










# 4D XML Keys Backup

-  Overview
-  DataBase
-  Settings / Advanced
-  Settings / Advanced / BackupFailure
-  Settings / Advanced / FileSegmentation
-  Settings / Advanced / SetNumber
-  Settings / General
-  Settings / General / IncludesFiles
-  Settings / Scheduler / Frequency

# Overview

---

4D's backup and restoring preferences are available as a separate XML file. 4D uses this file's data to display the options in the Preferences dialog box, and whenever a backup or restore operation is launched.

It is possible to retrieve and modify backup parameters using 4D XML commands or via any XML editor.

The XML file storing the backup and restoring preferences is named **Backup.XML**. It is created automatically at the following location:

**DatabaseFolder/Preferences/Backup/Backup.XML**

... where **DatabaseFolder** represents the folder containing the structure file of the database. If necessary, the **Preferences/Backup/** subfolders are created automatically.

This manual lists the XML keys used in the Backup.XML file. For each key, you will find a description, along with its equivalent option in the Preferences dialog box (where applicable), the values accepted, as well as its default value.







For more information about a specific option, please refer to its description in the *4D Design Reference* manual.

All the XML keys related to the backup function are found in the Preferences4D / Backup / item.

# DataBase

---

These parameters describe files related to the database backup and store information about the last backup performed.

-  DatabaseName / Item1
-  LastBackupPath / Item1
-  LastBackupLogPath / Item1
-  CurrentBackupSet / Item1
-  LastBackupDate / Item1
-  LastBackupTime / Item1

## DatabaseName / Item1

/ Preferences4D / Backup / DataBase / DatabaseName / Item1

### **Accepted values**

---

Complete pathname

### **Equivalent option in Preferences**

---

No direct equivalence.

### **Description**

---

Complete pathname of the database data file expressed with the syntax of the current platform.

## **LastBackupPath / Item1**

/ Preferences4D / Backup / DataBase / LastBackupPath / Item1

### **Accepted values**

---

Complete pathname

### **Equivalent option in Preferences**

---

No direct equivalence.

### **Description**

---

Complete pathname of the last backup file of the database expressed with the syntax of the current platform.

## **LastBackupLogPath / Item1**

/ Preferences4D / Backup / DataBase / LastBackupLogPath / Item1

### **Accepted values**

---

Complete pathname

### **Equivalent option in Preferences**

---

No direct equivalence.

### **Description**

---

Complete pathname of the last log backup file of the database expressed with the syntax of the current platform.

## **CurrentBackupSet / Item1**

/ Preferences4D / Backup / DataBase / CurrentBackupSet / Item1

### **Accepted values**

---

Number

### **Equivalent option in Preferences**

---

No direct equivalence.

### **Description**

---

Number of the last backup file.

## **LastBackupDate / Item1**

/ Preferences4D / Backup / DataBase / LastBackupDate / Item1

### **Accepted values**

---

Date in ISO DateTime (0000-00-00T00:00:00) format

### **Equivalent option in Preferences**

---

Page: Backup/Configuration

Group: Last Backup Information

### **Description**

---

Date of the last backup.



## **LastBackupTime / Item1**

/ Preferences4D / Backup / DataBase / LastBackupTime / Item1

### **Accepted values**

---

Time

### **Equivalent option in Preferences**

---

Page: Backup/Configuration  
Group: Last Backup Information

### **Description**

---











Time of the last backup.

# Settings / Advanced

---

These parameters can be used to get and set the archive generation options and the database restoring options.

In the Backup.XML file, these keys are included in the generic "Settings" item.

-  AutomaticRestore
-  AutomaticLogIntegration
-  AutomaticRestart
-  BackupIfDataChange
-  CompressionRate
-  Redundancy
-  Interlacing
-  EraseOldBackupBefore
-  CheckArchiveFileDuringBackup
-  BackupJournalVerboseMode

## **AutomaticRestore**

/ Preferences4D / Backup / Settings / Advanced / AutomaticRestore

### **Accepted values**

---

True or False  
Default: False

### **Equivalent option in Preferences**

---

Page: Backup/Restore  
Group: Automatic Restore

### **Description**

---

Value of the "Restore last backup if database is damaged" option.

## **AutomaticLogIntegration**

/ Preferences4D / Backup / Settings / Advanced / AutomaticLogIntegration

### **Accepted values**

---

True or False  
Default: True

### **Equivalent option in Preferences**

---

Page: Backup/Restore  
Group: Automatic Restore

### **Description**

---

Value of the “Integrate last log if database is incomplete” option.

