Watchmen 3.3.0 Release Notes

September 2023

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1 Changes since version 3.2.0

1.1 New Features

- Added URL parameters for Ad Hoc Query Tool. Your selections will be retained after refreshing the page or copying the URL.
- Added a visibility button to toggle what is shown on the Ad Hoc Query Tool graph. Whether the selection is visible is stored in the URL parameters.
- Show selections with the same variable on the same axis in the Ad Hoc Query Tool. Selections from two variables are visible. Up to 10 selections can be visible at once.
- Added optional display name and email that can be added for each user.
- Show the display name for the user in the header. Added the ability to update the display name and email from a popover by clicking the name in the header.
- Added the ability to export images of charts.
- Added CSV export for 2D histogram charts.
- The selected measurement tile scrolls into view on page load. If the user scrolls away, they can bring it back into view by clicking a button.

1.2 Changes

- In the Ad Hoc Query Tool, show the variable name on the y-axis if two or more variables are being plotted at once so each axis can be told apart.

- Add ability to plot the Live Time in the Ad Hoc Query Tool.

- Added confirmation dialog for deleting a user to prevent accidental user deletions.
- The user must now press the edit button to change roles for a user. The user can press the save button to save the changes to the user or the cancel button to discard the changes.
- Added switch to the Users page that toggles between showing all users or only users that are enabled. Only showing enabled users is the default. Newly added users that have not had their roles configured will be shown regardless.
- In the measurement overview, show the display name of the user that the measurement is assigned to.
- Split the concentration value and uncertainty into separate columns on measurement pages.
- Not showing the All Spectra Panel for measurements that don't have spectra data.
- Not showing the BetaGamma tab in Calibration for measurements that don't have BetaGamma efficiencies.
- Added "Not Assigned" to the Assigned-To search filter and removed "Analyst."
- Showing "Review" in the measurement details table if the measurement has been reviewed, otherwise "Assigned."
- Decoupled Search page and Pending Reviews page.

- Activity and Concentration are now entered separately for samples on the Isotope Analyzer page.
- Can toggle columns in the Isotope Value Table and Sample Review Table.
- Added activity, activity uncertainty, and L_{CC} to isotope concentrations in the Samples Report.
- Added Xe Sample Volume to the measurement summary.
- Added calibration names to Indicators Calculated, Concentrations Calculated, and Calculation Stored entries in the measurement history.

1.3 Fixes

- Prevent the user list from being fetched multiple times on the search page and list view page. This change helps prevent the user list from failing to load.
- Fix issue where it could appear that a user was not properly deleted until the page was refreshed.
- Fix error message that is displayed when the trend chart shows no results for a specific time range.
- Fix to show trend panel for SPHDP/SPHDF files.
- Fix crash for certain samples that are missing information.
- Fix incorrect x-axis numbers on the 2D histogram chart.
- Fix issue where regions were not sorted numerically on the 2D histogram chart.
- Fix issue where the 2D histogram chart sometimes failed to load.
- Fix issue where links to samples had no URL params and could sometimes crash.
- Fix issue where the error for Indicator Group Assignments were not visible.
- Made it so errors loading measurement tiles won't crash entire measurement page. This makes the measurement page usable even if the measurement tiles fail to load.
- Fix issue where the x-axis dates on charts sometimes overlapped in the Performance Monitoring tool.
- Fixed errors causing the Trend and Distribution charts to crash.
- Fixed chart marker positions for trend charts not in the default tab.
- Fixed the Isotope Analyzer page after refactoring of dependencies caused it to be non-functional
- Fixed line series multiplying when zooming too far into charts.
- Fixed incorrectly showing Xe Collection Yield in the ccXe indicator instead of the sample volume.

- Fixed the Collection Start trend graph on the Sample page where it displayed data from January 1, 1970. This was caused by the presence of a sample taken during detector setup which has a collection time of zero because no collection was taken. Therefore, these measurements are omitted from the returned array of points. (See Figure 1.)
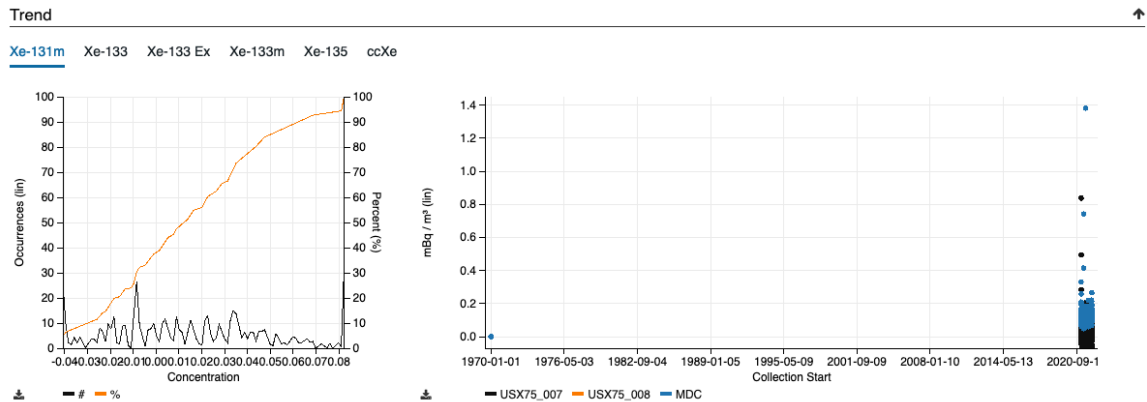

Figure 1: Trend chart displaying collection start time of January 1, 1970

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1.4 Known Issues

- Automatic Radionuclide Report (ARR) and Reviewed Radionuclide Report (RRR) using the current IMS formats and protocols currently are not parsed.

