

4D XML Keys BuildApplication

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□ Introduction

The 4D Application Builder provides a number of options that are all available using specific XML keys.

Use the **BUILD APPLICATION** command (in the **4D Environment** theme) to set the location of the XML document containing your customized keys.

The commands of the XML themes (**XML**, **XML DOM** and **XML SAX**) allow you to process XML documents.

CS ◦

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Overview

These parameters allow you to set options related to the 4D client/server version. These parameters must be surrounded with `<CS>` and `</CS>` keys.

BuildServerApplication

SQL syntax

/ Preferences4D / BuildApp / CS / BuildServerApplication

Accepted values

True / False

Description

If this key is set to True, a Client/Server application is built.

If the key is not passed or if it is set to False, the Client/Server application is not built.

BuildCSUpgradeable

SQL syntax

/ Preferences4D / BuildApp / CS / BuildCSUpgradeable

Accepted values

True / False

Description

If this key is set to True, a Client update application, ready to download, is built for Mac OS and Windows.
If the key is not passed or if it is set to False, the Client update application is not built.

IPAddress

SQL syntax

/ Preferences4D / BuildApp / CS / IPAddress

Accepted values

IP address

Description

This key contains the IP address of the application server (where applicable). This key is not mandatory since 4D features internal mechanisms for managing the network. However, an IP address is required in certain cases (WAN, specific port numbers, etc.).

When it is specified, the IP address is stored in a file named "EnginedServer.4Dlink," which is placed in the Database folder of the client application.

□ PortNumber

SQL syntax

/ Preferences4D / BuildApp / CS / PortNumber

Accepted values

Port number

Description

This key contains the TCP port number of the desired server. By default, the port number is set to 19813 and it is generally not required to specify it. This key is required when the server's port number has been modified.

When it is specified, the TCP port number is added to the IP address stored in a file named "EnginedServer.4Dlink," which is located in the Database folder of the client application.

Warning: This key only modifies the port number on the Client side. On the Server side, the port number specified in the 4D database generating the application is stored. To use a custom port number, use the **SET DATABASE PARAMETER** command before calling the **BUILD APPLICATION** command. For example, to specify the port 21000:

```
tempport:=Get database parameter(Client Server Port ID)
SET DATABASE PARAMETER(Client Server Port ID;21000)
BUILD APPLICATION("")
SET DATABASE PARAMETER(Client Server Port ID;tempport)
```


HardLink

SQL syntax

/ Preferences4D / BuildApp / CS / HardLink

Accepted values

Signature (31 characters maximum)

Description

This key allows you to modify the signature for client and server applications. The maximum length is 31 characters.

RangeVersMin

SQL syntax

/ Preferences4D / BuildApp / CS / RangeVersMin

Accepted values

Minimum version number

Description

This key allows you to specify the minimum Client version (for example, 2); earlier versions of the Client application will be prompted to upgrade. This key is used in conjunction with **RangeVersMax**.

The version number must be specified using the **CurrentVers** key.

RangeVersMax

SQL syntax

/ Preferences4D / BuildApp / CS / RangeVersMax

Accepted values

Maximum version number

Description

This key allows you to specify the maximum Client version (for example, 3); later versions of the Client application will be prompted to upgrade. This key is used in conjunction with [RangeVersMin](#).

The version number must be specified using the [CurrentVers](#) key.

□ CurrentVers

SQL syntax

/ Preferences4D / BuildApp / CS / CurrentVers

Accepted values

Version number

Description

This key allows you to specify the current version number of the built application.

If the **RangeVersMax** and **RangeVersMin** keys are not used, this number is purely for informational purposes. If these keys are used, the Server application will read this number to determine whether the Client belongs to the defined interval and is thus be able to connect.

General Parameters

- BuildApplicationName
- BuildWinDestFolder
- BuildMacDestFolder
- DataFilePath
- BuildCompiled
- BuildApplicationSerialized
- ArrayExcludedPluginName
- ArrayExcludedPluginID
- IncludeAssociatedFolders
- BuildComponent
- ArrayExcludedComponentName

BuildApplicationName

SQL syntax

/ Preferences4D / BuildApp / BuildApplicationName

Accepted values

File name

Description

Name of the compiled file or built application. This name is limited to 27 characters, not counting the extension; up to 31 characters with a 4-character extension.

If this key is not used, the compiled file or application will use the name of the structure file.

Example

```
<Preferences4D> <BuildApp> <BuildApplicationName>MyApplication</BuildApplicationName>
</BuildApp> </Preferences4D>
```

BuildWinDestFolder

SQL syntax

/ Preferences4D / BuildApp / BuildWinDestFolder

Accepted values

File access path

Description

File access path of the Windows destination. If this key is not used, the location of the structure file will be used. The path can be fixed or relative to the structure file.

BuildMacDestFolder

SQL syntax

/ Preferences4D / BuildApp / BuildMacDestFolder

Accepted values

File access path

Description

File access path of the Mac OS destination. If this key is not used, the location of the structure file will be used. The path can be fixed or relative to the structure file.

□ DataFilePath

SQL syntax

/ Preferences4D / BuildApp / DataFilePath

Accepted values

Data file name and access path

Description

Data file pathname of the final application. The pathname set can be absolute or relative to the structure file (.4db). Two syntaxes are accepted:

- *Windows:*
 - C:¥mybase¥folder¥mydata.4DD (absolute)
 - ¥folder¥mydata.4DD (relative)
- *Mac OS (HFS):*
 - Macintosh HD:folder:mydata.4DD (absolute)
 - :folder:mydata.4DD (relative)

You should choose the syntax depending on the platform that the final application will be running on.

