Kodak

Sony AIT-5 Tape Drive
Installation Procedure for Prinergy (beta)

719-00919A-EN-Rev A

03 Oct 2007

Copyright 2007 Kodak. All rights reserved.

Revision History

Revision	Date	Author	Comments
1.0	03 Oct 2007	Philip Samaniego	First draft. Edited by Ken DeCarle.

Kodak

Sony AIT-5 Tape Drive Installation Procedure for Prinergy (beta)

CONTENTS

Revision History ii

1. Overview 1
2. Reference 1
3. Requirements 1
4. AIT-5 Compatibility 1
5. SCSI Connection 1
6. AIT-5 Part Numbers 2
7. Library Serial Number Required For AIT-5 Order 2
8. Default Dip Switch Settings 2
9. Prinergy Backup Workaround for Beta Installation 3

This page intentionally left blank.

1. OVERVIEW

Kodak has qualified the Sony AIT-5 tape drive for beta release. Sales of the AIT-5 will only be for upgrading existing Qualstar TLS-4000 series libraries. Kodak will not resell standalone drives or new libraries with AIT-5 drives.

The capacity of the AIT-5 is 400GB (native) per cartridge. Maximum data throughput is 24MB/sec (native).

2. REFERENCE

- *AIT Tape Library Configuration Procedure* (73-3672A)

3. REQUIREMENTS

- Prinergy 4.0.2.1 or later
- Qualstar TLS-4xxx firmware version 2.25
- AIT-5 firmware version 0102_4002
- Sony AIT driver version 3.0.0.1
- Maximum of three tape drives per u160/u320 SCSI bus

4. AIT-5 COMPATIBILITY

The Qualstar TLS-4xxx libraries can be upgraded to use Sony AIT-5 tape drives. The AIT-5 tape drive is backward compatible with AIT-3 (read and write) media. It is not backward compatible with AIT-2 media. The AIT-5 tape drive uses the SDX5-CL cleaning tape.

5. SCSI CONNECTION

The maximum number of AIT-5 tape drives per SCSI bus is three. The minimum Host Bus Adapter (HBA) to be used should be u160. If the library has more than three tape drives, the drives should be split into more than one bus. Additional SCSI ports and cables may be required.

For libraries using more than one SCSI bus, you must use **RSMConfg.exe** to configure the library in Removable Storage Management (RSM). For information about how to use **RSMConfg.exe**, see the *AIT Tape Library Configuration Procedure* (73-3672A).

The internal SCSI cabling of libraries manufactured before 2003 (those with serial numbers lower than 2300000) must be replaced in order to support AIT-5 drives. Note that the internal cabling may have already been replaced if the existing library has AIT-3 tape drives.

The following list shows the SCSI cable part numbers for each model of tape library:

Qualstar Library	Qualstar Part Number	Kodak Part Number
TLS-42xx	500848-22-1	16-4503
TLS-44xx	50848-24-7	16-4502
TLS-46xx	50848-26-2	186-00010
TLS-412xxx	50848-15-5	216-00074

If there are more than three tape drives, you may need to order the following:

- 609-00404 Adaptec AHA39320 u320 SCSI controller (check for an available slot)
- 216-00039 SCSI cable, VHD68-HD68
- 16-4501 SCSI Terminator, LVD

6. AIT-5 PART NUMBERS

The AIT-5 tape drive uses a different cleaning tape (SDX5-CL) than previous models. The following are the Kodak part numbers for AIT-5 drive and media:

- AIT-5 drive: 607-00224 (library serial number required)
- AIT-5 media (SDX5-400C): 610-00051 (minimum order is five pieces)
- AIT-5 10-piece media bulk pack (SDX5-400C with no individual cases): 610-00052
- AIT-5 cleaning tape (SDX5-CL): 610-00053

7. LIBRARY SERIAL NUMBER REQUIRED FOR AIT-5 ORDER

You must specify the library serial number when ordering AIT-5 tape drives. The TLS-42xx library uses different mounting hardware for the drives compared to the larger libraries. Qualstar will provide the necessary mounting hardware based on the library serial number.

8. DEFAULT DIP SWITCH SETTINGS

AIT-5 tape drives should have been shipped from Sony with the following settings:

Dip switch	Setting	Description
1	OFF	DR Mode
2	OFF	Emulation Mode
3	ON	AIT Library Interface Mode
4	OFF	Reserved
5	ON	Terminator Power
6	ON	Periodic Cleaning Required (every 100 hours of operation)
7	ON	DC Control 1 (ON allows compression)
8	OFF	DC Control 2 (Off allows host control)

9. PRINERGY BACKUP WORKAROUND FOR BETA INSTALLATION

In order for Prinergy Backup to be able to use the AIT-5 tape drive, you must modify the following scripts:

- **BACK_Details.properties**
- **NTBackup.py**
- **AraxiBackupMedia.py**

The scripts are located in the folder **%AraxiHome%\lib\python\com\creo\araxi\NTBackup** on the Prinergy primary server. Modify the scripts as follows:

BACK_Details.properties

1. Search for the line beginning with **HistoryLog.Detail.1209020.SolutionString**
2. Modify the line by adding **8MM AIT**, as shown in the following example.
   HistoryLog.Detail.1209020.SolutionString=The media type is set in the registry key\System\Backup\MediaType. The values currently recognized are DLT, 8MM AIT1, 8MM AIT, LTO Accelis and LTO Ultrium

NTBackup.py

1. Search for the line (there should be two instances of this line):
   self.mediaType == AraxiBackupMedia.MediaTypeLTOUltrium):
2. Modify both instances of the line as follows:
   self.mediaType == AraxiBackupMedia.MediaTypeLTOUltrium or
3. Add the following line after both instances:
   self.mediaType == AraxiBackupMedia.MediaTypeAIT-5):

AraxiBackupMedia.py

1. Search for the line **MediaTypeAIT = 8MM AIT1**
2. Add the following line after the line in step 1:
   MediaTypeAIT-5 = 8MM AIT