opening, it may not close properly
6613	Quick HVL MeaskVpForHVL and MeasTF macros are sometimes blank
6178	New Site wizard: Generator Name combo box picklist selection does not trigger "change"
6603	Report engine bug: Report engine PDF export component can't be reused
6347	Quick Check Applications not available sometimes with "Connect" license
6267	Quick Check adjust: dismissing the Adjust page before adjust is completed can cause error
6264	Crash: session import can fail: "RoomID" field not found
6231	Crash: Removing Excel document can cause error
6196	Crash: Access violation can occur if cancelling detector BQ selection screen
6581	Crash: Report content editor "Edit texts" page allows insert and ^delete
6570	Crash: Access violation when closing Ocean
6345	Crash: Report preview crashes if no printer is installed
6341	Crash: an error occur after removing a column that has a waveform
6593	A serious problem may occur in Quick Check when multiple detectors are stored in the same detector connector
6256	If there is a line break (~) in a column heading, a space is shown in the real-time display
6229	Equipment selection screen can appear behind the "loading" status panel
6227	mA linearity analysis graph points do not "follow" analysis pass/fail color selection
6225	T20 is not getting the calibration automatically when used in Quick Check
6202	Compression paddle thickness setting is shown for all modalities
6072	Quick Check: Application button is not enabled after opening a saved Quick Check measurement
5413	Remember state and size if adjust/equipment pages has been pinned
4962	Waveform "between cursors" values are not updated immediately with the CT dose profiler
6568	Test "performed date" is sometimes blank
6546	CTDP CTDI waveform center line doesn't move properly
6530	New real-time display templates doesn't follow the default report template in respect to sections shown in the report
6510	Session screen capture may not be up to date
6289	Show correct waveform panels when CT dose probe is used but no data is acquired yet
5197	Address problems that arise when "large fonts" are selected in Windows
6230	The minimized Ocean panel used with Excel may fail to open
6489	Change "spiral" to "helical"
6481	Pass/Fail texts specified in the analysis wizard after "more" are not used
6466	Function to select "default report layout" is not working properly
6365	"Save as default" button may disappear
6184	Calibration information is missing after adding a test template to a session
6188	Crash: disconnecting external probe in Design mode
6024	The choice "More..." disappear when tab is pinned
5761	Piranha model X01 doesn't measure pulses

## 2014.01.07.131 and 2013.11.29.120

This is the new Ocean 2014 for Black Piranha. A "Red Piranha" that has been upgraded to firmware version 4.0A or higher can also be used with Ocean 2014. Barracuda cannot use Ocean 2014.

## Known limitations

Description
Compression Paddle thickness shown incorrectly in Quick Check for all modalities (shall only be shown for Mammography).
"More" button disappears if tab is pinned.

Support for OpenOffice removed.
Ocean 2014 does not run with 64-bit Microsoft Office.
Don't use the Cancel button in the upper right corner to close the Detector Selection wizard. This may cause wrong detector to be selected.

## New features

Issues in **red text** are added in the service release (2014.01.07.131).

Issue #	Description
5617	Add a button for restoring the database (Help menu)
6077	Add a new s-factor for W/0.7 mm Al to analysis AGD(IAEA) and AGD(EUREF)
6147	Change default compression paddle thickness to 0.12 mm Al
6155	Add a field for compression paddle thickness to Meter Settings in Quick Check
5499	Make it possible to drag-and-drop tests in a session by grabbing the test tab.
5522	Add a new display size; "3/row" that are scalable.
5524	Add a new minimized Ocean window when Excel is used. In this way the Excel document is visible and user has access to the most important Ocean controls. See Ocean 2014's Help text for more information.
5529	Backup of database to a pre-defined place every time Ocean 2014 exits.
5538	Add a new function for instant measuring called "Quick Check". This can be used for measurements when there are no demands for extensive analysis or documentation of results. See Ocean 2014 User's Manual and the Help text for more information.
5558	Add support that does the Bluetooth pairing automatically.
5576	Extend the IF-statement to allow text-result and not only numerical.
5593	Improve how Ocean takes the last value for long exposures, sometimes it "catches" a zero or an irrelevant value.
5625	Enable meter setting to be read from Excel. This is the same function that Ortigo had that gives possibility to define meter settings in Excel.
5634	Make it possible to read charge and current from a CT chamber.
5706	AGD(IAEA) calculation extended with s-factors for W/Ag. See Product Note.
5714	Various improvements in the GUI.
5770	The 1-phase algorithm for kV is improved. See Product Note.
5771	Extended compression paddle thickness (up to 0.2 mm now) correction for mammography.
5869	Include more than one user-defined equipment in the report.
5912	Add word wrapping to the grid
5913	Extend checklists to support questions that are up to 300 characters long.
5964	Allow general settings in real-time display templates.
6051	Add an option to allow meter tabs to be expanded and show all settings all the time.

