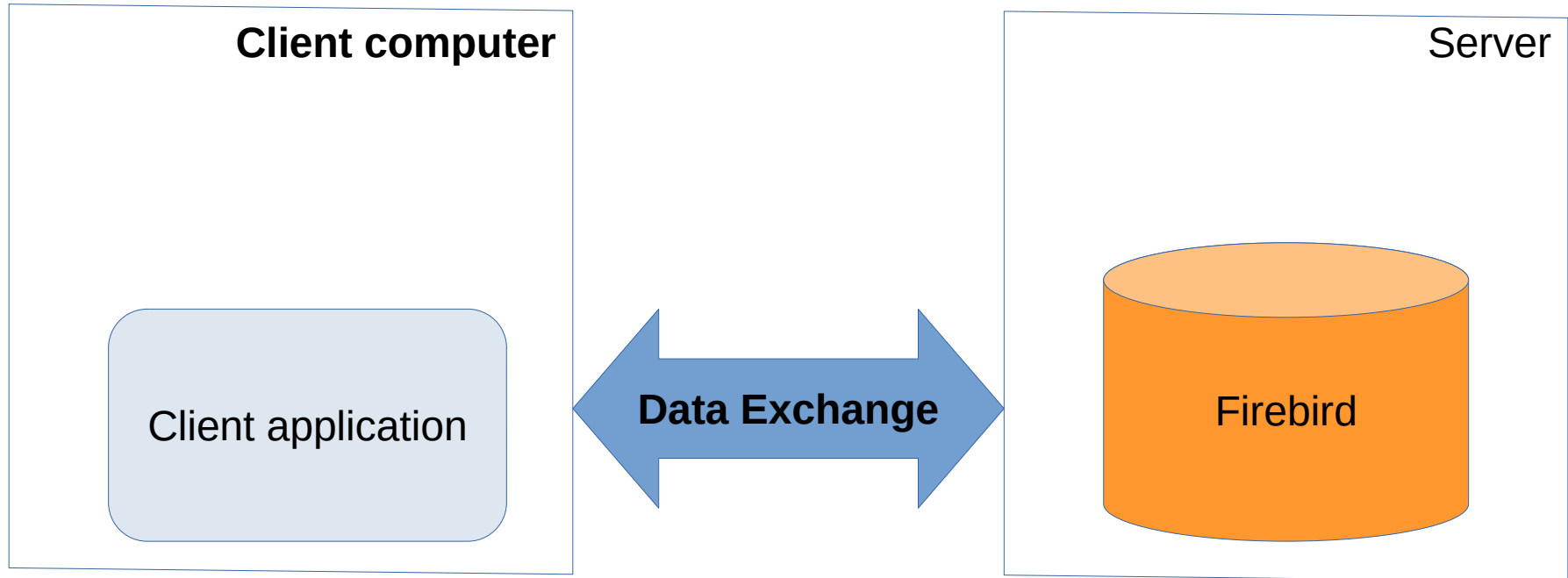




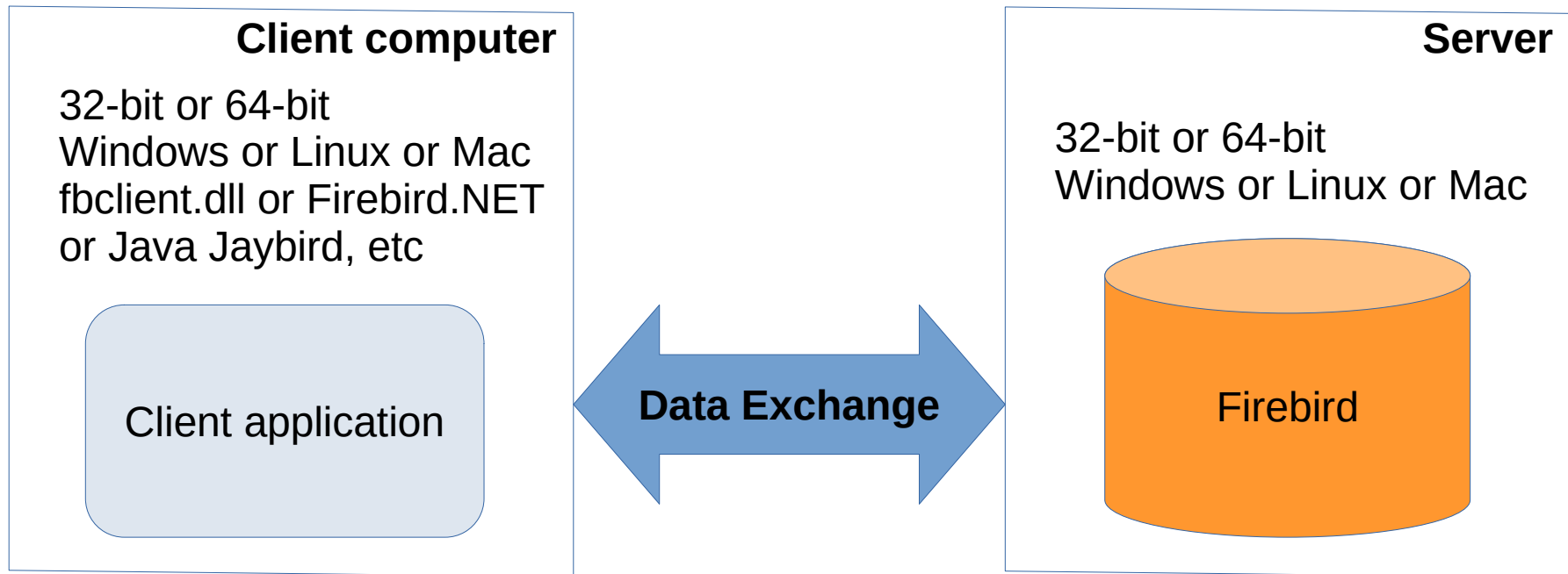
The hidden problem of Firebird setup: Firebird clients' versions

