



What's New in the Build Forge System Version 7.0.2 iFix3

Table of Contents

IBM Rational Build Forge What's New	1
About the Release	2
Installing this release	2
Getting the latest release notes	2
New and Updated Features	3
Fixed in This Version	4
Adaptors	4
Agent	4
API	4
Documentation	5
IDE Plug-ins	5
Management Console Engine	5
Management Console User Interface	6
Quick Reports	7
Known Issues	8
Output from pvcs commands not captured by agent on AIX	8
DISK_FREE not updated in Manifest tab for a server (Windows)	8
Files not copied when using Eclipse reflector	8
Cannot connect to Microsoft SQL Server database if a case-sensitive collation is used	9
Build Forge on Solaris hangs if file descriptor limit is set higher than 1023	9
Environments: backslash before ending quote in a variable assignment does not yield expected result	9
URL for version 7.0 notification templates might not work in later versions	10
IE6 generates Visual C++ runtime error on save of data	10
Build Forge System i agents need to change standard agent port (5555)	10
Duplicate column values not displayed in Quick Report wizard-generated reports	11
Some tool tip messages in system configuration settings are truncated	11
Quick Report titles in performance report may be truncated	11
Quick Report titles cannot contain periods	11
Not all installed components run if the Management Console is installed to NLV path	11
Output for Build Forge agent install script (install.sh) is English-only	12
Install panels for MS Visual Studio .NET for Build Forge are English-only	12
DB2 error when upgrading from version 3.8 on MySQL to 7.0.2 on DB2 Express	12
Oracle 9.x database fails with ORA-01400 error	12
Quick Report fails to start (Microsoft SQL Server and Oracle databases)	12
Management Console cannot connect to MySQL 5.0.41 database on console start (Windows only)	13
New license server ignored on upgrade	13
Inconsistencies in BOM display for large BOMs	13
Assign hidden option not hiding variable value in logs	14
Environment variable names that contain periods	14
Contacting IBM Customer Support for Rational Products	15
Downloading the IBM Support Assistant	15
Notices	16

Trademarks 17

IBM Rational Build Forge What's New

This guide lists new features and known issues, including workarounds for the issues where possible.

Before using this information be sure to read the general information under [“Notices” on page 16](#)

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About the Release

This document provides information about enhancements, resolved problems, and known issues in version 7.0.2 iFix3 of the Build Forge product.

Installing this release

Before installing this release, obtain the latest version of the *IBM Rational Build Forge Installation Guide*.

Express Edition users can use the *IBM Rational Build Forge Express Installation Guide*.

The installation guide provides detailed instructions for installing the product and upgrading from previous versions.

Important updates include information related to national language support, prerequisite software, and supported platforms and databases. Review the information in the installation guide before starting an installation or upgrade.

Getting the latest release notes

Important updates to this document may have been made since it was prepared for the product release. Download the updated edition from the IBM Publications Center, as follows:

1. Go to <http://www.ibm.com/shop/publications/order>.
2. Click **Search for Publications**.
3. In the Publications number field, enter the document number from the title page of this document.

New and Updated Features

No new or updated features are included in 7.0.2 iFix3.

Fixed in This Version

This section lists problems that have been fixed in the current release. They are identified by their APAR defect tracking numbers.

The Description text is copied directly from the internal tracking database (RATLC) and may contain spelling or grammatical errors.

Adaptors

APAR	Headline	Internal RATLC
PK66471	adaptor does not return subject and body of email within debug mode	RATLC01064918

Agent

APAR	Description	Internal RATLC
PK70870	agent fails when root is set to c:\	RATLC01264647
PK70143	Agent 7.0.2-ifix2 source kit fails to compile on non-ipv6 OS	RATLC01262916
PK70089	Job Cancel action in Console creates stranded process	RATLC01234983
PK69465	Using nmap opens bfaagent processes which don't close and use 100% CPU	RATLC01261376
PK69175	The .source env variable is not working with the iFix 2 agents	RATLC01260554
PK67083	tmp files not cleaned up after dot commands .bset and .retag	RATLC01066091
PK66247	7.0.2-ifix1 agent returns disconnect for engines prior to 7.0.2	RATLC01064422
PK65722	CPU_LOAD incorrectly calculates when evaluating dual core Xeon processors	RATLC01229397
PK65049	Windows user logoff will stop running build running as a 'service'	RATLC01061733

