What's new in .NET driver for Firebird

Jiří Činčura

www.tabsoverspaces.com

[@cincura_net](https://twitter.com/cincura_net)

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Summary

- (last conference 2016)
- 140 tickets solved
- 22 releases
  - 2 major releases
  - 7.1.1, 7.1.0, 7.0.0, 6.7.0, 6.6.0, 6.5.0, 6.4.0, 6.3.0, 6.2.0, 6.1.0, 6.0.0, 5.12.1, 5.12.0, 5.11.0, 5.10.0, 5.9.1, 5.9.0, 5.8.1, 5.8.0, 5.7.0, 5.6.0, 5.5.0
- A lot of changes in (ADO).NET world
- A lot of changes in .NET provider as well

Providers

- Expansion of "providers" provided
- ADO.NET provider
  - .NET 4.5+, .NS 2.0 (was .NET FW 4 and NS1.6)
- Entity Framework 6 provider
  - .NET 4.5+, NS2.1 (planned for EF6.3)
- Entity Framework Core provider
  - NS2.0, NS2.1 (planned for EFCore 3.0)
- DDEX
  - Still behind Visual Studio 2017 and 2019

Code

- Code hosted on GitHub
- CI builds
  - Azure Pipelines (free for OSS)
  - Hosted TeamCity (JetBrains sponsored for OSS projects)
- ~45k LOC across all providers (tests excluded)

Notable new features/changes

- .NET Core support
- Entity Framework Core support
- GUID representation changes
- Pooling
    - Idle connections, broken connections
- Wire encryption
- Encrypted databases support
- Backup/Restore stats
- URL-style connection strings
- Full IPv6 support
- Logging rework
- Explain plan
- Default character set UTF8
- SPB expected DB
- Performance (allocations, loopback fastpath on Win8/2012)

Demo

Q & A