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Client-Server — what does it mean?



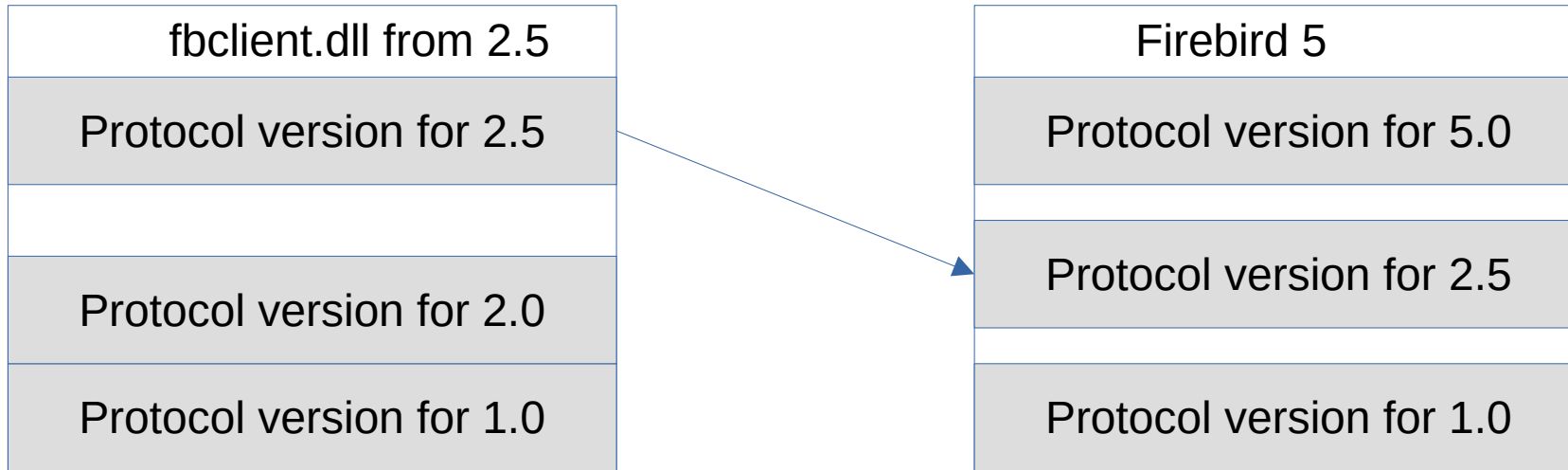
Client-Server — what does it mean?



Network protocol

- To implement exchange between different clients and server, Firebird network protocol has **various versions**, which indicate a set of supported features
- While connection is established, client and server are negotiating what level to use
- The minimal supported level will be used

The lowest compatible version will be chosen



Protocol changes

- In Firebird 3 there were many changes to improve communication over Internet
- Many small improvements and bug fixes even between minor releases — the big difference is between 2.5.0 and 2.5.9, 3.0.0 and 3.0.12

Possible problems due to old client

- If you use old client version, there could be the following symptoms
 - Disconnects (lot of errors 104/10054 in firebird.log)
 - Loss of performance, depending on the network configuration
 - Lack of information in MON\$ tables
 - «Strange» errors

How to identify versions of Firebird clients?

- **SELECT DISTINCT MON\$CLIENT_VERSION FROM MON\$ATTACHMENTS**
 - It will show client versions
 - If NULL is shown, can be old version of fbclient.dll or old version of Firebird.NET or Jaybird, etc.

What to do?

- Update fbclient.dll to the same version as your server (3.0.12, 4.0.5, 5.0.1, etc)
- Update non-native drivers to the latest possible versions — Jaybird, Firebird.NET, etc

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Thank you!

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