

JEDI VCS v2.44 – 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 2.44 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 2.43 to JVCS 2.44, from JVCS 2.42 to JVCS 2.43, 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:

<i>Contributors</i>	<i>Note</i>
Tim Young www.elevatesoft.com	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 www.elevatesoft.com “
Serge Vostrikov www.devrace.com	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 www.fibplus.net .“
Toolsfactory	Thanks for donating a free copy of Doc-O-Matic. See details on www.doc-o-matic.com .

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 2.44 application servers will report the same server version 2.44. 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>
DBISAM SalAppSrv	Yes	Done	Yes	Released
DBISAM SrvAppSrv	Yes	Done	Yes	Released
Interbase6 SalAppSrv (over IBX)	Yes	Done	No	Only source
Interbase6 SrvAppSrv (over IBX)	Yes	Done	No	Only source
MS-SQL SalAppSrv	Yes	Done	Yes	Released
MS-SQL SrvAppSrv	Yes	Done	Yes	Released
MySQL SalAppSrv	Yes	Done	Yes	Released
MySQL SrvAppSrv	Yes	Done	Yes	Released
FlashFiler SalAppSrv	Yes	Done	Yes	Released
FlashFiler SrvAppSrv	Yes	Done	Yes	Released
Informix SalAppSrv	No			
Informix SrvAppSrv	No			
Oracle SalAppSrv (BDE)	No			
Oracle SrvAppSrv (BDE)	No			
Oracle SalAppSrv Native	Yes	Done	Yes	Released
Oracle SrvAppSrv Native	Yes	Done	Yes	Released
Firebird SalAppSrv appserver	New in JVCS		Yes	Released
Firebird SrvAppSrv appserver	New in JVCS		Yes	Released
Control Panel Applet (all SrvAppSrv)	Yes	Done	Yes	Released
DBTransfer utility	Yes	Done	Yes	Released
Global VCS settings utility	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

Application	Migration planned for JVCS 2.4x	Migration status	Alpha tests done	Release status
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**), CodeGear Delphi/C++Builder 2009 (**2.43**), Embarcadero RAD Studio 2010 (**2.44**)
- 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
- **2.43**: IDE integration support for CodeGear Delphi/C++Builder 2009
- **2.44**: IDE integration support for Embarcadero RAD Studio 2010

6.2 JVCS Application Servers

- Upgrade to DBISAM version 3.x
- Update to FlashFile 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
- **2.43**: lost connection 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 parenttext 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). 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, Delphi/C++Builder 2009, RAD Studio 2010 (Experts/Wizard Interface)</u>	JvcsExpertD7.dll JvcsExpertBDS1/2/3/4/5/6/7.dll & JvcsExternalDll.Dll	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.

Category	JEDI VCS	FreeVCS
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, CodeGear products like RAD Studio 2007, Delphi/C++Builder 2009 and Embarcadero products like RAD Studio 2010 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  
(till RAD Studio 2007)
```

```
HKCU\Software\CodeGear\BDS\[version]\Experts  
(Delphi/C++Builder 2009 and RAD Studio 2010)
```

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, CodeGear Delphi/C++Builder 2009, Embarcadero RAD Studio 2010

Introduced since JVCS 2.40 RC2 for Delphi 7/8/2005, C#Builder 1, BDS 2006, CodeGear RAD Studio 2007, CodeGear Delphi/C++Builder 2009, Embarcadero RAD Studio 2010 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)

JVCS 2.43 is the first JVCS version with IDE integration for CodeGear Delphi/C++Builder 2009 (aka BDS6)

JVCS 2.44 is the first JVCS version with IDE integration for Embarcadero RAD Studio 2010 (aka BDS7)

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/CodeGear Delphi/C++Builder 2009/Embarcadero RAD Studio 2010

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, CodeGear RAD Studio 2007, CodeGear Delphi/C++Builder 2009 and Embarcadero RAD Studio 2010 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 2.43 and JVCS 2.44

Tracker ID	Severity	Description
#4208	Minor	Purge Project, DBISAM SQL Error - Type mismatch in HAVING clause
#779	Major	a revision can checked in more than one time

Changes between JVCS 2.42 and JVCS 2.43

Tracker ID	Severity	Description
#4443	Minor	Firebird connection problems
#4260	Minor	MySQL time out problem
#4184	Minor	Setup launch with /SILENT parameter still opens PDF at the end

Changes between JVCS 2.41 and JVCS 2.42

Tracker ID	Severity	Description
#3639	Minor	fix log entries in function REMOVE_MODULE

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

Changes between JVCS 2.40 and JVCS 2.41

Tracker ID	Severity	Description
#3212 #3223 #3222 #3239 #3261 #3286	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.
