



Victus™ Operation v2.3.8.1 Release Notes

Welcome to Victus™ Operation v2.3.8.1. This version of Victus™ Operation contains several new features and enhancements, as well as some bug fixes. For a full list of the updates in v2.3.8.1, refer to the sections below.

In addition, installation and upgrade guides for Victus™ Operation v2.3.8.1 may be downloaded from the [Weatherford Software Solutions Site](#)

Note

If you currently have Victus™ Operation v 2.1.4 or older installed, you must uninstall the existing version of Victus™ Operation before installing Victus™ Operation v2.3.8.1. All previously stored data will be lost. If you need to retain your existing data, contact the Victus™ Operation Support Team for assistance prior to installing Victus™ Operation v2.3.8.1. [See "Reporting problems" on page 6.](#)

What's new

The features in this section are new for Victus™ Operation v2.3.8.1. For additional information about any of these features, please refer to the Victus™ Operation user guide. You can open the user guide by pressing the **F1** key when you are using Victus™ Operation.

- Integrated license control into Victus™ Operation. Upon installation, Victus™ Operation will request you to provide a license key. 90 days prior to the license expiration, Victus™ Operation will take you to the **License** screen every time you open the program. The **License** screen will show you the days remaining until expiration, as well as the steps to request a new license. Victus™ Operation will also display reminders on the banner.
- Licenses will continue to be valid until their expiration date, regardless of the Victus™ Operation version used.
- Victus™ Prerequisites have been updated to SQL Server 2019 and LabVIEW2019. WISE 1076625.
- The Windows re-imaging process has been replaced with a new automated script to reduce the time required to back up the existing data and clean up the machine prior to installing Victus™ Operation. As a result, frequent Windows re-imagings are no longer required.
- Added the ability to specify the annular pressure setpoint in **Connection** mode through the **AP Setpoint** option in the **C** window. This enhancement allows you to set the desired **AP setpoint** alongside existing parameters, ensuring precise control during drilling operations.
- When you change the set point for a pressure control mode, the confirmation message will include the updated value.
- The **Notifications** banner at the top of the Victus™ Operation window displays the network role currently assigned to the workstation instead of icons as it did before.



- Added the ability to automatically calibrate pump efficiency based on the volume of fluid flowing in and out of the well. To calibrate pump efficiency, go to the **Setup > Surface Equipment > Equipment Configuration** tab, select the pump you wish to calibrate and click the **Automatic Pump Efficiency** button (①).
- In the past, when 90% of the high limit was reached, Victus™ Operation automatically switched to SBP mode, and this setting was fixed. Now, you can select 90%, 80%, or 70% of the high limit in the **Setup > Control Algorithms > Limits** tab. 90% of the high limit remains the default option.
- In the past, the minimum AP setpoint was preset to **Hydrostatic + Friction**, now you can select between **Hydrostatic**, **Hydrostatic + Friction** and **Low Limit**. **Hydrostatic + Friction** remains the default option.
- Before, when the SBP reached 98% of the high limit, the chokes would open to 100%. Now, in the **Setup > Control Algorithms > Limits** tab, you can choose to open the chokes to 100% which is the default option, or go to the low limit when the SBP reaches 98% of the high limit.
- The default color for the low limit on the graphs has been changed from dark red to dark salmon.
- Victus™ Operation allows overriding the high limit during kick auto control. When a kick occurs and **Auto Control** is active, the high limit will be updated to a predefined value. Enable the **Override the high limit during kick auto-control** option in the **Setup > Control Algorithms > Limits** tab.
- Added the ability to use a high pressure flow meter as a rheometer source without requiring it to also be selected as a flow-in source. Configure these options in the **Setup > Surface Equipment > Equipment Configuration** tab. WISE 1073854.
- Added the ability to show data from the high pressure flow meter in dashboards when it is not configured as a flow-in source or rheometer source. Enable the options **HPFM1**, **HPFM2** and **HPFM3** in the **Setup > Surface Equipment > Equipment Configuration** tab. WISE 1073854.
- When a high pressure flow meter (HPFM) is selected as a main flow-in source and it fails, Victus™ Operation will automatically switch the pressure control mode to **SBP** mode and will change the main flow-in source to the **Pump Source/Instrumentation** option. When the HPFM that failed is selected as a rheometer source, the rheometer source will be set to **None**. WISE 1073854.
- Added the ability to view diagnostic information from active high pressure flow meters including alarms, details, and parameters. Go to the **Alarms > Sensors > HPFM** tab to view this data. WISE 1073854.
- A **HPFM Totalizers** template has been added to calculate the total fluid volume pumped through the high pressure flow meter. The template is available on the **Setup > OneClick > Calculations** tab. WISE 1073854.
- Victus™ Operation supports connection to the **Weatherford SPMS Gen 2 PRV**. This option is available in the **Pressure Relief Valve** field under **Setup > Surface Equipment > Equipment Configuration**.
- Added a percentage (%) unit to display **Proportional Gain (P)** values as percentages instead of decimals. The percentage (%) unit is available in the **Setup > Units** page.
- The choke model SRI SCM4 3" is supported for all manifold types.