If this key is not used or is invalid, on the initial startup of the final application, 4D will look for the data file next to the structure file and, if it does not find it, will display a standard open file dialog box so that the user can indicate its location.

BuildCompiled

SQL syntax

/ Preferences4D / BuildApp / BuildCompiled

Accepted values

True / False

Description

If this key is set to True, a compiled file is built.

If this key is not passed or if it is set to False, the compiled file is not built.

BuildApplicationSerialized

SQL syntax

/ Preferences4D / BuildApp / BuildApplicationSerialized

Accepted values

True / False

Description

If this key is set to True, an application merged with 4D Volume Desktop using a 4D Volume Desktop (complete) serial number is built.

If this key is not passed or is set to False, the "Pro" merged application is not built.

If no file access path is set using the [RuntimeVLWinFolder](#) or [RuntimeVLMacFolder](#) keys (depending on the operating system used for the build), or if the file access path is invalid, an error is returned and the current project build is stopped.

□ **ArrayExcludedPluginName**

SQL syntax

/ Preferences4D / BuildApp / ArrayExcludedPluginName

Accepted values

Table of plug-in names

Description

By default, all plug-ins present in the Plugins folder are integrated into the built application. It is nevertheless possible to set a list of plug-in to be excluded when building the application using this key.

This key is used to set the list of plug-ins to be excluded based on their names (plug-in names are unique).

You can also set a list of plug-ins to be excluded based on their numbers using the **ArrayExcludedPluginID** key.

□ **ArrayExcludedPluginID**

SQL syntax

/ Preferences4D / BuildApp / ArrayExcludedPluginID

Accepted values

Table of plug-in names

Description

By default, all plug-ins present in the Plugins folder are integrated into the built application. It is nevertheless possible to set a list of plug-ins to be excluded when building the application using this key.

This key is used to set the list of plug-ins to be excluded based on their ID (number). Plug-in IDs are shown on the “Plugins & components” page of the Application builder. You can also find the plug-in ID in its 4BNX resource.

You can also set a list of plug-ins to be excluded based on their names using the [ArrayExcludedPluginName](#) key.

IncludeAssociatedFolders

SQL syntax

/ Preferences4D / BuildApp / IncludeAssociatedFolders

Accepted values

True / False

Description

This key corresponds to the “Include related folders” option on the Compiled structure page of the Application builder. When this key contains the value True, the Plugins, Resources, Components and Extras folders located next to the structure are copied next to the compiled structure.

BuildComponent

SQL syntax

/ Preferences4D / BuildApp / BuildComponent

Accepted values

True / False

Description

If this key is set to True, a folder named "Components" will be created within the destination folder. It will contain the compiled structure included in a package suffixed ".4dbase", ready for installation as a component. If any, Resources and Extras folders that are associated with the original structure are placed in the "Components" folder as well.

ArrayExcludedComponentName

SQL syntax

/ Preferences4D / BuildApp / ArrayExcludedComponentName

Accepted values

Table of component names

Description

By default, all components present in the Components folder of the original structure are integrated into the built application. It is nevertheless possible to set a list of component names to be excluded when building the application using this key.

Licenses

- Overview
- ArrayLicenseWin
- ArrayLicenseMac

Overview

These parameters allow you to set access to the license files integrated into the built applications. They must be surrounded with `<Licenses>` and `</Licenses>` keys.

□ ArrayLicenseWin

SQL syntax

/ Preferences4D / BuildApp / Licenses / ArrayLicenseWin

Accepted values

Array containing the list of license files to be integrated

Description

This key is used to specify the access path of the license file(s) to be integrated into the Windows version of the application. These files can be located anywhere on your PC.

If this key is not used, no license number will be integrated and the application will start in demo mode.

Example

```
<Preferences4D> <BuildApp> <Licenses> <ArrayLicenseWin> <ItemsCount>2</ItemsCount>
  <Item1>C:\MyLicenses\4DSJD80HJDSOI00FAKE1861.html</Item1>
<Item2>C:\MyLicenses\4DS080DDE0DF0FAKEBC5F.html</Item2> </ArrayLicenseWin> </Licenses>
</BuildApp> </Preferences4D>
```

□ ArrayLicenseMac

SQL syntax

/ Preferences4D / BuildApp / Licenses / ArrayLicenseMac

Accepted values

Array containing the list of license files to be integrated

Description

This key is used to specify the access path of the license file(s) to be integrated into the Mac OS version of the application. These files can be located anywhere on your Macintosh.

If this key is not used, no license number will be integrated and the application will start in demo mode.

Example

```
<Preferences4D> <BuildApp> <Licenses> <ArrayLicenseMac> <ItemsCount>2</ItemsCount>
  <Item1>MacHD:4DSJD80HJDSOI00FAKE1861.html</Item1>
<Item2>MacHD:4DSO80DDE0DF0FAKEBC5F.html</Item2> </ArrayLicenseMac> </Licenses>
</BuildApp> </Preferences4D>
```

SourcesFiles / CS

- Overview
- ServerIncludeIt
- ServerWinFolder
- ServerMacFolder
- ClientWinIncludeIt
- ClientWinFolderToWin
- ClientWinFolderToMac
- ClientMacIncludeIt
- ClientMacFolderToWin
- ClientMacFolderToMac
- ServerIconWinPath
- ServerIconMacPath
- ClientMacIconForMacPath
- ClientWinIconForMacPath
- ClientMacIconForWinPath
- ClientWinIconForWinPath
- IsOEM

Overview

These parameters allow you to set options related to the source files for the 4D client/server version. These parameters must be surrounded with `<SourcesFiles>` `<CS>` and `</CS>` `</SourcesFiles>` keys.