#3247	Minor	Database reconnect now also working for Oracle, MySQL and FlashFiler
#3285	Major	Some functions did not work in MySQL port (GET_SPACE_BY_PROJECTS, GET_SPACE_BY_MODULES)
#3280	Major	DBTransfer for large repositories was not possible due to memory overrun.

Changes between FreeVCS and JVCS 2.40

Tracker ID	Severity	Description
#0658	Feature	JEDI VCS about dialog
#0702	Feature	Firebird port also for Firebird 1.5 (1.5 was not possible with FreeVCS)
#1181	Minor	Deleted projectid is shown as 'not found' in hierarchy
#1195	Major	REMOVE_MODULE was not working with MySQL 3.x
#1130	Minor	Dependency did only work for Oracle service appserver
#1126	Major	Wrong order of records returned by GET_REVISION_LIST_BY_ID
#1040, #1039	Feature	No transaction handling for combined actions
#1010	Feature	Add ability to revoke read-only access from specific user
#0996	Tweak	Projects hierarchy is not accessible for Guest user until available project is opened.
#0779	Major	A revision can checked in more than one time
#0652	Minor	Oracle port fails to synchronize by label
#0685	Tweak	Speedup of GET_SHARED_MODULES
#0686	Tweak	Speedup of GET_REVISION_LIST_BY_ID
#0687	Tweak	Avoid deadlocks for Interbase/Firebird port
#0657	Feature	Multiple service support: allow installation of multiple VCS service on one server machine.
#1187	Major	IB express version of server not committing changes until shutted down.
#1270	Major	Introduced with Beta1: Search modules was not working any more.
#1289	Feature	Parentfile Extension in file family definition allows now 20 chars instead of 10 chars. Needs JVCS Client >= 2.40 Build 655
#1120	Trivial	Different column names between server ports.
#1569	Tweak	Eventlog was wrong on failed database connection
#1570	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.
#1948	Tweak	Speedup of GET_DESERTED_MODULES
#1965	Tweak	Project manager does not refresh project list/project tree, there were missing several updates of the archive timestamp

Tracker ID	Severity	Description
#1969	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
#2015	Major	Move Modules now checks and reports an existing module conflict
#2025	Feature	Standalone server ports: new option to send application to tray instead of closing it if user clicks on "close"-button
#2286	Feature	JVCS service FIB+ appserver can be used together with Firebird embedded
#2296	Feature	Server banner can be extended with a user defined text
#1284	Major	Bug with merging shared units.
#1197	Minor	GET_LOG_ENTRIES doesn't return entrys with empty projectid or moduleid (removed module or project) .
#0800	Tweak	Undo checkout leaves checkout comment in DB
#2414	Feature	Registry keys can be removed on uninstall
#2413	Feature	Setup now distinguish different DBMS. Before RC3 all server setups were installed under the same name.
#2502	Feature	Login to MS SQL server can be done now over „Trusted NT security“. Until RC2 only SQL based security was possible.
#1568	Major	Control panel applet: Server exe and configuration ini file now have to be in the same folder.
#2321	Major	In RC2 the DB Transfer tool included an outdated version which didn't work. RC4 now includes the most recent version.
#2538	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.
#2539	Feature	Firebird appserver port setup now includes Firebird embedded version 1.5.2. Please update if you use an older firebird embedded version!
Issues resolved in JVCS Server RC4		
#2779	Feature	Oracle 10g support
#2777	Minor	Control panel applet: <ul style="list-style-type: none"> ✓ Exception "Unable to read event log." if eventlog is empty and you click on "Show Event Log" ✓ there are hidden checkboxes (were still hidden in the FreeVCS applet source and binary) <ul style="list-style-type: none"> - cbLogAccessFault - "Log client access &faults" - cbWriteServerLog - "Write ser&ver log file" - cbWriteVCSLog - "&Write VCS log table" ✓ 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)
#2296	Feature	Server banner now also configurable in Control panel applet and changed configuration option
#2699	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.
#2570	Major	Firebird allows now configuration of CHARSET. WARNING: 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.
#2616	Minor	CHECKIN_MODULE updates module.locktstamp and does no more clear it in put mode
#2629	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.
Issues resolved in JVCS Server 2.40 Stable		
#2961	Major	FF service port did not start as configuration applet writes wrong parameter for JVCS FF service port
#2818	Minor	Live backup did not execute automaticaly
#2941	Major	missing check in RENAME_MODULE of already existing module in the same directory
#2873	Major	Memory and resource leak in service.

