



Release Notes

WITE32

Version 2.61

04/16/2001

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CHAPTER 1

INTRODUCTION

The 2.61 release incorporates the new features and bug fixes introduced after WITE32 2.60 release. (This document uses WITE32 2.60 release notes as a base line for comparison.)

CHAPTER 2

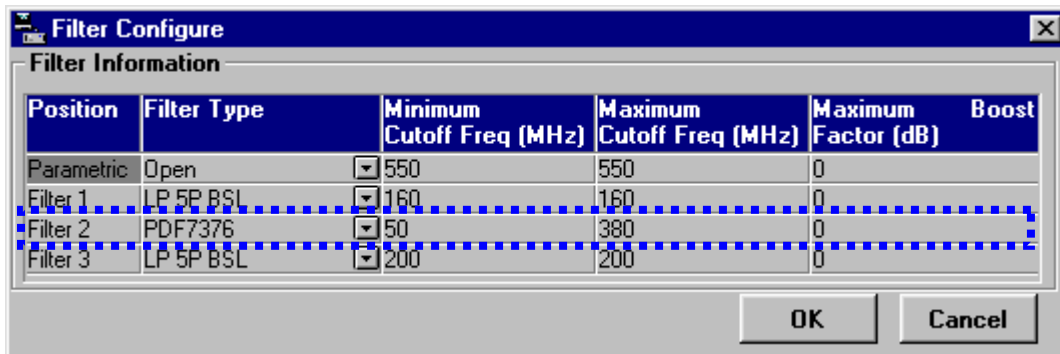
NEW FEATURES INTRODUCED IN WITE32

2.1 Programmable Differentiator Filter

A new type of filters, namely Programmable Differentiator Filter “PDF7376”, is supported in WITE32 ver. 2.61. It can be used with the testers of RWA2550 and RWA2585 families. It is designed for the measurement of the perpendicularly written signal. Only one Programmable Differentiator Filter can be installed in an analog box. The slots #1, #2, or #3 on the main filter matrix board can be used for the installation of the Programmable Differentiator Filter.

2.1.1 Filter Configure Dialogue Box

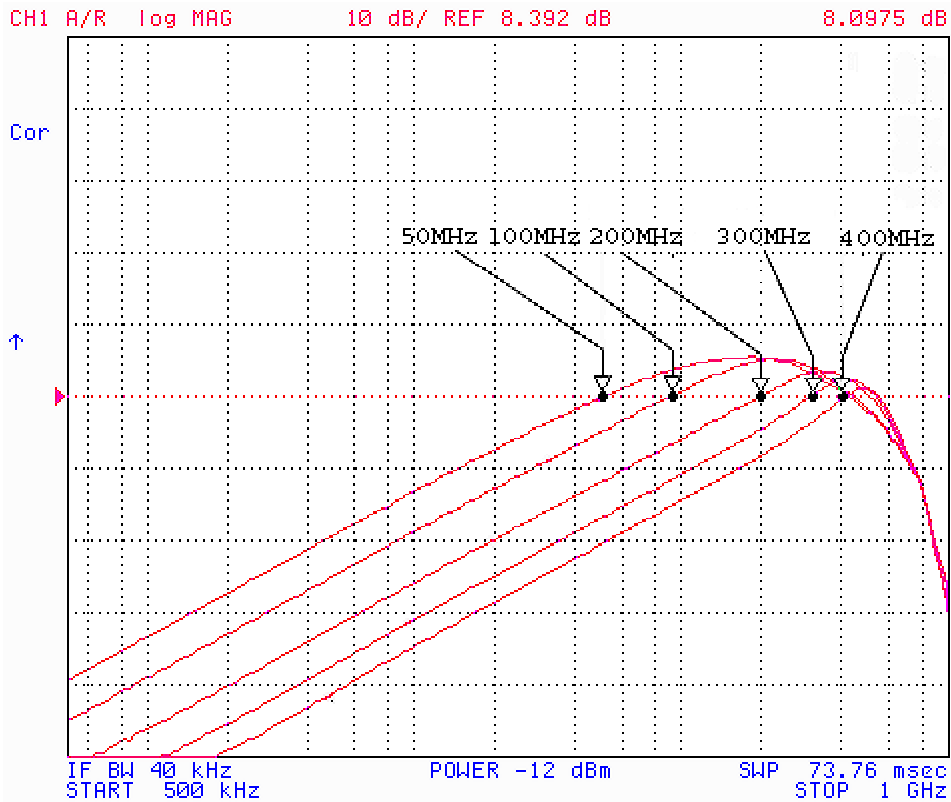
The parameters of the Programmable Differentiator Filter installed in your tester can be found in the *Configure | Filter* menu from the *Engineering Dashboard* panel.