## Fixed problems

The following problems have been fixed:

Issues in **red text** are added in the service release (2014.01.07.131).

Issue #	Description
6097	Error if Piranha is powered on late
6115	Easy to right-click instead of moving the cursor when using a tablet.
6122	Error in comments window
6137	Ocean never shows batter level=100%
6156	Include RTI examples for AGD are corrupt
6157	Error while deleting rows in a template
6182	Calibration is missing when adding test templates to a session

5353	If Auto-close of position check is enabled, it doesn't work correctly with long exposure (Normal mode).
5479	Error report: NodeData.MustBeFacilityNode: TNodeData: Unexpected request! (tntRTMLogFolder) Problem to select things in the database tree after import.
5494	Calibration column not updated if calibration is changed in a display.
5502	Not possible to go to the next row if one column has a measuring error.
5503	Soemtimes time out error after position check.
5504	Detector selection screen allows OK even if no detector is selected.
5506	Error report: "Unknown unit".
5514	Re-direction of Excel export to a new file doesn't work correctly.
5547	Problem with CT generator/model selection when measuring with the CT Dose Profiler.
5555	Error report: Crash in reproducibility analysis.
5563	Printer error can cause problem in Options screen.
5606	The symbol "ohm" becomes "?" or "O" when used in a checklist text.
5610	Unexpected Excel column. Problem when a column higher than AYZ is used.
5611	Error report: BQ setting not found for detector.
5724, 5727, 5729	Can be problem with some models, especially 160 and 140 due to the limitations (no internal detector) in these models.
5736	The Capture button is not working.
5739	kV waveform is not shown above approx. 110 kV for the 45-125 kV range.
5745	kV range is not updated when CT kV calibration is changed on the Piranha tab.
5792	Line-break character ~shall be invisible in the display.
5801	Prevent Close during report generation.
5829	Error report: "ms/point is 0!" error
5902	Date not shown in session summary for completed Checklists
5948	Intermittent database corruption.
5952	Mix up after sorting in the explorer view of the database.
5969	Waveform acquired with Normal mode is corrupt after use of Timed mode.
6046	Double kV-ranges shown for mammography in Keyboard mode.

## **2013.03.18.86**

This is a service release to fix a problem related to the CT dose profiler and measurements in phantom. Please read more below.

### **Known limitations**

Description
Don't use the Cancel button in the upper right corner to close the Detector Selection wizard. This may cause wrong detector to be selected.

### **New features**

Issue #	Description
n/a	No new features in this release

### **Fixed problems**

The following problems have been fixed:

Issue #	Description
5527	Crash when selecting items in the database tree after import.
5548	Problem with generator model/name selection
5519	Potential problem when reselecting an office (Excel or OpenOffice) export file
5554	Crash when using min/max analysis if none column is set to "use for analysis"

## 2013.01.14.85

This release mainly adds support for the RTI Mover and a few other improvements. It fixes some minor problems that have been reported.

### Known limitations

Description
Don't use the Cancel button in the upper right corner to close the Detector Selection wizard. This may cause wrong detector to be selected.

### New features

Issue #	Description
4982	Skip detector calibration selection if there is only one choice.
5275	Make it possible to exclude selected set values from protection.
5322	Make it possible to reverse data direction for linked cells (read data from Excel into Ocean)
5345	Add a new formula Sum(column)
5418	Add RTI Mover support
5444	Expand the reproducibility analysis
5477	Make it possible to use the pass and fail colors for evaluated parameters
5483	Change analysis to calculate columns even if values are not evaluated
5491	Let checklists have a default analysis
5493	Allow multiple instances of Min/Max and Reproducibility analysis

### Fixed problems

The following problems have been fixed:

Issue #	Description
5181	can have AV during ocean start with auto-favorite
5248	Range check error while saving document
5328	AV after delete
5350	Enhance status bar indication
5353	Auto-close position check for long exposures
5378	Auto-close position check is not disabled for long exposures
5392	After normal mode position check, italics may remain
5398	Remove the text about "agreement expires" on Meter Information
5400	Could not convert variant type
5407	Access violation during Ocean exit
5421	CTDP free-in-air dose profile sharpening: avoid sharpening if it is a pulsed waveform
5427	Length limit of document is not enforced.
5431	Unspecified error.
5435	Large database: expanding node can be very slow.
5446	Crash when closing a document while it is opening or activating
5452	Memo column not updated after memo edited
5462	Do not rounding of numbers entered as limit in checklists
5488	CTDI DLP limits not checked

## 2012.10.26.84 and 2012.10.02.83

This release is an update of 2012.10.02.83. It fixes some minor problems that were discovered in this release:

- Not possible to leave a field blank in the Content section of the report layout.
- The main window didn't resize properly
- The Problem to use an existing Excel file as "Free workbook"

## Known limitations

Description
Don't use the Cancel button in the upper right corner to close the Detector Selection wizard. This may cause wrong detector to be selected.

