











4D XML Keys Backup

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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.

/ 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.

/ 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.

/ Preferences4D / Backup / DataBase / CurrentBackupSet / Item1

Accepted values

Number

Equivalent option in Preferences

No direct equivalence.

Description

Number of the last backup file.

/ 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.

/ 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

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.

/ 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.

/ 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.

/ 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.

/ 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.

/ 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.

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.

/ 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.

/ 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

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.

Accepted values

True or False

Default: False

Equivalent option in Preferences

Page: Backup/Backup

Group: General Settings

Description

“Cancel the operation after” option.

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

/ 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.

/ 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 / Advanced / Transaction

These parameters concern the management of transactions during backups. They are found in the “General Settings” group on the Backup/Backup page of the Preferences.

-  WaitForEndOfTransaction
-  Timeout

/ Preferences4D / Backup / Settings / Advanced / Transaction / WaitForEndOfTransaction

Accepted values

True or False

Default: False

Equivalent option in Preferences

Page: Backup/Backup

Group: General Settings

Description

Radio button:

“Always wait for the end of operations” = False

“Abort backup after waiting” = True

Timeout

/ Preferences4D / Backup / Settings / Settings / Advanced / Transaction / Timeout

Accepted values

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

Default: 0000-00-00T00:03:00 (3 minutes)

Equivalent option in Preferences

Page: Backup/Backup

Group: General Settings





Description

Value of the "Abort backup after waiting" option, expressed in minutes or seconds.

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

/ 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.

/ 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.

/ 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

/ 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

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.

/ 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.

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.

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.

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.

Accepted values

True or False

Default: False

Equivalent option in Preferences

Page: Backup/Scheduler

Group: Backup Frequency

Description

Value of the "Monday" option.

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).

Accepted values

True or False

Default: False

Equivalent option in Preferences

Page: Backup/Scheduler

Group: Backup Frequency

Description

Value of the "Tuesday" option.

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).

Accepted values

True or False

Default: False

Equivalent option in Preferences

Page: Backup/Scheduler

Group: Backup Frequency

Description

Value of the "Wednesday" option.

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).

Accepted values

True or False

Default: False

Equivalent option in Preferences

Page: Backup/Scheduler

Group: Backup Frequency

Description

Value of the "Thursday" option.

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).

Accepted values

True or False

Default: False

Equivalent option in Preferences

Page: Backup/Scheduler

Group: Backup Frequency

Description

Value of the "Friday" option.

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).

Accepted values

True or False

Default: False

Equivalent option in Preferences

Page: Backup/Scheduler

Group: Backup Frequency

Description

Value of the "Saturday" option.

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).

Accepted values

True or False

Default: False

Equivalent option in Preferences

Page: Backup/Scheduler

Group: Backup Frequency

Description

Value of the "Sunday" option.

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).

/ 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.

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.

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.