

Firebird Development and Release Plan

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The Firebird Project
<http://www.firebirdsql.org>

This Year Releases

- **Done**
 - ◆ 1.5.4
 - ◆ 2.0.1
 - ◆ 2.0.2 and 2.0.3
 - ◆ 2.1 Alpha and two Betas
- **To Do**
 - ◆ 1.5.5
 - ◆ 2.0.4
 - ◆ 2.1 Release Candidate
 - ◆ 2.1 Final

Firebird 2.1

- **Features**
 - ◆ Database triggers
 - ◆ Text BLOB enhancements
 - ◆ MERGE statement
 - ◆ Global temporary tables
 - ◆ CTE and recursive queries
 - ◆ Monitoring tables
 - ◆ Query cancellation
 - ◆ Native authentication on Windows
 - ◆ Unicode collations and other INTL improvements
 - ◆ Optimized network protocol
 - ◆ About 50 new built-in functions
 - ◆ 64-bit Windows builds
 - ◆ Countless bugfixes

Development Priorities

- **Bugfixing**
- **SMP and multi-core capabilities**
- **SQL features**
- **Monitoring capabilities**
- **Optimizer enhancements**
- **Internal performance optimizations**
- **Security**
- **Porting to other platforms**

Maintenance

- **1.5**
 - ◆ Security fixes
 - ◆ Trivial generic bugfixes
 - ◆ Release 1.5.5 in Q4 2007
 - ◆ Follow-ups at least once a year
- **2.0**
 - ◆ All kinds of bugfixes
 - ◆ Performance improvements
 - ◆ Porting efforts
 - ◆ Release 2.0.4 in Q4 2007 - Q1 2008
 - ◆ Follow-ups at least twice a year

Current Development

- **Branch 2.0**
 - ◆ Bugfixing and porting
- **Branch 2.1**
 - ◆ Bugfixing
 - ◆ New features are being completed
- **Branch 3.0**
 - ◆ MT-safety, merge with Vulcan
 - ◆ New features
 - ◆ Performance improvements
 - ◆ Code cleanup

Branch 2.0 Activity

- **Bugfixing**
 - ◆ About 50 bugs fixed per every point release
 - ◆ Performance regressions are solved
 - ◆ Backward compatibility options are considered
- **Porting**
 - ◆ Solaris Sparc and Intel
 - ◆ MacOS Intel
 - ◆ AIX
 - ◆ HP-UX

Branch 2.1 Activity

- **Features and bugfixes**
 - ◆ About 70 new features and improvements
 - ◆ More than 150 bugfixes
- **Current State**
 - ◆ Beta 2 has just been released
 - ◆ Feature-freeze mode
 - ◆ Release Candidate 1 is next

Branch 3.0 Activity

- **Step 1**
 - ◆ Multi-threading with private caches
 - ◆ Efficient in-process lock management
- **Step 2**
 - ◆ Shared page cache
 - ◆ Unified architecture (single set of binaries)
 - ◆ Per-database configuration
 - ◆ Server- or database-level authentication
 - ◆ SQL-based user management
- **Step 3**
 - ◆ Shared metadata cache
 - ◆ Compiled statements cache