API

APAR	Description	Internal RATLC
PK66942	Long periods of inactivity using the API cause an error using MySQL	RATLC01065740
PK66412	The Java API does not allow updates for a users datefmt if the date format is blank	RATLC01064773
PK65967	Java Client: AccessGroup.getLdapDN returns null string	RATLC01063689
PK63469	Build Forge addStep() method does not update Project object	RATLC01058046

Documentation

APAR	Description	Internal RATLC
PK69972	DOC Switch to User needs to be documented	RATLC01262572
PK68763	.put command is overwriting previous records without warning	RATLC01259111
PK68247	Documentation on Semaphores in the online help is incorrect	RATLC01068925
PK66530	KNOWN ISSUE: when using pvcs commands, make sure the disable_transcode option is uncommented in the bfaagent.conf	RATLC01065092
PK66472	adaptor <adduser> tag only works within the <interface> block	RATLC01064925
PK55452	DOC install guide should list priv needed for windows user mode agent	RATLC01040223

IDE Plug-ins

APAR	Description	Internal RATLC
PK68631	Defect: BF 7.0.2: Running projects containing a lot of files or big files fail in the RAD/BF integration	RATLC01258712

Management Console Engine

APAR	Description	Internal RATLC
PK72846	\$TAILNORMALLOG, \$STEPNORMALLOG expand to blank in notify email	RATLC01268899
PK72494	The CQ Perl scripts in the integration directory are hex encoded	RATLC01267950
PK71070	Environments are not composed correctly (regression)	RATLC01062387
PK70848	BuildForge trying to update database column with string rather than single character	RATLC01264613
PK69580	The sync command option fails for steps which use the newer 64-nbit UUID format	RATLC01261713
PK69422	A filter added to a project using the Include feature is not exported	RATLC01261236
PK68782	Pass chains from the project level incorrectly make some BF variables BF_CALLER_CALLER	RATLC01259162
PK68572	Broadcast threaded step fails to complete if one of the steps which are threaded fails.	RATLC01258576
PK68384	.pop only returns 8k of project registers	RATLC01069353
PK68212	A server with a false active available status will prevent manifests refreshes	RATLC01068840
PK68153	Microsoft Exchange Server cannot handle the email header sent out when there are over 17 recipients	RATLC01068635

APAR	Description	Internal RATLC
PK68077	In-line serial steps called from threaded steps wait for the parent level threaded steps to complete.	RATLC01068317
PK67915	sticky chooses wrong server if first step has its own selector defined	RATLC01067977
PK67806	Importing projects with step names beginning in numbers causes steps to be uneditable until name is changed	RATLC01067780
PK67727	Pass notifies are sent out when a step fails and is set to continue on fail	RATLC01067621
PK67549	Environment variables are not properly rebuilt after restart	RATLC01067115
PK66855	.export fails for some projects only when agent tracing is off	RATLC01231092
PK66702	Intermittent delay between serial step executions - 30mins to 2hrs	RATLC01065414
PK65934	class start on entry not exported by blexport	RATLC01063570
PK65921	Clustered engines cause purge conflicts and error notifications	RATLC01229580
PK65570	Importing project fails to set correct selector for a step.	RATLC01229129
PK65278	The blexport process exports the same environment twice	RATLC01062276
PK65122	Cannot use a dot in an environment variable	RATLC01060945
PK64658	Build Forge does not correctly roll back the build tag on a failed adaptor link build	RATLC01060934
PK64321	The bfproject.pl process continues after the buildforge stop command is issued.	RATLC01059914
PK60105	Build Forge upgrade to 7.0.2 breaks existing CQ integration	RATLC01049849

Management Console User Interface

APAR	Description	Internal RATLC
PK70844	When creating a new access group, the user cannot immediately edit it and must go through root	RATLC01264579
PK70794	Not all filters are available from the drop-down menu	RATLC01235988
PK70381	Environment lists made up of variables making use of the new Expand Env Var option do not honor must change setting	RATLC01263499
PK70210	Must Change environment variables are not being highlighted in red	RATLC01263047
PK69363	An environment ariable made up of a list of variables do not substitute properly	RATLC01261112
PK69246	BF: Right pane is missing when printing from IE 7	RATLC01233988
PK68837	The collector query for MySQL pulls out duplicate rows using the DISTINCT operator	RATLC01259301
PK68066	quickReport flyouts display transparent in IE	RATLC01068278
PK67975	Step thread icon does not translate the tool tip properly	RATLC01068119

