



Active Circle

Release Notes

ACTIVE CIRCLE V6.2.0.7

February 2022



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1. Update Process

1.1. Version 4.0.2pX



A specific procedure is implemented to update 4.0.2 versions to version 4.6. This is available on the Active Circle help site: <https://activecircle-help.com>.

Since the VFS catalog format has changed, **all** VFS catalog objects must be upgraded before proceeding to upgrade the next node.

1.2. Version 4.5 up to 4.6

The procedure for updating Active Circle to version 6.2 from versions 4.5 up to 4.6, is first to upgrade to version 5.5 using the procedure for a major update and then to upgrade to Active Circle 6.2 using the below procedure.

1.3. Version 5.x up to 6.1

The procedure for updating Active Circle to version 6.2 from versions 5.x up to 6.1 is straightforward and requires no special preparation. It involves updating the binary files on all the nodes in your Circle and restarting the updated nodes.

The procedure is as follows:

1. Copy the **ac-6.2.X.bin** binary file for the new version to all the nodes in the Circle (X is the patch number).
2. Stop the activecircle service on all the nodes in the Circle.
3. On each node, run the setup program with the command: `./ac-6.2.X.bin -r`
4. Start the activecircle service on the first node (the necessary updates are applied during the start-up).
5. Verify that the first node has started correctly.
6. Start the activecircle service on the remaining nodes in the Circle, one at a time.
Verify that the node has started correctly before proceeding to the next one. Synchronization will update the metadata for all the nodes.

1.4. Version 6.2.x

This version is compatible with every 6.2.x, a single node in a 6.2.x circle can be upgraded without stopping all the nodes of the circle.

On the node to upgrade the procedure is the following:

1. Copy the **ac-6.2.X.bin** binary file for the new version to the node to upgrade (X is the patch number).
2. Stop the activecircle service on the node.
3. Run the setup program with the command: `./ac-6.2.X.bin -r`
4. Start the activecircle service on the node.
5. Verify that the node has started correctly.

2. Active Circle V6.2.0.7 HOTFIX – February 2022

SHA256 FOOTPRINT

e6f76d4c8a1a9872d4a5c97fbf87acb1bb1f8888875c0b5627ff5cd64eac08e3

2.1. Fixes

AC-4548

Optimized sorting for tapes: fix compatibility with acapi plugin

3. Active Circle V6.2.0.6 HOTFIX – October 2021

SHA256 FOOTPRINT

2d6376910d3e249e22f62952250d3b9d61d4811cbb0e9594df590cbcaf987f7d

3.1. Fixes

AC-4454

Fix deadlock in NFS server when renaming and deleting files concurrently.