Tracker ID	Severity	Description
#2974	Minor	FF service port did not start.
#2880	Minor	FF server query timeout
#2856	Minor	Fix matching algorithm in SEARCH_MODULES

10.2 Category Client

Changes between JVCS 2.43 and JVCS 2.44

Tracker ID	Severity	Description
#4911	Feature	RAD Studio 2010 integration
#4644	Tweak	Performance of Select All, Unselect All, Reverse selection, ... should be improved
#4561	Minor	Improve performance in "Project based Rights" window

Changes between JVCS 2.42 and JVCS 2.43

Tracker ID	Severity	Description
#4456	Feature	Delphi/C++Builder 2009 integration
#4089	Major	GPF when closing BDS Update2 running on VISTA (Nothing to do with open JVCS connection)
#4262	Minor	[Project Manager Popup Menu] Module functions doesn't work correctly with child files (e.g. .dfm; .h)
#4330	Minor	JEDIVCSDiff doesn't recognize POSIX text files
#4379	Minor	Project Tree view: Sorting order is wrong if group tree level information is wrong
#2867	Minor	plugin configuration is disabled from TVCSProjAdmin.uiIPluginManager1AfterLoad
#4227	Minor	problems with empty check in comment check
#4223	Feature	Add support for the "Change" (repair) function in the setup
#4184	Minor	Setup launch with /SILENT parameter still opens PDF at the end

Changes between JVCS 2.41 and JVCS 2.42

Tracker ID	Severity	Description
#4124	Major	JVCS Client login dialog makes usage under wine impossible
#4072	Minor	Speed up Project Tree view
Analog #4087	Minor	More shortcut problems
	Tweak	Some Vista adjustments (fixed size of the Compare Dialog; replaced static dialog icons with the OS icon)
#4157	Feature	C++Builder 2007 support
#4166	Minor	"Current user" in Project History Filter should be saved explicitly
#1034	Feature	Wrong appearance when screen resolution is not 96dpi
#3710	Minor	GUI problems with large fonts
#3611	Major	Multuser environment problem - easy to solve
#3668	Tweak	Compare folders should be moved to windows documents folder
#4075 (Note 13553)	Minor	Some backup problems

Changes between JVCS 2.40 and JVCS 2.41

Tracker ID	Severity	Description
#3539	Minor	Fix default value for „Filter Values\Delphi Modules“
#3555	Major	A renamed module was deleted after checkout
#3596	Minor	„Add by Folder“ added all modules regardless if they were selected or not
#3609	Minor	Speed up on project closing

Tracker ID	Severity	Description
#3744	Minor	Incorrect sync of a renamed module if it was not checked in after rename
#3800	Tweak	Improve sync question "remove hidden modules"
#3830	Minor	Format %s error if Checkin and try assigning a already existing label at the same time
#4072	Minor	Speed up Project Tree view (partly)
#4079	Minor	"Open Parent Folder" does not work with folders that contain a comma
#4087	Minor	Shortcut problem in Check in/Check Out dialog
#4095	Minor	Hieroglyphics in the column "Type" in the module list in the "Project Manager" if the file doesn't exists
#4102	Minor	Fixed background color in "Add to <project>" dialog
#3954	Text	Extend information about default file families
#3677	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

Tracker ID	Severity	Description
2.40 stable 2006/01/21 – Changes between RC3 and 2.40 stable release		
#3459	minor	[IDE client] wrong project detected on checkout of modules in project groups (bpg)
#3422	minor	[IDE client] Delphi7 and higher: if a VCS connection was active, closing Delphi did hang
#3395	minor	Project tree nodes were painted in white instead of clWindow (Introduced with new JVCL version in JVCS 2.40 RC3)
#3404	tweak	Docked windows (module history/my locked modules) did not fill out client area after hiding, resizing and again showing
#3397	tweak	[IDE client] Shortcuts inside IDE can be free configured. In previous versions onlyCTRL- SHIFT was possible
#3193, #3398	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
#3381, #3380	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
#3356	feature	[Console client] new command syncprojectgroup added
#3423	minor	[IDE Client] D5 and D6: Menu shows wrong module name if form is activated and state check is enabled
#3416	minor	Labels column is not visible in Module History
#3431	minor	Hide Print/Reports... menu if jedivcsreport.dll file isn't available
#3434	minor	[IDE Client] module state in menu is sometimes wrong
#3405	major	[IDE Client] Contextmenu now also enabled for Win32 personality in BDS2006 project manager
#3453	minor	Checkin module timeout error. Timeout starts now after the command was sent to the server and not before
#3450	minor	Archive Space: project module byte or single module byte values greater than 2^31 was handled as 0
#3450	tweak	[IDE Client] IDE DLL accidently compiled with a german compiler
RC3 2005/12/18 - Changes between RC2 and RC3		
#3368	feature	[IDE client] D2005/BDS2006 Project Manager Menu integration
#3072	tweak	Diff/Compare improved performance
#3291	feature	New dockable tabsheet which shows „My locked modules“ have been added to project manager window
#3336	minor	Synch after rename module does failed with exception Error extract file:...
