

# JEDI VCS v2.42 – Release Notes

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## 1. General Notes

The JEDI Version Control System is the successor of Thomas Hensles FreeVCS and developed by an independent team of voluntary developers on base of Thomas Hensles source codes after he contributed the sources to the OpenSource community.

All Sources are released under the MPL 1.1 (see more on license notes)

JEDI VCS 2.42 is a maintenance release to the first JVCS release. JVCS 2.40 was the first release with the goal to have a stable code base providing full backward compatibility to FreeVCS. This means that connecting from a FreeVCS client is as well possible as connecting from JVCS client to a FreeVCS AppServer.

After this first JVCS release development will continue introducing new features dropping backward compatibility to FreeVCS.

**This documentation includes changes from JVCS 2.41 to JVCS 2.42, from JVCS 2.40 to JVCS 2.41 and to be complete also the release notes of the initial JVCS 2.40 release.**

## 2. License notes

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**JEDI VCS contains strong encryption algorithms. Please check the related rights for your country, as some countries don't allow the public distribution of strong encryption algorithms.**

Componentes and used code which is used in this code are explicitly stated to be copyright of the respective author(s).

### 3. Contributors

Thanks go to the following people for contributing to the JEDI VCS project (in alphabetic order):

**Eivind Bakkestuen, Dominic Bélanger, Frans Bouwmans, Ludo Brands, Pete Bray, Mathias Burbach, Eyyub Volkan Cektimur, Holger Dors, Kurt Fitzner, Matej Golob, Marco Gosselink, Ralf Grenzing, Fikret Hasovic, David Henningsson, Thomas Hensle, Thomas Huber, Petr Jurik, Ondrej Kelle, Wolfgang Klein, Achim Kröber, Pascal Lauret, Gabhan O'Loughlin, Robert Marquard, Francois Piette, Giovanni Premuda, Victor Rodrigues, Erick Sasse, Christian Schiffler, Burkhard Schranz, Carsten Schütte, Uwe Schuster, John Senior, Victor Shibaev, Valdir Stiebe Junior, Pierre Yager and the whole JEDI team.**

Special thanks to the following organisations which donated a free copy to the JEDI VCS project:

<b>Contributors</b>	<b>Note</b>
Tim Young <a href="http://www.elevatesoft.com">www.elevatesoft.com</a>	Thanks for donating a free copy of DBISAM components version 3.x. „DBISAM is a DB engine that will completely eliminate all BDE/Paradox problems you ever had. See details on <a href="http://www.elevatesoft.com">www.elevatesoft.com</a> “
Serge Vostrikov <a href="http://www.devrace.com">www.devrace.com</a>	Thanks for donating a free copy of the FIB+ components version 5.2. „FIBPlus is a direct Delphi/C++ Builder/Kylix connectivity to InterBase and Firebird. See details on <a href="http://www.fibplus.net">www.fibplus.net</a> .“
Toolsfactory	Thanks for donating a free copy of Doc-O-Matic. See details on <a href="http://www.doc-o-matic.com">www.doc-o-matic.com</a> .

### 4. You like JVCS? – and about the future!

If you like JVCS and find it usefull you should know that everything you get was done by people in their free time. As you might have seen, JVCS is a complex project with lot of different modules and it is unlikely that we can support more and more features do bugfixing without lot of helping hands.

Also integration support of different IDEs are only possible if we have these IDEs in our hands for developing and testing.

If you like to help us either by analyse, design, programming, documentation, translation etc. or by donating please don't hesitate to drop an email to one of the project coordinators.

You can join also discussion about the roadmap and future versions on our wikispaces  
<http://jedivcs.sourceforge.net/mediawiki>

## 5. Status Overview

As there are not all applications available from FreeVCS migrated or released under the banner of JEDI you'll find in the following table the migration status.

### 5.1 Application Servers

All JEDI VCS 2.42 application servers will report the same server version 2.42. This will allow connection of FreeVCS client, although there will be a warning message on FreeVCS client login. (Just FYI: Highest FreeVCS application server version was 1.09).

**SrvAppSrv = Service Application Server**

**SalAppSrv = Standalone Application Server**

<i>Application</i>	<i>JVCS 2.4x migration</i>	<i>Migration status</i>	<i>Release tests done</i>	<i>Release status</i>
<b>DBISAM</b> SalAppSrv	Yes	Done	Yes	Released
<b>DBISAM</b> SrvAppSrv	Yes	Done	Yes	Released
<b>Interbase6</b> SalAppSrv (over IBX)	Yes	Done	No	Only source
<b>Interbase6</b> SrvAppSrv (over IBX)	Yes	Done	No	Only source
<b>MS-SQL</b> SalAppSrv	Yes	Done	Yes	Released
<b>MS-SQL</b> SrvAppSrv	Yes	Done	Yes	Released
<b>MySQL</b> SalAppSrv	Yes	Done	Yes	Released
<b>MySQL</b> SrvAppSrv	Yes	Done	Yes	Released
<b>FlashFiler</b> SalAppSrv	Yes	Done	Yes	Released
<b>FlashFiler</b> SrvAppSrv	Yes	Done	Yes	Released
<b>Informix</b> SalAppSrv	No			
<b>Informix</b> SrvAppSrv	No			
<b>Oracle</b> SalAppSrv (BDE)	No			
<b>Oracle</b> SrvAppSrv (BDE)	No			
<b>Oracle</b> SalAppSrv <b>Native</b>	Yes	Done	Yes	Released
<b>Oracle</b> SrvAppSrv <b>Native</b>	Yes	Done	Yes	Released
<b>Firebird</b> SalAppSrv appserver	New in JVCS		Yes	Released
<b>Firebird</b> SrvAppSrv appserver	New in JVCS		Yes	Released
<b>Control Panel Applet</b> (all SrvAppSrv)	Yes	Done	Yes	Released
<b>DBTransfer utility</b>	Yes	Done	Yes	Released
<b>Global VCS settings utility</b>	Yes	Done	Yes	Released

### 5.2 Client applications

<i>Application</i>	<i>JVCS 2.4x Migration</i>	<i>Migration status</i>	<i>Release test done</i>	<i>Release status</i>
Standalone GUI client	Yes	Done	Yes	Released
IDE GUI client	Yes	Done	Yes	Released
Console client	New in JVCS		Yes	Released
Diff/Merge tool	Yes	Done	Yes	Released

## 5.3 Additional

<b>Application</b>	<b>Migration planned for JVCS 2.4x</b>	<b>Migration status</b>	<b>Alpha tests done</b>	<b>Release status</b>
Plugins	No (sample available as source in VCS)			
SMTP forwarder	No (use from FreeVCS)			
FVCSReport.dll	No (needs Reimplementation in future JVCS version)			

