

Lina/HSS/HVDS 5.2.1 Release Notes

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Bug Fixes 5.2.1

1. ADE

- **Crash at the end of a compact**
Correction of a problem causing the ADE service to crash at the end of a compact operation.
- **Tunable `compact.resync`**
Addition of the tunable `compact.resync` allowing the compact operation to skip bad headers without launching a repair operation immediately following the compacting.
- **Cache management improvement (Windows)**
Correction of a problem whereby block files were not closed after use which in turn prevented Windows OS to reclaim cache memory. As a result performances on Windows systems are greatly improved.
- **Abnormal CPU usage**
Correction of an infinite loop in HTTP thread that occurred following network errors and caused an abnormal CPU usage.
- **HSS backup: "Original size is wrong"**
Correction of a problem whereby the error message "Original size is wrong" was generated at the end of an HSS backup when a record had a reference counter value of -1
- **`--update_repository` command**
Correction of a problem preventing the `--update_repository` command from finding all the block files present in a repository.

2. Lina

- **Cross Restore**
Correction of a problem preventing users from performing cross restore operations.
- **Agent detailed statistics**
Correction of a problem that caused Lina agent to crash when retrieving its detailed statistics.

3. HVDS

- **HVDS stream removal**
Performances have been improved to complete the removal of an HVDS stream.
- **HVA VM backup size**
Correction of a problem whereby the complete rescan of a VMDK by the HVA agent resulted in an increased VM backup size.

New Features 5.2.0

1. Agent UI Redesign

Version 5.2 comes with a new and modernized look and feel of the agent interface. We are now using HTML5 instead of Java. The new interface uses new colors, new logo and new icons. Some of the parameters have been regrouped to simplify the various windows. We also added a dashboard as an entry point, from which users can access all the functionalities.

2. Agent Information : Fully Qualified Domain Name

To identify agents more easily in the Administration interface, you can now display the Fully Qualified name for each agent. This column is not displayed by default.

3. Automatic Agent Update

To simplify agent updates, new agent versions can now be pushed transparently by the admins to users, with no action required from users. This auto update is based on the existing update URL mechanism, binaries to update must be available on a Web server.

4. Secured Cross Restore

To improve security of the cross-restore procedure and to move away from the previous single server wide password model, admins can now create cross restore tokens for specific agents and for a specific period of time. Such tokens are also used for BMR restore.

5. Restore Information

Restore operations are now logged in the events on the Lina server, in the Audit category.

6. Multi-users Confidentiality

This feature was developed to improve the confidentiality on machines used by several users. Admins can now set an option in the strategy to restrain browsing capabilities in the agent interface, where the restore view will be limited to the home directory of the user connected. No browsing is allowed on other directories, even if some backups are available.

7. Email Assigned by Admin

Email can now be entered in the Admin interface in addition to the User interface. As a reminder, if users do not provide their email, they will not be able to Perform Web Restore nor receive notifications. If the email is entered Admin side, users can no longer enter it on their agent interface.

8. Email Notifications

An email is now sent to administrators when an alarm is detected on an agent (agent not synchronized, quota reached, etc). Emails can also be sent to end users for the concerned agents.

9. Set Replication Retention on Destination

When associating a replication destination in the strategy, admins can now define a specific retention for the destination (shorter or longer). Thus the retention for the secondary server can be different from the primary.

10. Copy complete tenant configuration

To facilitate the backup configuration for admins, we added the capacity to reproduce the entire backup configuration (strategies, protection zone, protection rules, file categories) and user profiles from tenant to tenant.

11. Waiting Agents

Waiting agents are now managed in a specific form in which the administrator can select several agents and declare them with one click. A new button in the main agent view provides access to this functionality.

12. Undeleting Agents

Deleted agents can now be undeleted between the time the admin requests a delete and the time the server actually deletes it. A new button in the main agent view provides access to this functionality.

13. Syslog Format

To enable Admins that are using a Syslog system for their infrastructure to monitor Lina/HSS/HVDS on the same system, logs for the Lina Server can be exported in a Syslog compatible format. Syslog export is configured via a tunable on the server.

14. Web Restore on Data Port

When a data port is defined for a server, the Web Restore can use that port as well instead of by default using the Admin interface port. This feature is useful for admins wanting to separate the Web Restore port from the Admin Port to avoid exposing the Administration interface for instance for security reasons.

15. Expandable storage space for Lina DB

To enable Lina Databases to grow without risking a filesystem full situation, we have added the capacity to expand the storage space where Lina Agents databases are kept to enable them to grow over time. Additional space can be added with the configurator in the Admin interface.