ServerIncludeIt

SQL syntax

/ Preferences4D / BuildApp / SourcesFiles / CS / ServerIncludeIt

Accepted values

True / False

Description

This key must be present and set to True in order for the 4D Server application designated by the **ServerWinFolder** and/or **ServerMacFolder** keys to be integrated into the built application.

ServerWinFolder

SQL syntax

/ Preferences4D / BuildApp / SourcesFiles / CS / ServerWinFolder

Accepted values

Access path

Description

This key provides the access path of the folder containing the 4D Server application for Windows. This key is mandatory if the **BuildServerApplication** is set to True. Otherwise, an error is returned and the current project build is stopped.

ServerMacFolder

SQL syntax

/ Preferences4D / BuildApp / SourcesFiles / CS / ServerMacFolder

Accepted values

Access path

Description

This key provides the access path of the folder containing the 4D Server application for Mac OS. This key is mandatory if the **BuildServerApplication** is set to True. Otherwise, an error is returned and the current project build is stopped.

ClientWinIncludeIt

SQL syntax

/ Preferences4D / BuildApp / SourcesFiles / CS / ClientWinIncludeIt

Accepted values

True / False

Description

This key must be present and set to True in order for the 4D Volume Desktop application designated by the **ClientWinFolderToWin** and/or **ClientWinFolderToMac** keys to be integrated into the Windows application that is built.

ClientWinFolderToWin

SQL syntax

/ Preferences4D / BuildApp / SourcesFiles / CS / ClientWinFolderToWin

Accepted values

Access path

Description

This key provides the access path of the 4D Volume Desktop Windows application for the Windows platform.

ClientWinFolderToMac

SQL syntax

/ Preferences4D / BuildApp / SourcesFiles / CS / ClientWinFolderToMac

Accepted values

Access path

Description

This key provides the access path of the folder containing the 4D Volume Desktop Windows application for the Mac OS platform.

ClientMacIncludeIt

SQL syntax

/ Preferences4D / BuildApp / SourcesFiles / CS / ClientMacIncludeIt

Accepted values

True / False

Description

This key must be present and set to True in order for the 4D Volume Desktop application designated by the **ClientMacFolderToWin** and/or **ClientMacFolderToMac** keys to be integrated into the Mac OS application that is built.

ClientMacFolderToWin

SQL syntax

/ Preferences4D / BuildApp / SourcesFiles / CS / ClientMacFolderToWin

Accepted values

Access path

Description

This key provides the access path of the 4D Volume Desktop Mac OS application package for the Windows platform.

ClientMacFolderToMac

SQL syntax

/ Preferences4D / BuildApp / SourcesFiles / CS / ClientMacFolderToMac

Accepted values

Access path

Description

This key provides the access path of the 4D Volume Desktop Mac OS application for the Mac OS platform.

□ ServerIconWinPath

SQL syntax

/ Preferences4D / BuildApp / SourcesFiles / CS / ServerIconWinPath

Accepted values

Access path

Description

This key provides the access path of the 4D Server icon to build for the Windows platform. This icon will have a “.ico” extension.

If this key is omitted, the 4D Server default icon will be used.

□ ServerIconMacPath

SQL syntax

/ Preferences4D / BuildApp / SourcesFiles / CS / ServerIconMacPath

Accepted values

Access path

Description

This key provides the access path of the 4D Server icon to build for the Mac OS platform. This icon will have a "icns" extension. Consequently, the "info.plist" file will be updated.

If this key is omitted, the 4D Server default icon will be used.

□ ClientMacIconForMacPath

SQL syntax

/ Preferences4D / BuildApp / SourcesFiles / CS / ClientMacIconForMacPath

Accepted values

Access path

Description

This key provides the access path under Mac OS of the client application icon to generate for Mac OS. This icon will have a "icns" extension.

If this key is omitted, the 4D Volume Desktop default icon will be used.

□ ClientWinIconForMacPath

SQL syntax

/ Preferences4D / BuildApp / SourcesFiles / CS / ClientWinIconForMacPath

Accepted values

Access path

Description

This key provides the access path under Mac OS of the client application icon to generate for Windows. This icon will have a “.ico” extension.

If this key is omitted, the 4D Volume Desktop default icon will be used.

□ ClientMacIconForWinPath

SQL syntax

/ Preferences4D / BuildApp / SourcesFiles / CS / ClientWinIconForMacPath

Accepted values

Access path

Description

This icon provides the access path under Windows of the client application icon to build for Mac OS. This icon will have a "icns" extension.

If this key is omitted, the 4D Volume Desktop default icon will be used.

ClientWinIconForWinPath

SQL syntax

/ Preferences4D / BuildApp / SourcesFiles / CS / ClientWinIconForWinPath

Accepted values

Access path

Description

This key provides the access path under Windows of the client application icon to generate for Windows. This icon will have a ".ico" extension.

If this key is omitted, the 4D Volume Desktop default icon will be used.

SQL syntax

/ Preferences4D / BuildApp / SourcesFiles / CS / IsOEM

Accepted values

True / False

Description

This key is used to determine whether or not the OEM deployment licenses will be taken into account for the client/server application built. If this key is set to True, the application will integrate the OEM deployment licenses. If this key is not passed or is set to False, the application will not integrate the OEM deployment licenses. In this case, the application will be built in demo mode.

