

Release Notes

Product: Scalar® 1000 641A.00003

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Contents

Page	Topic
1	Purpose of this Release
1	New Enhancement
2	Compatibility Matrix
3	Resolved Issues
4	Known Issues
4	Documentation

Purpose of this Release

This Scalar 1000 641 firmware release adds one new enhancement that extend the capabilities of the Scalar 1000 Library. This document describes the new enhancement, as well as corrections made to issues encountered in previous releases of the library. Visit www.adic.com for additional information about Scalar 1000 641 Firmware and previous releases.

New Enhancement

The following enhancement is in this release of the Scalar 1000:

- **Improved label scanning during teaching**

Previously, teach values could vary as much as 2mm between teaches, which could generate SAC 7C errors.

To improve scanning accuracy and reduce variance errors, labels are now scanned at least twice. If the X or Y value exceeds 0.5mm, either X, Y, or both are scanned again. After scanning, the largest X value and smallest Y value are passed to the teach function to calculate cell positions.

Also, to help eliminate SAC 7B errors that occurred during teach mastering, the reach motor extends 1mm farther while extending to the teach master bracket.

Finally, to alert users when a scanner might need replacing, during the teach a warning message appears on the operator panel when the scan beam is not level or is jittery.

Compatibility Matrix

Refer to [Table 1](#) for information on drive and auxiliary firmware compatibility with Scalar 1000 641 firmware.

Table 1 Drive and Auxiliary Firmware Compatibility Matrix

Component	Firmware Version
RMU	161A.00005, 186A.00007, and 210A.00002
SNCs	
SNC 3000	3.43.18
SNC 5100	4.45.10, 4.45.15, and 4.45.16
Scalar DLC	2.6
Drive Types	
LTO-1	53J1, 36UC and 4561
LTO-2	53Y2, 42D1 and 4AP0
AIT-1	04E5
AIT-2	0200_CY10
AIT-3	0209_0001
3590-B1A	D0IA_572
3590-E1A	D0IF_26E
DLT-4000	V151
DLT-7000	V107
DLT-8000	V80
SDLT 220	V82
SDLT 320	V82

Resolved Issues

Problems resolved in this release of Scalar 1000 641 Firmware are as follows:

Change Request Number	Description
25122	SAC 93 errors sometimes occurred on drives while reinitializing the library. To help eliminate these errors, there is now a 5 second waiting period for IBM LTO drives. If an ACK is not returned for the drive, there are two retries, resulting in a 15-second total time out. In the event of a failure, during higher level functions the drive communications error is reported without additional waiting.
30224	Corrects a condition in which the operator panel and Log_Sense reported the drive's firmware level incorrectly because a string variable was not initialized correctly.
30986	Corrects a condition that occurred when printing the log information in the 630 logs, in which the retract retries was incorrect for previous versions.
33963	Media settings are now preserved during a firmware upgrade. (When upgrading from 630 to 640 firmware, if the media mode was set to extended it was reset to default mode after the upgrade.)
36097	Corrects a condition in autocleaning immediate mode in which an expired AIT cleaning tape resulted in move failure. The library now recognizes an expired AIT cleaning cartridge and marks it expired in the database. Additional functionality has been added to force a cleaning event on AIT 3 drives when necessary.
37030	Corrects a condition that caused a SAC 7A Reach Homing Error.
38272	Current scan velocity and cleaning cartridge information is now included in the library log.
38796	Corrects a condition that prevented toggling element addressing between old and new styles for ADSM.
39285	The library log no longer fills with meaningless errors when the library has no RMU installed. Only one message is generated when no RMU is installed.
39948	Corrects a condition for AIT and SDLT drives that caused SAC 7C errors due to drive recovery functionality implemented in the 640 code.
40727	Total wait time for AIT drives is increased to 15 seconds to reduce the occurrence of SAC 93 errors. Initial wait time is now 5 seconds. If there is no response, the entire command sequence is retried two more times, providing 15 seconds total time before reporting a drive communication failure.
42786	Systems with LTO drives now have a longer wait time to ensure that the power-on self test (POST) completes. This longer wait time eliminates SAC 96 errors that occurred on some libraries when auto inventory was turned off, which resulted in shorter wait times that prevented the POST from completing.
42795	Corrects a condition in which the SDLT get profile was incorrect, which caused SAC 7C errors.

Known Issues

Due to a safety mechanism in the system, if you revert to a previous firmware version (for example, from 641 to 630,) the library resets the entire database to use the default values. This safety feature protects the library against incompatibilities that might be caused by using database values from a higher firmware version when reverting to a lower firmware version.

Documentation

The following documents are currently available for the Scalar 1000:

Document Number	Document Title
6-01150-01	Scalar 1000 Planning Guide
6-00054-03	Scalar 1000 Operator Guide
6-00055-02	Scalar 1000 SCSI Reference Manual