## **AutomaticRestart**

/ Preferences4D / Backup / Settings / Advanced / AutomaticRestart

### **Accepted values**

---

True or False  
Default: True

### **Equivalent option in Preferences**

---

Page: Backup/Restore  
Group: Automatic Restore

### **Description**

---

Value of the "Start database after automatic restore" option.

## BackupIfDataChange

/ Preferences4D / Backup / Settings / Advanced / BackupIfDataChange

### **Accepted values**

---

True or False  
Default: False

### **Equivalent option in Preferences**

---

Page: Backup/Backup  
Group: General Settings

### **Description**

---

Value of the "Backup only if the data file has been modified" option.

## **CompressionRate**

/ Preferences4D / Backup / Settings / Advanced / CompressionRate

### **Accepted values**

---

None, Fast or Compact  
Default: None

### **Equivalent option in Preferences**

---

Page: Backup/Backup  
Group: Archive

### **Description**

---

Value of the "Compression Rate" option.

## **Redundancy**

/ Preferences4D / Backup / Settings / Advanced / Redundancy

### **Accepted values**

---

None, Low, Medium or High  
Default: None

### **Equivalent option in Preferences**

---

Page: Backup/Backup  
Group: Archive

### **Description**

---

Value of the "Redundancy Rate" option.



## **Interlacing**

/ Preferences4D / Backup / Settings / Advanced / Interlacing

### **Accepted values**

---

None, Low, Medium or High  
Default: None

### **Equivalent option in Preferences**

---

Page: Backup/Backup  
Group: Archive

### **Description**

---

Value of the "Interlacing Rate" option.

## EraseOldBackupBefore

/ Preferences4D / Backup / Settings / Advanced / EraseOldBackupBefore

### **Accepted values**

---

True (corresponding to "after") or False (corresponding to "before")  
Default: True

### **Equivalent option in Preferences**

---

Page: Backup/Backup  
Group: General Settings

### **Description**

---

Value of the "Delete oldest backup file [before/after] backup" option.

## CheckArchiveFileDuringBackup

/ Preferences4D / Backup / Settings / Advanced / CheckArchiveFileDuringBackup

### **Accepted values**

---

True or False  
Default: True

### **Equivalent option in Preferences**

---

No equivalent option.

### **Description**

---

After a backup, 4D automatically checks the integrity of the files that were backed up. It is possible to deactivate this verification by passing False in the CheckArchiveFileDuringBackup key. In this case, the archives will not be checked. For security reasons, this parameter is to be used for specific cases only and should not be used in general.

## BackupJournalVerboseMode

/ Preferences4D / Backup / Settings / Advanced / BackupJournalVerboseMode

### **Accepted values**

---

True or False  
Default: True

### **Equivalent option in Preferences**

---

No equivalent option.

### **Description**





---

This parameter can be used to reduce the amount of information stored in the backup journal, and thus reduce its size. If you pass False in this key, only the main information will be stored in the backup journal: date and time of start of operation and any errors that occurred.

# **Settings / Advanced / BackupFailure**

---

These parameters manage the options in the case of backup failure. They are found in the "General Settings" group on the Backup/Backup page of the Preferences.

-  TryBackupAtTheNextScheduledDate
-  TryToBackupAfter
-  AbortIfBackupFail
-  RetryCountBeforeAbort

## **TryBackupAtTheNextScheduledDate**

/ Preferences4D / Backup / Settings / Advanced / BackupFailure /  
TryBackupAtTheNextScheduledDate

### **Accepted values**

---

True or False  
Default: False

### **Equivalent option in Preferences**

---

Page: Backup/Backup  
Group: General Settings

### **Description**

---

Radio button:  
"Retry at the next scheduled date and time" = False  
"Retry after" = True

## TryToBackupAfter

/ Preferences4D / Backup / Settings / Advanced / BackupFailure / TryToBackupAfter

### **Accepted values**

---

Number of hours, minutes or seconds in the ISO DateTime (0000-00-00T00:00:00) format

Default: 0000-00-00T00:01:00 (1 minute)

### **Equivalent option in Preferences**

---

Page: Backup/Backup

Group: General Settings

### **Description**

---

Value of the "Retry after" option, expressed in hours, minutes or seconds.

## **AbortIfBackupFail**

/ Preferences4D / Backup / Settings / Advanced / BackupFailure / AbortIfBackupFail

### **Accepted values**

---

True or False  
Default: False

### **Equivalent option in Preferences**

---

Page: Backup/Backup  
Group: General Settings

### **Description**

---

“Cancel the operation after” option.