Keep in mind that using this key requires an OEM license.

SourcesFiles / RuntimeVL

- Overview
- RuntimeVLIncludeIt
- RuntimeVLWinFolder
- RuntimeVLMacFolder
- RuntimeVLIconWinPath
- RuntimeVLIconMacPath
- IsOEM

□ Overview

These parameters allow you to set options related to 4D Volume Desktop source files. These parameters must be surrounded with `<SourcesFiles>` `<RuntimeVL>` and `</RuntimeVL>` `</SourcesFiles>` keys.

RuntimeVLIincludeIt

SQL syntax

/ Preferences4D / BuildApp / SourcesFiles / RuntimeVL / RuntimeVLIincludeIt

Accepted values

True / False

Description

This key must be present and set to True in order for the 4D Volume Desktop application designated by the **RuntimeVLWinFolder** and/or **RuntimeVLMacFolder** keys to be integrated into the built application.

Example

```
<Preferences4D> <BuildApp> <SourcesFiles> <RuntimeVL>  
<RuntimeVLIincludeIt>True</RuntimeVLIincludeIt> <RuntimeVLWinFolder>C:\Docs\My  
Docs\</RuntimeVLWinFolder> </RuntimeVL> </SourcesFiles> </BuildApp> </Preferences4D>
```

RuntimeVLWinFolder

SQL syntax

/ Preferences4D / BuildApp / SourcesFiles / RuntimeVL / RuntimeVLWinFolder

Accepted values

Access path

Description

This key provides the access path of the folder containing the 4D Volume Desktop application for Windows. This key is mandatory if the **BuildApplicationSerialized** key is set to True. Otherwise, an error is returned and the current project build is stopped.

RuntimeVLMacFolder

SQL syntax

/ Preferences4D / BuildApp / SourcesFiles / RuntimeVL / RuntimeVLMacFolder

Accepted values

Access path

Description

This key provides the access path of the package containing the 4D Volume Desktop application for Mac OS. This key is mandatory if the **BuildApplicationSerialized** key is set to True. Otherwise, an error is returned and the current project build is stopped.

RuntimeVIconWinPath

SQL syntax

/ Preferences4D / BuildApp / SourcesFiles / RuntimeVL / RuntimeVIconWinPath

Accepted values

Access path

Description

This key provides the access path of the application icon to build for Windows. This icon will have an “.ico” extension.

If this key is omitted, the default 4D Volume Desktop icon will be used.

RuntimeVIconMacPath

SQL syntax

/ Preferences4D / BuildApp / SourcesFiles / RuntimeVL / RuntimeVIconMacPath

Accepted values

Access path

Description

This key provides the access path of the application icon to build for Mac OS. This icon will have an "icns" extension. Consequently, the "info.plist" file will be updated.

If this key is omitted, the default 4D Volume Desktop icon will be used.

SQL syntax

/ Preferences4D / BuildApp / SourcesFiles / RuntimeVL / IsOEM

Accepted values

True / False

Description

This key is used to determine whether or not the OEM deployment licenses will be taken into account for the Runtime application built. If this key is set to True, the application will integrate the OEM deployment licenses. If this key is not passed or is set to False, the application will not integrate the OEM deployment licenses. In this case, the application will be built in demo mode.

Keep in mind that using this key requires an OEM license.

Versioning / Client ▫

- Overview
- ClientVersion
- ClientCopyright
- ClientCreator
- ClientComment
- ClientCompanyName
- ClientFileDescription
- ClientInternalName
- ClientLegalTrademark
- ClientPrivateBuild
- ClientSpecialBuild

Overview

The keys of this subset are specific to 4D Volume Desktop client application builds.

They must be surrounded with `<Versioning>` `<Client>` and `</Client>` `</Versioning>` keys.

□ ClientVersion

SQL syntax

/ Preferences4D / BuildApp / Versioning / Client / ClientVersion

Accepted values

Version number

Description

This key contains the version number of the application built. If it is omitted and if the **CommonVersion** key is also omitted, the 4D Volume Desktop version number is used.

Conversely, if both keys are used, only the value set using the **ClientVersion** key is taken into account.

Under Windows, this key causes the File version and Product version fields of the Properties window to be updated.

Under Mac OS, this key causes the CFBundleShortVersionString and CFBundleVersion fields of the "info.plist" file to be updated.

□ ClientCopyright

SQL syntax

/ Preferences4D / BuildApp / Versioning / Client / ClientCopyright

Accepted values

Copyright text

Description

This key contains the text inserted into:

- the CFBundleGetInfoString field of the “info.plist” file under Mac OS,
- the Copyright field of the Properties window under Windows.

If this key is omitted and if the **CommonCopyright** key is also omitted, the Copyright information of the 4D Volume Desktop application is used.

Conversely, if both keys are used, only the value set using the **ClientCopyright** key is taken into account.

SQL syntax

/ Preferences4D / BuildApp / Versioning / Client / ClientCreator

Accepted values

Creator code (4 characters maximum)

Description

This key is only used under Mac OS.

This key is used to define the creator for the Mac OS Client application built. Its maximum size is 4 characters.

If this key is omitted and if the **CommonCreator** key is not passed, the creator of 4D Volume Desktop is used.

Conversely, if both keys are used, only the value set using the **ClientCreator** key is taken into account.