## New features

Issue #	Description
4468	Add the macro \$TargetFile to the CTDI analysis.
4469	Make the Calibration column available for DLP (CT Exposure) and DAP
4599	Make it possible to use "1-shot mammo HVL" for the AGD analysis
4670	Show a message when a signed session is opened. Offer a possibility to remove the signature.
4708	Add a system that warns if the dose reading from the external dose probe (R100-type probes and T20) are uncompensated or if an optimal compensation was not found. This feature is turned off by default. You can turn it on in Program options -> Preferences.
4952 5250	Make it possible to import site information from an Excel or Calc workbook.
4988 5010	New user-interface for the database (Measurements and Library). You now find these tabs at the top of the screen instead of the left side.
4997	Make it possible to reorder, omit and change titles for sections in the report
5001	Add an exposure assistant. This is a function that "looks" at measured values during long exposures (fluoro and light measurements). When data are stable measured values are acquired and you are asked to turn off the exposure.
5007	Make it possible to update site information in finished sessions with new information from the database.
5144	Add expand/collapse to the database tree right-click menu.
5183	Add the unit Gy/min.
5196	Add auto-close for the position check (only available for short exposures, < 2sec)
5198 5249 5250 5270	Add new functions: Abs(x), Min(x), Max(x), HasValue(x), Poly(x; cCn;...;C1;C0)
5203	Make it possible to change name for the embedded/associated file.
5229	Make it possible to turn off the input dialogue for individual rows.
5240	Make it possible to change/translate all texts that appear in the report.
5276	Make it possible to change background/font color in individual cells.
5293	Add report template for Real-Time Display templates
5309	Make it possible to browser for a new workbook if the associated one isn't found.
5321	Take "Direction" (Down/Across) into account when creating links to Excel.
5326	Make it possible to use any combination of mAs, mA * time, measured or Set value when doing the mA linearity analysis.
5376	Remove hints for the ribbon bar since they sometimes hide the information on the status bar.

## Fixed problems

The following problems have been fixed:

Issue #	Description
4027	Default choice for user-defined question is not shown
4133	Cells marked as "Don't show" should be totally ignored for example be excluded from analysis, export and report.
4203	Confusing behavior when starting a session on a site that doesn't have a tube.
4436	Crash: cannot focus on a disabled or invisible window.
4470	Ananalysis sent to Excel/Calc are wrapped if it is in a table.
4486	Waveform indication for delay and window can be wrong.
4566	Analysis exposure is very slow.
4571	The actual paper width is not used whne printing the grid in the report.
4672	Make analysis setup more consistent.
4840	Confusing behavior when modifying an analysis.
4854	It is not possible to use a CT ion chamber if it is calibrated in a exposure unit instead of a exposure-length unit.
4930	Improve import of examples. It should be possible to import new examples without losing existing examples.
4984	Make the Sign button toggle between Sign and Unsign.
4987	Improve formula editor not to move around cursor.
5064	Crash: Access violation at address 004ACD21 in module 'Ocean.exe'.
5074	Range check error in analysis.
5076	formulae do not work if they contain references to a different decimal separator.
5171	Make formulae calculation faster.
5160	Reset is not disabled during RESET.
5169	Problem with waveforms if exposure times are longer than 30 seconds.
5197	Problem if "Large fonts" is selected in Windows.
5215	Crash: Invalid float point operation.
5219	SetAddedHVLFilter is allowed in General settings and columns at the same time.
5220	Crash: AV when using trend analysis.
5224	PDF file is deleted upon close.
5227	"Duplicate row" should also create analysis if the duplicated row has a "one-row analysis".
5230	Cancel should not through away data.
5238	Paper size stored in report can be wrong.
5239	Set time default unit is "sec" in general settings, it should be "ms".
5272	Crash: C:\tmp\10694 release\Src2009_70\Meas\uExpList.pas, line 19496
5279	Crash: Select method of Worksheet class failed.
5289	Not possible to have "Set time" in general settings and get "Time diff %" calculated.
5291	Send data button is not enabled for sessions.
5298	Crash: OLE error 800AC472.
5304	accuracy analysis not used for diff%, diff on some column types.
5315	Checklist status my be wrong on the summary page
5325	Crash: Cannot create file "C:\Documents and Settings\All Users\Application Data\RTI Electronics\Ocean\OceanSetup.ini"
5331	RTD equipment may not appear in the report even though the section is selected as visible

## 2012.05.09.82

This release is a service release.

