

## Infobright Community Edition 4.0.5 GA

23 November 2011

### New Features

*Infobright® Community Edition 4.0.5* contains fixes for several issues identified in earlier releases and performance improvement for queries returning large amounts of data. The ICE 4.0.5 build number is **IB\_4.0.5\_r15240\_15370**. This is a windows and linux release only.

### About ICE

ICE is an open source software solution designed to deliver a scalable data warehouse optimized for analytic queries. The architecture delivers the following key benefits:

- Ideal for data volumes up to 50TB
- Market-leading data compression (from 10:1 to over 40:1), which drastically reduces I/O (improving query performance) and results in significantly less storage than alternative solutions
- No licensing fees
- Fast response times for ad hoc analytic queries
- Query and load performance remains constant as the size of the database grows
- No requirement for specific schemas, e.g. Star schema
- No requirement for materialized views, complex data partitioning strategies, or indexing
- Simple to implement and manage, requiring little administration
- Reduction in data warehouse capital and operational expenses by reducing the number of servers, the amount of storage needed and their associated maintenance costs, and a significant reduction in administrative costs
- Runs on low cost, off-the-shelf hardware
- Is compatible with major Business Intelligence tools such as Pentaho, JasperSoft, Cognos, Business Objects, and others

ICE is designed to run high-performance ad hoc, complex queries on very large data sets without the need of manual tuning, data partitioning, or index creation.

### Upgrade Issues

1. Due to a known MySQL issue with the embedded version of MySQL 5.1.40 GA, it is recommended you run the MySQL Updater program after any upgrade to avoid issues with stored procedures or table structures. Please see the revised **Upgrade Instructions** below.
2. The enable UTF-8 flag (`UseCharset = 0/1`) is no longer needed and if present, must be removed from the `brighthouse.ini` file. For table structures created prior to ICE 3.3.2 the Charset Migration Tool (CHMT) should be run during upgrade. Please see the revised **Upgrade Instructions** below.
3. The MySQL Query cache should be disabled before the upgrade. It can be switched on after the Upgrade.

## Upgrade Instructions

The upgrade instructions are also available online at:

Windows: [http://www.infobright.org/wiki/Upgrade\\_Guide\\_for\\_Windows/](http://www.infobright.org/wiki/Upgrade_Guide_for_Windows/)

Linux: [http://www.infobright.org/wiki/Upgrade\\_Guide/](http://www.infobright.org/wiki/Upgrade_Guide/)

**Note: For only upgrading table structures created prior to ICE 3.3.2 please refer to page 4 for special instructions to follow after the regular upgrade process. This is only required for table structures created prior to ICE 3.3.2. These instructions supersede anything mentioned in the User Guide.**

### Windows Upgrade Instructions

1. Please follow the standard ICE Windows installation instructions. The Install Wizard automatically detects a previous version of ICE and upgrades your ICE installation while preserving your data and configuration settings. The install procedure automatically runs the Configuration Manager.

The installation instructions are in the User Manual and available on the Customer Portal at:

[http://www.infobright.org/wiki/Install\\_Guide\\_for\\_Windows/](http://www.infobright.org/wiki/Install_Guide_for_Windows/)

2. Start ICE from the Start Menu items.
3. Create or ensure that the directory `c:\tmp` exists (necessary for step 6)
4. Run the MySQL Upgrade utility from the Windows command line:

```
cd "C:\Program Files\Infobright\bin"  
mysql_upgrade.exe --defaults-file="c:\Program Files\Infobright\my-  
ib.ini" -uroot --tmpdir=c:\tmp
```

**Important:** The MySQL Upgrade utility may display several errors regarding the use of locks with log tables and errors requiring table upgrades. The errors are all handled automatically by Infobright and/or the upgrade utility and can be ignored.

5. Stop and start ICE from the Start Menu items.
6. Run `Infobright_upgrade.bat` script to create Domain Expert related stored procedures.