- The **Resync** button (⌚) on the **Setup > Network > Rig** tab will be automatically disabled during ongoing resynchronization processes to prevent accidental interruptions. WISE 1074733.
- Victus™ Operation is able to import MCD files that were exported from CENTRO® Engineer.
- Victus™ Operation will display job information in the banner such as country, rig name, and operator company.
- Removed the **OneClick® Events, Conditions, Flows**, and **Run** tabs from Victus™ Operation.
- The **Pipe Fill SPP Threshold** maximum value has been increased from 350 psi to 1000 psi in **Connection** mode.
- Added the ability for Victus™ Operation to update the current fluid with the rheology values read from a high pressure flow meter in real time.
- To improve the performance of Ops and Standby panels, the **Feedback > Daily Report** and **Feedback > RCD Daily Report** pages are only available on the Backup and Monitoring panels.
- Enabled the ability to select a choke by clicking anywhere on the corresponding row in the choke position table on the **Setup > Calibration > Chokes** tab.
- Added a safety feature that monitors how long WITSML out requests take and prevents unexpected responses from causing performance issues. WISE 1060581.
- The parameters for differentiating between a pump stroke counter failure and a mud pump failure have been improved. The **Alarms** section shows the status of the pumps, and the pump stroke counters separately. When a pump failure occurs while the system is in **AP** mode, Victus™ Operation will continue in **AP** mode. On the other hand, when a pump stroke counter failure occurs while the system is in **AP** mode, Victus™ Operation will switch to **SBP** mode.
- While the **Daily Report** or the **RCD Daily Report** is being generated, the report generation buttons will be disabled to prevent multiple reports from being processed at the same time, causing performance issues or even failures. WISE 1078059.
- Updated the **Piping and Instrumentation** tab to show the table view as the default view.
- The SPMS dynamic mode is now following the Victus™ high limit. If the Victus™ high limit is overridden, the SPMS setpoint will also follow it. WISE 1086757 / 1088304.

Bugs fixed

The critical issues in this section have been fixed in Victus™ Operation v2.3.8.1.

- Fixed an issue where WITS data was saved every second instead of the configured 5-second interval. WISE 1079256.
- When surface backpressure exceeds 90% of the high limit in **S&S** mode, Victus™ Operation will now switch to **SBP** mode.
- Victus™ Operation should no longer crash when encountering erroneous NaN or infinity data coming from the firmware. WISE 1072514.



- When you disable detection control, Victus™ Operation will no longer switch to **None** mode and fully open the chokes if a loss is detected at the same time. WISE 1081174.
- Resolved an issue that caused multiple low limit fluctuations, due to an error in the formula. The formula incorrectly included pore pressure beyond the open hole section. WISE 1079055 and 1083941.
- The values on the **Feedback > RCD Performance** page should no longer continue to increase when the system is offline. WISE 1071411.
- Fixed an issue that caused Victus™ Operation to show two daily reports for the same date.
- Fixed an issue that caused high CPU usage when WITS IN data was out of WITS specifications.

Notes to Consider

Notes to consider for Victus™ Operation v2.3.8.1.

