

# WirelessSite-RFI/NIR Revision Log

## Version 10.1.20 – December 1, 2022

- Added 9 new custom tunable Widepass filters between 1 MHz and 50 MHz bandwidths.
- Updated Station RF filter editing to remember last filter selected when adding or changing filters on Station records. Reducing the number of steps required when there are multiple filter record changes.
- Added Station Tx/Rx bandwidth checks to inform User of wideband Communication Systems with recommendations for filter selections.
- Added checks for multi-antenna sectored systems to inform user, when creating reports, to check for duplicate Tx/Rx frequencies in each Sector. The User can deactivate duplicate Sector antennas to prevent false/duplicate Intermodulation interference reporting. This also shortens report creation run time significantly.
- Updated RF system exclusions when setting up Report options.
- Updated “Active” Systems Form to easily activate/deactivate antenna systems and station equipment for running reports. Added command button to reactivate all system components with one “click”
- Updated User Interface (GUI) with new color scheme, functionality and to display antennas and stations that are deactivated with different colors.
- Updated Word report summary to indicate if exclusions were utilized during report creation.
- Added new equipment manufactures.
- Other minor updates.
- Updated User Manual

## Version 10.1.19 – August 12, 2022

- Updated “Communications System Setup Wizard” to simplify data entry for 3 & 4 Sector radio systems, when all system parameters are the same in each individual Sector.
- Improved software performance.
- Other minor changes.

## Version 10.1.18 – February 14, 2022

- Revised RF Station Form, Transmit and Receive data Frames, to individually display based on Station configuration; TX or RX only, TX-RX and Duplex Repeater configurations.
- Updated Multi-Frequency checks to change just one record or all records assigned to the system.
- Revised ASCII Spurious Report to position a data field in the correct location.

- Optimized background internal data indexes to improve processing time.
- Updated 5G 600 MHz, 850 MHz, 2500 MHz, 28 GHz and 39 GHz Technologies.
- Other minor changes.

#### Version 10.1.17 – December 27, 2021

- Revised User Interface (GUI) that was released in Version 10.1.15 to resolve occasional overwriting of existing station records when adding a new Communications system.
- Added Transmitter and Receiver bandwidth fields in the Communications System Setup Wizard to allow editing of the bandwidths if the default bandwidths do not meet the equipment specifications.
- Updated functionality of Station Record Add Button.
- Updated Software User Guide which now includes an indexed Table of Contents. Just click on a Manual Section and the section will automatically displayed.
- Combined minor changes in Version 10.1.16 into Version 10.1.17.

#### Version 10.1.15 – September 21, 2021

- Major upgrade to User Interface (GUI) to display RF System Outline, Antenna List and Station Equipment data on one screen so user does not have to switch back and forth to individual Forms. The display can be filtered to a particular System/Provider which helps the User to narrow down the focus.
- Added a Form resize function to the Antenna Library selection List to allow more antennas to be displayed.
- Added a 2' coaxial jumper to the Transmission Line list for RF equipment installed at the top of the tower/mounting structure when configuring a new antenna system in the Communications Setup Wizard. And transmission line length will be automatically adjusted to 2'
- Updated the Microsoft Word report templates to minimize "word wrapping" in the Table cells.
- Fixed intermittent issue when creating a report if a particular antenna is not found and the User clicks "NO" in the Error Found prompt, which allows software to exit and close the report without hanging up.
- Optimized software performance
- Removed obsolete software functions.
- Cosmetic changes to some User interface display Forms.

#### Version 10.1.14 – September 16, 2021

- Included with V 10.1.15 Above

#### Version 10.0.13 – October 21, 2020

- Revised Station Filter List maximum rows from 10 to 15.
- Revised Filter Import error handler to provide detailed popup message
- Revised antenna calculations based on frequency wavelength for gain adjustments.
- Revised IM Hit Print Out number of decimal places to prevent line overwrap

#### Version 10.0.12 – February 17, 2020

- Added enhancements for 5G technology. Including Data libraries, Site files, Frequency tables and analyses.
- Revised ASCII text file IM Hit list frequency formatting to change the number of decimal places from 6 to 5.
- Revised default antenna vertical beamwidth minimum values to utilize antenna pattern data when available.
- Revised licensing options for RFI and NIR Network versions.
- Revised IM Hit list display of “Effective IM Bandwidth” in ASCII text reports.
- Cosmetic changes to some user interface Forms.