2.1.2 Frequency Response of the Programmable Differentiator Filter

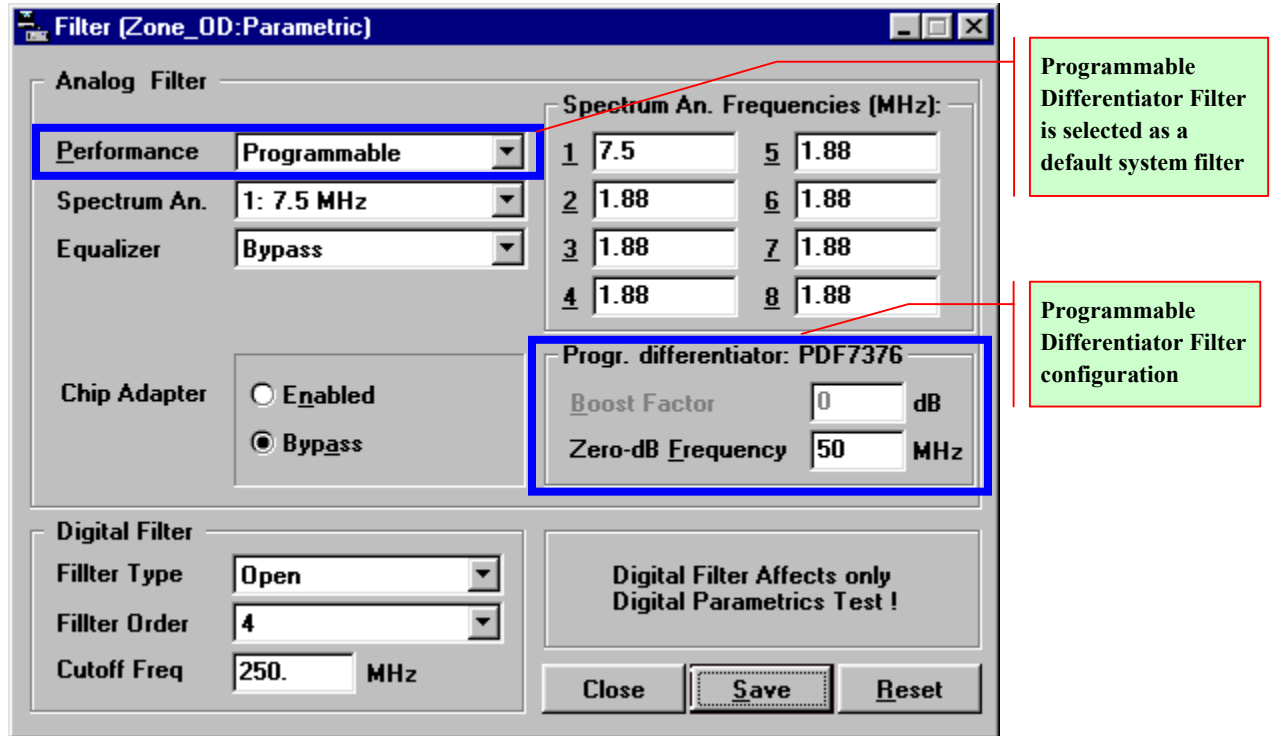
The figure below represents the frequency response of the programmable differentiator filter. The cut-off frequency is programmable, you can specify a frequency in the range from 51 MHz to 383 MHz.

Note: In the original version of this document released on 04/16/2001, the cut-off frequency range of the PDF7376 device was erroneously listed as 50–400 MHz. The correct range is 51–383 MHz.



2.1.3 Filter Dialogue Box

To select the Programmable Differentiator Filter as a default filter and configure its parameters you have to go to the Control | Filter menu from the Engineering Dashboard panel. The Filter dialogue box is displayed below:



