



# *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

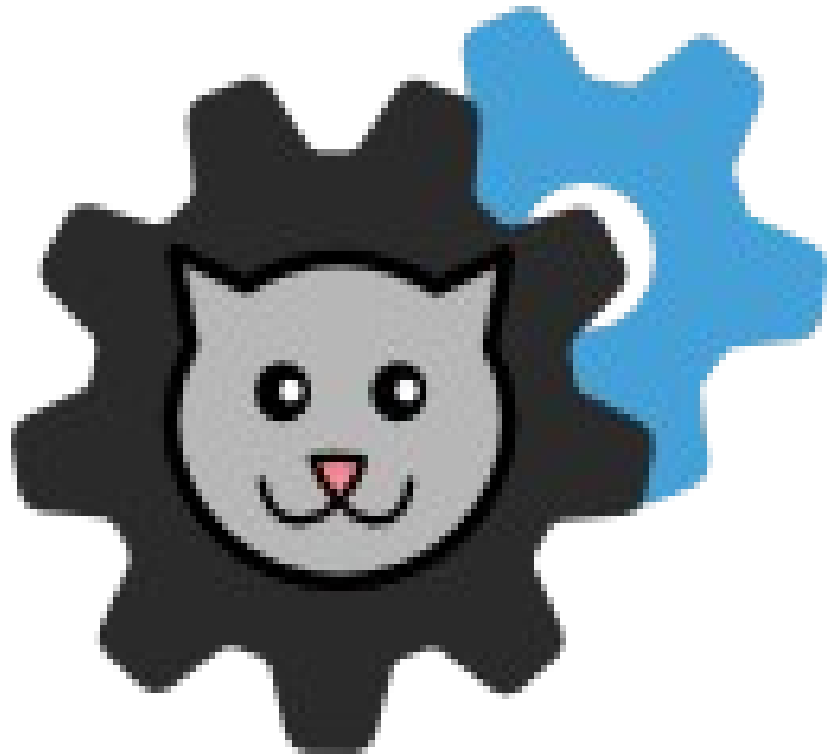




# Case study

- 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

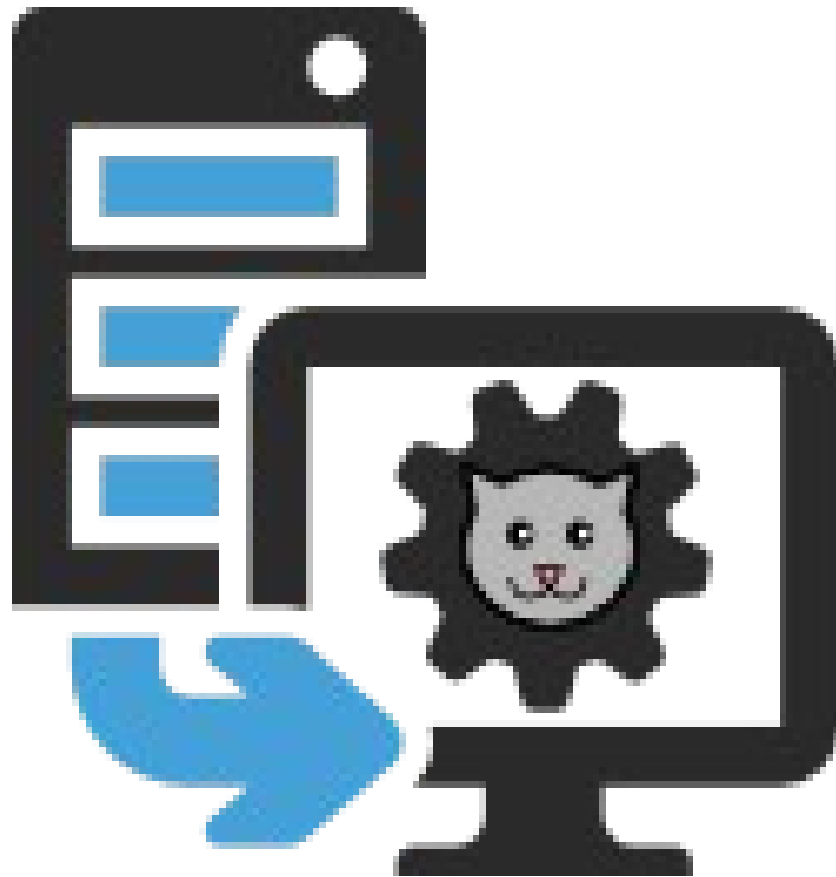
- FreePascal / Lazarus support
- Meta-data replication
- Database versioning system
- Delphi XE7 support
- Lots of new features!



# CopyCat LiveMirror

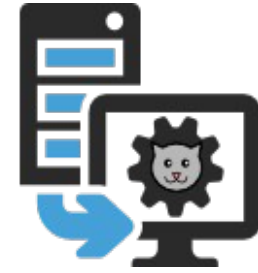
- New product based on the CopyCat replication engine
- Released in 2014
- Designed specifically for setting up hot backups of Firebird DBs for fail-over or load-balancing
  - One-way replication
  - High frequency
  - Reliable up-to-minute backups
  - Very easy to setup and administer

# 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

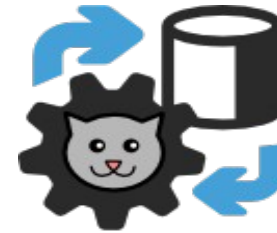
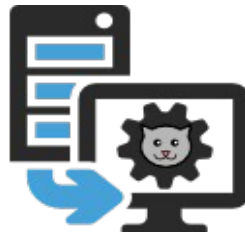
- New product to be released in 2015
- Fully-featured database replication tool for DBAs
  - Bidirectional replication
  - Simple replication setup and administration
  - Customizable conflict management
  - Replication monitoring
- Support for all database types handled by CopyCat

# Q & A

If you have any questions

...

now's the time to ask!!





# *Thanks!*

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