- When you drag a curve in a time-based graph from one track to another track, the curve data may get corrupted and show abnormal spikes in the data.
- **Bit to Surface** time under the **Counters** menu does not consider booster flow when the bit is above the booster.
- The high limit will switch to static (overridden) if there is a stroke counter failure, even if a high pressure flow meter or low pressure flow meter is selected as source.
- When a role transfer happens while the rig state is **Offline**, the new **Operation** panel might switch the rig state to the previous state.
- The **Operation** and **Standby** panel banners might take some time to sync after a loss is detected and controlled.
- If a choke is in calibration mode, it will not open when surface backpressure reaches 98% of the high limit. The choke will only open when it is out of calibration mode.
- When communication with the high pressure flow meter fails, Victus™ Operation keeps the last known good values. Additionally, HPFM totalizers continue counting and do not stop due to the loss of communication.
- Depending on what you have selected under **Setup > Control Algorithms > Limits > System goes to SBP mode at**, when you are above 70, 80, or 90% of the high limit, the system will switch to **SBP** mode with that number as setpoint. During that moment, if active chokes are changed to manual, the SBP setpoint in the background will change according to the current pressure (in the same way it does during a normal scenario in SBP with chokes in **Manual** mode). If chokes are back to auto, still above 70, 80, or 90% of the high limit, the background setpoint will be the current pressure at the time of the change to auto. Victus™ will be displaying 70, 80 or 90% this whole time. This only happens if the user changes the chokes to manual during that moment.
- If under **Setup > Control Algorithms > Limits > 98% High Limit Reaction** you select:



- **Fully Open Chokes to 100%**, this is the standard scenario, where even if some chokes are disabled/manual, the system will switch them to **Auto**, setting the **MPD** mode to **None**, opening all chokes.
- **Go to Low Limit (based on Pore Pressure) – SBP Mode**, and when 98% is hit, the chokes in manual/disabled modes remain unchanged. The system will change **MPD** mode to the low limit (**SBP** mode) with the low limit value as setpoint. Only the chokes in **Auto** will respond trying to go to the new setpoint.
- When importing an MCD file, if you get a message similar to the below examples, it is probably because the file is empty – 0 bytes. Examples:
 - The volume on device 'C:\ProgramData\Weatherford\Victus\rdtvucvf.ygk' is empty. VERIFY DATABASE is terminating abnormally.'
 - 'The volume on device 'C\ProgramData\Weatherford\Vcitus\dd4rllbk.nqp' is empty. VERIFY DATABASE is terminating abnormally.'



Reporting problems

Before you submit a support ticket, it's a good idea to check for known issues and solutions. The knowledge base is included in the Victus™ Operation user guide and contains workarounds for several known issues. The knowledge base is available in the **Welcome** section of the user guide. You can open the user guide by pressing the **F1** key when you are using Victus™ Operation.

Submitting a support ticket

You can submit requests for technical support, report bugs, and make suggestions for improvements to Victus™ Operation v.2.3.8.1. Refer to the next section for details applicable to internal and external users.

Weatherford Internal Users

To submit a WISE query:

1. Log into the [WISE website](#).
2. In the top right corner, select the **Managed Pressure Drilling** product line.
3. Click the **Submit Query** button next to the product line menu.
4. On the **Enter Query Details** screen, go to the **Category** field.
 - o If you are requesting a new license, select **Eng -> Technical Clarification - Victus License**.
 - o If you are requesting a new feature, select **New Feature -> Software - Victus**.
 - o If you are reporting a bug, select **Operations/Troubleshooting -> Victus Software / UPI / WITS**.
 - o If you are requesting a technical clarification, select **Eng -> Technical Clarification - Victus Software & Communication**.
5. In the **Summary** field, enter a description of the type of support you are requesting.
 - o If you are requesting a new license, enter **New License**.
 - o If you are requesting technical support, enter **Technical Support**.
 - o If you are reporting a bug, enter **Bug**.
 - o If you are making a suggestion for improvements, enter **Suggestion**.
6. In the **Description** field, enter a detailed description of your request.
7. Enter the optional details to provide additional information.
8. Upload any files or screenshots related to the request.
9. Click the **Submit Query** button.

Your ticket will be submitted to the Victus™ Support Team. To check the status of your request, go to the **Reported By Me** section on the [WISE website](#). To check all opened WISE tickets, please visit the [MPD WISE Dashboard](#).



External Users

For any additional support requirements, please contact your Weatherford local representative. If you do not have any Weatherford local representative contact in your country, please send an email to DLMPDSoftwareLicense@weatherford.com with the information needed.