### Linux Upgrade Instructions

These instructions are for upgrading using the RPM or DEB package. To upgrade a tar install, please see:

[http://www.infobright.org/wiki/Tar\\_Upgrade\\_Guide/](http://www.infobright.org/wiki/Tar_Upgrade_Guide/)

1. Run either (as **user root**):

```
rpm -U infobright-version-platform.rpm  
dpkg -i infobright-version-platform.deb
```

**2. Start the Infobright server:**

```
/etc/init.d/mysqld-ib start
```

**3. Run mysql upgrade tool to upgrade data folder:**

```
./bin/mysql_upgrade --defaults-file=/etc/my-ib.cnf --user=root --  
tmpdir=/tmp
```

**Important:** The MySQL Upgrade utility may display several errors regarding the use of locks with log tables and errors requiring table upgrades. The errors are all handled automatically by Infobright and/or the upgrade utility and can be ignored.

**4. Re-start the Infobright server:**

```
/etc/init.d/mysqld-ib restart
```

**5. Run Infobright\_upgrade.sh script passing required user/password parameters to create Domain Expert related stored procedures.**

**\*\*\*\*\*Special instructions only for upgrading table structures created prior to ICE 3.3.2\*\*\*\*\***

These instructions are ONLY for users with table structures created prior to ICE 3.3.2

**You MUST NOT run this step if you are at ICE 3.3.2 or above otherwise it may cause data corruption.**

**After upgrading please run the Charset Migration Tool.**

**1. Stop the Infobright server from the Start Menu items.**

**2.**

Windows: Run the Charset Migration Tool from the Windows command line:

```
cd "C:\Program Files\Infobright\bin"  
chmt.exe --datadir=\absolute\path\to\data\directory
```

Linux: Run the Charset Migration Tool (as **user mysql**):

```
cd /usr/local/infobright/  
./bin/chmt --datadir=/absolute/path/to/data/directory
```

**3. Start the Infobright server from the Start Menu items.**

### Supported Platforms

ICE is available on the following platforms for 64-bit Intel or 64-bit AMD:

- Windows Server 2008/2003

- Red Hat Enterprise Linux 5
- Debian 'Lenny'
- CentOS 5.2

ICE is also available on the following platforms for 32-bit Intel or 32-bit AMD: (for solution testing purposes only, not recommended for performance testing or production deployments):

- Windows XP
- Ubuntu 8.04
- Fedora 9

## **System Requirements**

### For Personal Evaluation and/or Application Development

CPU Speed	32-bit: 1.6GHz minimum 2.0GHz or faster dual or quad core recommended
	64-bit: 1.8GHz minimum 2.0GHz or faster dual or quad core recommended
Memory	32-bit: 1GB minimum 2GB or more recommended
	64-bit: 2GB minimum 4GB or more recommended

### For Multi-User Evaluation or Production Deployment

CPU Speed	64-bit: 2.0GHz minimum 2.0GHz or faster dual or quad core recommended
Memory	64-bit: 8GB minimum 32GB or more recommended (and at least 2GB per core)

## **Download ICE**

<http://www.infobright.org/Downloads/ICE/>

## **Installation Instructions**

Windows: [http://www.infobright.org/wiki/Install\\_Guide\\_for\\_Windows/](http://www.infobright.org/wiki/Install_Guide_for_Windows/)  
Linux: [http://www.infobright.org/wiki/Install\\_Guide\\_for\\_Linux/](http://www.infobright.org/wiki/Install_Guide_for_Linux/)  
MacOS (VM): [http://www.infobright.org/wiki/Install\\_Guide\\_for\\_Mac\\_OS/](http://www.infobright.org/wiki/Install_Guide_for_Mac_OS/)

## **Upgrade Instructions**

Windows: [http://www.infobright.org/wiki/Upgrade\\_Guide\\_for\\_Windows/](http://www.infobright.org/wiki/Upgrade_Guide_for_Windows/)  
Linux: [http://www.infobright.org/wiki/Upgrade\\_Guide/](http://www.infobright.org/wiki/Upgrade_Guide/)

### Issues Fixed in ICE 4.0.5 GA

The following issues have been fixed and verified since the release of ICE 4.0.4 GA

- #2001 Data loss during export to file
- #2015 Version 3.5.2 returns duplicates on GROUP BY and DISTINCT
- #2079 bhloader hangs
- #2085 Server crash on query
- #2099 Error: TrackableObject locked too many times

### Known Issues

For the full list of known and closed issues, please visit <http://bugs.infobright.org/>

The following is a partial list.

