

Release Notes

ADA 3.10.1



Details of this document

Title	ADA 3.10.1
Type	Release Notes
Date	30/06/2020
Author	Louis-Frederic Laszlo
Classification	Public
Status	Released

Versions

30/06/2020	Release ADA 3.10.1
-------------------	--------------------

Table of contents

1. PROCEDURE FOR UPGRADING FROM AN OLDER VERSION	4
2. NEW FEATURES.....	5
2.1. AUDIT TRAIL	5
2.2. LUSTRE FILESYSTEM COMPLETE SUPPORT	6
2.3. AMAZON S3 GLACIER DEEP ARCHIVE	6
2.4. GOOGLE CLOUD PLATFORM OBJECT STORAGE	7
2.5. WASABI CLOUD OBJECT STORAGE SUPPORT	7
2.6. SCALEWAY OBJECT STORAGE SUPPORT	7
3. ENHANCEMENTS.....	8
3.1. IGNORE SSL CERTIFICATE CHECKING FOR NAS API CONNECTOR	8
3.2. WEBSERVICES ENHANCEMENTS.....	8
3.3. UPDATE THIRD PARTY COMPONENTS	9
4. COMPATIBILITY.....	10
4.1. CENTOS 8.....	10
5. KNOWN ISSUES.....	11
5.1. NON-UTF8 CHARACTERS MANAGEMENT	11
5.2. PERFORMANCES ISSUES TO S3/GCS	11
6. END OF SUPPORT.....	12
6.1. ATEMPO-DIGITAL ARCHIVE – SERVER.....	12
6.2. ATEMPO-DIGITAL ARCHIVE – AGENT.....	12
6.3. ATEMPO-DIGITAL ARCHIVE – ADMINISTRATION CONSOLE.....	12
6.4. ATEMPO-DIGITAL ARCHIVE – NATIVE USER INTERFACE.....	13
6.5. ATEMPO-DIGITAL ARCHIVE – JAVA USER INTERFACE	13
6.6. ATEMPO-DIGITAL ARCHIVE – SUPPORTED FILE SYSTEMS.....	13
6.7. MEDIA MANAGER (AMM)	13

1. Procedure for upgrading from an older version

Before upgrading your environment to Atempo Digital Archive 3.10.1, we recommend that you do the following:

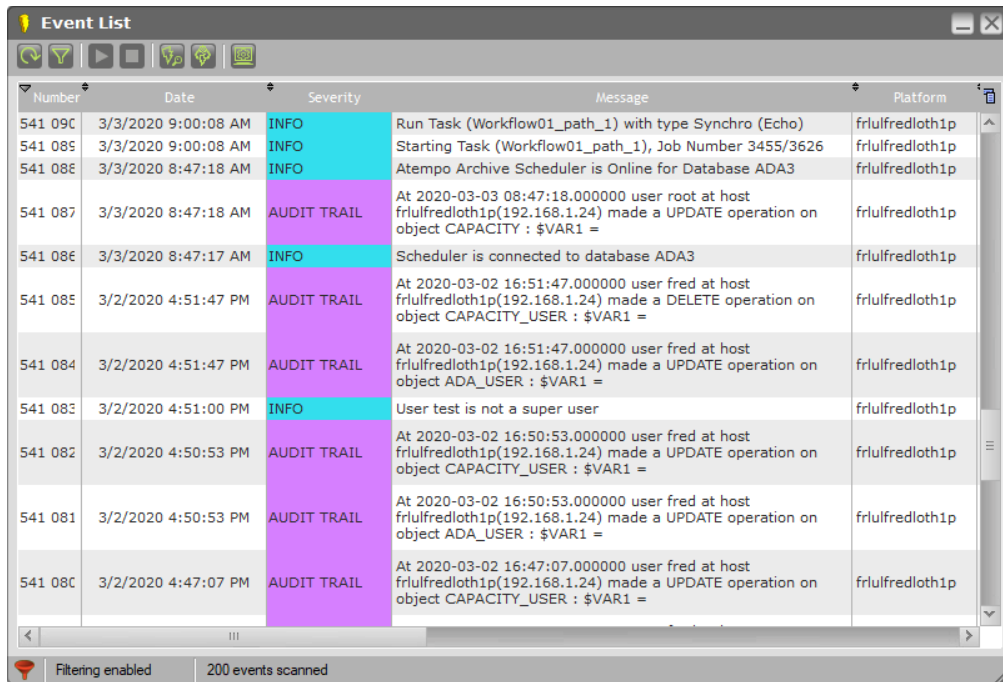
- **If you are using a third-party integration with Atempo WebServices, please read carefully and test changes before upgrading your production Instance.**
- Make a backup of your current database. See section **Backing up and Restoring the Digital Archive Database** in the Atempo Digital Archive Administrator's Guide for more information about this procedure.
- Make sure you are informed about deprecated components. See section End of Support on page 12 to learn more.
- If you upgrade from a version before 3.10.0, please report to the 3.10.0 Release Notes and follow the upgrade procedure described.