## Known limitations

Description
If you start a new session by using “New” from an existing session in the same room, Ocean will not ask you to select new equipment. Make sure that the tube and generator selected is the one you intend to test. If not, select new equipment for the test.
Don’t use the Cancel button in the upper right corner to close the Detector Selection wizard. This may cause wrong detector to be selected.

## New features

Issue #	Description
5023	A check for uniqueness of ID is added It is now possible to quickly check if ID numbers in the database are unique.
5123	Default number of decimals is changed for Free Numeric Set, Free Measured and Free Diff column.
5120	It is now possible to use Set Temperature and Set Pressure columns in Display to allow TP correction.
5020	New function: Update session site information This function makes it possible to update a completed session with new Site information from the database.
5106	The CT Dose Profiler is now available to select for modality Dental and Mammography
4943	Improved import of RTI Examples It is now easier to reload or load new RTI Examples (done from Help -> Import Examples). No multiple folders are now created.
5038	The name for the CT calibration “GEVCT” is changed to “GECT”

## Fixed problems

The following problems have been fixed:

Issue #	Description
5142	Unit conversion problem in the Reproducibility analysis The limit value for “Maximum standard deviation” was affected when changing between R and Gy.
5073	Crash in analysis: pass/fail colors are invalid.
5075	Formula fails if it contains references to values with different decimal separator.
4562	Crash when adding many analysis (approx. 15) to the same test.
5056	Crash: AV in TfrmMeas. CheckTimer.
5085	Crash: Code C6B5-4B18.
5148	Import form Ortigo have incorrect Tube usage information.
4996	DCT10 ion chamber is not available in Keyboard mode when designing templates for Piranha.
5078	In some situations are facility, department, room and equipment ID not case sensitive.
5161	Equipment selection for a test is erased if “Clear all” is used.
5162	“New session” from a existing session resets equipment info to a generic generator and tube selection.



## 2012.03.08.78

This release is a service release and has just some minor fixes compared to the release 2012.02.17.74.

### Known limitations

Description
Don't use the Cancel button in the upper right corner to close the Detector Selection wizard. This may cause wrong detector to be selected.

### New features

Issue #	Description
4944	Show a warning when opening a signed session.

### Fixed problems

The following problems have been fixed:

Issue #	Description
4974	Crash if the facility name is blank.
4966	TExpInfo: BQ setting not found for detector.
4960	Added filtration values are erased when changing detector in Keyboard mode.
4936	Modification of the waveform correction algorithm for the "CTDP(helical scan/free-in-air)" analysis.

**2012.02.17.74**

## Known limitations

Description
Don't use the Cancel button in the upper right corner to close the Detector Selection wizard. This may cause wrong detector to be selected.

## New features

The following new features have been added:

Issue #	Description
4350	Signing feature for session. You can now sign the report. Image file and password is available.
4518	You can use this to control work-flow by setting "Signature required" in the report template. You will then get a warning if you print or export a session that isn't signed.
4441	Show an input dialogue for the user-input columns to make it easier when measured data are entered from the keyboard. This feature can be turned on/off by right-clicking on the column heading.
4474	PAUS button is added. This button can be hit when you want to prevent the meter from measure and Ocean to get irrelevant data.
4475	Make it possible to copy templates directly from history into current session.
4476	Make it possible to hide tests or checklists in a session. This is convenient when you have test or checklists in a session but you don't use them every time. You can easily hide those you don't use. It will be like they were deleted but they still exist and you can quickly unhide when you need it.
4477	Make it possible to define and save different types of report layouts. A report layout contains information about header/footer/printer type/content and so on.
4495	Make user-defined names for columns show up in the measurement setup. This makes it easier to identify when there are several columns of the same type (but with different heading).
4496	Show the test names in the History.
4497	Update of inherent filtration, waveform type and compr.paddle thickness. If user changes these values during measurement Ocean asks if they should be updated and used also for other tests.
4500	Add a Schedule function that makes it possible to schedule room inspections.
4503	Ocean should ask, if someone makes an exposure in Design mode, if continue with Design mode (measured data are not stored) or switch over to Log mode (measured data are stored).
4504	Make it possible to edit a Favorite description.
4506	Make it possible to permanently hide windows. The status of hidden windows is saved when the test or checklist is saved. A button is also added "Restore windows", to be able to restore hidden windows.
4519	Make it possible to use normalized exposure and exposure rate values in analysis.
4544	Make it possible to attach a spreadsheet to a test.
4545	
4549	Make it possible to use user-defined values in analysis (Accuracy, Reproducibility and Min/Max).
4550	Make it easier to see and set waveform status directly in the grid.
4558	Show "Needs attention" instead of "Pass" for checklist.
4575	Add DLP to the CTDI analysis.
4576	Add low pass (smoothing) filtration to the waveform (noise reduction)
4577	Add support for the CT Dose Profiler probe. Two new analysis, CTDI(helical scan/in phantom)
4580	and CTDI(helical scan/free-in-air), are added.
4610	
4626	
4642	Improve what Ocean shows when columns are missing in an analysis.
4651	Add Boolean operators to the user calculation formula.