4. Active Circle V6.2.0.5 – October 2021

SHA256 FOOTPRINT

ff8822a5ad667d1204a7398609e2ff64849527ce067624ea965a63558baad430

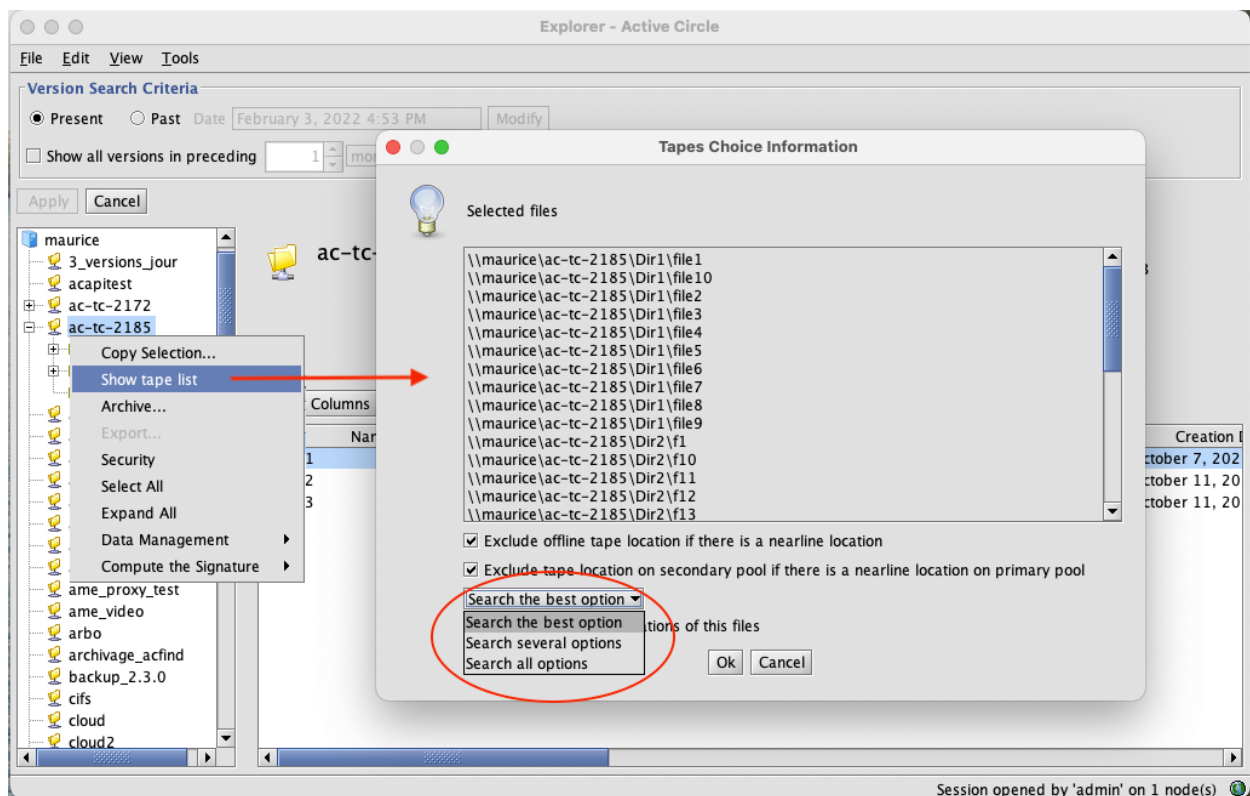
4.1. New features and enhancements

4.1.1. Optimize memory footprint of the VFS

Reset internal buffers for VFS (ghosts) when not used anymore.

4.1.2. New options to show required tape list to read a file selection in AC explorer

The dialog box to show required tapes list to read a file selection, has now 3 options:



- Search best option: gives the best option.
- Search several options: gives one option per combination possible according to the box checked above.
- Search all options: gives up to 10 options according the box checked above.

4.2. Fixes

AC-4420

Fix pagination of NFS directory listing that led to show only a partial view of the directory content.

5. Active Circle V6.2.0.4 HOTFIX – June 2021

SHA256 FOOTPRINT

da4dd2ad979d9efb58b9cb6e6842f652a337399b0ec5169811f652f7e33b1b43

5.1. Fixes

AC-4441

The fix missing pack mechanism is now available for shared partitions.

AC-4410

Timeout the accept of the FTP data socket in passive mode to avoid potential “Too many open file” error if the client never connects to the data socket.

The timeout can be parametrized with the system property:

ac.nas.ftp.passive.acceptTimeout that must be given in ms (3 600 000 i.e. 1h is the default value)

6. Active Circle V6.2.0.3 – May 2021

This new major version of Active Circle is a consolidation version of the 6.x version and provides many fixes and enhancement.

This new version is only available for Centos 7.