This key does nothing under Windows.

□ ClientComment

SQL syntax

/ Preferences4D / BuildApp / Versioning / Client / ClientComment

Accepted values

Comment (31 characters maximum)

Description

This key is only used under Windows.

This key allows you to update the Comment field in the Properties window under Windows. Its maximum size is 31 characters.

If this key is omitted and if the **CommonComment** key is also omitted, the comments associated with the 4D Volume Desktop application are used.

Conversely, if both keys are used, only the value set using the **ClientComment** key is taken into account.

This key does nothing under Mac OS.

□ ClientCompanyName

SQL syntax

/ Preferences4D / BuildApp / Versioning / Client / ClientCompanyName

Accepted values

Company name (31 characters maximum)

Description

This key is only used under Windows.

This key allows you to update the Company name field in the Properties window under Windows. Its maximum size is 31 characters.

If this key is omitted and if the **CommonCompanyName** key is also omitted, the company name associated with the 4D Volume Desktop application is used.

Conversely, if both keys are used, only the value set using the **ClientCompanyName** key is taken into account.

This key does nothing under Mac OS.

□ ClientFileDescription

SQL syntax

/ Preferences4D / BuildApp / Versioning / Client / ClientFileDescription

Accepted values

Description (31 characters maximum)

Description

This key is only used under Windows.

This key allows you to update the File description field in the Properties window under Windows. Its maximum size is 31 characters.

If this key is omitted and if the **CommonFileDescription** key is also omitted, the file description associated with the 4D Volume Desktop application is used.

Conversely, if both keys are used, only the value set using the **ClientFileDescription** key is taken into account.

This key does nothing under Mac OS.

□ ClientInternalName

SQL syntax

/ Preferences4D / BuildApp / Versioning / Client / ClientInternalName

Accepted values

Internal name (31 characters maximum)

Description

This key is only used under Windows.

This key allows you to update the Internal name field in the Properties window under Windows. Its maximum size is 31 characters.

If this key is omitted and if the **CommonInternalName** key is also omitted, the internal name associated with the 4D Volume Desktop application is used.

Conversely, if both keys are used, only the value set using the **ClientInternalName** key is taken into account.

This key does nothing under Mac OS.

□ ClientLegalTrademark

SQL syntax

/ Preferences4D / BuildApp / Versioning / Client / ClientLegalTrademark

Accepted values

Legal trademark (31 characters maximum)

Description

This key is only used under Windows.

This key allows you to update the Legal trademark field in the Properties window under Windows. Its maximum size is 31 characters.

If this key is omitted and if the **CommonLegalTrademark** key is also omitted, the legal trademarks associated with the 4D Volume Desktop application are used.

Conversely, if both keys are used, only the value set using the **ClientLegalTrademark** key is taken into account.

This key does nothing under Mac OS.

□ ClientPrivateBuild

SQL syntax

/ Preferences4D / BuildApp / Versioning / Client / ClientPrivateBuild

Accepted values

Private build (31 characters maximum)

Description

This key is only used under Windows.

This key allows you to update the Private build field in the Properties window under Windows. Its maximum size is 31 characters.

If this key is omitted and if the **CommonPrivateBuild** key is also omitted, the private build associated with the 4D Volume Desktop application is used.

Conversely, if both keys are used, only the value set using the **ClientPrivateBuild** key is taken into account.

This key does nothing under Mac OS.

□ ClientSpecialBuild

SQL syntax

/ Preferences4D / BuildApp / Versioning / Client / ClientSpecialBuild

Accepted values

Special build (31 characters maximum)

Description

This key is only used under Windows.

This key allows you to update the Special build field in the Properties window under Windows. Its maximum size is 31 characters.

If this key is omitted and if the **CommonSpecialBuild** key is also omitted, the special build associated with the 4D Volume Desktop application is used.

Conversely, if both keys are used, only the value set using the **ClientSpecialBuild** key is taken into account.

This key does nothing under Mac OS.

Versioning / Common

- Overview
- CommonVersion
- CommonCopyright
- CommonCreator
- CommonComment
- CommonCompanyName
- CommonFileDescription
- CommonInternalName
- CommonLegalTrademark
- CommonPrivateBuild
- CommonSpecialBuild

□ Overview

Versioning parameters set options related to version numbers and built file information. The keys of this subset are common to all 4D applications (4D Volume Desktop and 4D Server). They must be surrounded with the `<Versioning>` `<Common>` and `</Common></Versioning>` keys.

□ CommonVersion

SQL syntax

/ Preferences4D / BuildApp / Versioning / Common / CommonVersion

Accepted values

Version number

Description

This key contains the version number of the application built. If it is omitted and if none of the **RuntimeVLVersion**, **ServerVersion** or **ClientVersion** keys are passed, the version number of the 4D application is used.

Under Windows, this key causes the File version and Product version fields of the Properties window to be updated. Under Mac OS, this key causes the CFBundleShortVersionString and CFBundleVersion fields of the "info.plist" file to be updated.

□ CommonCopyright

SQL syntax

/ Preferences4D / BuildApp / Versioning / Common / CommonCopyright

Accepted values

Copyright text

Description

This key contains the text to insert in:

- the CFBundleGetInfoString field of the “info.plist” file under Mac OS,
- the Copyright field of the Properties window under Windows.

If this key is omitted and if none of the [RuntimeVLCopyright](#), [ServerCopyright](#) or [ClientCopyright](#) keys are passed, the Copyright information of the 4D application is used.