4687	Show generator and tube name with the session name for easier identification.
4689	Add support for the Piranha Chamber Adapter.
4713	Add support for the GE CESM (Mo/Cu/Al) and (Rh/Cu/Al).
4724	Make it possible to assign a user-defined formula to an individual cell.
4774	Pulsed fluoroscopy added as new modality in measurement setup wizard.
4827	Energy correction for T20 is implemented for beam quality R1 and R3.
4908	Automatically scroll the analysis window when a row has an analysis that only used one row.

## Fixed problems

The following problems have been fixed:

Issue #	Description
4161	Print preview crashes if no printer is installed
4453	Improve the layout for Program Options
4489	Ocean crashes when doing instant trend for "Quick HVL" analysis
4490	Crash during import
4494	Free fields on summary page are not updated
4502	Incorrect waveform for dose rate. Cursor values shown on the waveform data panel are sometimes incorrect. NOTE: This has not affected the accuracy of measured values reported in the grid or in displays. Only cursor values shown on the waveform data panel is affected by this issue.
4508	The last answer in a checklist is not recorded when the finish button is hit.
4520	Crash when exporting to Excel on a Netbook
4521	
4523	Don't allow drag and drop of displays when template is protected.
4524	Assertion failure - crash
4525	Modification of comment text on the summary page is not recognized as a change.
4528	"Save changes" dialogue can appear even if no changes has been done.
4530	Hint icon is shown in the PDF document.
4532	Detector selection dialogue is not always shown in a correct way.
4533	Display size names are not consistent (different names shown in right-click menu and ribbon bar)
4534	Assertion failure - crash
4536	Assertion failure in the docking library
4537	"Save as" sometimes overwrite and sometimes not.
4538	Site import doesn't update site data correctly
4539	Site information panel under Measurements tree is too short
4540	Crash when associating an Excel file
4548	Can't close after completing a free run or timed mode measurement
4557	Unit change in General Settings is not saved.
4561	AV error - crash
4562	Data provider returned FALSE. The maximum number of analysis in a test is increased.
4563	AV error when main form closes.
4565	Min/Max analysis gives an error if used for user-calc column.
4607	
4570	Unexpected DataStorageLocation. (when adding mAs linearity analysis)
4586	AV error - crash.
4603	Lag in show/hide of Measurement mode-related fields.
4612	Tube frame's "Tube usage" incorrectly reverts to radiography when using RTD template
4633	Waveform disappearing from Excel (Office 2010).
4654	Improve formatting of checklists.

4669	Remove incorrect shown unit from Pitch column.
4675	Problem with single row analysis when adding rows.
4676	Unexpected TFluoroExpStatus – crashes during long fluoro measurements.
4679	AV error – crash.
4680	AV error – crash.
4682	Multiple selection of rows not always works correctly.
4693	The “Update all rows” button (analysis) are sometimes not visible.
4594	All rows are not changed when marking all rows and modifying analysis limits.
4695	It is not possible to delete “Examples(RTI)”.
4701	AV in checklist - crash
4723	MAS-3B and Piranha MAS-3B are not visible in Ocean.
4739	Time out in Timed Mode if post delay is set to 2000 ms or longer.
4745	AGD analysis doesn’t follow “use for analysis” setting
4749	Assertion failure - crash
4764	Crash if Pitch column is removed from a test with CTDI analysis
4768	Meter can fail to measure
4788	Crash if large documents are attached to a test (or real-time display)
4811	Incorrect Set kV used to determine acceptance limits in the HVL analysis (only occur if more than one HVL analysis is used in the same test).
4853	Trend is not generated in the correct way.
4871	CT related units should be kept in metric regardless of setup wizard.
4876	Values entered in Added filtration column are erased when detector is set to “keyboard”.
4888	Don’t show waveforms for parameters that isn’t measured.