SHA256 FOOTPRINT

702586f8904707bcbb4fc69239011c4a50a1b7e1761965b6d97b499d7457c543

6.1. Compatibility matrix

This new version of Active Circle 6.2.0.6 is compatible with the following version of the options:

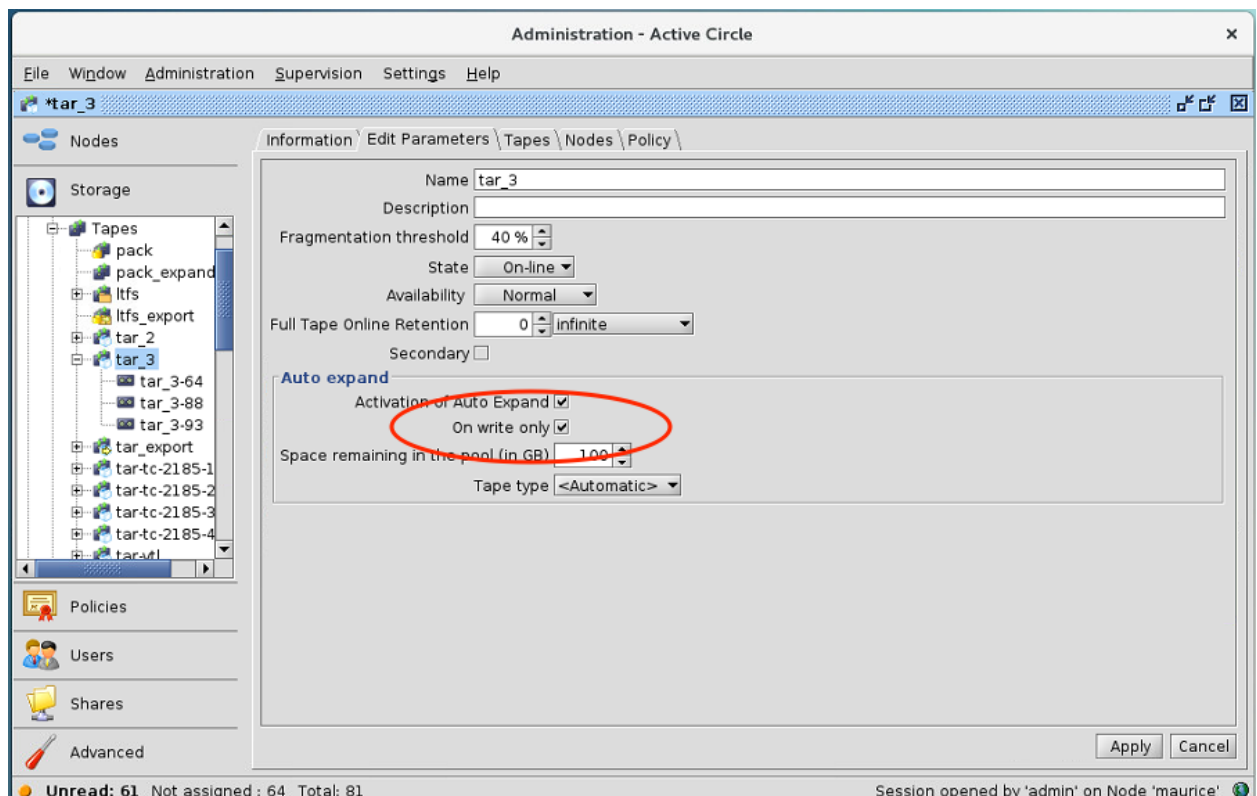
- AMC 6.1
- ADM 1.4.0 in HTTP
- AME 2.3

6.2. New features and enhancements

6.2.1. Auto expansion enhancement

- Auto-expansion of a tape pool is only allowed if the pool is online, normal or full.
- It is now possible to configure auto-expansion to add a new tape only during a writing operation, but not when a tape is closed, deleted or full.

A new checkbox has been added in the auto expansion parameters panel to activate this mode:



6.2.2. LZ4 library upgrade

Active Circle uses now version 1.7.1 of LZ4

6.2.3. Change default multicast address for cluster

Change default address from 239.255.1.1 to 224.0.0.1

6.2.4. Storage policy monitoring enhancement

The level “Configuration” of the logger “Stream” logs now the storage policy processing errors. A new supervision note is added when the policies processing time exceeds the period: the processing is then skipped. It is closed when a new processing is launched.