SQL syntax

/ Preferences4D / BuildApp / Versioning / Common / CommonCreator

Accepted values

Creator code (4 characters maximum)

Description

This key can only be used under Mac OS.

This key is used to define the creator for the Mac OS application built. Its maximum size is 4 characters.

If this key is omitted and if none of the **RuntimeVLCreator**, **ServerCreator** or **ClientCreator** keys are passed, the creator of the 4D applications is used.

This key does nothing under Windows.

□ CommonComment

SQL syntax

/ Preferences4D / BuildApp / Versioning / Common / CommonComment

Accepted values

Comment (31 characters maximum)

Description

This key is only used under Windows.

This key allows you to update the Comment field in the Properties window under Windows. Its maximum size is 31 characters.

If this key is omitted and if none of the [RuntimeVLComment](#), [ServerComment](#) or [ClientComment](#) keys are passed, the comments associated with the 4D application are used.

This key does nothing under Mac OS.

CommonCompanyName

SQL syntax

/ Preferences4D / BuildApp / Versioning / Common / CommonCompanyName

Accepted values

Company name (31 characters maximum)

Description

This key is only used under Windows.

This key allows you to update the Company name field in the Properties window under Windows. Its maximum size is 31 characters.

If this key is omitted and if none of the [RuntimeVLCompanyName](#), [ServerCompanyName](#) or [ClientCompanyName](#) keys are passed, the company name associated with the 4D application is used.

This key does nothing under Mac OS.

□ CommonFileDescription

SQL syntax

/ Preferences4D / BuildApp / Versioning / Common / CommonFileDescription

Accepted values

Description (31 characters maximum)

Description

This key is only used under Windows.

This key allows you to update the Description field in the Properties window under Windows. Its maximum size is 31 characters.

If this key is omitted and if none of the [RuntimeVLFileDescription](#), [ServerFileDescription](#) or [ClientFileDescription](#) keys are passed, the description associated with the 4D application is used.

This key does nothing under Mac OS.

CommonInternalName

SQL syntax

/ Preferences4D / BuildApp / Versioning / Common / CommonInternalName

Accepted values

Internal name (31 characters maximum)

Description

This key is only used under Windows.

This key allows you to update the Internal name field in the Properties window under Windows. Its maximum size is 31 characters.

If this key is omitted and if none of the [RuntimeVLInternalName](#), [ServerInternalName](#) or [ClientInternalName](#) keys are passed, the internal name associated with the 4D application is used.

This key does nothing under Mac OS.

□ CommonLegalTrademark

SQL syntax

/ Preferences4D / BuildApp / Versioning / Common / CommonLegalTrademark

Accepted values

Legal trademark (31 characters maximum)

Description

This key is only used under Windows.

This key allows you to update the Legal trademark field in the Properties window under Windows. Its maximum size is 31 characters.

If this key is omitted and if none of the [RuntimeVLLegalTrademark](#), [ServerLegalTrademark](#) or [ClientLegalTrademark](#) keys are passed, the legal trademarks associated with the 4D application are used.

This key does nothing under Mac OS.

□ CommonPrivateBuild

SQL syntax

/ Preferences4D / BuildApp / Versioning / Common / CommonPrivateBuild

Accepted values

Private build (31 characters maximum)

Description

This key is only used under Windows.

This key allows you to update the Private build field in the Properties window under Windows. Its maximum size is 31 characters.

If this key is omitted and if none of the [RuntimeVLPrivateBuild](#), [ServerPrivateBuild](#) or [ClientPrivateBuild](#) keys are passed, the private builds associated with the 4D application are used.

This key does nothing under Mac OS.

□ CommonSpecialBuild

SQL syntax

/ Preferences4D / BuildApp / Versioning / Common / CommonSpecialBuild

Accepted values

Special build (31 characters maximum)

Description

This key is only used under Windows.

This key allows you to update the Special build field in the Properties window under Windows. Its maximum size is 31 characters.

If this key is omitted and if none of the [RuntimeVLSpecialBuild](#), [ServerSpecialBuild](#) or [ClientSpecialBuild](#) keys are passed, the special builds associated with the 4D application are used.

This key does nothing under Mac OS.

Versioning / RuntimeVL

- Overview
- RuntimeVLVersion
- RuntimeVLCopyright
- RuntimeVLCreator
- RuntimeVLComment
- RuntimeVLCompanyName
- RuntimeVLFileDescription
- RuntimeVLInternalName
- RuntimeVLLegalTrademark
- RuntimeVLPrivateBuild
- RuntimeVLSpecialBuild

Overview

The keys of this subset are specific to application builds using 4D Volume Desktop.

They must be surrounded with `<Versioning>` `<RuntimeVL>` and `</RuntimeVL>` `</Versioning>` keys.

□ RuntimeVLVersion

SQL syntax

/ Preferences4D / BuildApp / Versioning / RuntimeVL / RuntimeVLVersion

Accepted values

Version number

Description

This key contains the version number of the application built. If it is omitted and if the **CommonVersion** key is also omitted, the 4D Volume Desktop version number is used.

Conversely, if both keys are used, only the value set using the **RuntimeVLVersion** key is taken into account.

Under Windows, this key causes the File version and Product version fields of the Properties window to be updated.

Under Mac OS, this key causes the CFBundleShortVersionString and CFBundleVersion fields of the "info.plist" file to be updated.