**2011.08.11.60**

## New features

The following new features have been added:

Issue #	Description
4343	Export a complete session to a workbook It is now possible to send a complete session to Excel or Calc. A new button is available on the Data link page on the ribbon bar. Read more on this in the topic <b>Send a session</b> .
4344	Include waveforms when sending data to Excel The export of data to Excel or Calc now includes waveforms. Read more on this in topic <b>Send a test, checklist or real-time display</b> .
4345	Remove links automatically Remove links automatically when a an embedded or associated workbook is removed.
4346	Add predefined functions for the user-defined calculation It is now much easier to enter user-defined calculations and to reference columns and individual cells. Read more on this in the topic <b>Add a user calculation</b> .
4355	Add user-defined header and footer to the report pages It is now possible to make user-defined headers and footers for the report that includes text and pictures. Read more on this in topic <b>Header and footer</b> .
4358	Trending A trend function has been added that makes it possible to see how performance change over time. Read more on this in topic <b>Trending</b> .
4359	History A “history” function to quickly view old measurements is now available. Read more on this in topic <b>History</b> .
4360	Protection of templates It is now possible to protect a template from modification. Different levels of protection can be applied with a password. Read more on this in topic <b>Protection</b> .
4362	Links between analysis and cells in the grid Analysis can now show values from the grid and the grid can show values from the analysis. Read more on this in topics <b>Reference a value from the grid</b> and <b>Show a value from the analysis in the grid</b> .
4367	Icons that show waveform status, position check and hint are added to each row. Read more on this in topic
4374	Show mA and dose rate between cursors on the waveform data panel. Read more on this in topic <b>Waveforms</b> .
4378	Show waveform data in the grid It is now possible to get waveform data (from the waveform data panel) in a column in the grid. Read more on this in topic <b>Waveform data in a column</b> .
4394	New columns for measured vales during the window time New measured parameters have been added to make it possible to measure exposure, exposure rate, mA, mAs and light after a delay and within a window.
4395	Energy corrections for all mammography BQ have been added for R100b and Piranha Dose Probe.
4397	The number of significant digits for user formulas is increased.
4412	Free labels can now be modified. Read more on this in topic <b>Program options</b> .
4415	A new pass fail criteria is added to the Accuracy analysis. Read more on this in topic <b>Accuracy</b> .
4420	It is now possible to add a user-defined favorite des
4422	Selected screen layout (for a test) should adapt when user changes Ocean main window size.
4425	It is now possible to use the result user-formulas in another user-formula.
4426	It is now indicated in the tree when a template is set to “Favorite”. It is indicated in the template icon with a small yellow circle with a black border. Read more on this in the topic <b>Favorites</b> .

Issue #	Description
4427	A preview function is added to make it easier to find a session, test or real-time display in the database tree. Read more on this in topic <b>Measurements</b> .
4449	It is now possible to print only the cover page. Read more on this in topic <b>Reporting</b> .

## Fixed problems

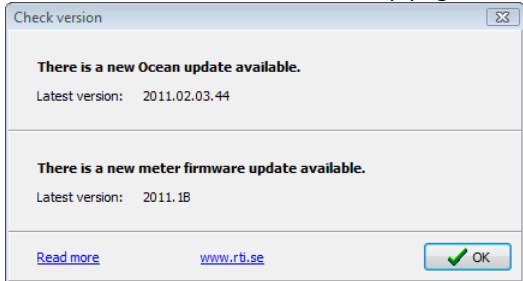
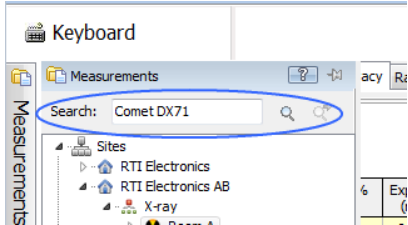

The following problems have been fixed:

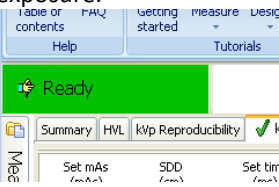
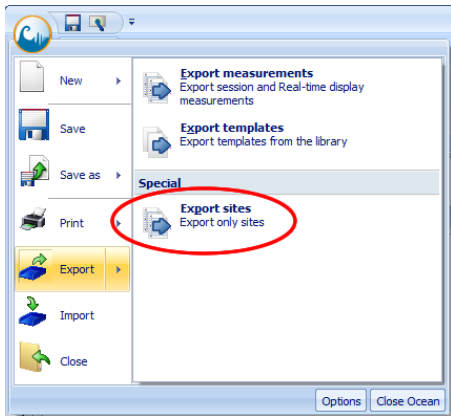
Issue #	Description
4373	Problem with the AEC analysis when using Set mAs.
4375	No calibration available when using Panoramic dental.
4386	Description of how to turn charging on/off is missing in the manual.
4387	User-defined equipment can be lost when dragged/dropped.
4388	Room "free text" #3 and #4 are not working.
4389	Imported sessions can go to the wrong facility.
4390	User-defined equipment cannot be found using search.
4391	Crash when importing to a session.
4392	"collect waveform" and "include waveform in report" doesn't work properly.
4399	Incorrectly applied energy correction factors. Ocean has been using incorrect energy correction factors for the internal detector and for ion chambers. This may have introduced incorrect dose readings. The maximum inaccuracy this has introduced is $\pm 5\%$ for radiography, fluoroscopy, CT and $\pm 10\%$ for mammography.
4400	Date/time is not stored properly.
4402	"Overflow" when importing data from Ortigo.
4406	Not possible to link general setting to a spreadsheet.
4408	Date/time stamp is not correct when sending it to a spreadsheet.
4412	Default free text labels are not saved in the template.
4413	Open Office error after save: Unexpected exception.
4419	If a free workbook is already opened, an attempt to embed a workbook fails.
4424	Crash when measurement screen close.
4430	mA linearity analysis may not choose the first exposure for "set focal spot" and "set kV" analysis values.
4432	Favorites screen may not completely initialize if no favorites
4433	Favorites screen presentation interferes with main screen initialization
4434	Database field inconsistency.
4438	Session preview is missing the title.
4440	Hints not working for the memo editor.
4450	It should not be possible to create sub folders in the folder "RTI Examples".
4457	AEC analysis crashing when rows are excluded.
4458	Prevent blank names in the database tree.
4492	Incorrect calculation of HVL.
4508	Finish button in the Checklist is not working

