A year in the life of .NET provider

Jiri Cincura
jiri@cincura.net
http://blog.cincura.net
A year

- Or two actually
  - Last conference 2012
- A lot of changes in (ADO).NET world
- A lot of changes in .NET provider as well
* 49 tickets solved
  * [Link](http://tracker.firebirdsql.org/secure/IssueNavigator.jspa?reset=true&&pid=10003&resolution=1&updated%3Aafter=26%2FOct%2F12&sorter/field=issuekey&sorter/order=DESC)

* 87 tickets still open 😞

* Bunch of new features (or reworked)

* 11 versions released
  * 4.5.1.0, 4.5.0.0, 4.2.0.0, 4.1.5.0, 4.1.0.0, 4.0.0.0, 3.2.0.0, 3.1.1.0, 3.1.0.0, 3.0.2.0, 3.0.1.0
Code

- Code now in Git
  - SourceForge + GitHub mirror
- Contributions in higher gear
- NuGet primary source
  - Main focus
Good bye

* .NET 3.5 support
  * Helped to cleanup codebase a bit
* .NET Compact Framework
  * Anybody remembers? 😊
Nbackup

- Classes FbNBackup and FbNRestore
- Via Service Manager
FbBackup

- Classes FbStreamingBackup and FbStreamingRestore
- No verbose output for backup
  - Channel used for data
* NuGet package EntityFramework.Firebird
* Sets up [app|web].config for you
* For Code First you’re ready to go
* For EDMX you need DDEX to create connection
  * Only design time
* Migrations soon
New connection pooling

- Old connection pooling was leaking
  - Under pressure
- Lock free for different pools operations
- Fast in low contention scenario in one pool
- Correct
  - Hopefully 😊
Events

* Something was/is lost somewhere
  * Only some scenarios
  * Race condition
* 3 people, 3,5 days (SMS-Timing)
  * Originally problem surfaced under pressure in 3-11 minutes
  * Now couple of hours without it
* Still some dark places there
Small stuff

* Support for sweep and error events in Trace API
* Integrated auth on 64-bit OS
* TimeStamp fixes on Embedded [zabulus]
* Pointer fixes on Embedded [zabulus]
* Connection with isc_dpb_no_garbage_collect [cafee]
* Cooperated on Dapper support
* EF6 support when starting from scratch
* DateTimeOffset support
* Parsing improvements in FbBatchExecution
* NRE on FbCommand.Dispose in finalizer