6.2.5. Unarchived obsolete historized disk copies removing

The versioning policy can remove disk copies of historized versions of the files even if they are not archived, as soon as they are obsolete and as the current version is successfully archived. This feature is deactivated by setting the new circle parameter **vfs.policy.removeObsoleteUnarchivedVersion** to true.

6.2.6. Control the number of log "syncCatalogVfsBoxInstance [...] instance expired for [...]"

To avoid polluting the log files, add a control to limit the number of logs
"syncCatalogVfsBoxInstance [...] instance expired for [...]"

6.2.7. Purge cache copies with the acfileop command

`acfileop --type REMOVE_CACHE -f <file> [-1]` purges the cache copies of a file or a collection of files (-1).

6.2.8. Policy processing supervision enhancement

Add a supervision note if the overall policy processing (Storage, Archiving and Versioning) exceeds the processing period. The note is sent when the policy processing should be triggered but the previous run is still ongoing. In this case, the new run is not launched. The note is automatically closed as soon as the policy processing can be relaunched.

6.2.9. Show not committed files on every node with explorer and acfind

`acfind --noCommitted` shows the files not yet committed.

The explorer GUI shows the not committed files on every nodes (formerly they were only shown on the nodes where they were deposit)

6.3. Fixes

AC-4431

Fix LOCATE SCSI command for LTO4 drives, to allow reading LTO4 tapes in LTO4 drives.

AC-4429

Error management enhancement during selection phase of the archiving process: allow to skip unreachable files while sorting (formerly archiving was interrupted if such a file was encountered).

AC-4413

Endpoint unreachable detection log enhancement: log the stack of the thread that detect an unreachable endpoint.

Add the following system properties that control the endpoint reachability management:

```
activecircle.remote.endpoint.reachable.maxRetries = 20
activecircle.remote.endpoint.reachable.shortRetryDelay = 100 ms
activecircle.remote.endpoint.reachable.longRetryDelay = 1 min
activecircle.remote.endpoint.reachable.shortConnectTimeout = 1 s
activecircle.remote.endpoint.reachable.longConnectTimeout = 10 s
activecircle.remote.endpoint.reachable.resetRetryDelay = 1 min
```

AC-4398

Fix `acps` command

Add the “-a” to display every Active-Circle threads, not only those with some activity.

AC-4384

Fix command `acinfo --archive --name|-N` when searching archives by name created before version 5.2.

AC-4366

Fix failed local copy of imported files with Active Circle explorer.

AC-4325

During a drive cleaning, the `MEDIUM_NOT_PRESENT [SK=0x2,ASC=0x3A,ASCQ=0x00]` SCSI error is no more fatal when checking the tape type while loading the cleaning tape.

AC-4271 AC-3953

Fix library using **library.conf** file start up with missing drive.

Manage missing drive in the **library.conf** by specifying the string "None" instead of an address to the missing drive.

AC-4129

Fix DRLM when there are 2 dispatcher leaders detected.

AC-4122

Fix infinite wait when connecting to LDAP server due to lost TCP connection.

AC-3895

Check and fix the status of the policy management of the shares in manual mode regarding deleted nodes.

AC-3852

Keep the checksum, if any, when renaming a temporary file to a non-temporary file.

AC-3566

Fix deadlock in SNMP agent (upgrade of snmp4j dependencies)

AC-3016

Fix timeout by limiting the number of managed streams (150000) per call during streams lookup while checking the integrity of a partition (`accheck --pool --integrity`).

This value can be tuned using the system property:

activecircle.integrityChecker.lookupStreamsNbMax. The value is limited to 1024*1024.

AC-2927

Fix share creation with the circle parameter **vfs.activateShareOnCreation** disabled, and policy management set in manual mode with only one node selected, but not a consolidation node.

AC-2709

Prevent from generating orphan streams if a node stops or restarts during bulk files deletion.