## 6. New features

### 6.1 JVCS client applications

- Command line (console) client jvcs.exe
- IDE integration support for Delphi 5/6/7/8/2005, C++Builder 5/6, C#Builder 1, Borland Developer Studio 2006, CodeGear RAD Studio 2007 (**2.41 and 2.42**)
- Project Treeview for Standalone GUI
- Logon dialog extended with „Logon-Aliases“
- Online Help changed to compiled HTML Help (CHM)
- Heavy use of JEDI code library (JCL 1.9x) and JEDI Visual Component Library (JVCL 3.x)
- Open recent Projects added to main menu
- Dockable My ToDo-List/My Locked modules list/Buglist List in main form of all GUI clients
- Multithreaded connections to JVCS Application server introduced
- Synchronisation Treeview for cross referenced projects
- More CPU load friendly requestprocessing
- Synchronisation option for crossreferenced projects in GUI client
- better performance for get/checkin/checkout of large files
- improved timeout handling to suppress timeouts though data was transfered between client/server. In previous versions (up to JVCS client RC2) timeout values needed to be adjusted in JVCS server as well as in JVCS client
- more options like checkin/out, compare,... in the searching result view inside the VCS repository
- better configuration of shortcuts in IDE client for calling JVCS functions
- **2.41**: Timeout issue on transferring large files fixed (needs JVCS **2.41** Server)
- **2.41**: Multiple logins with same user now possible (need JVCS **2.41** Server)
- **2.41**: IDE integration support for CodeGear Delphi 2007 for Win32
- **2.42**: IDE integration support for CodeGear RAD Studio 2007 (and C++Builder 2007)
- **2.42**: Faster Project Treeview
- **2.42**: Large Font Support
- **2.42**: moved configuration and compare files to windows documents folder

### 6.2 JVCS Application Servers

- Upgrade to DBISAM version 3.x
- Update to FlashFiler version 2.13 (Open Source version)
- Support for Oracle 9/10 as database backend
- Support for Firebird 2.0, 1.x as database backend, charset configuration support
- Support for MySQL 3.2x, 4.x. 5.0 (5.0 in 2.41) as database backend
- Firebird 1.5.2 embedded included in the JVCS AppServer setups
- Setup of Standalone & Service AppServer ports
- Multiple AppServers for multiple VCS database archives now installable on one server machine.
- Automatic detection of necessary archive upgrade. JEDI VCS archives (Databases) are upgraded since RC1 to archive version 2.41 (last recent FreeVCS archive had archive version 1.1)
- Support for MS-SQL 7/8/2000 introduced with both possible security models; either „Trusted NT security“ or „SQL based“

- Release of the Global VCS settings tool (JedivcsGlobalAdmin.exe)
- **2.41**: Timeout issue on transferring large files was fixed (needs JVCS **2.41** Client)
- **2.41**: Multiple logins with same user now possible
- **2.42**: several MS-SQL fixes

## 7. Upgrade notes for FreeVCS

### 7.1 Common upgrade steps

JVCS AppServer includes an automatic database update procedure. Upgrade will be done for JEDI VCS Standalone Appservers after your confirmation on startup of the Appserver application and for JEDI VCS Service Appservers silently.

Upgrading database archive includes for all appserver ports:

**Please be aware that there is no relation between db version numbers and the JVCS application version numbers!**

#### Introduced in db version 2.40

- Creating a new archive version table (DBARCHIVEVERSION)
- Creating a new index on table vcslog for better performance in project history

#### Introduced in db version 2.41

- Extending parentext field from varchar(10) to varchar(20)

#### Introduced in db version 2.42

- Fixed some MS-SQL indexes

There might be also additional changes for a specific JEDI VCS Appserver port, please consult the changelog your used Appserver port.

If the upgrade process was successful you are notified in the JEDI VCS Standalone Appserver port or you also can view the DBARCHIVEVERSION table, there should be four rows containing 110, 240, 241 and 242 values in the ARCHIVEVERSION column and the value 1 in the column ISACTUALVERSION of the row 242.

### 7.2 Upgrading Standalone DBISAM Appserver

**! Make sure you have a working backup of your (FreeVCS) DBISAM Databasedirectory !**

If you already have setup a FreeVCS Standalone DBISAM Appserver there are two possibilities:

*Replacing FreeVCS DBISAM Standalone Appserver with JEDI VCS DBISAM Appserver*

**! Only consider this option for a release version of JEDI VCS and not for Beta versions !**

Replacing can be done with the following steps:

- ◆ Close a running FreeVCS Appserver (setup will detect a running instance)
- ◆ Install JEDI VCS DBISAM Standalone Appserver without empty database
- ◆ Database files are normally located in JVCS in <jvcs appdir>\server\archive\db\_dbi, you might copy the FreeVCS database files from the original location there or point JEDI VCS to your existing FreeVCS Database directory.

Normally you have some automatic database backup routines running against the FreeVCS DBISAM database directory so it might be easier to keep the existing databasedirectory instead of copying the databasefiles into the default JVCS database directory.

- ◆ On first start of JEDI VCS Appserver it will ask for the database directory, the directory where your DBISAM databasefiles are located. Just select this directory.
- ◆ JEDI VCS Appserver will detect a DBISAM 2.x table structure and ask you for converting these files to the DBISAM 3.x version (the version which is used by JEDI VCS)
- ◆ If you still have no backup of your databasefiles this is the last chance to make one. We strongly recommend not to continue without having a database backup!
- ◆ After confirming database conversion tables will be converted. If there were no errors continue with setting the Appserver parameters (Port...) to the same values as in the FreeVCS Appserver. There is no automatic conversion available through the JEDI VCS server setup.

If everything is running well with the JEDI VCS (connection from clients is ok) you should now unset the option in FreeVCS Appserver for automatic start on windows start. Otherwise there will be a conflict as both versions are loaded on windows start or FreeVCS tries to connect to an already converted database which will lead to a database error.

### *Installation of a parallel JEDI VCS DBISAM Standalone Appserver*

Installation of both Standalone servers (FreeVCS/JEDI VCS) is possible as location of configuration file changed in JEDI VCS from the <windir> to the <JVCSAppDir>\server.  
After installing JEDI VCS DBISAM Appserver (with or without empty databases) you only should configure JEDI VCS to use a different port than FreeVCS.

## 7.3 Upgrading Standalone Interbase/Firebird Appserver

### **! Make sure you have a working backup of your (FreeVCS) Interbase/Firebird Database !**

Since the JEDI VCS now supports the new firebird embedded server there are several possibilities how to upgrade from Interbase FreeVCS server port to JEDI VCS Firebird/Interbase port.

### *Understanding the concept of Firebird embedded*

Firebird embedded (first available with Firebird 1.5) is the DLL engine of Firebird without need to install a Firebird service. In other words: you can access Firebird databases just over one DLL (and some other configuration files). There are some restrictions like 'only one Firebird engine can access a database file' or 'no user rights over embedded server' but this is no problem for JVCS as the system architecture is similar to a web server: no concurrent access to the database, user rights are handled inside the application, so you don't have to worry using the Firebird embedded. The very interesting of Firebird embedded is, that the complete installation and also deinstallation is possible over the JVCS setup, no need to install/uninstall other software and so the VCS system is completely independent from installation tasks of other software. From this point of view the Firebird embedded installation can be seen similar to the JVCS standalone DBISAM installation, here the database engine is linked into the JVCS server exe.