APAR	Description	Internal RATLC
PK67590	BF 7.0.2: Time Zones - job report/step logs times are ignoring Daylight Saving Time	RATLC01067215
PK67085	Users without permission to change environment variables can still do so by clicking 'Save Environment' when running projects	RATLC01231334
PK66578	Restarting a build with must change variables on SQL Server results in no cursor error	RATLC01065219
PK65960	New LDAP users do not have the date format entered in the DB	RATLC01063682
PK65787	The user interface always displays GMT for long format regardless of a user's locale	RATLC01063269
PK65048	QR performance rep should list adapter link step seperately instead of adding duration to first step run time	RATLC01061675

Quick Reports

APAR	Description	Internal RATLC
PK68066	quickReport flyouts display transparent in IE	RATLC01068278
PK65048	QR performance rep should list adapter link step seperately instead of adding duration to first step run time	RATLC01061675

Known Issues

This section describes issues that remain open in this release at production time.

Output from pvcs commands not captured by agent on AIX

A step containing a pvcs command may not capture all of the expected output if it is run by an agent on AIX.

Workaround:

Uncomment `disable_transcode` in `bfagent.conf` for the agent.

DISK_FREE not updated in Manifest tab for a server (Windows)

On Windows systems, the DISK_FREE property is not updated in the Manifest tab after clicking **Test Connection** or clicking **Refresh** on the manifest tab. In the Management Console, click **Servers**, then click an individual server, then click the **Manifest** tab. The DISK_FREE property appears in the properties displayed if it was defined for the server. If the free disk space on the server changes, then clicking **Test Connection** or **Refresh** should cause the value to be updated.

Workaround:

Click on a tab other than **Manifest** for the server, then click **Manifest** again.

Files not copied when using Eclipse reflector

Issue: a selected file is not copied over.

Workaround:

When selecting files, select all directories from the root to the file location in addition to the file itself.

For example, if you want to reflect the file `APIException.pm` and it is located in the path `perl/BuildForge/Ex`, you must check all of these names in the file tree:

- perl
- BuildForge
- Ex
- APIException.pm

If you check `APIException.pm` but do not check its parent directories up to the root, then the file is not copied.

Cannot connect to Microsoft SQL Server database if a case-sensitive collation is used

If a Build Forge database on Microsoft SQL Server is created using a case-sensitive collation, Build Forge fails during startup with the following error:

```
C:\Program Files\BuildForge>BuildForge -d
DBD::ODBC::st execute failed: [Microsoft][ODBC SQL Server Driver][SQL Server]Invalid object
name 'information_schema.tables'. (SQL-42S02)
[Microsoft][ODBC SQL Server Driver][SQL Server]Statement(s) could not be prepared.
(SQL-42000)(DBD: st_execute/SQLExecute err=-1) at /PerlApp/BuildForge/DB/Handle.pm line
211.
```

```
8808 /PerlApp/BuildForge/DB/sqlserver.pm(BuildForge::DB::sqlserver):42
```

```
8808 /PerlApp/BuildForge/DB/Handle.pm(BuildForge::DB::Handle):413
```

```
8808 /PerlApp/BuildForge/DB/ConnectionHandler.pm(BuildForge::DB::ConnectionHandler):34
```

Workaround: use a case-insensitive collation, such as the default: `SQL_Latin1_General_CP1_CI_AS`.

Build Forge on Solaris hangs if file descriptor limit is set higher than 1023

Build Forge on Solaris can hang while trying to acquire a license due to a known issue in the Rational License Server.

To determine the file descriptor limit, use the following command:

```
ulimit -n
```

Workaround: set the file descriptor limit to 1023 or lower. If you do this while Build Forge is hanging, the license server corrects itself and Build Forge acquires a license immediately.

