



## Release Notes

# **WITE32**

**Version 4.04**

**03/10/2009**

# **CHAPTER 1 INTRODUCTION**

The release 4.04 of WITE32 incorporates new features and bug fixes introduced after the release version 4.03. This document uses the release notes for WITE32 version 4.03 as a baseline for comparison.

# CHAPTER 2

## NEW FEATURES INTRODUCED IN WITE32

### 2.1 New V2002 Tooling Types

The following cartridge and media sets for V2002 spinstand are supported for the first time in WITE32 version 4.03:

<i>Cartridge Part Number</i>	<i>Media Size</i>
80-702643/702644	2.5"
80-703231/703232	2.5"
80-703231/703232	3.5"
80-704226/704227	2.5"
80-704680/704681	2.5"
80-704682/704683	3.5"
80-704682/704683	2.5"
80-704738/704739	2.5"
80-704769/704770	2.5"
80-704794/704795	2.5"
80-704832/704833	2.5"
80-704860/704861	2.5"

### 2.2 New Headamplifiers and Headstack

<i>New Headamplifiers</i>		
SR3722	SR3482ABA	MR7_SH
<i>New Headstacks</i>		
HSA_ SR3482ABA		

## 2.3 WITE32 Modifications

If PW measurements are configured to use the *Overwrite* filter (Spectrum Analyzer), the error message now recommends to use another filter, see Figure 1.



Figure 1: Warning message if PW is measured through the Overwrite filter

In previous version of WITE32 the error message "*Threshold adjustment failed, DAC too high*" was correct but confusing. The threshold adjustment fails because there are no pulses or rise/fall slopes on the output of the Overwrite (narrow bandwidth) filter.

In general we do not recommend specifying the Overwrite filter as a system filter, but select it explicitly in the setups of the tests, which are chosen to perform the measurement through the Overwrite filter, such as *W/R Offset*, *Track Profile* etc.

# CHAPTER 3

## FIXED BUGS

The following bugs were discovered in WITE32 version 4.03 or earlier, and fixed in WITE32 version 4.04. The description of a bug explains the bug behavior as it appears in WITE32 version 4.03.

### 3.1 Tests and Measurements

1. If the currently loaded setup has the *Overwrite* filter selected as a system one and PRML Chip Adapter Guzik P/N S23-332870 is installed in the Analog box, start device produces an error message “*Threshold adjustment failed, DAC too high*”.
2. When the *Servo Improvement Package* servo mode is selected in the *Control | Servo Control* dialog box, and the number of sectors specified in the *Control | Gate and Track Format* dialog box is large, the following error message may occur intermittently: “*Operation timeout. Timeout during ADC acquisition in servo ID acquisition.*” The bigger the RPM or the number of sectors selected in the system, the greater the probability of occurrence of this error message.
3. The Micro Actuator Stroke test reports raw data values to the *Result Processor* in nano-meters but labels them in  $\mu\text{Inch}$  if the *British* unit system is selected. Now *Backward Stroke*, *Forward Stroke*, and *Range* are displayed and labeled in *nm* for the Metric units and in  $\mu\text{Inch}$  for the *British* units.

### 3.2 Spinstand and Servo

1. WDCP2002: Spinstand reset crashes with the “*unknown software exception*” error in the case of hardware conflicts. For example, it occurs if you change the *Shroud Type* while a spindle is rotating and covered with a *Protective shroud*, save the setting, and reset the spinstand. Now WDCP2002 displays a message “*Requested action failed*”.

### 3.3 UP10 and MR7

1. MR7: *TFC Voltage* is not applied to a head in the *Write* mode when you specify the *TFC DAC Unit* in the *Control | Headamplifier* dialog box.
2. MR7: After choosing *TFC Power Unit*, lower voltage is applied to head in the *Write* mode compared to the voltage applied in the *Read* mode.
3. MR7: Starting from version 4.04 WITE32 provides checking of short-circuit or asymmetric differential connection. When the connection is shorted, the warning message “*TFC is shorted and cannot be enabled*” is displayed, and the TFC driver is shut off. When the positive and negative TFC currents differ by more than twice, the warning message “*TFC cannot be enabled. TFC Positive and Negative current are different. I+ = [value] mA, I- = [value] mA, V+ = [value] V, V- = [value] V*”, and the TFC driver is shut off.
4. MR7: Headamplifier setup cannot be opened. WITE32 displays a number of messages like: “*Parameter 'BiasMode' (0) has not been attached to any control*” when you go to the *Control | Headamplifier* dialog box. It occurs if you install and uninstall another version of WITE32 on the computer where the original version of WITE32 has been installed, and then start the original version.

### 3.4 Miscellaneous

1. The *RWA EEPROM Viewer* application does not display information about the front-end boards if UP10 preamplifier is installed.
2. The *Signal Explorer* installation script may fail to register certain modules on some computers. Self-Registration error messages “*Attempt to access invalid address*” are displayed in this case.