#3325	minor	[IDE client] Project specific files for .NET WinForms have been added to VCS (.bdsproj, .dpr)
#3319	feature	Menu option „File families“ has been removed from Modules to Tools menu

Tracker ID	Severity	Description
#3318	minor	[IDE client] Project manager always asked to add .dfm and .h files to project in C++ Builder
#3071	feature	[IDE client] D2005/BDS 2006 History View support has been added in JVCS
#3221	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.
#3269	feature	[IDE client] Project Used modules is now sortable by state
#3268	feature	Module Add by Folder is now sortable by state
#3231 , #3211	feature	Several improvements in used middleware component: - Better memory management (ReallocMem) - Autoexpand feature for faster transfer of large blobs in LAN environments
#3048	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
#3183	minor	[IDE client] Incrementation of versionno. after compilation failed for Delphi7 or higher versions
#3033 , #3156	feature	Context menu in locked modules view has been extended with the Diff/Merge function
#3108	major	User interaction is being prevented now during remove module operation
#3091	minor	Shortcut reenabled again for GetLastComment in Checkin/Checkout window
#3081 , #2308	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
#3063	minor	[IDE client] In Delphi 2005 IDE user list did throw several read errors and a 403 error
#1932	minor	[IDE client] Improvement of auto open project has been added to the IDE client
#3061	minor	[IDE client] If a file has been checked out it will being reloaded now in the IDE
#3062	minor	[IDE client] Sometimes the List of modules was not being refreshed
#2569	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.
#2916	minor	[IDE client] Shortcuts didn't work
#2913	feature	A „Don't show again in the current queue“ messagebox has been added for Label/stamp modules
#2713	feature	It is now possible to show module history in check in/check out window
#2969	minor	A problem in Source distribution with empty top level dir has been fixed
#2927	major	[IDE client] In used modules there were cases with double backslashed path endings were reported which caused errors during adding to a project
#2954	minor	Project open dialog was not being shown even if Auto open option was checked
#2480	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
#2891	minor	[IDE client] Delphi2005 and .NET problems with hardcoded file extensions (dfm/pas) have been fixed.
#2900	minor	[IDE client] Delphi2005 Win32: not all file extensions for Delphi2005 package were added
#1205	feature	File extensions are now handled more flexible to allow better integration also for non delphi IDE environments.
#3337	feature	[Console client] deletehidden switch has been added for syncproject command to remove hidden files in the file system.
#3045	feature	[Console client] Get command with option for different file location has been added
Changes between RC1 and RC2		
#2462	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
#1556	feature	Console client now supports "restore project to label"
#2857	Minor	MatchWithFilter function fixed
#2815	tweak	Problem with sync by timestamp and daylight savings (sommerzeit) fixed, see also: #2872
#2769	feature	"Get Module" (ModuleInfo.pas) dialog should provide a RevisionID property

Tracker ID	Severity	Description
#1966	tweak	project manager list needs to be refreshed after synchronize
#2782	minor	"Source Distribution" fails if at least one file exists in different directories of the project
#2768	minor	\$Keyword check in the first two lines fails for files with less than two lines
#2714	minor	turn 403 exceptions in threads into silent exceptions
#2031	minor	ide client: click in project manager module list handled as double click
#1956	feature	shortcut keys (as define in config) only work in IDE editor window, not in standalone client
#2571	major	1110846 SF Tracker - Problem with russian letters in filenames
#1048	tweak	Annoying message from TZipMaster when DataEncryption is on
#2609	minor	Refresh project manager when project changes (IDE dll)
#2470	minor	GPF in ProjAdmin.TVCSProjAdmin.GetSelectedModuleID
#2621	minor	change TDataModule1 creation and destruction in IDE DLL
#2545	tweak	module history
#2770	minor	Used components
#2852	minor	IDE Client: improve "Used Components" speed
#2825	minor	when adding modules, the exclude list not work perfect if the full file name contain more than one dot.