## **RetryCountBeforeAbort**

/ Preferences4D / Backup / Settings / Advanced / BackupFailure /  
RetryCountBeforeAbort

### **Accepted values**

---

Number of attempts  
Default: 5

### **Equivalent option in Preferences**

---

Page: Backup/Backup  
Group: General Settings

### **Description**


---

Number of backup attempts.

# Settings / Advanced / FileSegmentation

---

This parameter can be used to set the segmentation of archives.

 DefaultSize

## **DefaultSize**

/ Preferences4D / Backup / Settings / Advanced / FileSegmentation / DefaultSize

### **Accepted values**

---

0, 100, 200, 650 or 700  
Default: 0

### **Equivalent option in Preferences**

---

Page: Backup/Backup  
Group: Archive

### **Description**


---

Value of the combo box associated with the "Segment Size (Mb)" option.

# **Settings / Advanced / SetNumber**

---

These parameters can be used to configure the mechanism for storing archives. The corresponding preferences are found in the "General Settings" group on the Backup/Backup page of the Preferences.

 Enable

 Value

## **Enable**

/ Preferences4D / Backup / Settings / Advanced / SetNumber / Enable

### **Accepted values**

---

True or False  
Default: True

### **Equivalent option in Preferences**

---

Page: Backup/Backup  
Group: General Settings

### **Description**

---

“Keep only the last X backup files” option.

## Value

/ Preferences4D / Backup / Settings / Advanced / SetNumber / Value

### **Accepted values**

---

Number of files  
Default: 3

### **Equivalent option in Preferences**

---

Page: Backup/Backup  
Group: General Settings

### **Description**

---





Value X of the “Keep only the last X backup files” option when it is set to True.

# Settings / General

---

These parameters manage files included in the backup. They correspond to the “Backup Contents” and “Backup File Destination Folder” groups on the Backup/Configuration page of the Preferences.

In the Backup.XML file, these keys are included in the generic “Settings” item.

-  IncludeStructureFile
-  IncludeDataFile
-  IncludeAltStructFile
-  DestinationFolder

## **IncludeStructureFile**

/ Preferences4D / Backup / Settings / General / IncludeStructureFile

### **Accepted values**

---

True or False  
Default: True

### **Equivalent option in Preferences**

---

Page: Backup/Configuration  
Group: Backup Contents

### **Description**

---

Value of the "Structure File" option indicating whether this file must be included in the backup.



## IncludeDataFile

/ Preferences4D / Backup / Settings / General / IncludeDataFile

### **Accepted values**

---

True or False  
Default: True

### **Equivalent option in Preferences**

---

Page: Backup/Configuration  
Group: Backup Contents

### **Description**

---

Value of the "Data File" option indicating whether this file must be included in the backup.

## **IncludeAltStructFile**

/ Preferences4D / Backup / Settings / General / IncludeAltStructFile

### **Accepted values**

---

True or False  
Default: False

### **Equivalent option in Preferences**

---

Page: Backup/Configuration  
Group: Backup Contents

### **Description**

---

Value of the "User Structure File" option indicating whether this file must be included in the backup.

## DestinationFolder

/ Preferences4D / Backup / Settings / General / DestinationFolder

### **Accepted values**

---

Pathname

### **Equivalent option in Preferences**

---

Page: Backup/Configuration

Group: Backup File Destination Folder

### **Description**

---

Complete pathname of the backup file destination folder expressed with the syntax of the current platform.

# **Settings / General / IncludesFiles**

---

This parameter manages the attached files of the backup.

 ItemX

## **ItemX**

/ Preferences4D / Backup / Settings / General / IncludesFiles / ItemX

### **Accepted values**

---

Pathname

### **Equivalent option in Preferences**

---

Page: Backup/Configuration

Group: Backup Contents

### **Description**

---


















Pathnames of files or folders attached to the backup (one Item key per file or folder).

# Settings / Scheduler / Frequency

---

These parameters manage automatic backups. They correspond to the options on the Backup/Scheduler page of the Preferences.

In the Backup.XML file, these keys are included in the generic "Settings" items.