2. New features

2.1. Audit trail

The audit trail functionality allows you to record all administrative operations performed in ADA.

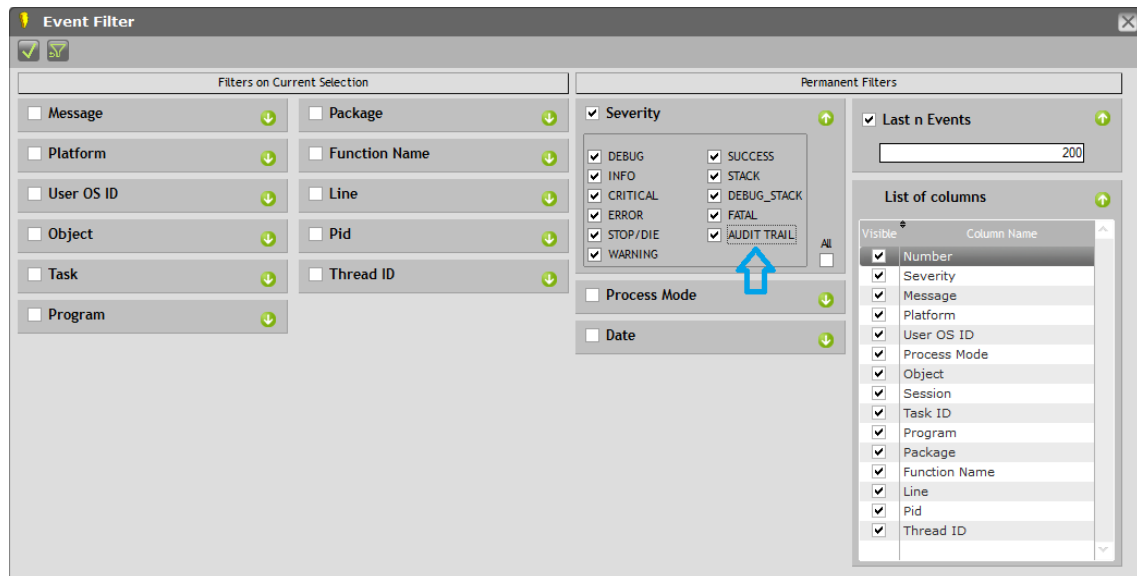
Each operation is recorded and is visible in the events tab of the user interface. These events are of the audit trail type.