□ RuntimeVLCopyright

SQL syntax

/ Preferences4D / BuildApp / Versioning / RuntimeVL / RuntimeVLCopyright

Accepted values

Copyright text

Description

This key contains the text inserted into:

- the CFBundleGetInfoString field of the “info.plist” file under Mac OS,
- the Copyright field of the Properties window under Windows.

If this key is omitted and if the **CommonCopyright** key is also omitted, the Copyright information of the 4D Volume Desktop application is used.

Conversely, if both keys are used, only the value set using the **RuntimeVLCopyright** key is taken into account.

□ RuntimeVLCreator

SQL syntax

/ Preferences4D / BuildApp / Versioning / RuntimeVL / RuntimeVLCreator

Accepted values

Creator code (4 characters maximum)

Description

This key is only used under Mac OS.

This key is used to define the creator for the Mac OS application built. Its maximum size is 4 characters.

If this key is omitted and if the **CommonCreator** key is not passed, the creator of the 4D Volume Desktop is used.

Conversely, if both keys are used, only the value set using the **RuntimeVLCreator** key is taken into account.

This key does nothing under Windows.

□ RuntimeVLComment

SQL syntax

/ Preferences4D / BuildApp / Versioning / RuntimeVL / RuntimeVLComment

Accepted values

Comment (31 characters maximum)

Description

This key is only used under Windows.

This key allows you to update the Comment field in the Properties window under Windows. Its maximum size is 31 characters.

If this key is omitted and if the **CommonComment** key is also omitted, the comments associated with the 4D Volume Desktop application are used.

Conversely, if both keys are used, only the value set using the **RuntimeVLComment** key is taken into account.

This key does nothing under Mac OS.

RuntimeVLCompanyName

SQL syntax

/ Preferences4D / BuildApp / Versioning / RuntimeVL / RuntimeVLCompanyName

Accepted values

Company name (31 characters maximum)

Description

This key is only used under Windows.

This key allows you to update the Company name field in the Properties window under Windows. Its maximum size is 31 characters.

If this key is omitted and if the **CommonCompanyName** key is also omitted, the company name associated with the 4D Volume Desktop application is used.

Conversely, if both keys are used, only the value set using the **RuntimeVLCompanyName** key is taken into account.

This key does nothing under Mac OS.

□ RuntimeVLFileDescription

SQL syntax

/ Preferences4D / BuildApp / Versioning / RuntimeVL / RuntimeVLFileDescription

Accepted values

Description (31 characters maximum)

Description

This key is only used under Windows.

This key allows you to update the File description field in the Properties window under Windows. Its maximum size is 31 characters.

If this key is omitted and if the **CommonFileDescription** key is also omitted, the file description associated with the 4D Volume Desktop application is used.

Conversely, if both keys are used, only the value set using the **RuntimeVLFileDescription** key is taken into account.

This key does nothing under Mac OS.

RuntimeVLInternalName

SQL syntax

/ Preferences4D / BuildApp / Versioning / RuntimeVL / RuntimeVLInternalName

Accepted values

Internal name (31 characters maximum)

Description

This key is only used under Windows.

This key allows you to update the Internal name field in the Properties window under Windows. Its maximum size is 31 characters.

If this key is omitted and if the **CommonInternalName** key is also omitted, the internal name associated with the 4D Volume Desktop application is used.

Conversely, if both keys are used, only the value set using the **RuntimeVLInternalName** key is taken into account.

This key does nothing under Mac OS.

□ RuntimeVLLegalTrademark

SQL syntax

/ Preferences4D / BuildApp / Versioning / RuntimeVL / RuntimeVLLegalTrademark

Accepted values

Legal trademark (31 characters maximum)

Description

This key is only used under Windows.

This key allows you to update the Legal trademark field in the Properties window under Windows. Its maximum size is 31 characters.

If this key is omitted and if the **CommonLegalTrademark** key is also omitted, the legal trademarks associated with the 4D Volume Desktop application are used.

Conversely, if both keys are used, only the value set using the **RuntimeVLLegalTrademark** key is taken into account.

This key does nothing under Mac OS.

RuntimeVLPrivateBuild

SQL syntax

/ Preferences4D / BuildApp / Versioning / RuntimeVL / RuntimeVLPrivateBuild

Accepted values

Private build (31 characters maximum)

Description

This key is only used under Windows.

This key allows you to update the Private build field in the Properties window under Windows. Its maximum size is 31 characters.

If this key is omitted and if the **CommonPrivateBuild** key is also omitted, the private build associated with the 4D Volume Desktop application is used.

Conversely, if both keys are used, only the value set using the **RuntimeVLPrivateBuild** key is taken into account.

This key does nothing under Mac OS.

□ RuntimeVLSpecialBuild

SQL syntax

/ Preferences4D / BuildApp / Versioning / RuntimeVL / RuntimeVLSpecialBuild

Accepted values

Special build (31 characters maximum)

Description

This key is only used under Windows.

This key allows you to update the Special build field in the Properties window under Windows. Its maximum size is 31 characters.

If this key is omitted and if the **CommonSpecialBuild** key is also omitted, the special build associated with the 4D Volume Desktop application is used.

Conversely, if both keys are used, only the value set using the **RuntimeVLSpecialBuild** key is taken into account. This key does nothing under Mac OS.

Versioning / Server

- Overview
- ServerVersion
- ServerCopyright
- ServerCreator
- ServerComment
- ServerCompanyName
- ServerFileDescription
- ServerInternalName
- ServerLegalTrademark
- ServerPrivateBuild
- ServerSpecialBuild

Overview

The keys of this subset are specific to 4D Server application builds.