#### Version 10.0.11 – August 29, 2019

- Added Graph Data Export feature to WirelessSite-NIR. Creates a “CSV” file to open in a spreadsheet. Detailed calculation data for “On Tower” and “Off Tower” elevation and single radial data points.

#### Version 10.0.10 – July 23, 2018

- Revised internal Communications System Setup Wizard to prevent database error message when selecting Elliptical Waveguide Line types as well as other associated databases.
- Revised IM calculations to prevent duplicate IM Hits for 6<sup>th</sup> order IM's with certain frequency combinations.
- Updated “Change Data” Validation checks for certain RF equipment data field parameters.
- Revised Unit Conversion routines for displaying higher decimal precision.
- Added Lease/Purchase licensing options for software.
- Other minor cosmetic changes.

#### Version 10.0.9 – September 25, 2017

- Added new antennas to Antenna library.
- Added new equipment to Equipment library.
- Added new common and other RF system configurations to Template library.
- Added new Filter/Curve components to RF component library.
- Added 16 reference documents to assist users for configuring various types of communication systems, RF references, training and other information (Via Menu Bar Help).
- Added latest Software Version check at Riverview Software Solutions website (Via Menu Bar Help).
- Updated Template library “Copy To” intermittent error message.

- Updated filter/curve export/import function.
- Updated Spaceloss Calculator.
- Updated ASCII Spurious report to include missing calculation parameter.
- Revised application installation package to automatically set the software to run in ADMIN mode eliminating previous requirement for user to manually set.
- Added Microsoft Software Code Certification to prevent “Unknown Publisher” messages and alerts from Web Browsers, Antivirus/Spam filters.
- Other cosmetic revisions.

#### Version 10.0.8 – February 21, 2017

- Updated Communications System Setup Wizard to automate Antenna Mount naming feature, revised IM Hit List Only functions.
- Updated C/(I + N) calculations and reporting.
- Revised ASCII TNRD report to prevent intermittent error messages when Pertinent is deselected.
- Updated Preferences Form.
- Updated User Guide.

#### Version 10.0.7 – September 29, 2016

- Revised Antenna Isolation Matrix calculations to include all new station configurations.

#### Version 10.0.6 – September 9, 2016

- Enhanced NIR/MPE analysis function to allow user to set up to 5 MPE zone levels and colors.
- Revised RFI MS Word to display which antenna mode (Patterns or Matrix) was utilized for the analysis.
- Revised receiver Intermodulation analysis to allow user to select lowest/highest transmitter input power level to determine final IM power level.
- Removed Word Report greater than 1,000 rows prompt to prevent the analysis from stopping until user responds.
- Revised Manufacturer List Add function from automated save to manual save to minimize confusion.
- Revised filter curve error handler during save operation as well as revising functionality during importing operations.

#### Version 10.0.5 – May 27, 2016

- Revised display of Manufacturer name list to remove intermittent error prompt.
- Updated Communications Setup Wizard to prevent NULL error during data record creation.
- Added User selectable option in Communications Setup Wizard to allow a choice to include/exclude default filters.
- Revised Communications System Setup Wizard Frequency band selection list index.
- Revised 4<sup>th</sup> Order IM “Transmitter to Transmitter” (T\_T) Exclusion IM check.
- Revised Equipment List Form error handler.

#### Version 10.0.4 – February 14, 2016

- Revised Filter Curve form to accommodate longer curve names
- Removed references to obsolete file

- Added Clarifications to Manufacturer form for Save function

Version 10.0.3 – January 21, 2016

- Menu selection changes
- Fixed intermittent User License Transfer functions
- Added File conversion utility for other software products
- Other cosmetic revisions