Number	Date	Severity	Message	Platform
541 09C	3/3/2020 9:00:08 AM	INFO	Run Task (Workflow01_path_1) with type Synchro (Echo)	frlulfredloth1p
541 089	3/3/2020 9:00:08 AM	INFO	Starting Task (Workflow01_path_1), Job Number 3455/3626	frlulfredloth1p
541 08E	3/3/2020 8:47:18 AM	INFO	Atempo Archive Scheduler is Online for Database ADA3	frlulfredloth1p
541 087	3/3/2020 8:47:18 AM	AUDIT TRAIL	At 2020-03-03 08:47:18.000000 user root at host frlulfredloth1p(192.168.1.24) made a UPDATE operation on object CAPACITY : \$VAR1 =	frlulfredloth1p
541 08E	3/3/2020 8:47:17 AM	INFO	Scheduler is connected to database ADA3	frlulfredloth1p
541 085	3/2/2020 4:51:47 PM	AUDIT TRAIL	At 2020-03-02 16:51:47.000000 user fred at host frlulfredloth1p(192.168.1.24) made a DELETE operation on object CAPACITY_USER : \$VAR1 =	frlulfredloth1p
541 084	3/2/2020 4:51:47 PM	AUDIT TRAIL	At 2020-03-02 16:51:47.000000 user fred at host frlulfredloth1p(192.168.1.24) made a UPDATE operation on object ADA_USER : \$VAR1 =	frlulfredloth1p
541 083	3/2/2020 4:51:00 PM	INFO	User test is not a super user	frlulfredloth1p
541 082	3/2/2020 4:50:53 PM	AUDIT TRAIL	At 2020-03-02 16:50:53.000000 user fred at host frlulfredloth1p(192.168.1.24) made a UPDATE operation on object CAPACITY_USER : \$VAR1 =	frlulfredloth1p
541 081	3/2/2020 4:50:53 PM	AUDIT TRAIL	At 2020-03-02 16:50:53.000000 user fred at host frlulfredloth1p(192.168.1.24) made a UPDATE operation on object ADA_USER : \$VAR1 =	frlulfredloth1p
541 08C	3/2/2020 4:47:07 PM	AUDIT TRAIL	At 2020-03-02 16:47:07.000000 user fred at host frlulfredloth1p(192.168.1.24) made a UPDATE operation on object CAPACITY_USER : \$VAR1 =	frlulfredloth1p

To enable the audit trail feature:

1. In the user interface click the **Server** tab > **Events**.
2. Click on the **Filters** button.
3. Select the audit trail check box.



Filters on Current Selection		Permanent Filters	
<input type="checkbox"/> Message	<input type="checkbox"/> Package	<input checked="" type="checkbox"/> Severity	<input checked="" type="checkbox"/> Last n Events
<input type="checkbox"/> Platform	<input type="checkbox"/> Function Name	<input checked="" type="checkbox"/> DEBUG	200
<input type="checkbox"/> User OS ID	<input type="checkbox"/> Line	<input checked="" type="checkbox"/> INFO	<input checked="" type="checkbox"/> SUCCESS
<input type="checkbox"/> Object	<input type="checkbox"/> Pid	<input checked="" type="checkbox"/> CRITICAL	<input checked="" type="checkbox"/> STACK
<input type="checkbox"/> Task	<input type="checkbox"/> Thread ID	<input checked="" type="checkbox"/> ERROR	<input checked="" type="checkbox"/> DEBUG_STACK
<input type="checkbox"/> Program		<input checked="" type="checkbox"/> STOP/DIE	<input checked="" type="checkbox"/> FATAL
		<input type="checkbox"/> Process Mode	<input checked="" type="checkbox"/> AUDIT TRAIL
		<input type="checkbox"/> Date	

Visible	Column Name
<input checked="" type="checkbox"/>	Number
<input checked="" type="checkbox"/>	Severity
<input checked="" type="checkbox"/>	Message
<input checked="" type="checkbox"/>	Platform
<input checked="" type="checkbox"/>	User OS ID
<input checked="" type="checkbox"/>	Process Mode
<input checked="" type="checkbox"/>	Object
<input checked="" type="checkbox"/>	Session
<input checked="" type="checkbox"/>	Task ID
<input checked="" type="checkbox"/>	Program
<input checked="" type="checkbox"/>	Package
<input checked="" type="checkbox"/>	Function Name
<input checked="" type="checkbox"/>	Line
<input checked="" type="checkbox"/>	Pid
<input checked="" type="checkbox"/>	Thread ID

For details, see the Atempo-Digital Archive Administrator's Documentation.