They must be surrounded with `<Versioning>` `<Server>` and `</Server>` `</Versioning>` keys.

□ **ServerVersion**

SQL syntax

/ Preferences4D / BuildApp / Versioning / Server / ServerVersion

Accepted values

Version number

Description

This key contains the version number of the application built. If it is omitted and if the **CommonVersion** key is also omitted, the 4D Server version number is used.

Conversely, if both keys are used, only the value set using the **ServerVersion** key is taken into account.

Under Windows, this key causes the File version and Product version fields of the Properties window to be updated.

Under Mac OS, this key causes the CFBundleShortVersionString and CFBundleVersion field of the "info.plist" file to be updated.

□ ServerCopyright

SQL syntax

/ Preferences4D / BuildApp / Versioning / Server / ServerCopyright

Accepted values

Copyright text

Description

This key contains the text inserted into:

- the CFBundleGetInfoString field of the “info.plist” file under Mac OS,
- the Copyright field of the Properties window under Windows.

If this key is omitted and if the **CommonCopyright** key is also omitted, the Copyright information of the 4D Server application is used.

Conversely, if both keys are used, only the value set using the **ServerCopyright** key is taken into account.

SQL syntax

/ Preferences4D / BuildApp / Versioning / Server / ServerCreator

Accepted values

Creator code (4 characters maximum)

Description

This key is only used under Mac OS.

This key is used to define the creator for the Mac OS application built. Its maximum size is 4 characters.

If this key is omitted and if the **CommonCreator** key is also omitted, the creator of 4D Server is used.

Conversely, if both keys are used, only the value set using the **ServerCreator** key is taken into account.

This key does nothing under Windows.

□ ServerComment

SQL syntax

/ Preferences4D / BuildApp / Versioning / Server / ServerComment

Accepted values

Comment (31 characters maximum)

Description

This key is only used under Windows.

This key allows you to update the Comment field in the Properties window under Windows. Its maximum size is 31 characters.

If this key is omitted and if the **CommonComment** key is also omitted, the comments associated with the 4D Server application are used.

Conversely, if both keys are used, only the value set using the **ServerComment** key is taken into account.

This key does nothing under Mac OS.

ServerCompanyName

SQL syntax

/ Preferences4D / BuildApp / Versioning / Server / ServerCompanyName

Accepted values

Company name (31 characters maximum)

Description

This key is only used under Windows.

This key allows you to update the Company name field in the Properties window under Windows. Its maximum size is 31 characters.

If this key is omitted and if the **CommonCompanyName** key is also omitted, the company name associated with the 4D Server application is used.

Conversely, if both keys are used, only the value set using the **ServerCompanyName** key is taken into account.

This key does nothing under Mac OS.

□ **ServerFileDescription**

SQL syntax

/ Preferences4D / BuildApp / Versioning / Server / ServerFileDescription

Accepted values

Description (31 characters maximum)

Description

This key is only used under Windows.

This key allows you to update the File description field in the Properties window under Windows. Its maximum size is 31 characters.

If this key is omitted and if the **CommonFileDescription** key is also omitted, the description associated with the 4D Server application is used.

Conversely, if both keys are used, only the value set using the **ServerFileDescription** key is taken into account.

This key does nothing under Mac OS.

□ **ServerInternalName**

SQL syntax

/ Preferences4D / BuildApp / Versioning / Server / ServerInternalName

Accepted values

Internal name (31 characters maximum)

Description

This key is only used under Windows.

This key allows you to update the Internal name field in the Properties window under Windows. Its maximum size is 31 characters.

If this key is omitted and if the **CommonInternalName** key is also omitted, the internal name associated with the 4D Server application is used.

Conversely, if both keys are used, only the value set using the **ServerInternalName** key is taken into account.

This key does nothing under Mac OS.

☐ **ServerLegalTrademark**

SQL syntax

/ Preferences4D / BuildApp / Versioning / Server / ServerLegalTrademark

Accepted values

Legal trademark (31 characters maximum)

Description

This key is only used under Windows.

This key allows you to update the Legal trademark field in the Properties window under Windows. Its maximum size is 31 characters.

If this key is omitted and if the **CommonLegalTrademark** key is also omitted, the legal trademarks associated with the 4D Server application are used.

Conversely, if both keys are used, only the value set using the **ServerLegalTrademark** key is taken into account.

This key does nothing under Mac OS.

□ **ServerPrivateBuild**

SQL syntax

/ Preferences4D / BuildApp / Versioning / Server / ServerPrivateBuild

Accepted values

Private build (31 characters maximum)

Description

This key is only used under Windows.

This key allows you to update the Private build field in the Properties window under Windows. Its maximum size is 31 characters.

If this key is omitted and if the **CommonPrivateBuild** key is also omitted, the private build associated with the 4D Server application is used.

Conversely, if both keys are used, only the value set using the **ServerPrivateBuild** key is taken into account.

This key does nothing under Mac OS.

□ **ServerSpecialBuild**

SQL syntax

/ Preferences4D / BuildApp / Versioning / Server / ServerSpecialBuild

Accepted values

Special build (31 characters maximum)

Description

This key is only used under Windows.

This key allows you to update the Special build field in the Properties window under Windows. Its maximum size is 31 characters.

If this key is omitted and if the **CommonSpecialBuild** key is also omitted, the special build associated with the 4D Server application is used.

Conversely, if both keys are used, only the value set using the **ServerSpecialBuild** key is taken into account.

This key does nothing under Mac OS.