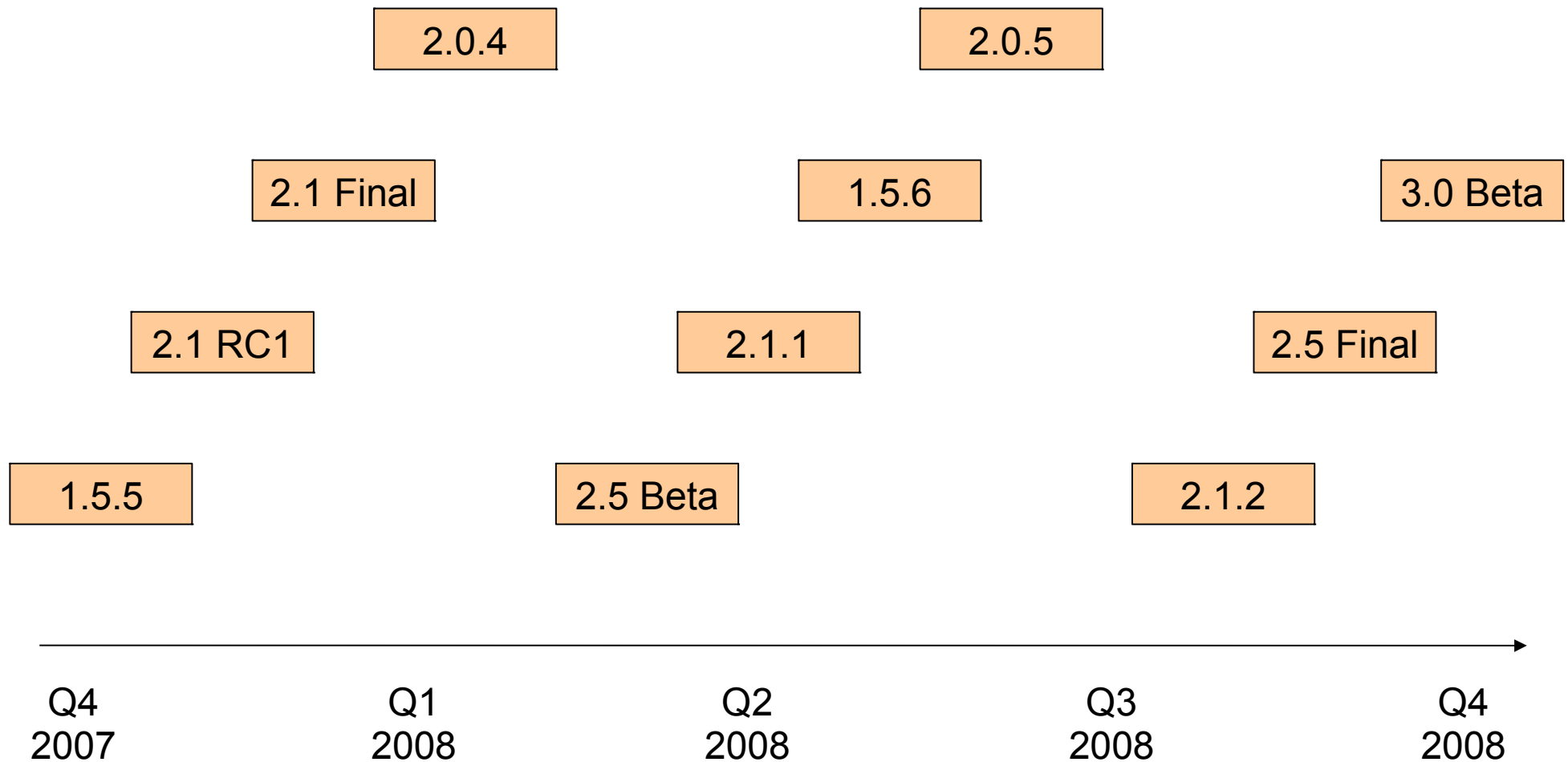
Firebird 2.5

- **Strategy**
 - ◆ “Release often” is still in game
 - ◆ Vulcan merge: revolution vs evolution
- **Performance and scalability**
 - ◆ Multi-threading
 - ◆ Various internal optimizations
- **Features**
 - ◆ TYPE OF COLUMN <table name>.<column name>
 - ◆ ALTER VIEW
 - ◆ Monitoring extensions
 - ◆ External procedures

Firebird 2.5

- **Other possible features**
 - ◆ Merge with SAS enhancements
 - ◆ Bulk-load facilities
 - ◆ Cross-database queries
 - ◆ SQL functions
 - ◆ Database encryption
- **Schedule**
 - ◆ Beta version in Q1 2008
 - ◆ Final release in Q4 2008

Firebird Release Plan



Questions?