What is new in .NET provider

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About .NET provider for Firebird

- Native implementation on Firebird wire protocol
  - No client library needed
  - Wherever you compile C# code, you can use it
- Written in C#
- Firebird Embedded supported
  - Through P/Invoke
- Available for MS.NET (2.0 – 4.0), Mono
- Additional pieces: DDEX, WebProviders, …
Some numbers

* FirebirdSql.Data.FirebirdClient.dll (Release)
  * Maintainability Index: 81
  * Lines of Code: 11044

* Cyclomatic Complexity: 6163
* Depth of Inheritance: 5
* Class Coupling: 503
Releases

* In last year two releases
* 2.6.0 (http://blog.cincura.net/id/232192)
  * 18.11.2010
* 2.6.5 (http://blog.cincura.net/id/232424)
  * 3.6.2011
2.6.0

* .NET 4 Client Profile support
* Entity Framework 4 support
* Command cancellation support
* Support for UTF8 filenames
Support for Trace API in Firebird 2.5.

Improvements in SQL generation for Entity Framework.

Support for commands logging.

Slightly faster command execution of big queries.

And a lot of small code improvement making it more stable...
Ability to cancel running command on server
- New feature of Firebird 2.5
- Added support to execute command on background
- Cancellation can be „disabled“
TraceAPI

- Tracing commands/actions being done on server
  - New feature of Firebird 2.5
- Full configuration
  - Export to string
- Stream of lines
  - Hard to parse
  - Session ID parsing
NuGet

- Provider available on NuGet
- NuGet is „packaging“ infrastructure
- Automatic updates, dependencies etc.
- Right now only .NET 4 version
* Bigger prepare buffer
  * 32k (fbclient)
  * Faster big commands execution
* `op_disconnect` sending
  * Helps server to manage resources
* Mono charsets 😊
* Command tracing
  * Revisit? Other options...
* Bug fixes
  * Garbage collection/Disposing
* Entity Framework SQL generation fixes
* Code cleanup