### *Already have installed Firebird/Interbase engine – how to handle?*

If you already have installed a Firebird/Interbase engine you have two possibilities using JVCS:

a) Use your existing Firebird/Interbase server (**recommended**):

=> just uncheck during setup the installation task of Firebird embedded and later connect the JVCS database over server/username/password (make sure the embedded checkbox is unchecked so you can type in the server/username/password for connecting the JVCS database)

b) Parallel use of Firebird embedded / Firebird/Interbase server (not recommended):

=> install Firebird embedded during setup and later connect the JVCS database by just giving the database name to JVCS appserver. In this case no server/username/password is necessary for connecting to the JVCS database.

### *Cases where Firebird embedded should not be used*

Normally Firebird embedded fits all you need for a standalone VCS but there are some special cases where it's not possible to use Firebird embedded. Following overview should help for making a decision, when the Firebird/Interbase service/application has to be used:

- If you run your JVCS on a dedicated server in a multi user environment we always recommend to install a complete firebird/interbase server as a service as it has more security features and has better stability. Remember that if JVCS crashes for some reason in a database transaction this will also crash your VCS database!!! Having a full firebird/interbase service running this will have no influence on the data integrity; you'll just lose your last transaction but your database server is still running ok.
- Simultaneously access to the JVCS database from any other application while JVCS Standalone appserver is running.  
=> Firebird embedded needs exclusive access to the database so it is **not** possible to connect to the database while Firebird embedded engine is connected to this database
- JVCS database is physically located on another machine  
=> as Firebird embedded can only access database files physically located on the same machine where the embedded engine is installed you need to give the (Firebird) server name for connection.

## 7.4 MySQL Appserver setup

MySQL Appserver ports are based on the ZEOS components (v6.6.0) ([www.zeoslib.net](http://www.zeoslib.net)). Connection to MySQL server needs to load libmysql[x].dll from ZEOS package. JVCS setup has included all of these dll's and will install them into the JVCS server directory.

## 7.5 Configuration files / settings

Due to the migration of FreeVCS to JEDI there were a lot of changes regarding naming of ini-files and registry settings done. The following table shall provide information about the most important changes.

### Default application directories

Category	JVCS Default App.directory	FreeVCS Default App.directory
VCS Standalone Server	<program files>\JEDI\JVCS\Server	-
VCS Standalone DB directory. These folders also include the necessary db scripts to setup a new JVCS database in Oracle, MS-SQL and MySQL server ports.	<program files>\JEDI\JVCS\Server\Archive\<DB port abbreviation> db port abbreviation are: DBISAM: \db_dbi Firebird: \db_fib Interbase: \db_ibx FlashFile: \db_ffr MS-SQL: \db_msq MySQL: \db_mys	-
VCS Clients	<program files>\JEDI\JVCS	<program files>\FreeVCS

### Application names

Category	Application	JEDI VCS	FreeVCS
VCS Server Standalone	Standalone Application Server	Jvcssrv.exe	FVCSAppSrv.exe
VCS Server Service	Service Application Server	Jvcssrv.exe	FVCSNTService.exe
VCS Server Service	Service control panel applet	JvcsCpa.cpl	FVCSServiceControl.cpl
VCS Server Tool DB Transfer utility	Migration of an existing JVCS database to a different DBMS backend	JedivcsDBTransfer.exe	%port%2%port.exe
VCS Server Tool Global Admin Settings	Configuration of Global VCS settings which always override Client settings	JediVCSGlobalAdmin.exe	FVCSGlobalCfgAdmin.exe
VCS Clients	Standalone GUI client	JediVCS.exe	FreeVCS.exe
VCS Clients	Help file	JediVCS.chm	FreeVCS.hlp
VCS Clients	Diff/Merge tool	JediVCSDiff.exe	FVCSDiff.exe
VCS Clients	<u>Delphi 5/6, BCB 5/6 IDE client DLL (VCSManager Interface)</u>	JvcsVcsManagerD5/6.dll	FreeVCS.dll
	<u>Delphi 7/8/2005, C#Builder 1, BDS2006, RAD Studio 2007 (Experts/Wizard Interface)</u>	JvcsExpertD7.dll JvcsExpertBDS1/2/3/4/5.dll & JvcsExternalDII.DII	not supported in FreeVCS

### INI-Files

INI-Files are used for VCS Application Servers.

Category	JEDI VCS	FreeVCS
VCS Standalone AppServer	<AppServer installdir>\jvcssrv.ini	<windir>\fvcsappsrv.ini
VCS AppServer Service	<AppServer installdir>\jvcssrv.ini	<windir>\FreeVCSNTService.ini

### Base Registry-Keys

Registry is used for VCS client applications (HKEY\_CURRENT\_USER). Following table provides an overview of the base registry keys as JVCS Client setup does only a migration of some registry keys from FreeVCS Client application.

<b>Category</b>	<b>JEDI VCS</b>	<b>FreeVCS</b>
Common	HKCU\Software\JEDI\JEDIVCS	HKCU\Software\FreeVCS
Standalone GUI client	HKCU\Software\JEDI\JEDIVCS	HKCU\Software\Borland\<product>\<version>\Version Control\FreeVCS
Standalone GUI Window storage	HKCU\Software\JEDI\JEDIVCS\App_Windows\	-
IDE GUI Window storage	HKCU\Software\JEDI\JEDIVCS\IDE_Windows\	-
Client Options	HKCU\Software\JEDI\JEDIVCS\Options	HKCU\Software\Borland\<product>\<version>\Version Control\FreeVCS\Options

*Configuration migration table*

Ini-Files: manual migration to be done by user

Registry: manual migration to be done by user

## 8. Notes for first time installation

### 8.1 Creating a new database (archive)

#### *DBISAM*

Setup provides the task to install empty database files. Please keep in mind that a DBISAM database consists of several files. If you checked this task during the setup, you'll find empty database files in the directory <jvcs install dir>\server\archive\db\_dbi.

#### *Flashfiler*

Setup provides the task to install empty database files. Please keep in mind that Flashfiler database consists of several files. There are several files necessary. If you checked this task during the setup, you'll find empty database files in the directory <jvcs install dir>\server\archive\db\_ffr.

#### *Firebird/Interbase*

Setup provides the task to install an empty database. In addition you also have the possibility to install SQL Scripts and a database backupfile to create all database objects inside for use with the JVCS firebird/interbase Appserver. The easiest way to create a new and empty database is to restore the backupfile to a new database location (refer to gbak.exe in firebird/interbase manual).

**Note:** empty database installed by JVCS Firebird Server setup does use the NONE character set, so you have to use also and only NONE in JVCS Server configuration. If you need a different character set don't let JVCS Setup create an empty DB. Instead create a Firebird database over a db administration tool (like IBOConsole/Flamerobin etc.) with the character set you want to use, run the provided JVCS SQL scripts to setup the JVCS database structure and make sure the configuration parameter for Firebird character set matches the character set you used for creation of the database.