## Version 2011.02.28.52

### New features

The following new features have been added:

Issue #	Description
4264	When new rows are created automatically (after an exposure) in a real-time display, new links to a workbook are created automatically on the new rows if links are present on the previous row. The row index for the workbook is increased by "1" automatically. See help text section: <i>Main function -&gt; Data link -&gt; Link a cell to Excel (or Calc)</i>
4279	Make it easier to see the difference between row selection and cell selection. Row selection is now indicated with blue background and cell selection with white background. When editing a cell, the selected cell is marked with white background and a frame. It is also possible to select a range of cells by holding down the mouse button and moving the mouse pointer. See help text section: <i>Main function -&gt; Data link -&gt; Link a cell to Excel (or Calc)</i>
4266	Ocean checks automatically if a newer version is available. If a meter is connected, a check for newer firmware is done as well. If newer firmware or software is available a message is shown. A button is also available on the Help page of the ribbon bar to do the check manually.  See help text section: <i>Main function -&gt; Help -&gt; Check for update</i>
4178	A search function has been added to the Measurement and Library tab to make it easier locate templates and measurements.  See help text section: <i>Main function -&gt; Measure -&gt; Site</i>
4227	Two icons have been added for exported data (.ome and .ote files):  These files are now associated with Ocean and it is possible to double click on the files to start Ocean automatically and import the file. See help text section: <i>Application menu -&gt; Export and Application menu -&gt; Import</i>
4254	When importing an Ortigo database, Ocean also searches for an XR database. "XR" is the Canadian version of Ortigo. See help text section: <i>Main function -&gt; Help</i>
4249	Export of the waveform is now possible. Right-click on the waveform graph and select "Export" from the menu. See help text section: <i>Main function -&gt; Measure -&gt; Waveforms</i>
4231 3744	It is now possible to do export by right-clicking on items directly in the Library or Measurement database tree. Select an object or a folder and right-click and select "Export..." from the menu. If you select a folder all templates/measurements "below" that point are exported. See help text section: <i>Application menu -&gt; Export</i>

Issue #	Description
4204	<p>Background color for READY changed to green to better indicate when the meter is ready for an exposure.</p> 
3996	<p>New columns for AEC analysis have been added ("Field selection", "Meas O.D.", "Diff from mean O.D." and "Diff from ref O.D.")  See help text section: <i>Main function -&gt; Design -&gt; Standard columns -&gt; Testing and Main function -&gt; Design -&gt; Standard columns -&gt; Other</i></p>
4008	<p>Added AEC analysis. Six different AEC analyses have been added:</p> <ul style="list-style-type: none"> <li>AEC kV compensation</li> <li>AEC mA compensation</li> <li>AEC reproducibility</li> <li>AEC reciprocity</li> <li>AEC Field balance check</li> <li>AEC density correction</li> </ul> <p>See help text section: <i>Main function -&gt; Design -&gt; Analysis (Definitions)</i></p>
4095	<p>Prevent from starting two Ocean instances. A message box is shown if user tries to start Ocean again if it is already running.</p>
4165	<p>A new column called "Result" has been added. This column is set by Ocean to pass or fail depending on the analysis result on each row.  See help text section: <i>Main function -&gt; Design -&gt; Standard columns -&gt; Testing</i></p>
4265	<p>Added the possibility to exclude a column from the data export. Right-click on a column heading and select "Exclude from data export". The content in this column will not be exported to the workbook.  See help text section: <i>Main function -&gt; Data link -&gt; Exclude a column</i></p>
4082	<p>It is now possible to export/import sites including equipment. Export is done from the application button:</p>  <p>See help text section: <i>Application menu -&gt; Export</i></p>
4182	<p>Make it possible for users with a "Display" license to try the "Professional" or "Connect" with a meter. The possibility of getting a trial period (45 days) has been added. A button has been added to the ribbon bar (Help) to start the trial. It is always possible to run Ocean with any license level as long as no meter is used. The same button on the ribbon bar is used for this purpose.  See help text section: <i>Main function -&gt; Help -&gt; Trial</i></p>