2.2. Lustre filesystem complete support

It is now possible to choose Lustre as a Shared File System with the following features:

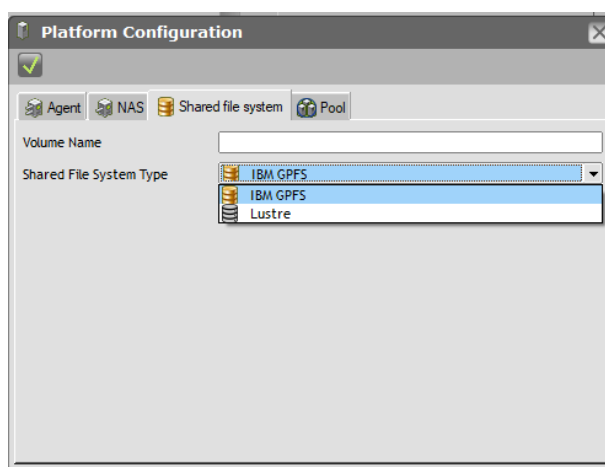
- True Image Recovery:
 - Identical backup and restore of all Lustre attributes, including file and directory layout.
 - Cross filesystem for backup, restore and synchronization: you can restore what was backed up on Lustre to another system and the other way around.
- Lazy Size Support.

Compatibility:

- Lustre version 2.12.3
- Lustre version 2.12.4

To add a Lustre as a Shared File System:

1. In the left pane, click **Storage > Archiving Platforms**.
2. Select a platform and click the **New (+)** button at the top right and select **New Archiving Platform**.
3. Select the **Shared file system** tab.
4. Enter the name for the new shared file system.
5. Select **Lustre** as Shared file system type.



2.3. Amazon S3 Glacier Deep Archive

You can now choose Amazon S3 Glacier Deep archive as a third-party storage for long-term data retention.

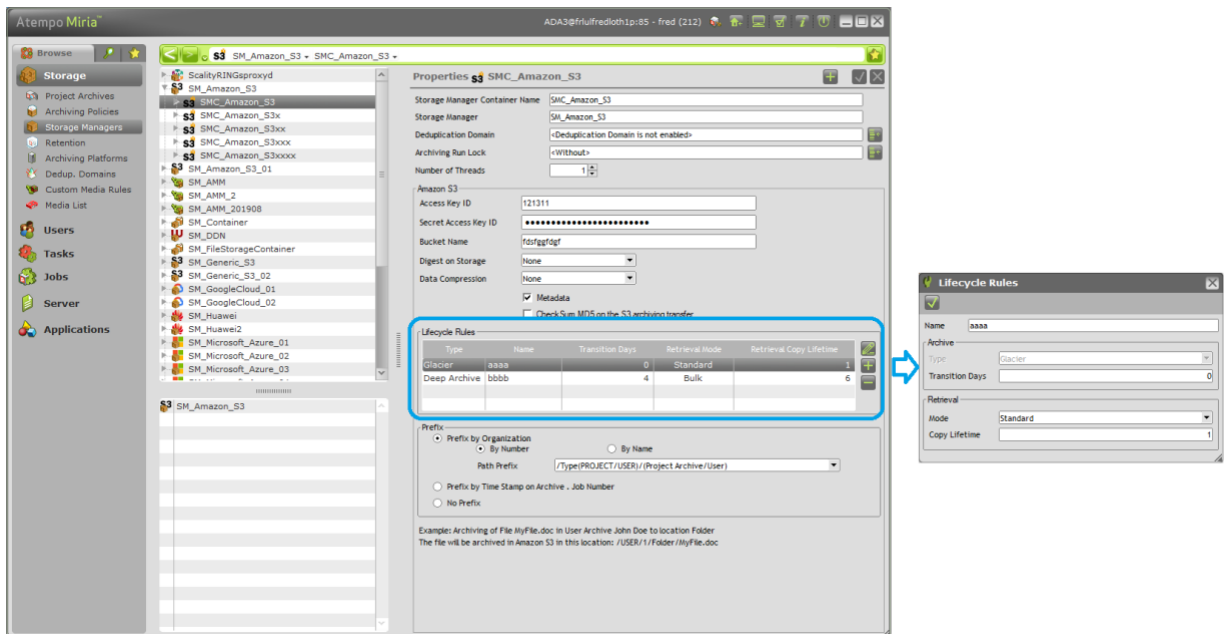
This allows you to migrate data from S3 to glacier, from glacier to deep archive or from S3 to deep archive.

You have the possibility to manage the rules directly in ADA:

1. Create a storage manager for Amazon S3.
2. Create a storage manager container for this storage manager.
3. Click on the **Add** button of the **Lifecycle rules** section.