Environments: backslash before ending quote in a variable assignment does not yield expected result

In a variable assignment (`.bset env`) there are unexpected results if the last character before the ending quote is a backslash. This true even if preparsing is turned off (`_NO_PREPARSE_COMMAND` is true). Example from step execution log:

```
195 01/28/08 03:45PM STEP .bset env "VAR07=C:\ "
196 01/28/08 03:46PM EXEC .bset env 'VAR07' = ''
```

Workaround: put a space before the ending quote. Example from step execution log:

```
187 01/28/08 03:45PM STEP .bset env "VAR032=C\ "
188 01/28/08 03:45PM EXEC .bset env 'VAR032' = 'C:\'
```

URL for version 7.0 notification templates might not work in later versions

The notification template URL provides a link in the notification e-mail to the build report in Build Forge.

In version 7.0.1, the URL in the notification templates changed. Consequently, when you upgrade from 7.0 to any later version, the notification template URL links might not work.

If you experience a link error, make the following changes to the notification templates:

1. Select Project > Templates.
2. Click on the notification template to display its properties on the Details tab.
3. In the Body field, locate the URL for the template. The URL should be similar to the one in the following example:

```
http://${CONSOLEHOST}:${CONSOLEPORT}/fullcontrol/index.php?mod=projectruns&action=edit&bfid=${PID}&bfid=${BID}&bfid=${UID}
```

4. Replace the following 7.0 URL elements with the appropriate 7.0.1 (and later) URL elements:

7.0 URL elements	7.0.1 (and later) URL elements
projectruns	jobs
&	&

IE6 generates Visual C++ runtime error on save of data

Internet Explorer 6 users may see a Visual C++ runtime error if the Google toolbar is installed.

As a workaround, in IE go to Tools > Internet Options > Advanced and the uncheck the "Enable third party browser extensions" option.

Build Forge System i agents need to change standard agent port (5555)

The standard Build Forge agent port (5555) may be preassigned on a System i server. In this case, change the Build Forge agent port to an unassigned port before starting the agent. You can edit the BFAgent.conf file directly or use another method to change the port. For details, see the installation guide.

This problem will be fixed in a future release of the product.

Duplicate column values not displayed in Quick Report wizard-generated reports

In wizard-generated reports, column values are not displayed if they duplicate or match the column value of the previous record. This display convention makes it look like report data is missing when it is not.

This problem is due to a limitation in the Eclipse reporting tool, BIRT. In a future product release, the ability to hide or display duplicate column data will be provided.

Some tool tip messages in system configuration settings are truncated

This display problem is due to a limitation in Mozilla Firefox. Presently, there is no workaround. The problem will be addressed in a future product release.

Quick Report titles in performance report may be truncated

Because of a dynamic chart sizing issue in the current version of the Eclipse reporting tool BIRT, performance report titles may be truncated. Presently, there is no workaround. The problem will be addressed in a future product release.

Quick Report titles cannot contain periods

When you create a report, you must specify a title. If your report title contains a period, an error is generated and the report is not created.

Do not include periods in your report titles.

Not all installed components run if the Management Console is installed to NLV path

Do not use national language characters in the installation directory path name that you specify for the Management Console. Problems with the installer prevent Build Forge from installing correctly. Use US-ASCII characters only for the installation directory path. This problem will be addressed in a future product release.

Output for Build Forge agent install script (install.sh) is English-only

If you install the Build Forge agent on a host with an operating system language other than English, for example French on AIX, the output from the install script is in English. This issue will be addressed in a future product release.

Install panels for MS Visual Studio .NET for Build Forge are English-only

The installation panels for installing and setting up MS Visual Studio .NET 2005 for Build Forge are not internationalized. The panel text is English only.

DB2 error when upgrading from version 3.8 on MySQL to 7.0.2 on DB2 Express

If you migrate from version 3.8 with MySQL database to version 7.0.2 with DB2 Express, you run the bfdbmigrate script to migrate the database.

When you restart the Build Forge engine, the migrated database is started up. You might see a DB2 ALTER TABLE error.

Ignore the DB2 ALTER TABLE error; it is caused by an error in the Build Forge upgrade procedure. The upgrade procedure will be deprecated in a future release of the product.

Workaround: migrate to version 7.0 or 7.0.1, then migrate version 7.0.2.

Oracle 9.x database fails with ORA-01400 error

The following error occurs only if the Management Console is using an Oracle 9.x database, the DBD::Oracle driver, and the ora_ph_type parameter is set to a value that strips trailing blanks.

```
DBD::Oracle::st execute failed: ORA-01400: cannot insert NULL  
into( "BLDFORGE"."BF_RESULT"."BF_ENV" )
```

To fix the error, do the following:

Set the ora_ph_type parameter. The value for ora_ph_type in *<bf-install>/db.ini* must be set to a value that does not cause the driver to strip trailing blanks. The setting ora_ph_type=96 is recommended. If set to a value that strips trailing blanks (for example, SQL_VARCHAR), you will receive an error. The problem does not occur with Oracle 10.