Issue #	Description
4222	When using a trial license, there is a risk that created objects are not possible to open after the trial period expires since opening certain objects will require the higher functionality. A warning has been added to avoid overwriting existing objects (created before the trial has started) during a trial period.
4296	The "Send support file" button on the Help page of the ribbon bar has been replaced by a new button called "Contact RTI". This button has two sub choices: - Review - Make support file  Use "Review" to suggest improvement or potential new functions. Use "Make support file" to send report of a problem. See help text section: <i>Main function -&gt; Help</i>
4297	Added a new mode for sending data to a workbook (Excel or OpenOffice Calc). The exposure data for each exposure is sent to the workbook starting at the selected cell. See help text section: <i>Main function -&gt; Data link -&gt; Free workbook</i>
4329	The use of the arrow keys has been improved when editing values in the grid. See help text section: <i>Main function -&gt; Measure -&gt; Grid and General settings</i>

## Fixed problems

The following problems have been fixed:

Issue #	Description
4271 4272	It is possible to click Next in the analysis wizard even if not all parameters are set correctly.
4276	It should not be possible to set cells in the exposure # column to "Don't show value(s)".
4263 4260	It should not be possible to open or import objects created with a newer version of Ocean. If that occurs, a message should be shown and the object is refused.
4241	Make sure that the mouse pointer indicates "busy" when Ocean is busy and user should wait to click and ask for further action from the software.
4200	Waveform is sometimes missing (this require also new firmware).
4251	HVL and Quick HVL analysis can crash.
4256	Crash when adding a hint to a checklist.
4253	Incorrect message is shown when exporting data to a protected cell in a workbook.
4243	Tree node--especially for equipment items may not sort correctly and/or may change order suddenly.
4191	The HVL column may incorrectly show "---".
4238	Waveform is not saved for long exposures when the Capture button is used to take the measured data.
4226	Do not go back to default column widths after "Modify".
4224	Not possible to make an exposure if the test has a user-defined column for measured values.
4239	Crash when importing sites from Ortigo if a facility name field is blank.
4229	The order, if modified with "drag-and-drop", of parameters in the "General settings" is not saved.
4223	Formula evaluation (user-defined calculation column) can fail if more than one column or value has the same name.
4205	Crash when view a report.
3835	Problem when docking and undocking windows.

Issue #	Description
4208	"Range check error" after entering the license code
4207	Crash when clicking on the "Send data" button.
4201	Crash when working with Reproducibility, mA linearity and AGD analysis.
4194	Not possible to use dose rate for HVL measurement.
4034	An "empty" analysis should not generate a row in the report.
4189	Incorrect message shown if user tries to embed an open Excel file.
4187	Right justify doesn't work for user def column "Text (set)" and "Text (meas)"
4280	The parameters "Compr. Paddle", "Added filtr." and "Corr.fact." may not work correctly if placed in General Setting at the same time and two dose detectors are used.
4281	Compression plate thickness value is missing for tubes import from Ortigo
4282	Cursor gets stuck in busy mode
4283	Crash when starting design of a checklist template
4284	Grid is not "grayed out" out when position check is active
4285	Disable grid and ribbon bar when doing position check
4291	Wrong detectors are shown in Detector selection
4294	Company name is wrong in the About box
4300	Text is missing in the hints for buttons on the Help page on the Ribbon bar
4302	Analysis calculated columns are transferred to workbook with auto send
4305	Crash when removing exposure column in a template with "mA linearity" analysis
4327	Set values in an existing column are sometimes erased when adding a column
4328	Adjust page meter settings are sometimes not reflecting what the meter is set to for CT modality
4331	Detector list cleared if you click Cancel in the Detector Selection dialogue
4332	Capture button is not working properly. When clicking Capture, the captured data are not "locked" in the grid.

## ***Version 2010.12.15.38***

### **New features**

No new features.

### **Fixed problems**

The following problems have been fixed:

Issue #	Description
4186	Document is closed and re-opened when doing "Save". This is not necessary.
4193	In some situations, all tests/checklist in a session, can be lost when doing "Save".

## ***Version 2010.11.30.37***

The following new features have been added:

Issue #	Description
4247	A function that makes it possible to load the license into the meter (Barracuda or a Pirahna). If Ocean is started with a meter that doesn't have a license, Ocean will automatically detect this and ask for the license.

A feature to load the license into the Barracuda or Pirahna was added.

## ***Version 2010.11.23.33***

This was the first version of Ocean.