Firebird replication with CopyCat

CopyCat Replication Engine

http://www.copycat.fr
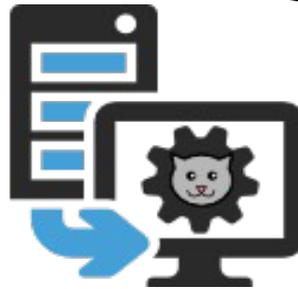
Jonathan Neve

# Thanks to conference sponsors !

About myself

- Jonathan Neve, Microtec Communications

- Software development company in France

- Using Firebird since IB 5

- Developer of a database replication solution, CopyCat, since 2004

Firebird replication

- No built-in replication for Firebird
- Various third-party offerings
- Our solution : CopyCat
  - CopyCat Developer
  - CopyCat LiveMirror
  - Coming soon : CopyCat DataMerge
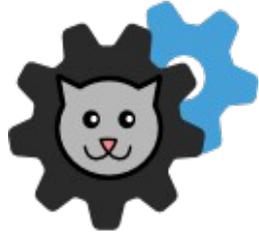
CopyCat Developer

- Delphi component library

- Main features :

  - Multi-database replication

    – Supports Firebird, Interbase, MySQL, Microsoft SQL, Oracle, PostgreSQL, SQLite and NexusDB

    – Can mix and match between all combinations

 - Easy to configure and personalize

  - Flexible conflict management
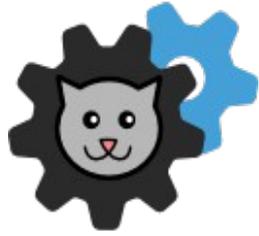
CopyCat Developer

- Reliable and secure replication using various transport layers :

    - XMLRPC

    - RTC (http://www.realthinclient.com)

    - DataSnap

- Server-side backends for Delphi, PHP, Java and objective-c

New in 2014

- Support for new database types :
  - Oracle
  - PostgreSQL
  - NexusDB
- FireMonkey support (iOS / Android)
- Lots of minor improvements and bug fixes
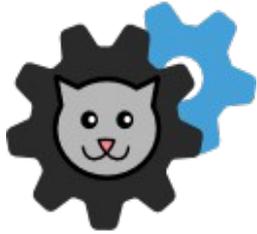
Case study

- Stock / quality management system for apple orchards

- Delphi FireMonkey application running on Android tablets

- Specifications :

  - Stock information and photos taken on tablets and stored in SQLite an database on the device

  - General information (lists of apple varieties, producers, etc) typed in and stored on server in FB database
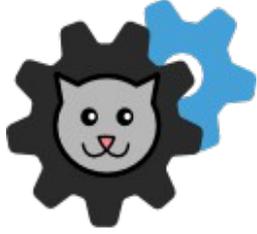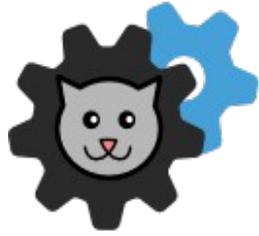
Case study

- General information comes down from the server to the tablets

- Information about stock replicates up from tablets to server

- Some tables are replicated both ways and so conflicts can potentially occur

- Replication takes place using DataSnap, thus enabling over-the-wire compression and/or encryption
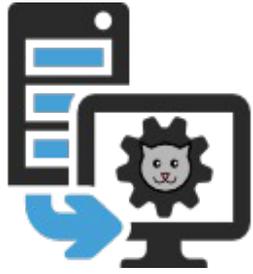
Demo !
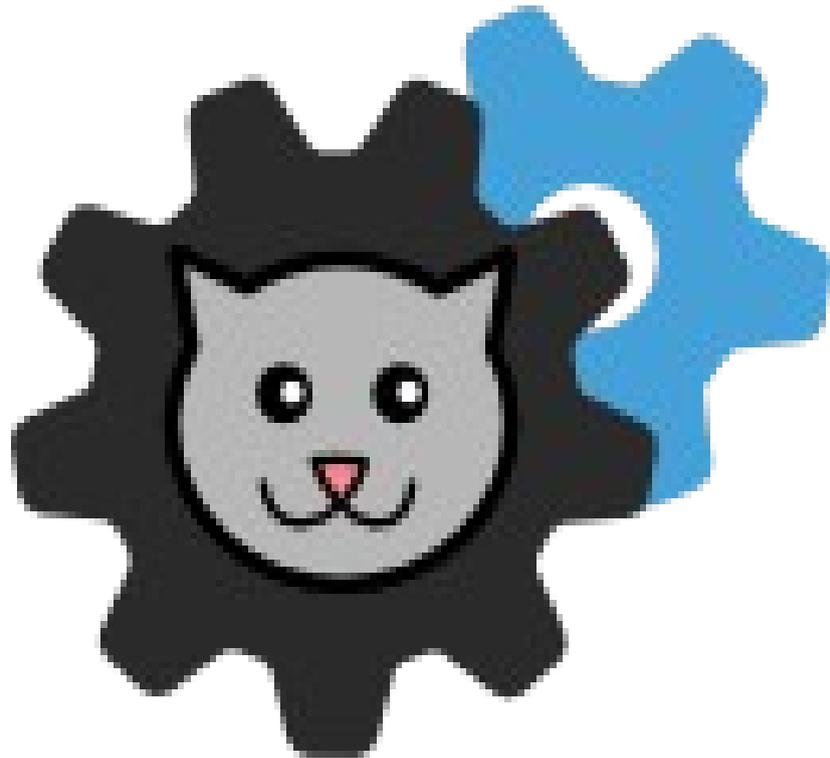
Coming in 2015