-  Hourly / Every
-  Hourly / StartingAt
-  Daily / Every
-  Daily / Hour
-  Weekly / Every
-  Weekly / Monday / Save
-  Weekly / Monday / Hour
-  Weekly / Tuesday / Save
-  Weekly / Tuesday / Hour
-  Weekly / Wednesday / Save
-  Weekly / Wednesday / Hour
-  Weekly / Thursday / Save
-  Weekly / Thursday / Hour
-  Weekly / Friday / Save
-  Weekly / Friday / Hour
-  Weekly / Saturday / Save
-  Weekly / Saturday / Hour
-  Weekly / Sunday / Save
-  Weekly / Sunday / Hour
-  Monthly / Every
-  Monthly / Hour
-  Monthly / Day

## Hourly / Every

/ Preferences4D / Backup / Settings / Scheduler / Frequency / Hourly / Every

### **Accepted values**

---

Number of hours  
Default: 12

### **Equivalent option in Preferences**

---

Page: Backup/Scheduler  
Group: Backup Frequency

### **Description**

---

Period in hours between two automatic backups.

## Hourly / StartingAt

/ Preferences4D / Backup / Settings / Scheduler / Frequency / Hourly / StartingAt

### **Accepted values**

---

Time in the ISO DateTime (0000-00-00T00:00:00) format  
Default: 0000-00-00T00:00:00

### **Equivalent option in Preferences**

---

Page: Backup/Scheduler  
Group: Backup Frequency

### **Description**

---

Start time of automatic backups based on hours.



## **Daily / Every**

/ Preferences4D / Backup / Settings / Scheduler / Frequency / Daily / Every

### **Accepted values**

---

Number of days  
Default: 1

### **Equivalent option in Preferences**

---

Page: Backup/Scheduler  
Group: Backup Frequency

### **Description**

---

Period in days between two automatic backups.

## **Daily / Hour**

/ Preferences4D / Backup / Settings / Scheduler / Frequency / Daily / Hour

### **Accepted values**

---

Time in the ISO DateTime (0000-00-00T00:00:00) format  
Default: 0000-00-00T00:00:00

### **Equivalent option in Preferences**

---

Page: Backup/Scheduler  
Group: Backup Frequency

### **Description**

---

Time of automatic backups based on days.

## **Weekly / Every**

/ Preferences4D / Backup / Settings / Scheduler / Frequency / Weekly / Every

### **Accepted values**

---

Number of weeks  
Default: 1

### **Equivalent option in Preferences**

---

Page: Backup/Scheduler  
Group: Backup Frequency

### **Description**

---

Period in weeks between two automatic backups.

## **Weekly / Monday / Save**

/ Preferences4D / Backup / Settings / Scheduler / Frequency / Weekly / Monday / Save

### **Accepted values**

---

True or False  
Default: False

### **Equivalent option in Preferences**

---

Page: Backup/Scheduler  
Group: Backup Frequency

### **Description**

---

Value of the "Monday" option.

## **Weekly / Monday / Hour**

/ Preferences4D / Backup / Settings / Scheduler / Frequency / Weekly / Monday / Hour

### **Accepted values**

---

Time in the ISO DateTime (0000-00-00T00:00:00) format  
Default: 0000-00-00T00:00:00

### **Equivalent option in Preferences**

---

Page: Backup/Scheduler  
Group: Backup Frequency

### **Description**

---

Time of backup on Monday (taken into account if the "Monday" option is set to True).

## **Weekly / Tuesday / Save**

/ Preferences4D / Backup / Settings / Scheduler / Frequency / Weekly / Tuesday / Save

### **Accepted values**

---

True or False  
Default: False

### **Equivalent option in Preferences**

---

Page: Backup/Scheduler  
Group: Backup Frequency

### **Description**

---

Value of the "Tuesday" option.

## **Weekly / Tuesday / Hour**

/ Preferences4D / Backup / Settings / Scheduler / Frequency / Weekly / Tuesday / Hour

### **Accepted values**

---

Time in the ISO DateTime (0000-00-00T00:00:00) format  
Default: 0000-00-00T00:00:00

### **Equivalent option in Preferences**

---

Page: Backup/Scheduler  
Group: Backup Frequency

### **Description**

---

Time of backup on Tuesday (taken into account if the "Tuesday" option is set to True).

## **Weekly / Wednesday / Save**

/ Preferences4D / Backup / Settings / Scheduler / Frequency / Weekly / Wednesday / Save

### **Accepted values**

---

True or False  
Default: False

### **Equivalent option in Preferences**

---

Page: Backup/Scheduler  
Group: Backup Frequency

### **Description**

---

Value of the "Wednesday" option.



## **Weekly / Wednesday / Hour**

/ Preferences4D / Backup / Settings / Scheduler / Frequency / Weekly / Wednesday / Hour

### **Accepted values**

---

Time in the ISO DateTime (0000-00-00T00:00:00) format  
Default: 0000-00-00T00:00:00

### **Equivalent option in Preferences**

---

Page: Backup/Scheduler  
Group: Backup Frequency

### **Description**

---

Time of backup on Wednesday (taken into account if the "Wednesday" option is set to True).