#2820	minor	Can not compare the difference of file when the target folder is not the Origin folder
#2516	minor	update credits and contributors in About dialog
#2806	feature	Add additional Regkey RootDir during setup
#2438	Major	1090749 SF Tracker - IDE DLL fails to load in Delphi IDE
#2359	tweak	Module History-List should show the history also when you select a module with keys
#2408	tweak	windowstate of mainform won't be restored correctly
#2254	minor	Project Open lists project the user has no rights for
#2481	minor	In options, IDE file extension are stored to wrong registry location
#2471	major	synchronice is done even if question is answered with "NO".
#2186	tweak	several TextComp("Visual Compare") changes
#2475	tweak	pressing ESC in Compare dialog closes the Sync dialog
#2454	minor	Problem with Rename Module and uppercase letters
#2529	minor	use MsgWaitForMultipleObjects to reduce the CPU load while requests
#2235	tweak	checkin: tmp files are not deleted
Changes in RC1 (first released Jvcs Client version)		
#1218	Feature	GUI client: Multiselect for projects. Allow assigning of multiple projects to a projectgroup.
#1153	Feature	Console client: It's also possible to checkin a file that is not checked out (same behaviour as in GUI client).
#1159	Feature	Console client: the hidden behavior from the gui sync is added to syncproject command.
#1160	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 entrys would be nice.
#1176	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.
#1157	Feature	IDE client: Locked modules: show the project of the locked files.
#1131	Trivial	IDE client: Skip new modules .snm never saved if Config directory doesn't exist (JediVCS.dll).
#1029	Crash	Clients: Exception on synchronisation with dual processor.
#1124	Minor	GUI client: After checking in file with zero length, project command Get/ Version history fails.
#1021	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".

Tracker ID	Severity	Description
#1019	Feature	GUI client: Module revisions can now set to be ignored in synchronice. Ignored revisions are stored in registry (HKCU).
#1116	Major	Console client: synchronisation can be configured to not overwrite checked out files of same user to not overwrite already made changes.
#1108	Feature	GUI client: An already assigned label can be moved to a (higher) revision on assigning.
#1018	Major	GUI client: Synchronice marks files as different which are locked by another program.
#0880	Major	GUI client: Clean up or remove dirty ProjectID handling in ChkIn/Out and member handling in Textcomp.
#0908	Feature	GUI client: Add modulehistory in projectmanager.
#0978	Feature	GUI client: Add access to recent projects over menu (only in standalone client).
#0903	Minor	GUI clients: Project history doesn't show changes close after midnight.
#0807	Feature	GUI clients: Project Tree\Backup Tree enhancement (selectable output structure).
#0791	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 .
#0857	Feature	GUI clients: visual diff/compare also available in Checkin windows.
#0786	Tweak	GUI clients: Some tweaks in ToDo dialog fixed
#0727	Minor	GUI clients: ThistoryList & TjvMruList replaced by TJVCSMruList.
#0723	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.
#0675	Minor	'Move Modules' items not selectable by left mouse button.
#0674	Major	'Move Modules' file list is empty when showing.
#1204	Feature	GUI clients: Allow archive compare though local file not available.
#1289	Feature	Parentfile Extension in file family definition allows now 20 chars instead of 10 chars. Needs JVCS AppServer with db version 2.41
#1781	Minor	Some problems in project history filter were fixed
#1773	Tweak	Checkin description will be locked for inputs until connection to AppServer is established
#1186	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.
#1220	Trivial	Clients: Files which are checked out by you should not get the ReadOnly Flag in Get or Sync
#1214	Feature	GUI clients: add abort to open project in project manager and the verify process in sync
#1557	Minor	Sorting the module listview by date in ProjAdmin was not working properly
#1272	Feature	Compare directories are cleaned now
#1237	Minor	Delphi7 Client Check in / Check out problem with dfm active in editor
#1061	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://issuetracker.delphi-jedi.org>.

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	http://jedivcs.sourceforge.net/
JVCS newsgroup	news://forums.talkto.net/jedi.vcs
JVCS @ SourceForge	http://sourceforge.net/projects/jedivcs
JVCS FAQ	http://jedivcs.sourceforge.net/faq.html
JVCS Bugtracker	http://issuetracker.delphi-jedi.org
JEDI homepage	http://delphi-jedi.org
JVCS wiki	http://jedivcs.sourceforge.net/mediawiki

12.1 3rd 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.

Product	License	Link
Athlant Diff	Freeware	www.athlant.com
WinMerge	GNU (OS)	http://winmerge.sourceforge.net/
CSDiff	Freeware	www.componentsoftware.de (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 3rd party diff/merge tools read the JEDI VCS onlinehelp.