- ARR and RRR views are not currently accessible.

- Xecon Report will return a report with default values.

- Measurement tile's category will not auto-refresh after recalculation (activity and indictors will); user must refresh page to display new value.

2   Upgrade

There are three parts to this upgrade, these upgrades need to be performed in order, without skipping any steps, or erroneous behavior may result.

2.1   Database Upgrade

Perform the database upgrade, connecting with the SQL client of choice and run the following scripts.

Note: The script does not specify the Schema Name, so ensure you connect appropriately to avoid altering the wrong schema.

- SQLUpgrade3.3.0.sql

Note: If you have already run the above scripts, there is no need to run them again.

2.2   Executable Upgrade

The upgrade is completed by deploying the new WAR files and updating the Analysis Tools executable.

2.2.1   Stop the old mothman.war and webviewer2.war

Using the Tomcat Manager app, stop the existing mothman and webviewer2 applications.
For more instructions on how to do this, consult the Installing section of the System Administrators Guide.

2.2.2   Update the Analysis Tools

Once the AnalysisTools zip file has been placed into deployment system's filesystem, unpack and overwrite the existing AnalysisTools installation including the "plugins" folder:
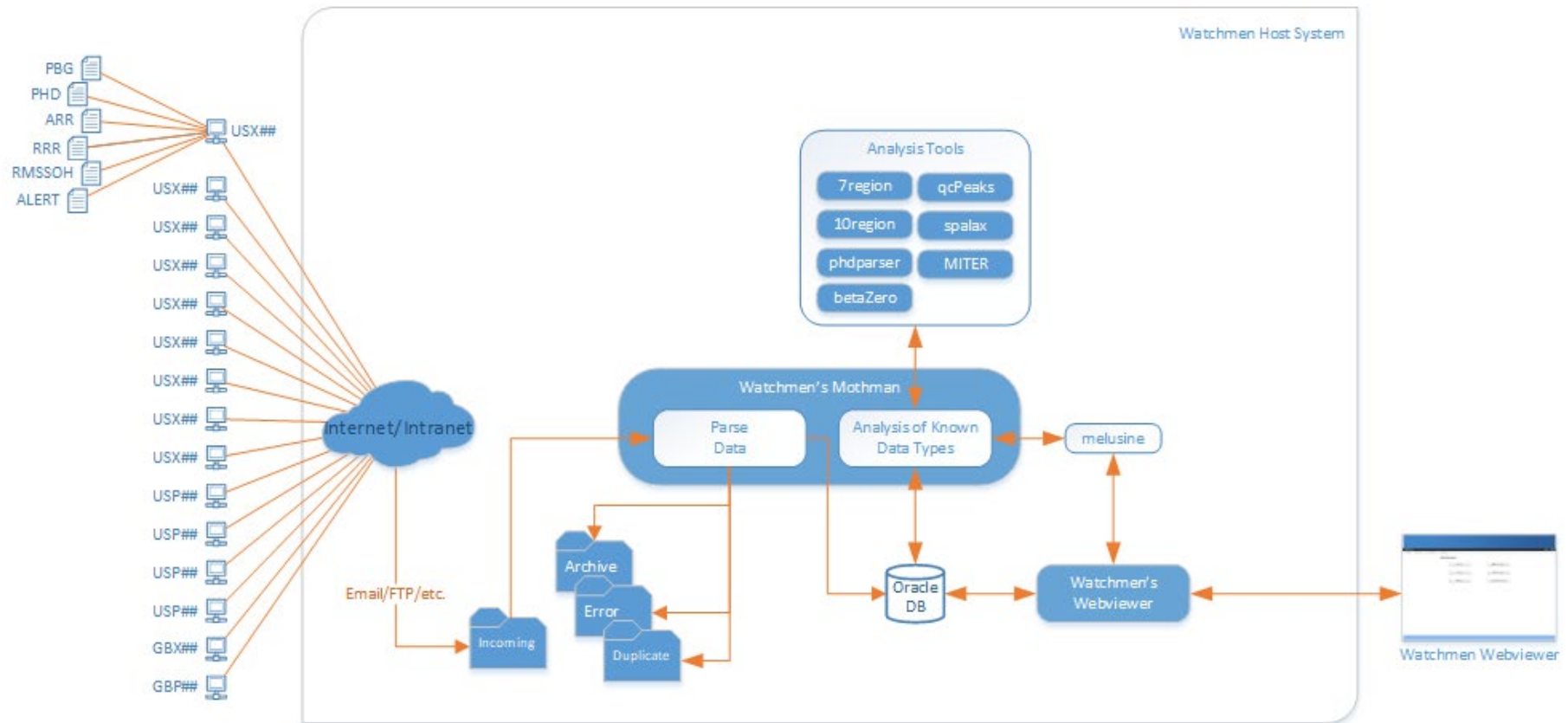
`unzip /path/to/file.zip -d /path/to/analysis/tools/installation/dir`
<div align="center">or</div>

`tar -zvxf /path/to/file.tar.gz -d /path/to/analysis/tools/installation/dir`

2.2.3   Uploading the new mothman.war and webviewer2.war

Using the Tomcat manager or copying via the filesystem, upload the new mothman.war and webviewer2.war
For more instructions on how to do this, consult the Installing section of the System Administrators Guide.

3 Block Diagram

4 Other Information

4.1 System Requirements

Web Browser: Chrome or Firefox

Host Server:

RedHat Enterprise Linux 7+ or CENTOS 7+ 64bit

Java 8+ (note: Java 8 is not compatible with Apache Tomcat versions prior to 7.0.58)

Apache Tomcat 7/8/9

Oracle 11+ Database

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