#### *Oracle*

There is no automatic setup feature to create an empty Oracle database. Instead you have the possibility to install the DB create scripts to create all necessary database objects for use with the JVCS Oracle Appserver. The following procedure is recommended:

- Create a new Oracle user jedivcs
- Login under this name and execute the script oracle\_create.sql. This will create all database objects for JVCS.
- Execute the script oracle\_defvalues.sql. This will create the default values for different JVCS tables. You have to run this script otherwise you will not be able to connect to JVCS Appserver.

#### *MySQL*

There is no automatic setup feature to create an empty MySQL database. Instead you have the possibility to install the DB create scripts to create all necessary database objects for use with the JVCS MySQL Appserver. The following procedure is recommended:

- Login as root user your MySQL database server with your preferred MySQL administration tool
- Create a new database jedivcs with your preferred MySQL administration tool.
- Create a new user jedivcs with necessary rights for jedivcs database.
- Login under this name and execute the script mysql\_create.sql. This will create all database objects for JVCS.
- Execute the script mysql\_defvalues.sql. This will create the default values for different JVCS tables. You have to run this script otherwise you will not be able to connect to JVCS Appserver.

#### *MS-SQL*

There is no automatic setup feature to create an empty MS-SQL database. Instead you have the possibility to install the DB create scripts to create all necessary database objects for use with the JVCS MS-SQL Appserver. Use a MS-SQL tool for running the script, all objects are created under the DBO user.

## 9. Notes about Delphi IDE integration

### 9.1 Changes from FreeVCS & JVCS RC1 to JVCS 2.40

In FreeVCS and also JVCS RC1 Version Control was integrated over the so called VCSManager interface which used the 'old' Open Tools API. For integration there was a registry value VCSManager in the registry key

```
HKCU\Software\Borland\[product]\[version]\Version Control
```

necessary which pointed to the VCSManager DLL (FreeVCSdll.dll / JvcsD5/6/7.dll).

For newer Borland products like C#Builder 1, Delphi 8 for .NET, Delphi 2005, Developer Studio 2006 and CodeGear products like RAD Studio 2007 this method was no longer supported and a replacement was necessary. Borland introduced in Delphi 4 a new Open Tools API for the development of Wizard/Experts which is now since C#Builder (aka BDS1) the only way to integrate a Version Control system directly into the IDE. JVCS Expert DLL will be loaded, as every other Delphi expert with a registry value under

```
HKCU\Software\Borland\[product]\[version]\Experts
```

During development of JVCS IDE client for Delphi 7 some tweaks in the VCSManager DLL could not be fixed and needed a replacement with newer Expert DLL based on the new OTA.

Now with JVCS 2.40 stable the situation is that we have different integration DLLs based on the same source but compiled with different compiler directives.

In the following sections you find how IDE integration is handled for IDE product you are using and their any limitations.

### 9.2 Delphi 5/6 & C++Builder 5/6

For Delphi 5/6 & C++Builder 5/6 only the DLL name has changed it is still used the VCSManager interface. Setup handles migration from JVCS 2.40 RC1 and deletes also the previous known JvcsD5/6/7.DLL files in the JVCS program directory.

VCSManager DLLs are now named: JvcsVcsManagerD[version].dll which means that for Delphi 5/C++Builder 5 JvcsVcsManagerD5.dll is used and for Delphi 6/C++Builder 6 JvcsVcsManagerD6.dll is used.

During setup you need to tick the appropriate checkbox on the IDE integration page for adding/changing registry value under

```
HKCU\Software\Borland\Delphi|C++Builder\5.0|6.0\Version Control
```

JvcsD5.dll, JvcsD6.dll and JvcsD7.dll are no more used and are deleted during setup.

#### *Limitations*

Please be aware that for C++Builder there are some functionality is not implemented eg. used units function is only available for the Delphi IDE.

Missing functions may follow in later versions depending on the developer resources. Please feel free to join the team if you want to help!

## 9.3 Delphi 7/8/2005, C#Builder 1, Borland Developer Studio 2006, CodeGear RAD Studio 2007

Introduced since JVCS 2.40 RC2 for Delphi 7/8/2005, C#Builder 1, BDS 2006, CodeGear RAD Studio 2007 is IDE integration over the Expert/Wizard interface which means that new DLLs are installed, the previous used VCSManager registry value is deleted during setup and a new registry value in the registry key ..\Experts will be created during setup process.

**JVCS 2.40 is the first JVCS version with IDE integration for C#Builder 1 (aka BDS1) / Delphi 8 for .NET (aka BDS2) / Delphi 2005 (aka BDS3) / Borland Developer Studio 2006 (aka BDS4)**  
**JVCS 2.41 is the first JVCS version with IDE integration for CodeGear Delphi 2007 for Win32 (aka BDS5)**  
**JVCS 2.42 is the first JVCS version with IDE integration for CodeGear RAD Studio 2007 (aka BDS5)**

For Delphi 7 a move to the new Expert/Wizard was necessary as some of the bugreports could not be solved in the 'old' OTA. It looks like Borland has stopped to support the old OTA. Moving is supported starting from JVCS 2.40 RC2 setup. VCSManager registry value will be deleted if setup detects a value of JvcsD7.dll/Jedivcsdll.dll and adds the new ..\Experts value.

*Limitations for C# Builder 1/Delphi 8 for .NET/Delphi 2005/Borland Developer Studio 2006/CodeGear RAD Studio 2007*

Please be aware that some other functionality known from Delphi 5/6/7 is not supported in C#Builder 1 and Delphi 8 for .NET like „used units“. Using „used units“ in Delphi 2005, Borland Developer Studio 2006 and CodeGear RAD Studio 2007 is only successful with the Delphi for Win32 personality.

Missing functions may follow in later versions depending on the developer resources. Please feel free to join the team if you want to help!

## 10. Bugfixes and additions since FreeVCS 2.2.1

Following points are detected issues, reported on our bugtracker and should be fixed in the released version. If you find any problems on fixed points please report this to one of the team coordinators ([Thomas Huber](#) / [Uwe Schuster](#)).

### 10.1 Category Server

*Changes between JVCS 2.41 and JVCS 2.42*

<b>Tracker ID</b>	<b>Severity</b>	<b>Description</b>
<a href="#">#3639</a>	Minor	fix log entries in function REMOVE_MODULE
<a href="#">#4151</a>	Minor	GET_MODULE_HISTORY: fix revision extension order
<a href="#">#3573</a>	Minor	MS-SQL: fix index on groups.name
<a href="#">#3978</a>	Minor	MS-SQL: fix index on pjgroups.projectid
<a href="#">#4156</a>	Minor	Connecting to a server with disabled banner isn't possible
<a href="#">#4001</a>	Minor	[DBTransfer] Transfer to MS-SQL does not work(broken blobs)
<a href="#">#4061</a>	Minor	[DBTransfer] Invalid column name 'RECORDID' when transferring from DBISAM to MS-SQL

*Changes between JVCS 2.40 and JVCS 2.41*

<b>Tracker ID</b>	<b>Severity</b>	<b>Description</b>
<a href="#">#3212</a> <a href="#">#3223</a> <a href="#">#3222</a> <a href="#">#3239</a> <a href="#">#3261</a> <a href="#">#3286</a>	Feature	Performance for large modules was much improved in a LAN environment for Get/Checkin/Checkout operations. If using a JVCS 2.40 client application build after RC2 will give another performance boost as with both changes a better memory strategie will be used for transfer.
<a href="#">#3247</a>	Minor	Database reconnect now also working for Oracle, MySQL and FlashFiler

<b>Tracker ID</b>	<b>Severity</b>	<b>Description</b>
<a href="#">#3285</a>	Major	Some functions did not work in MySQL port (GET_SPACE_BY_PROJECTS, GET_SPACE_BY_MODULES)
<a href="#">#3280</a>	Major	DBTransfer for large repositories was not possible due to memory overrun.

