

How Do I MANAGE DATABASE REBUILDS

General Information

In the event of an uncontrolled recorder shutdown, such as a power failure, your Red Box recorder will automatically perform a database rebuild as part of its recovery process. Depending on the size of your recorded data, this rebuild can take some time and result in an interruption of recording service.

From Quantify Version 4B, the database recovery and rebuild processes have had a significant performance enhancement. This Quick Question Topic provides guidance on the options available, and the associated considerations.

In most circumstances, your Red Box Installation Engineer will perform all the associated setup, installation, and configuration tasks associated with the database rebuild options. However, we recommend that you understand the database recovery and rebuild processes to help you manage your systems.



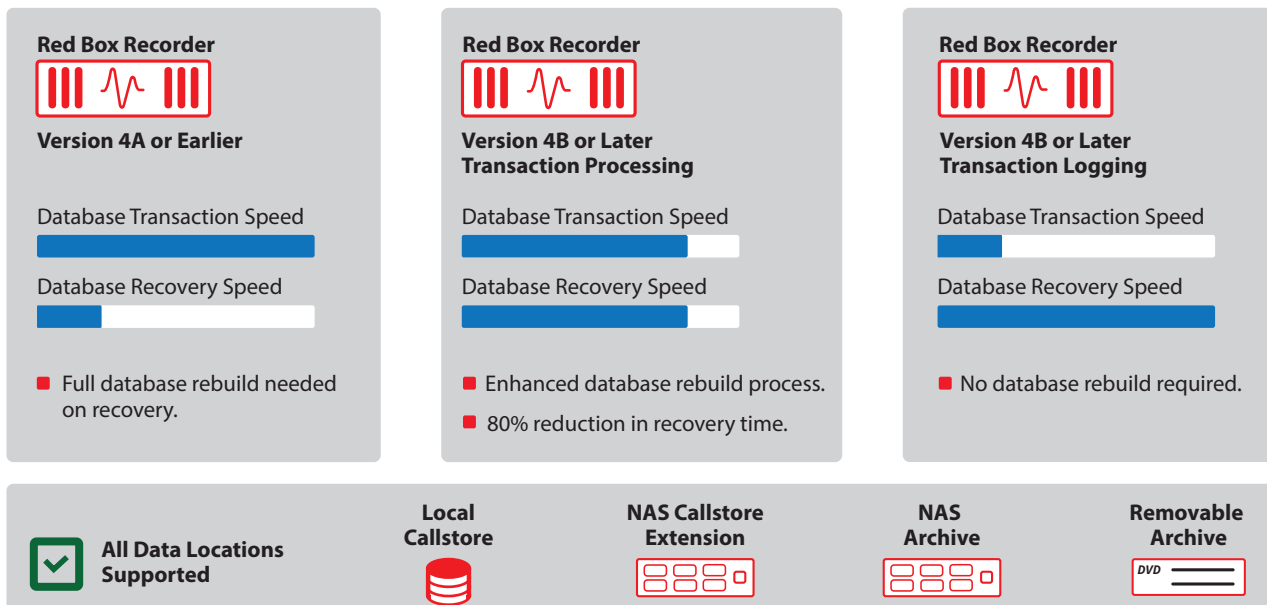
Recovery & Rebuild

As mentioned above, from Quantify Version 4B the database recovery and rebuild processes have been enhanced:

Transaction Processing: This core process is used automatically by your recorder and requires no intervention by a system administrator. The benefit however is that the database rebuild time is reduced by around 80% – so, as an example, a large database rebuild that would have taken 24 hours will now take just 4 hours.

Transaction Logging: This additional option retains a temporary log of database “transactions”. The benefit is that in the event of an uncontrolled recorder shutdown the database rebuild time on recorder restart is zero, which means there’s a minimal interruption of recording service.

Transaction Processing and Transaction Logging are supported for all data locations – local Callstore, NAS Callstore Extension, NAS Archive, and removable archive media (DVD).



Your Red Box system may look different to the one used in this document.
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Considerations

While Transaction Processing and Transaction Logging offer an enhanced feature set for data recovery, you should be aware of the following considerations. You may wish to discuss these further with your Red Box Installation Engineer, who can provide additional advice.

Performance

Transaction Processing has a minimal impact on recorder performance and you probably won't notice any difference. However, Transaction Logging does have an impact due to the additional processing required to maintain the temporary logs. You will therefore need to discuss this further with your Red Box Installation Engineer to ensure your server specification is of a high enough standard to handle the Transaction Logging load on top of normal recorder use.

Upgrade, Downgrade, and Sharing

Once a recorder has been upgraded to Version 4B or above, there is **no** downgrade path to 4A or lower. In part, this is due to the implementation of Transaction Processing. You also need to consider any storage "shared" across a multi-recorder system:

- Any NAS device "shared" across a multi-recorder system is fully compatible across recorder versions.
- For removable archive media (DVD) created using a 4B recorder (or above), the media will **only** be accessible to 4B recorders (or above) due to media format changes.

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