syncEvolution
synchronizing personal information management data

Patrick Ohly

28.01.2010

Over The Air Sync

SyncML Server
Google, ScheduleWorld,
Funambol, Memotoo,
Mobical, Synthesis, ZYB
...

Google

SyncML (OMA DS): *protocol*
vCard/vCalendar/iCalendar:
payload
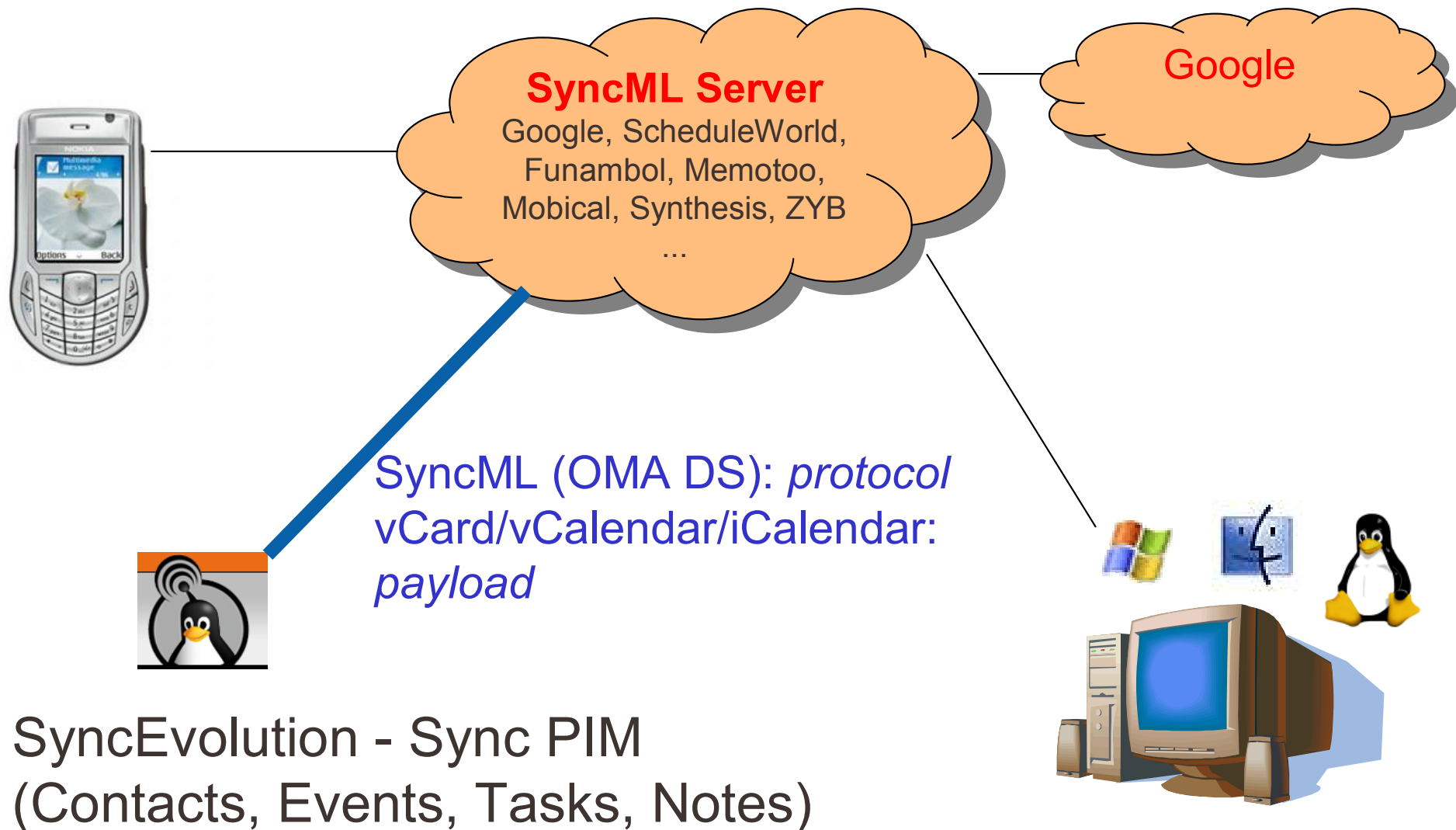
SyncEvolution - Sync PIM
(Contacts, Events, Tasks, Notes)

History — "The Missing Link"

- SyncEvolution: spare time project for >3 years, full-time since 2009
- So far: SyncML client for
  - Evolution/Moblin
  - iPhone+Mac OS X (need maintainer)
  - Maemo (Ove Kaaven: Maemo 5)
  - KDE (under development)
- More to come in 1.0:
  direct synchronization

Synthesis

- Swiss company with >10y experience with SyncML, owned by the two main developers

- Synthesis SyncML Engine:

  - C++ implementation of client **and server**, data merging and conversion

  - LGPL 2.1+3.0

Next Steps

- 1.0 release: beta available, release end of March/beginning of April

- Beyond 1.0:

  - Device database ("config templates")

  - Support more local backends, including adaptors for other protocols (need contributors!)