#### Changes between FreeVCS and JVCS 2.40

<b>Tracker ID</b>	<b>Severity</b>	<b>Description</b>
<a href="#">#0658</a>	Feature	JEDI VCS about dialog
<a href="#">#0702</a>	Feature	Firebird port also for Firebird 1.5 (1.5 was not possible with FreeVCS)
<a href="#">#1181</a>	Minor	Deleted projectid is shown as 'not found' in hierarchy
<a href="#">#1195</a>	Major	REMOVE_MODULE was not working with MySQL 3.x
<a href="#">#1130</a>	Minor	Dependency did only work for Oracle service appserver
<a href="#">#1126</a>	Major	Wrong order of records returned by GET_REVISION_LIST_BY_ID
<a href="#">#1040,</a> <a href="#">#1039</a>	Feature	No transaction handling for combined actions
<a href="#">#1010</a>	Feature	Add ability to revoke read-only access from specific user
<a href="#">#0996</a>	Tweak	Projects hierarchy is not accessible for Guest user until available project is opened.
<a href="#">#0779</a>	Major	A revision can checked in more than one time
<a href="#">#0652</a>	Minor	Oracle port fails to synchronize by label
<a href="#">#0685</a>	Tweak	Speedup of GET_SHARED_MODULES
<a href="#">#0686</a>	Tweak	Speedup of GET_REVISION_LIST_BY_ID
<a href="#">#0687</a>	Tweak	Avoid deadlocks for Interbase/Firebird port
<a href="#">#0657</a>	Feature	Multiple service support: allow installation of multiple VCS service on one server machine.
<a href="#">#1187</a>	Major	IB express version of server not committing changes until shutted down.
<a href="#">#1270</a>	Major	Introduced with Beta1: Search modules was not working any more.
<a href="#">#1289</a>	Feature	Parentfile Extension in file family definition allows now 20 chars instead of 10 chars. Needs JVCS Client >= 2.40 Build 655
<a href="#">#1120</a>	Trivial	Different column names between server ports.
<a href="#">#1569</a>	Tweak	Eventlog was wrong on failed database connection
<a href="#">#1570</a>	Major	Service did not start when Self.Name is changed. If Self.Name is changed in ServiceCreate because of an entry in the INI-File, the service is not started correct.
<a href="#">#1948</a>	Tweak	Speedup of GET_DESERTED_MODULES
<a href="#">#1965</a>	Tweak	Project manager does not refresh project list/project tree, there were missing several updates of the archive timestamp
<a href="#">#1969</a>	Minor	Module which was not checked in the first time: Server Exception (400)in object [REMOVE_MODULE]:'N/A' is not a valid integer value
<a href="#">#2015</a>	Major	Move Modules now checks and reports an existing module conflict
<a href="#">#2025</a>	Feature	Standalone server ports: new option to send application to tray instead of closing it if user clicks on "close"-button
<a href="#">#2286</a>	Feature	JVCS service FIB+ appserver can be used together with Firebird embedded
<a href="#">#2296</a>	Feature	Server banner can be extended with a user defined text
<a href="#">#1284</a>	Major	Bug with merging shared units.
<a href="#">#1197</a>	Minor	GET_LOG_ENTRIES doesn't return entrys with empty projectid or moduleid (removed module or project) .
<a href="#">#0800</a>	Tweak	Undo checkout leaves checkout comment in DB
<a href="#">#2414</a>	Feature	Registry keys can be removed on uninstall
<a href="#">#2413</a>	Feature	Setup now distinguish different DBMS. Before RC3 all server setups were installed under the same name.
<a href="#">#2502</a>	Feature	Login to MS SQL server can be done now over „Trusted NT security“. Until RC2 only SQL based security was possible.
<a href="#">#1568</a>	Major	Control panel applet: Server exe and configuration ini file now have to be in the same folder.

<b>Tracker ID</b>	<b>Severity</b>	<b>Description</b>
<a href="#">#2321</a>	Major	In RC2 the DB Transfer tool included an outdated version which didn't work. RC4 now includes the most recent version.
<a href="#">#2538</a>	Feature	Until RC2 it was not possible to connect to a MySQL 4.1x server. RC3 introduces this by using ZEOS 6.5.1 components. In addition Setup installs the ZEOS libs for connecting to My SQL server into the server application folder.
<a href="#">#2539</a>	Feature	Firebird appserver port setup now includes Firebird embedded version 1.5.2. Please update if you use an older firebird embedded version!
<b>Issues resolved in JVCS Server RC4</b>		
<a href="#">#2779</a>	Feature	Oracle 10g support
<a href="#">#2777</a>	Minor	Control panel applet: <ul style="list-style-type: none"> <li>✓ Exception "Unable to read event log." if eventlog is empty and you click on "Show Event Log"</li> <li>✓ there are hidden checkboxes (were still hidden in the FreeVCS applet source and binary) <ul style="list-style-type: none"> <li>- cbLogAccessFault - "Log client access &amp;faults"</li> <li>- cbWriteServerLog - "Write ser&amp;ver log file"</li> <li>- cbWriteVCSLog - "&amp;Write VCS log table"</li> </ul> </li> <li>✓ endless loop if you try to start the service and the service doesn't start(is quickly finished) (for example in mysql port with empty db connection params)</li> </ul>
<a href="#">#2296</a>	Feature	Server banner now also configurable in Control panel applet and changed configuration option
<a href="#">#2699</a>	Major	MySQL Server crashed when connected to a MySQL Server running on Unix as there is mixed case naming in the server for the tables. In the SQL Server all tables are lowercase but some calls from the JVCS Server are referring to "MODULES" or similar uppercase table. Fixed also in Upgrade 2.40 procedure. If you plan to move your MySQL JVCS DB from Windows to Linux please check index names and make sure to have them in lowercase.
<a href="#">#2570</a>	Major	Firebird allows now configuration of CHARSET. <b>WARNING:</b> Don't use this option unless your Firebird database was created with the same CHARSET!!! Default for existing Firebird databases is still CHARSET NONE!!! JVCS does not support CHARSET migration for existing JVCS databases.
<a href="#">#2616</a>	Minor	CHECKIN_MODULE updates module.locktstamp and does no more clear it in put mode
<a href="#">#2629</a>	Minor	DBTransfer failed as maximum blob size was not checked and max_allowed_packet was set. Now maximum blob size is checked before transfer and "max_allowed_packet" is set if destination DB is MySQL.
<b>Issues resolved in JVCS Server 2.40 Stable</b>		
<a href="#">#2961</a>	Major	FF service port did not start as configuration applet writes wrong parameter for JVCS FF service port
<a href="#">#2818</a>	Minor	Live backup did not execute automaticaly
<a href="#">#2941</a>	Major	missing check in RENAME_MODULE of already existing module in the same directory
<a href="#">#2873</a>	Major	Memory and resource leak in service.
<a href="#">#2974</a>	Minor	FF service port did not start.
<a href="#">#2880</a>	Minor	FF server query timeout
<a href="#">#2856</a>	Minor	Fix matching algorithm in SEARCH_MODULES