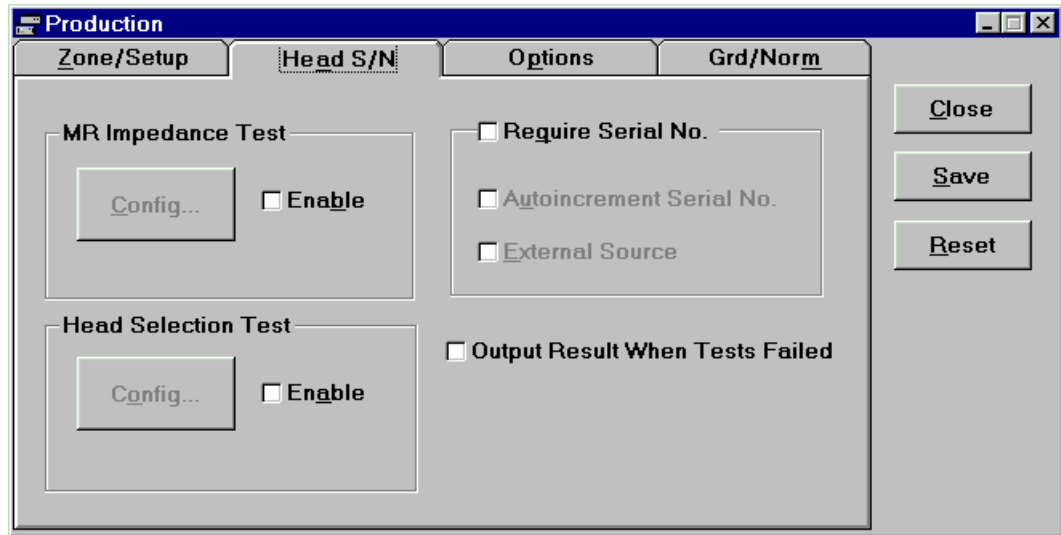
2.2 Miscellaneous

- The following changes were introduced for all head amplifiers and head stacks that support both a current bias mode and a voltage bias mode:
 - The bias DAC value is automatically set to zero before the bias mode is changed. This protects heads from burning during the switching of the bias mode.
 - Changing the bias mode without turning the device off/on is allowed. The system settings for the minimum and maximum bias are changed simultaneously with the changing of the bias mode.

The list of head amplifiers and head stacks, which support both bias modes, is given below:

HGA: COBRA, LILIPUT, MERCURY, SR1766, VM5410, VM5410D2, VM5410D3, VM5420, VM5430, VM5431, VM5640, VM5840.
 HSA: 32R1595R, MERCURY, SR1766, SR1767, TDA5362, VM5410, VM5410D3, VM5420, VM5430, VM5640, VM5840, ZEUS.

2. The default Read Bias setting in the *Control | System...* dialogue box is changed from 6 mA to 3 mA.
3. The new Time Constant operation is available for production sequences. You can insert the Time Constant operation in your production sequence. The Time Constant operation changes the peak detector time constant. Please, refer to the WITE32 System Configuration Guide for details on how to create and modify the production sequence.
4. The *HSA MR-Impedance Test* in the configuration of the *Production* test was extended to support head amplifiers. Previously this test supported only Head Stacks. The name of *HSA MR-Impedance Test* was changed to *MR-Impedance Test*. Please, refer to WITE32 System Configuration User's Guide for more details about the *MR-Impedance Test* configuration and operation.



5. The “Mercury” board P/N 305860, software revision 1 is supported starting from WITE32 ver. 2.61.

CHAPTER 3

FIXED BUGS

The following bugs were discovered in WITE32 ver.2.60 or in earlier versions and were fixed in WITE32 ver.2.61. The description below explains the bug behavior as it appeared in WITE32 ver.2.60.

3.1 *Analog Front End*

1. The UP7A GTE Interface board was reported as UP8 GTE Interface in the Configure | Preamp... dialogue box.
2. The combination of "UP7A GTE Interface" and some of Guzik MR4 head amplifiers was considered incompatible. The "Incompatible UP Configuration: GTEMR4UMF-UP8 GTE 4 Interf" error message popped up.
3. The bug in the UP Gain Adjustment procedure manifested itself as an intermittent error message "Signal unstable".

3.2 *Miscellaneous*

1. The servo step was not initialized. The "Servo Offsets Calibration STEP is not specified" error message popped up.
2. The bug in the PCI host adapter driver manifested itself as an intermittent error message "RWA power was interrupted". The fourth revision of the PCI host adapter firmware where this bug has been fixed is included in 2.61 release.
3. The Sector Amplitude Stability test corrupted servo information written on the disk. It resulted in the wrong TAA measurements in the Track Profile test.
4. The OVERFLOW error message popped up when the MR-Transfer Curve test was performed on the tracks greater than 32767.
5. The *Control | System* form could not be closed correctly. WITE intermittently crashed when this form was opened for the second time.
6. Lines did not connect the points of plots if the axis limits were reversed.

3.3 *Known Problems*

Service Pack 1 for Windows 2000 is not supported yet. The support for Service Pack 1 will be included into the next revisions of WITE32.

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