4. Select **Deep archive** in the type section.

You can also manage the restoration part by choosing the desired restoration time: Standard mode in 12h or Bulk mode in 48h.



2.4. Google Cloud Platform Object Storage

The Google Cloud Storage Manager is now integrated with Digital Archive.
For details, see the Atempo-Digital Archive Administrator's Documentation.

2.5. Wasabi Cloud Object Storage Support

The Wasabi Cloud Storage Manager is now integrated with Digital Archive.
For details, see the Atempo-Digital Archive Administrator's Documentation.

2.6. Scaleway Object Storage Support

The Scaleway Storage Manager is now integrated with Digital Archive.
For details, see the Atempo-Digital Archive Administrator's Documentation.

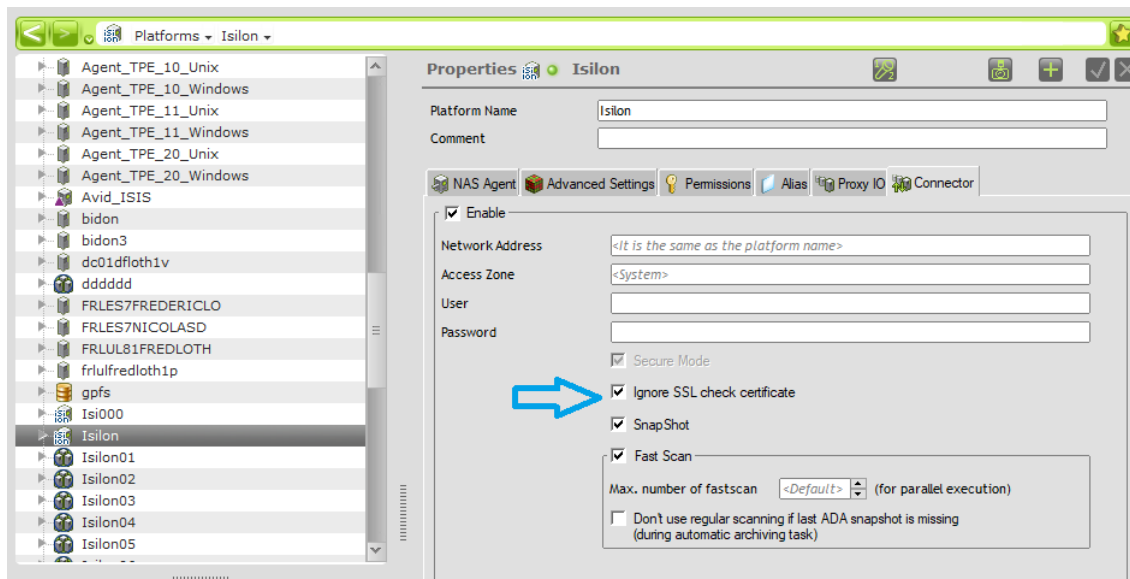
3. Enhancements

3.1. Ignore SSL Certificate checking for NAS API Connector

When you make API calls from Atempo Digital Archive to a NAS, the SSL certificate installed on the NAS is checked to validate a secure connection. This is required especially when you carry out FastScan.

You can now disable the SSL check certificate from the Admin Interface:

1. Select an Isilon, a Qumulo or a Netapp NAS.
2. Click the **Connector** tab.
3. Check **Ignore SSL check certificate**.



3.2. Webservices Enhancements

Web services enable third-party applications to make HTTP requests to Atempo Digital Archive (ADA). These requests perform tasks such as archiving data, getting status, or retrieving data. Once the task is completed, ADA returns its response to the requesting application as an XML file.

This table lists and describes the web services developed and enhanced by Atempo in this version:

Web Service	Type	Description
archiveFolder	New endpoint	Archives recursively a folder and its sub-objects to the specified archive folder.
deleteFile	New endpoint	Marks as deleted, file(s) from an archive project.
fileCheck	New endpoint	Checks if specified file(s) exist(s) in the archive project.
fileSearch	New endpoint	Search for files in the archive project based on criteria provided.
getJobStatus	Enhancement	Retrieves the status of a job.
reportVolume	Enhancement	Generates a report of the volume of archived data.
retrieveFile	Enhancement	Retrieves archived file(s) to the specified destination.
launchTask	Enhancement	Override the source and destination fields in the synchronization task definition.