## 10.2 Category Client

### Changes between JVCS 2.41 and JVCS 2.42

<b>Tracker ID</b>	<b>Severity</b>	<b>Description</b>
<a href="#">#4124</a>	Major	JVCS Client login dialog makes usage under wine impossible
<a href="#">#4072</a>	Minor	Speed up Project Tree view
<a href="#">Analog #4087</a>	Minor	More shortcut problems
	Tweak	Some Vista adjustments (fixed size of the Compare Dialog; replaced static dialog icons with the OS icon)
<a href="#">#4157</a>	Feature	C++Builder 2007 support
<a href="#">#4166</a>	Minor	"Current user" in Project History Filter should be saved explicitly

<b>Tracker ID</b>	<b>Severity</b>	<b>Description</b>
<a href="#">#1034</a>	Feature	Wrong appearance when screen resolution is not 96dpi
<a href="#">#3710</a>	Minor	GUI problems with large fonts
<a href="#">#3611</a>	Major	Multuser environment problem - easy to solve
<a href="#">#3668</a>	Tweak	Compare folders should be moved to windows documents folder
<a href="#">#4075</a> ( <a href="#">Note 13553</a> )	Minor	Some backup problems

#### Changes between JVCS 2.40 and JVCS 2.41

<b>Tracker ID</b>	<b>Severity</b>	<b>Description</b>
<a href="#">#3539</a>	Minor	Fix default value for „Filter Values\Delphi Modules“
<a href="#">#3555</a>	Major	A renamed module was deleted after checkout
<a href="#">#3596</a>	Minor	„Add by Folder“ added all modules regardless if they were selected or not
<a href="#">#3609</a>	Minor	Speed up on project closing
<a href="#">#3744</a>	Minor	Incorrect sync of a renamed module if it was not checked in after rename
<a href="#">#3800</a>	Tweak	Improve sync question "remove hidden modules"
<a href="#">#3830</a>	Minor	Format %s error if Checkin and try assigning a already existing label at the same time
<a href="#">#4072</a>	Minor	Speed up Project Tree view (partly)
<a href="#">#4079</a>	Minor	"Open Parent Folder" does not work with folders that contain a comma
<a href="#">#4087</a>	Minor	Shortcut problem in Check in/Check Out dialog
<a href="#">#4095</a>	Minor	Hieroglyphics in the column "Type" in the module list in the "Project Manager" if the file doesn't exists
<a href="#">#4102</a>	Minor	Fixed background color in "Add to <project>" dialog
<a href="#">#3954</a>	Text	Extend information about default file families
<a href="#">#3677</a>	Feature	Backup function should use Abbrevia instead of ZipMaster
	Feature	IDE integration support for CodeGear Delphi 2007 for Win32

#### Changes between FreeVCS and JVCS 2.40

<b>Tracker ID</b>	<b>Severity</b>	<b>Description</b>
<b>2.40 stable 2006/01/21 – Changes between RC3 and 2.40 stable release</b>		
<a href="#">#3459</a>	minor	[IDE client] wrong project detected on checkout of modules in project groups (bpg)
<a href="#">#3422</a>	minor	[IDE client] Delphi7 and higher: if a VCS connection was active, closing Delphi did hang
<a href="#">#3395</a>	minor	Project tree nodes were painted in white instead of clWindow (Introduced with new JVCL version in JVCS 2.40 RC3)
<a href="#">#3404</a>	tweak	Docked windows (module history/my locked modules) did not fill out client area after hiding, resizing and again showing
<a href="#">#3397</a>	tweak	[IDE client] Shortcuts inside IDE can be free configured. In previous versions onlyCTRL- SHIFT was possible
<a href="#">#3193</a> , <a href="#">#3398</a>	major, tweak	In addition to automatic refresh it is now also possible to refresh over context menu. Additionally there is an option to hide projects for which user has no rights. An attempt to load project groups for guest accounts will be made. State of project tree is now persistent for refresh operations
<a href="#">#3381</a> , <a href="#">#3380</a>	minor	Dockable window „My locked modules“ now has also a context menu for „undo checkout“. Checkin of more than one module can now be done in one step with same comment
<a href="#">#3356</a>	feature	[Console client] new command syncprojectgroup added
<a href="#">#3423</a>	minor	[IDE Client] D5 and D6: Menu shows wrong module name if form is activated and state check is enabled
<a href="#">#3416</a>	minor	Labels column is not visible in Module History
<a href="#">#3431</a>	minor	Hide Print/Reports... menu if jedivcsreport.dll file isn't available
<a href="#">#3434</a>	minor	[IDE Client] module state in menu is sometimes wrong