## **Weekly / Thursday / Save**

/ Preferences4D / Backup / Settings / Scheduler / Frequency / Weekly / Thursday / Save

### **Accepted values**

---

True or False  
Default: False

### **Equivalent option in Preferences**

---

Page: Backup/Scheduler  
Group: Backup Frequency

### **Description**

---

Value of the "Thursday" option.

## **Weekly / Thursday / Hour**

/ Preferences4D / Backup / Settings / Scheduler / Frequency / Weekly / Thursday / Hour

### **Accepted values**

---

Time in the ISO DateTime (0000-00-00T00:00:00) format  
Default: 0000-00-00T00:00:00

### **Equivalent option in Preferences**

---

Page: Backup/Scheduler  
Group: Backup Frequency

### **Description**

---

Time of backup on Thursday (taken into account if the "Thursday" option is set to True).

## **Weekly / Friday / Save**

/ Preferences4D / Backup / Settings / Scheduler / Frequency / Weekly / Friday / Save

### **Accepted values**

---

True or False  
Default: False

### **Equivalent option in Preferences**

---

Page: Backup/Scheduler  
Group: Backup Frequency

### **Description**

---

Value of the "Friday" option.

## **Weekly / Friday / Hour**

/ Preferences4D / Backup / Settings / Scheduler / Frequency / Weekly / Friday / Hour

### **Accepted values**

---

Time in the ISO DateTime (0000-00-00T00:00:00) format  
Default: 0000-00-00T00:00:00

### **Equivalent option in Preferences**

---

Page: Backup/Scheduler  
Group: Backup Frequency

### **Description**

---

Time of backup on Friday (taken into account if the "Friday" option is set to True).

## **Weekly / Saturday / Save**

/ Preferences4D / Backup / Settings / Scheduler / Frequency / Weekly / Saturday / Save

### **Accepted values**

---

True or False  
Default: False

### **Equivalent option in Preferences**

---

Page: Backup/Scheduler  
Group: Backup Frequency

### **Description**

---

Value of the "Saturday" option.

## **Weekly / Saturday / Hour**

/ Preferences4D / Backup / Settings / Scheduler / Frequency / Weekly / Saturday / Hour

### **Accepted values**

---

Time in the ISO DateTime (0000-00-00T00:00:00) format  
Default: 0000-00-00T00:00:00

### **Equivalent option in Preferences**

---

Page: Backup/Scheduler  
Group: Backup Frequency

### **Description**

---

Time of backup on Saturday (taken into account if the "Saturday" option is set to True).

## **Weekly / Sunday / Save**

/ Preferences4D / Backup / Settings / Scheduler / Frequency / Weekly / Sunday / Save

### **Accepted values**

---

True or False  
Default: False

### **Equivalent option in Preferences**

---

Page: Backup/Scheduler  
Group: Backup Frequency

### **Description**

---

Value of the "Sunday" option.



## **Weekly / Sunday / Hour**

/ Preferences4D / Backup / Settings / Scheduler / Frequency / Weekly / Sunday / Hour

### **Accepted values**

---

Time in the ISO DateTime (0000-00-00T00:00:00) format  
Default: 0000-00-00T00:00:00

### **Equivalent option in Preferences**

---

Page: Backup/Scheduler  
Group: Backup Frequency

### **Description**

---

Time of backup on Sunday (taken into account if the "Sunday" option is set to True).

## **Monthly / Every**

/ Preferences4D / Backup / Settings / Scheduler / Frequency / Monthly / Every

### **Accepted values**

---

Number of months  
Default: 1

### **Equivalent option in Preferences**

---

Page: Backup/Scheduler  
Group: Backup Frequency

### **Description**

---

Period in months between two automatic backups.

## Monthly / Hour

/ Preferences4D / Backup / Settings / Scheduler / Frequency / Monthly / Hour

### **Accepted values**

---

Time in the ISO DateTime (0000-00-00T00:00:00) format  
Default: 0000-00-00T00:00:00

### **Equivalent option in Preferences**

---

Page: Backup/Scheduler  
Group: Backup Frequency

### **Description**

---

Time of automatic backups based on months.

## Monthly / Day

/ Preferences4D / Backup / Settings / Scheduler / Frequency / Monthly / Day

### **Accepted values**

---

1, 2, 3... 29

### **Equivalent option in Preferences**

---

Page: Backup/Scheduler  
Group: Backup Frequency

### **Description**

---

Xth day of the month for automatic backups based on months.