For more details, see the Atempo-Digital Archive Administrator's Documentation.

3.3. Update third party components

To prevent vulnerabilities and security breaches, we have improved all third parties used in Atempo Digital Archive:

- Sony ODA SDK - V5
- Boost - 1.72.0
- CryptX - 0.068
- Curl - 7.69.1
- Ffmpeg - 4.2.2
- Gsoap - 2.8.98
- Imagemagick - 7.0.10.3
- Libjpeg - 9d
- Libxml2 - 2.9.10
- Libxslt - 1.1.34
- Openssl - 1.1.1f
- Perl - 5.30.1

4. Compatibility

4.1. CentOS 8

Atempo Digital Archive 3.10.1 supports CentOS 8, for the following Atempo Digital Archive components:

- Agent.
- Java User Interface.

5. Known Issues

5.1. Non-UTF8 characters management

ADA internally manages object names (files, directories), using UTF8 encoding.

Occasionally, object names containing characters or character sequences may not correspond to a valid UTF8 encoding.

For example: An application writes on a share volume with an encoding (non UTF8). This volume is then accessed by ADA. ADA and the system that mounts the volume have no knowledge of the encoding that was used. In this specific context, ADA detects the names that contain “invalid” characters and ignores these files during the scanning phase. As a result, files containing invalid characters are not archived, not copied, and not migrated.

The aim is to enable ADA to handle these files:

- Exclusions/inclusion management.
- Crossover restoration.
- Writing to storage other than 121: most only support UTF8 names.
- Symbolic links.

6. End of Support

The following list of items are features/objects/operating systems no longer supported by Atempo Digital Server.

6.1. Atempo-Digital Archive – Server

Operating System	Version	Architecture
Linux	SUSE SLES v11	X86-64
Microsoft Windows	Server 2008 R2	X86-64

6.2. Atempo-Digital Archive – Agent

Operating System	Version	Architecture
HP-UX	11i v2	Itanium
	11i v3	
IBM-AIX	7.1	64
	7.2	
	Debian 7	
	Ubuntu 14.04 LTS	
macOS	MacOS 10.9 (Mavericks)	X86-64
	MacOS 10.10 (Yosemite)	
	MacOS 10.11 (El Capitan)	
	macOS Sierra (10.12)	
Microsoft Windows	Server 2008 R2	X86-64
SUN Solaris	Solaris 9	SPARC
	Solaris 10	
	Solaris 11	

6.3. Atempo-Digital Archive – Administration Console

Operating System	Version	Architecture
macOs	MacOS 10.9 (Mavericks)	
	MacOS 10.10 (Yosemite)	

	MacOS 10.11 (El Capitan)	
	macOS Sierra (10.12)	
Microsoft Windows	Server 2008 R2	X86-64

6.4. Atempo-Digital Archive – Native User Interface

Operating System	Version	Architecture
macOs	MacOS 10.9 (Mavericks)	
	MacOS 10.10 (Yosemite)	
	MacOS 10.11 (El Capitan)	
	macOS Sierra (10.12)	
Microsoft Windows	Server 2008 R2	X86-64

6.5. Atempo-Digital Archive – Java User Interface

Operating System	Version	Architecture
HP-UX	11i v2	Itanium
	11i v3	
IBM-AIX	7.1	64
	7.2	
SUN Solaris	Solaris 9	SPARC
	Solaris 10	
	Solaris 11	

6.6. Atempo-Digital Archive – Supported File Systems

Operating System	Version
Unix	HP-UX, Solaris, AIX: Native file system

6.7. Media Manager (AMM)

Operating System	Version	Architecture
Linux	Debian 7	
	Ubuntu 14.04 LTS	
macOS	MacOS 10.9 (Mavericks)	X86-64

	MacOS 10.10 (Yosemite)	
	MacOS 10.11 (Yosemite)	
Microsoft Windows	Server 2008 R2	X86-64