<b>Tracker ID</b>	<b>Severity</b>	<b>Description</b>
<a href="#">#3405</a>	major	[IDE Client] Contextmenu now also enabled for Win32 personality in BDS2006 project manager
<a href="#">#3453</a>	minor	Checkin module timeout error. Timeout starts now after the command was sent to the server and not before
<a href="#">#3450</a>	minor	Archive Space: project module byte or single module byte values greater than 2^31 was handled as 0
<a href="#">#3450</a>	tweak	[IDE Client] IDE DLL accidently compiled with a german compiler
<b>RC3 2005/12/18 - Changes between RC2 and RC3</b>		
<a href="#">#3368</a>	feature	[IDE client] D2005/BDS2006 Project Manager Menu integration
<a href="#">#3072</a>	tweak	Diff/Compare improved performance
<a href="#">#3291</a>	feature	New dockable tabsheet which shows „My locked modules“ have been added to project manager window
<a href="#">#3336</a>	minor	Synch after rename module does failed with exception Error extract file:...
<a href="#">#3325</a>	minor	[IDE client] Project specific files for .NET WinForms have been added to VCS (.bdsproj, .dpr)
<a href="#">#3319</a>	feature	Menu option „File families“ has been removed from Modules to Tools menu
<a href="#">#3318</a>	minor	[IDE client] Project manager always asked to add .dfm and .h files to project in C++ Builder
<a href="#">#3071</a>	feature	[IDE client] D2005/BDS 2006 History View support has been added in JVCS
<a href="#">#3221</a>	feature	Timeout handling during transfer of data has been changed. Now timeout counter is restarted when data is received. This prevents often reported timeout on slow internet lines.
<a href="#">#3269</a>	feature	[IDE client] Project Used modules is now sortable by state
<a href="#">#3268</a>	feature	Module Add by Folder is now sortable by state
<a href="#">#3231,</a> <a href="#">#3211</a>	feature	Severel improvements in used midware component: - Better memory management (ReallocMem) - Autoexpand feature for faster transfer of large blobs in LAN environments
<a href="#">#3048</a>	feature	Search modules improvement: in the result view of a module search there are now more options: Open (first) project, Open directory (File folder), Compare, Checkout, Checkin
<a href="#">#3183</a>	minor	[IDE client] Incrementation of versionno. after compilation failed for Delphi7 or higher versions
<a href="#">#3033,</a> <a href="#">#3156</a>	feature	Context menu in locked modules view has been extended with the Diff/Merge function
<a href="#">#3108</a>	major	User interaction is being prevented now during remove module operation
<a href="#">#3091</a>	minor	Shortcut reenabled again for GetLastComment in Checkin/Checkout window
<a href="#">#3081,</a> <a href="#">#2308</a>	minor	[IDE client] „Undo checkout“ of DPR file does no more reload this file thus preventing some strange exceptions and sometimes crash of the IDE. This failure also happened if a DPR file was changed from a synch
<a href="#">#3063</a>	minor	[IDE client] In Delphi 2005 IDE user list did throw several read errors and a 403 error
<a href="#">#1932</a>	minor	[IDE client] Improvement of auto open project has been added to the IDE client
<a href="#">#3061</a>	minor	[IDE client] If a file has been checked out it will being reloaded now in the IDE
<a href="#">#3062</a>	minor	[IDE client] Sometimes the List of modules was not being refreshed
<a href="#">#2569</a>	trivial	Assigned labels to a module are being sorted now descending by date. This means that the most recent assigned label will be shown as the first label in the column labels.
<a href="#">#2916</a>	minor	[IDE client] Shortcuts didn't work
<a href="#">#2913</a>	feature	A „Don't show again in the current queue“ messagebox has been added for Label/stamp modules
<a href="#">#2713</a>	feature	It is now possible to show module history in check in/check out window
<a href="#">#2969</a>	minor	A problem in Source distribution with empty top level dir has been fixed
<a href="#">#2927</a>	major	[IDE client] In used modules there were cases with double backslashed path endings were reported which caused errors during adding to a project
<a href="#">#2954</a>	minor	Project open dialog was not being shown even if Auto open option was checked
<a href="#">#2480</a>	minor	An access violation is raised (in ntdll.dll) when try to Create JVCSVER.RES (in "Version Settings" form). This was caused from a not existing language resource

<b>Tracker ID</b>	<b>Severity</b>	<b>Description</b>
<a href="#">#2891</a>	minor	[IDE client] Delphi2005 and .NET problems with hardcoded file extensions (dfm/pas) have been fixed.
<a href="#">#2900</a>	minor	[IDE client] Delphi2005 Win32: not all file extensions for Delphi2005 package were added
<a href="#">#1205</a>	feature	File extensions are now handled more flexible to allow better integration also for non delphi IDE environments.
<a href="#">#3337</a>	feature	[Console client] deletehidden switch has been added for syncproject command to remove hidden files in the file system.
<a href="#">#3045</a>	feature	[Console client] Get command with option for different file location has been added
<b>Changes between RC1 and RC2</b>		
<a href="#">#2462</a>	feature	IDE Integration support for D8,D2005,C#Builder, fixed tweaks in D7 over use of Expert/Wizard (new OTA) interfacing (VCSManager interface was dropped) , see also #2836, #2536, #2853, #2837, #2875
<a href="#">#1556</a>	feature	Console client now supports "restore project to label"
<a href="#">#2857</a>	Minor	MatchWithFilter function fixed
<a href="#">#2815</a>	tweak	Problem with sync by timestamp and daylight savings (sommerzeit) fixed, see also: #2872
<a href="#">#2769</a>	feature	"Get Module" (ModuleInfo.pas) dialog should provide a RevisionID property
<a href="#">#1966</a>	tweak	project manager list needs to be refreshed after synchronize
<a href="#">#2782</a>	minor	"Source Distribution" fails if at least one file exists in different directories of the project
<a href="#">#2768</a>	minor	\$Keyword check in the first two lines fails for files with less than two lines
<a href="#">#2714</a>	minor	turn 403 exceptions in threads into silent exceptions
<a href="#">#2031</a>	minor	ide client: click in project manager module list handled as double click
<a href="#">#1956</a>	feature	shortcut keys (as define in config) only work in IDE editor window, not in standalone client
<a href="#">#2571</a>	major	1110846 SF Tracker - Problem with russian letters in filenames
<a href="#">#1048</a>	tweak	Annoying message from TZipMaster when DataEncryption is on
<a href="#">#2609</a>	minor	Refresh project manager when project changes (IDE dll)
<a href="#">#2470</a>	minor	GPF in ProjAdmin.TVCSProjAdmin.GetSelectedModuleID
<a href="#">#2621</a>	minor	change TDataModule1 creation and destruction in IDE DLL
<a href="#">#2545</a>	tweak	module history
<a href="#">#2770</a>	minor	Used components
<a href="#">#2852</a>	minor	IDE Client: improve "Used Components" speed
<a href="#">#2825</a>	minor	when adding modules, the exclude list not work perfect if the full file name contain more than one dot.
<a href="#">#2820</a>	minor	Can not compare the difference of file when the target folder is not the Origin folder
<a href="#">#2516</a>	minor	update credits and contributors in About dialog
<a href="#">#2806</a>	feature	Add additional Regkey RootDir during setup
<a href="#">#2438</a>	Major	1090749 SF Tracker - IDE DLL fails to load in Delphi IDE
<a href="#">#2359</a>	tweak	Module History-List should show the history also when you select a module with keys
<a href="#">#2408</a>	tweak	windowstate of mainform won't be restored correctly
<a href="#">#2254</a>	minor	Project Open lists project the user has no rights for
<a href="#">#2481</a>	minor	In options, IDE file extension are stored to wrong registry location
<a href="#">#2471</a>	major	synchronice is done even if question is answered with "NO".
<a href="#">#2186</a>	tweak	several TextComp("Visual Compare") changes
<a href="#">#2475</a>	tweak	pressing ESC in Compare dialog closes the Sync dialog
<a href="#">#2454</a>	minor	Problem with Rename Module and uppercase letters
<a href="#">#2529</a>	minor	use MsgWaitForMultipleObjects to reduce the CPU load while requests
<a href="#">#2235</a>	tweak	checkin: tmp files are not deleted
<b>Changes in RC1 (first released Jvcs Client version)</b>		
<a href="#">#1218</a>	Feature	GUI client: Multiselect for projects. Allow assigning of multiple projects to a projectgroup.