- FreePascal / Lazarus support

- Meta-data replication

- Database versionning system

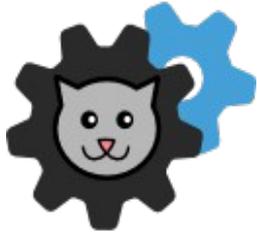- Delphi XE7 support

- Lots of new features!
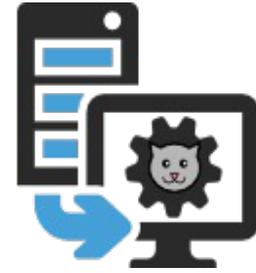
CopyCat LiveMirror

- New product based on the CopyCat replication engine

- Released in 2014

- Designed specifically for setting up hot backups of Firebird DBs for fail-over or load-balancing

  - One-way replication

  - High frequency

  - Reliable up-to-minute backups

  - Very easy to setup and administer

LiveMirror demo
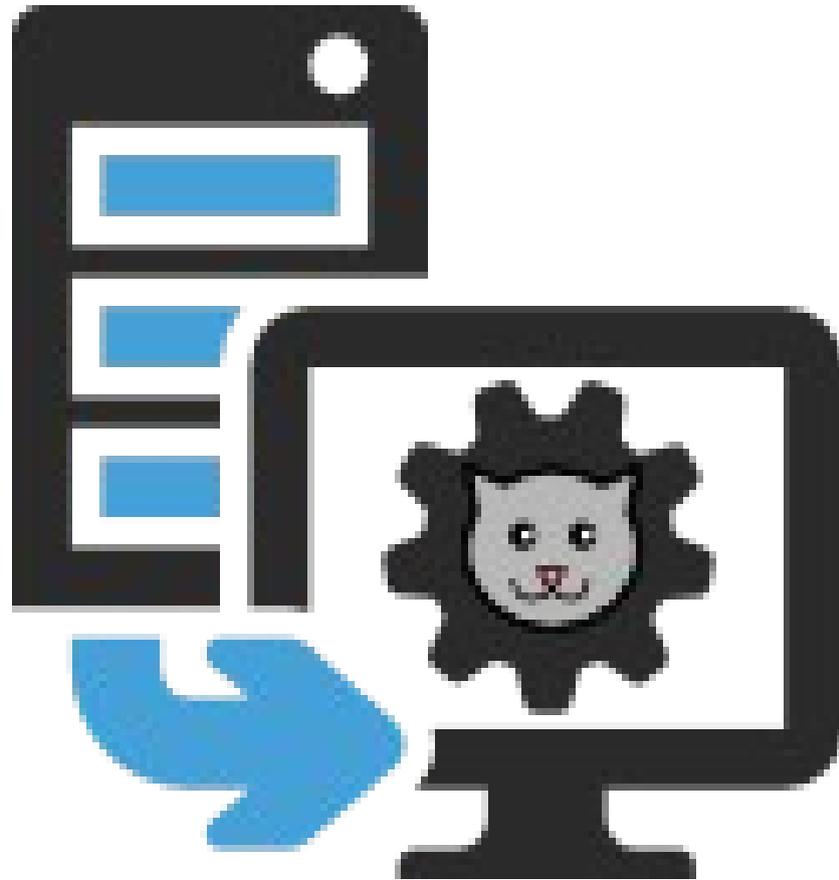
Coming in 2015

- Linux support FPC (and maybe MacOS)

- Meta-data replication

- Support for other database types

- Advanced replication monitoring :

  - Automated, customizable, periodic checks
  - Configurable alerts and error reporting
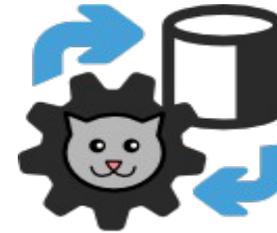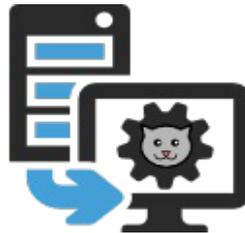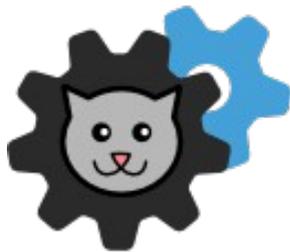
CopyCat DataMerge

- New product to be released in 2015
- Fully-featured database replication tool for DBAs
  - Bidirectional replication
  - Simple replication setup and administration
  - Customizable conflict management
  - Replication monitoring
- Support for all database types handled by CopyCat

Q & A

If you have any questions

…

now's the time to ask!!

Thanks!

To thank you for attending this talk, we're offering you a 15% discount on all our products!

To take advantage of this offer, use the following coupon code when ordering : CCFB2014