16. ADE Maintenance Task Scheduling

It is now possible to schedule maintenance tasks to optimize storage resource usage. The following tasks can be scheduled:

- Aging(Lina only)
- Compacting
- Replication

This feature requires setting 2 internal tunables:

1. Enable or disable the scheduler (0=default/old behavior, 1=custom scheduler) :
`set ade.scheduler=1`

2. Define the schedule

```
set ade.schedule="A=[21-5],C=[0-6],R=[21-6]"
```

Syntax:

A=aging (Lina)

C=compacting

R=replication

[21-5] range (hour from 0 to 23)

In this example "A=[21-5]", indicates that Lina aging runs only between 21:00 and 5:59 (included).

It will not run during the time interval 6:00 to 20:59.

New Behavior 5.2.0

1. Email recipient configuration

The configuration of email recipients that was previously done in Preferences is now attached to the Notifications section.

Upgrading & Compatibility Issues

1. Upgradable versions

You can upgrade your Lina server and agents to Version 5.2 from the following previous versions:

- Lina 3.4
- Lina 4.x
- Lina 5.x

2. Server/Agent Compatibility

Version 5.2 of the Lina Server is fully compatible with version 5.x, 4.x and 3.4.x agents, i.e., you can continue backing up these previous agents with a 5.2 Server.

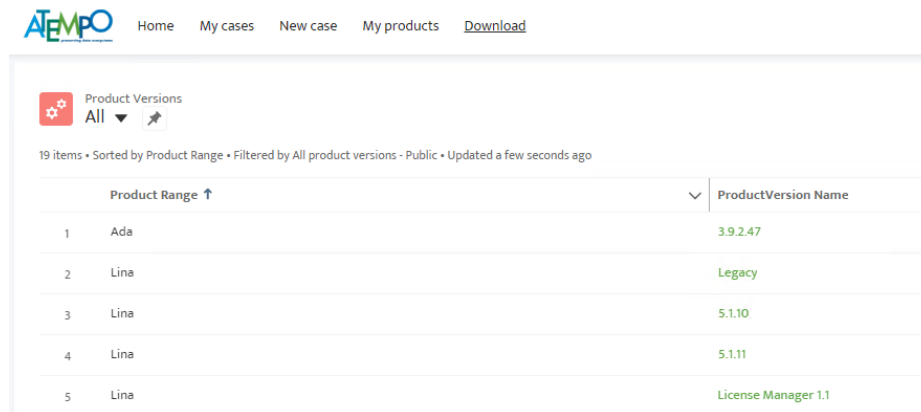
3. License Manager Upgrade

If you are upgrading from an earlier Lina Version, Version 5.2 requires an upgrade of the License Manager. To do so, download the stand-alone License Manager setup and upgrade it prior to upgrading Lina 5.2.

To download the License Manager:

1. Log on the Support portal <https://support.atempo.com>
2. In the App Launcher, select Product Versions

3. In product Versions, select Lina / License Manager 1.1



4. Choose the OS version (Windows or Linux) and download the License Manager

Known Issues

1. Maintenance Cleanup operation

The cleanup operation that is sometimes necessary following a repair is not working properly with version 5.2. Please contact our support team if you need to perform this maintenance operation.

2. Windows 32-bit Agent

The agent for Windows 32-bit machines is not generated in version 5.2.0. To back up such machines, please use the Lina 4.0 version of the 32-bit agent.

3. BMR

Version 5.2 of the BMR is not currently available. Version 5.1 can be used instead.

BMR limitations:

- Mountpoints are not backed up as objects, and restored mountpoints are defined through the BMR application
- The automatic layout does not use all necessary disks in layout editor and ignores all dynamic disks that use GPT and MBR disk together
- Cross platform restore (for example physical to virtual) may result in reboot issues for workstations.
- To be able to perform a reconstruction, the target must have a wired Ethernet port (Wifi is not supported).
- Storage Spaces are not managed with the Windows10 BMR.

4. OneDrive on macOS

If OneDrive is activated on a macOS agent, the OneDrive folder prevents the backup to complete. OneDrive folders must be excluded from the backup.

5. Update of Ubuntu Agents

The update via the update url does not work on Ubuntu agents. The setup must be launched manually of such agents.

6. Microsoft Defender Warning

When installing Lina on a Windows machine, you may get the message “Microsoft Defender SmartScreen prevented an unrecognized app from starting. Running this app might put your PC at risk.” This is due to a certificate issue and can be ignored.

7. Freeze of the agent interface

Certain sequence of actions may cause the agent interface to freeze. If this happens, you can restart the Agent Interface via the Start menu.

8. ADE Server deadlock

In some circumstances a deadlock of the `ade_server` process can occur, requiring a restart of the service.

Support & Download

- To download the latest versions of our product please visit our Customer Portal:
<https://support.atempo.com>
- If you have not received your connection information, please contact our Support Service:
Via email support@atempo.com
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