Quick Report fails to start (Microsoft SQL Server and Oracle databases)

Limitations in JDBC drivers cause the following requirements:

- Oracle: the database name and SID must use the same value (tnsnames.ora)
- Microsoft SQLServer: in an ODBC driver, the Database Name and Data Source Name must use the same value.

If these requirements are not met, the Quick Report reporting feature does not work. The requirements are documented in *Build Forge Installation Guide*.

Management Console cannot connect to MySQL 5.0.41 database on console start (Windows only)

If Management Console fails to start and connect to the database, it might be caused by an error in the `libmysql.dll` file. To determine this, open the `php_error.log` file located in `C:\<BF_installationdir>\Apache\logs`. If the following error message is present, the error is in `libmysql.dll`.

```
PHP Warning: PHP Startup: Unable to load dynamic library 'C:\Program Files\BuildForge\Apache\php\ext\php_mysql.dll' - Invalid access to memory location.
```

To fix the problem in `libmysql.dll`, download and copy a new version, as follows:

1. Download `mysql-noinstall-5.0.41-win32.zip` from the MySQL Web site, for example:
<http://www.mysql.org/get/Downloads/MySQL-5.0/mysql-noinstall-5.0.41-win32.zip> from <http://mirror.xl0.com/mirror/mysql/>
2. In the zip file, locate `\mysql-5.0.41-win32\lib\debug\libmysql.dll`.
3. Stop MySQL.
4. Copy `libmysql.dll` to the `<mysql_installdir>\bin` directory.
5. Start MySQL.
6. Restart the Management Console.

New license server ignored on upgrade

If you enter a different host name for the license server on an upgrade install than you entered when the Management Console was first installed, the installation program ignores the new value.

Workaround:

Do not attempt to change the license server during upgrade. To change the license server once the system is installed or upgraded, follow the instructions in the Installation Guide: Installing the License Server > Changing the License Server to Use.

Inconsistencies in BOM display for large BOMs

If the BOM for your project is large, you may notice that the category names for a section might not be displayed correctly.

Assign hidden option not hiding variable value in logs

If you select the Assign Hidden property when you create a variable, the variable value is displayed in the step log instead of being masked with asterisk (*) characters.

Note

If you export a project, variables with the Assign Hidden property are shown in cleartext in the exported XML file.

This problem will be fixed in a future release of the product.

Environment variable names that contain periods

If an environment variable name contains a period, attempts to reference that variable name in another variable fail. Shell-command parsing works differently on different platforms, which makes finding a uniform fix difficult.

Workaround on Windows platforms only:

1. Set an environment variable to the value of the variable name you want.

```
Name: tmp_var      Value: Version_1.1
```

2. Within a step, use the variable as the variable-name portion of an assignment.

```
set $tmp_var = 7
```

When the job runs, a variable `Version_1.1` is created with the value `7`.

Contacting IBM Customer Support for Rational Products

If you have questions about installing, using, or maintaining this product, contact IBM Customer Support as follows:

The IBM software support Internet site provides you with self-help resources and electronic problem submission. The IBM Software Support Home page for Rational products can be found at <http://www.ibm.com/software/rational/support/>.

Voice Support is available to all current contract holders by dialing a telephone number in your country (where available). For specific country phone numbers, go to <http://www.ibm.com/planetwide/>.

Note

When you contact IBM Customer Support, please be prepared to supply the following information:

- Your name, company name, ICN number, telephone number, and e-mail address
- Your operating system, version number, and any service packs or patches you have applied
- Product name and release number
- Your PMR number (if you are following up on a previously reported problem)

Downloading the IBM Support Assistant

The IBM Support Assistant (ISA) is a locally installed serviceability workbench that makes it both easier and simpler to resolve software product problems. ISA is a free, stand-alone application that you download from IBM and install on any number of machines. It runs on AIX, (RedHat Enterprise Linux[®] AS), HP-UX, Solaris, and Windows[®] platforms.

ISA includes these features:

- Federated search
- Data collection
- Problem submission
- Education roadmaps

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