Ticket	Description
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- |       |  |
|-------|--|
| #2017 | Inconsistent result returned (Solaris 3.5.2 IEE Major Fault)   |
| #2019 | Problem with import value '-0' to float/double datatype columns if this value is in first row.       |
| #2020 | Query runs slow on Solaris   |
| #2027 | LOAD DATA LOCAL in Win32 is Hanging when full path to file not specified                             |
| #2032 | Windows 64K limit for LOAD DATA LOCAL INFILE   |
| #2034 | string modifier functions (at least lower/upper) in group, order or join cause query go MySQL engine |
| #2038 | LOAD DATA LOCAL Fails to load Sample File  |
| #2042 | GLIBC Issues when Installing ICE on latest Ubuntu  |
| #2043 | Support for Group_Concat Function  |
| #2044 | No server name in bcp commands (ICE Breaker for SQL server)  |
| #2045 | table corruption - query return wrong result   |
| #2047 | Low compression ratio on numeric data  |
| #2048 | Lost connection to MySQL server during query   |
| #2051 | Fields escaped by '\\\' not working when exporting data  |
| #2052 | disk space is not cleaned up after deletion  |
| #2053 | rpm shouldn't remove files that has been modified after install                                      |
| #2054 | rpm scripts to NEVER modify ANY existing configuration files   |
| #2056 | Test ticket to push to rally, please ignore it.  |
| #2058 | Sort Order inconsistent within UTF8  |
| #2060 | remove warnings when empty table is detected   |
| #2062 | Execute Query Mix of Variable and Table through Optimizer  |
| #2063 | 2011_06_27_ICE_Quick_Start.pdf Should Include 64-bit Windows in List for Which ICE Is Optimized      |
| #2067 | Upgrade script exposes password security   |
| #2069 | Compactor file removal slowdown the system   |
| #2071 | alias column in a view which is in a subquery make IB switch to mysql engine                         |
| #2072 | IB key bindings  |
| #2075 | Infobright Community Edition 4.0.3 User Guide mentions IEE commands                                  |

- #2076 mysqldump doesn't work
- #2077 Documentation: Page number references in 4.0.3 ICE guide incorrect
- #2078 Feature Request: Govern cache resource usage to avoid concurrency issues
- #2080 End User Docs: DomainExpert Corrections
- #2082 bhloader doesn't report error on a load file created in dos
- #2083 Certain joins crash IB 4.0.3
- #2084 Wrong decomposition in Domain Expert
- #2088 ERROR 1105 (HY000): Brighthouse other specific error
- #2089 Document error: Infobright Community Edition 4.0.3 User Guide Page 35 Image
- #2090 Document error: (lookup limitation should be removed.)
- #2091 Document error: (Win64 not included in optimized platform)
- #2092 Failure on SELECT INTO OUTFILE
- #2093 Control output to brighthouse.log
- #2094 Query very slow (hang) when using length function
- #2096 limit 0 should only perform syntax check and data type check.
- #2098 Column with incorrect data loaded into 4.0.3
- #2100 Official documentation requested for unsupported tarball
- #2106 Rename table Bug

#### **ICE Resources**

- Community Website <http://www.infobright.org/>
- Community Wiki <http://www.infobright.org/wiki>
- Community Forum <http://www.infobright.org/Forums>
- FAQ <http://www.infobright.org/Resources/FAQ/>
- Bugs/Requests <http://bugs.infobright.org/>