<b>Tracker ID</b>	<b>Severity</b>	<b>Description</b>
<a href="#">#1153</a>	Feature	Console client: It's also possible to checkin a file that is not checked out (same behaviour as in GUI client).
<a href="#">#1159</a>	Feature	Console client: the hidden behavior from the gui sync is added to syncproject command.
<a href="#">#1160</a>	Trivial	GUI client: Listview - fix select/unselect all; add order over columnheader. After verify the listview's popupmenu always shows "Select All" instead of "Unselect All" and you have to press "Select All" first to get "Unselect All". Sorting of listview entries would be nice.
<a href="#">#1176</a>	Major	GUI client:When VCS is installed in C++Builder 6 and adding new modules into VCS, then VCS accepts only cpp and h files. Not accepting dfm. When adding dfm manually, VCS ends adding process with report that "cpp unit is still in archive". File families didn't resolve this problem.
<a href="#">#1157</a>	Feature	IDE client: Locked modules: show the project of the locked files.
<a href="#">#1131</a>	Trivial	IDE client: Skip new modules .snm never saved if Config directory doesn't exist (JediVCS.dll).
<a href="#">#1029</a>	Crash	Clients: Exception on synchronisation with dual processor.
<a href="#">#1124</a>	Minor	GUI client: After checking in file with zero length, project command Get/ Version history fails.
<a href="#">#1021</a>	Tweak	GUI client: Synchronice should deliver the RevisionID of the selected module to TextComp for use in "Restore version number", "Restore labeled version" or "Rollback".
<a href="#">#1019</a>	Feature	GUI client: Module revisions can now set to be ignored in synchronice. Ignored revisions are stored in registry (HKCU).
<a href="#">#1116</a>	Major	Console client: synchronisation can be configured to not overwrite checked out files of same user to not overwrite already made changes.
<a href="#">#1108</a>	Feature	GUI client: An already assigned label can be moved to a (higher) revision on assigning.
<a href="#">#1018</a>	Major	GUI client: Synchronice marks files as different which are locked by another program.
<a href="#">#0880</a>	Major	GUI client: Clean up or remove dirty ProjectID handling in ChkIn/Out and member handling in Textcomp.
<a href="#">#0908</a>	Feature	GUI client: Add modulehistory in projectmanager.
<a href="#">#0978</a>	Feature	GUI client: Add access to recent projects over menu (only in standalone client).
<a href="#">#0903</a>	Minor	GUI clients: Project history doesn't show changes close after midnight.
<a href="#">#0807</a>	Feature	GUI clients: Project Tree\Backup Tree enhancement (selectable output structure).
<a href="#">#0791</a>	Major/ Feature	GUI clients: 1. Bug: synchronice shows and overwrites files checked out by me 2. feature: the selected verifymethod(newer files/different files/CRC 32) should be stored and not set to newer files on open 3. feature: hidden files should be removed on the local disk if they exists(as option - should be selectable when "Include hidden modules" is checked) 4. bug: history only works with the main files - for example showing history on .dfm shows always another file .
<a href="#">#0857</a>	Feature	GUI clients: visual diff/compare also available in Checkin windows.
<a href="#">#0786</a>	Tweak	GUI clients: Some tweaks in ToDo dialog fixed
<a href="#">#0727</a>	Minor	GUI clients: ThistoryList & TjvMruList replaced by TJVCSMruList.
<a href="#">#0723</a>	Feature	IDE client: JVCS Menuitems are dynamically enabled/disabled eg. possibility of checkout/checkin is depending of the actual checkin/checkout state of the module.
<a href="#">#0675</a>	Minor	'Move Modules' items not selectable by left mouse button.
<a href="#">#0674</a>	Major	'Move Modules' file list is empty when showing.
<a href="#">#1204</a>	Feature	GUI clients: Allow archive compare though local file not available.
<a href="#">#1289</a>	Feature	Parentfile Extension in file family definition allows now 20 chars instead of 10 chars. Needs JVCS AppServer with db version 2.41
<a href="#">#1781</a>	Minor	Some problems in project history filter were fixed
<a href="#">#1773</a>	Tweak	Checkin description will be locked for inputs until connection to AppServer is established
<a href="#">#1186</a>	Minor	GUI clients: Client/Server: Login problems , Login not possible although user/password combination is ok. Needs to hit 3-4 times Login and suddenly Login is ok.
<a href="#">#1220</a>	Trivial	Clients: Files which are checked out by you should not get the ReadOnly Flag in Get or Sync
<a href="#">#1214</a>	Feature	GUI clients: add abort to open project in project manager and the verify process in sync
<a href="#">#1557</a>	Minor	Sorting the module listview by date in ProjAdmin was not working properly

<b><i>Tracker ID</i></b>	<b><i>Severity</i></b>	<b><i>Description</i></b>
<a href="#">#1272</a>	Feature	Compare directories are cleaned now
<a href="#">#1237</a>	Minor	Delphi7 Client Check in / Check out problem with dfm active in editor
<a href="#">#1061</a>	Crash	Delphi IDE client crash with range check error on function used modules

## 11. Known issues

For a recent list of all known issues and it's status, please open the JVCS bugtracker on <http://homepages.codegear.com/jedi/issuetracker>.

If you find any problems not already reported there please add this to the bugtracker with a description how this can be reproduced.

## 12. Additional information / Links

If you need additional information regarding JEDI VCS and JEDI not covered in this release documentation, you might find some usefull informations here:

JVCS Web	<a href="http://jedivcs.sourceforge.net/">http://jedivcs.sourceforge.net/</a>
JVCS newsgroup	<a href="news://forums.talkto.net/jedi.vcs">news://forums.talkto.net/jedi.vcs</a>
JVCS @ SourceForge	<a href="http://sourceforge.net/projects/jedivcs">http://sourceforge.net/projects/jedivcs</a>
JVCS FAQ	<a href="http://jedivcs.sourceforge.net/faq.html">http://jedivcs.sourceforge.net/faq.html</a>
JVCS Bugtracker	<a href="http://homepages.codegear.com/jedi/issuetracker">http://homepages.codegear.com/jedi/issuetracker</a>
JEDI homepage	<a href="http://delphi-jedi.org">http://delphi-jedi.org</a>
JVCS wiki	<a href="http://jedivcs.sourceforge.net/mediawiki">http://jedivcs.sourceforge.net/mediawiki</a>

### 12.1 3<sup>rd</sup> party Diff/Merge tools

If you have special requirements regarding the Comparing/Merging of modules and find the included JEDI VCS Diff/Merge tool is not fitting your requirements you might have a look at one of these Freeware/Open Source tools.

<b>Product</b>	<b>License</b>	<b>Link</b>
Athlant Diff	Freeware	<a href="http://www.athlant.com">www.athlant.com</a>
WinMerge	GNU (OS)	<a href="http://winmerge.sourceforge.net/">http://winmerge.sourceforge.net/</a>
CSDiff	Freeware	<a href="http://www.componentsoftware.de">www.componentsoftware.de</a> (also english version available)

There are some commercial tools around which provide better merging or support eg. Excel/Word compare. If you consider to license one for use in JEDI VCS, make sure that it supports a parameter call where the files which should be compared can be passed to (eg. Specialdifftool.exe „c:\projects\1\unit1.pas” „c:\project\2\unit2.pas”). For more information about integration of 3<sup>rd</sup> party diff/merge tools read the JEDI VCS onlinehelp.