

# TTRU3 Release Notes

| Issue Type  | Summary   | Fix Version |        |
|-------------|---|-------------|--------|
| Bug         | Corrected Polish Translations   | V3.3.3      |        |
| Bug         | Improved testing of 1ph6 transformers   | V3.3.1      |        |
| Improvement | Support change to printer driver  | V3.3.0      |        |
|             | Restore factory settings now removes templates  |             |        |
| Bug         | Fixed excitation current reporting issues when transformer ratio is > 40:1            |             |        |
|             | Fixed TNR/TTR display issue when copying a Dyn1 template with two DETCs               |             |        |
|             | Fixed testing of low impedance transformers (resolved short circuit/open lead errors) |             |        |
| Improvement | Add "Subtractive" and "Additive" text to 1ph0 and 1ph6 vectors                        |             | V3.2.1 |
|             | Show Test Voltage in Test Plan results  |             |        |
|             | Spanish, German, and Portuguese Translations  |             |        |
|             | Ukrainian Translations  |             |        |
|             | French Translations   |             |        |
|             | Russian Translations  |             |        |
| Bug         | Tertiary Vector Phase shifting in New Test Plan is not displaying correctly           | V3.1.1      |        |
|             | Test in Progress Screen is not displaying phase shift Degree for New Test Plan        |             |        |
|             | Vector display for test plan is incorrect when using phase shift                      |             |        |
|             | Change Dz0 TNR/TTR correction factor to 1.5   |             |        |
|             | Tertiary vectors do not have the option to select a phase shift                       |             |        |
| Improvement | Additional Phase Shift Improvements   | V3.1.1      |        |
| Bug         | PT Test Plan Test V - Default to 8V   |             |        |
|             | Auto limit CT Test Plan Test V to 8V  |             |        |
| New Feature | PowerDB - Test Plan instantiation   | V3.1.0      |        |
|             | TTRU3 - WiFi Support  |             |        |
| Improvement | Invert Phase Deviation values   |             |        |
|             | Phase Shifting Improvement - Improved Setup & Results                                 |             |        |
|             | Dz0 - Change TTR calculation to match Dzn0  |             |        |
|             | Yd - Change TTR calculation to match YNd  |             |        |
|             | Change tertiary labels for the IEC standard to "3"...e.g 3U, 3V, 3W                   |             |        |
|             | Vietnamese Test Plan Translations   |             |        |
|             | Add Test Voltage Limit to Measurement & Limits Screen                                 |             |        |
| Bug         | PT and CT vectors prompting for secondary selection                                   |             |        |

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| Improvement | Step up induced voltage limit improvements                                    | 3.0.4       |
| Bug         | Correct minor issue found in software build routine                           | 3.0.3       |
| Bug         | Correct minor issue found in calibration routine                              | 3.0.1       |
| New Feature | Mark Test Plan as Template  | 3.0.0       |
|             | Import pictures from PC/Android/iOS to Test Plans                             |             |
|             | OS Update implementation  |             |
|             | Add setting to change labels of a0 configuration                              |             |
|             | Add GOST standard to TTRU3  |             |
|             | Display PDF manual from Help/About screen                                     |             |
| Improvement | Indication progress of export logs  |             |
|             | Exporting Logs from PC - Enable, include the Logs from PC and 7" GUI          |             |
|             | Make PC export directory location a clickable link                            |             |
|             | Update Loading Screen   |             |
|             | Add Polish Language   |             |
|             | Add ZNyn11 vector to IEC standard   |             |
|             | Correct Australian single phase vectors labels                                |             |
|             | New Touchscreen calibration procedure   |             |
|             | Add Z / ZN primary vectors (and associated secondary vectors) to IEC standard |             |
|             | Add relative/absolute phase deviation displays                                |             |
|             | Phase Shifting SW - show 'unavailable' vectors with phase shift option        |             |
| Bug         | Improve Test plan tertiary tap testing  |             |
|             | Resolve test setup copy crash   |             |
|             | Save tertiary results with "Tert tap" label                                   |             |

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| Improvement   | French Translations for Test Plan  | 2.2.4       |
|   | TTRU3 Test Plan Translations - Portuguese  |             |
|   | Loosen Open Lead limits  |             |
| Improvement   | Test Plan German Translations  | 2.2.2       |
| Bug   | 100% CPU Usage on a core   | 2.2.1       |
| New Feature   | Test Plan Setup  |             |
|   | Limited Functionality Console Tester - Single Phase testing ONLY and include with Customer Install   |             |
|   | Add Simulation mode  |             |
|   | Vector Selection - Add PT/VT   |             |
|   | Administrative Settings  |             |
|   | OLTC Settings  |             |
|   | Continue Test Plan Button  |             |
|   | Auto Continue  |             |
| Improvement   | Change export directory for PC App & include full path in export message   | 2.2.0       |
|   | Show final test mode (3ph/1ph up/down) in results screen instead of AUTO   |             |
|   | Phase Error - progress to single phase test during auto test   |             |
|   | Phase Shifting - When enabled, provide an additional Phase Display and Phase Deviation setting: ms   |             |
|   | Add Dyn3 to vector selection for IEC and Australian  |             |
|   | Add "Custom App Control" software option   |             |
|   | PC SW - Configurable Export Destination Folder   |             |
|   | When running tests from PowerDB, automatically save result with DateTime Stamp   |             |
|   | Allow for 0.0 degree phase shifting transformers   |             |
|   | Add Russian Translations   |             |
|   | Apply translations to Single and Group export  |             |
|   | TNR/TTR default display should also effect Printout, Single Result Export, and Grouped Result Export   |             |
|   | Enable Tap Changer LEDS when using Tap Changer   |             |
|   | Update Windows 8 & 10 tile background color  |             |
|   | Add Details screen in help menu  |             |
|   | Enable/Disable TTRU3 mass storage  |             |
| Remove Keyboard flyover. Change to keyboard highlight |  |             |
| Add Application Notes to USB CD Drive                 |  |             |
| Bug   | When using the rotary knob, ALL RESULTS screen defaults to the top of the list   |             |
|   | 1Pa0 diagram vector labels incorrect   |             |
|   | Stopping a test that is in progress by pushing the Emergency Stop button will stop the test, but will no longer let you run more tests until a reboot is performed |             |
|   | Translations not applied to printout   |             |
|   | Printout says Secondary when winding set to Tertiary   |             |