  - Local sync between backends

Usage

- ## Command line:

```
syncevolution --configure \
              --sync-property username=foo \
              --sync-property password=bar \
              scheduleworld
syncevolution scheduleworld
syncevolution --sync-properties ?
syncevolution --source-properties ?
```

- ## Applet: Genesis, by Frederik Elwert
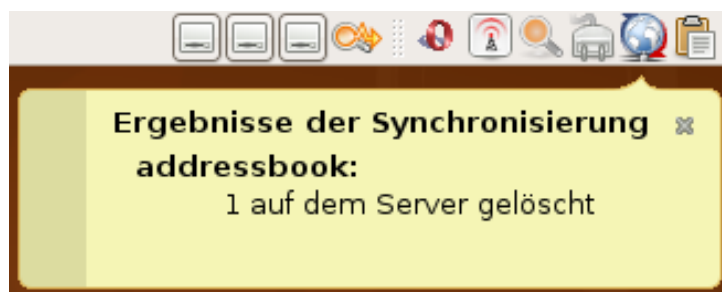
- ## GTK GUI ("sync-ui")

Sync-UI: Setup

Back to sync

Supported services

To sync you'll need a network connection and an account with a sync service.
We support the following services:

▷ 🖥 Memotoo - Launch website

▷ 🖥 Mobical - Launch website

▼ 🖥 **ScheduleWorld** - Launch website

ScheduleWorld enables you to keep your contacts, events, tasks, and notes in sync.

Username [jku@goto.fi]

Password [••••••••]

Send changes to ScheduleWorld   [On]   Receive changes from ScheduleWorld   [On]

Sync

Contacts   [On]   Memo   [On]

Appointments   [On]   Tasks   [On]

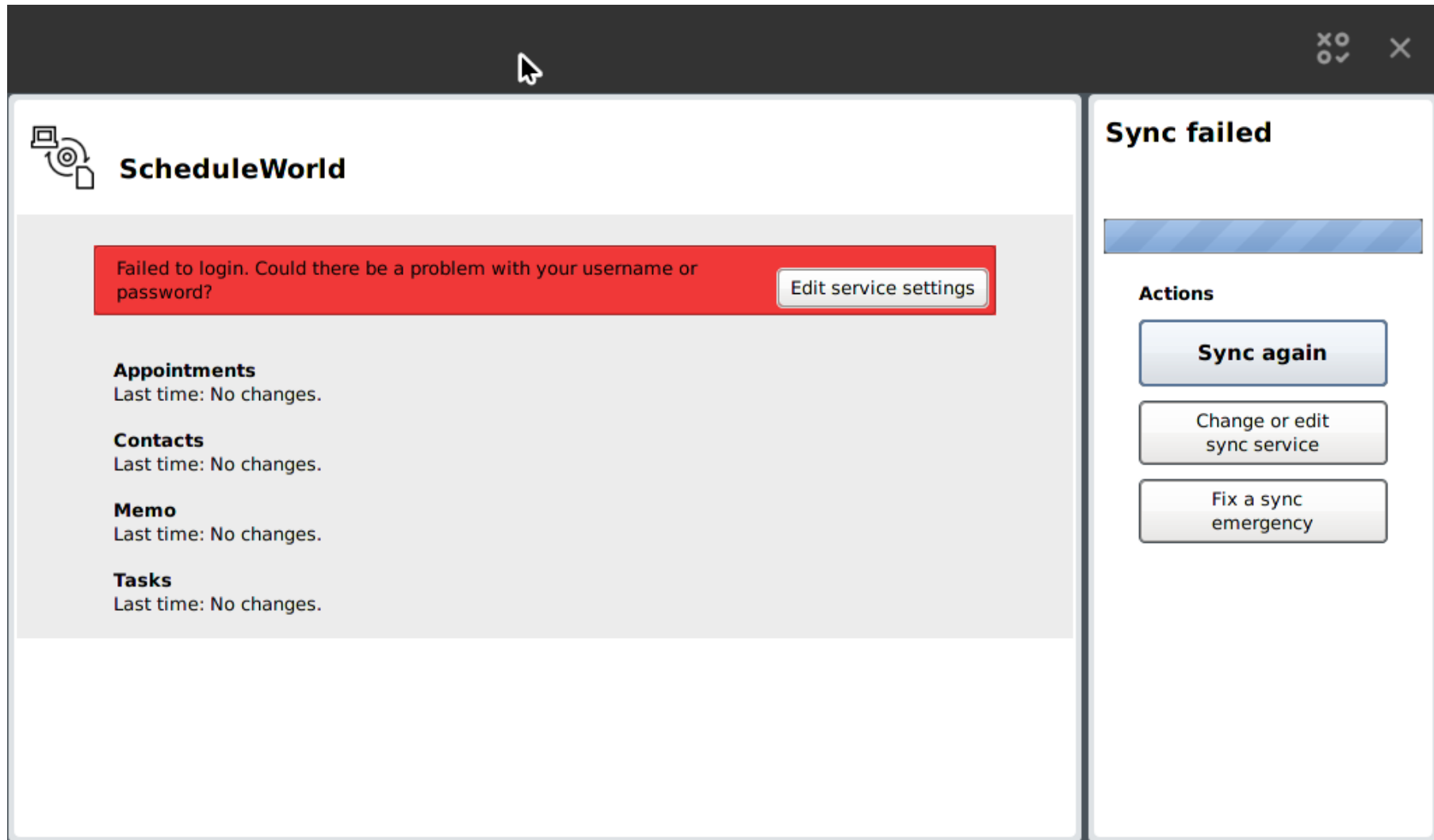## Manual setup

If you don't see your service above but know that your sync provider uses SyncML
you can setup a service manually.

Add new service

Sync-UI: Houston, we've got a problem.

Sync-UI: We've got a solution.

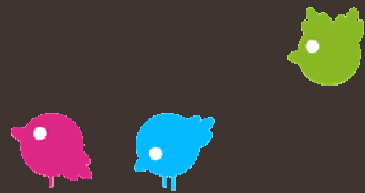© Copyright, 2010 Intel

http://syncevolution.org

Cross-desktop devroom,
Sunday 15:15-16:00

Getting Involved

SyncML
Server

SyncML Clients

PIM Sync Challenges:

It can eat your data?!

PIM Sync + Interoperability Challenges

1. No globally unique ID.

2. Different representation of data.

3. Offline updates allowed: what is the most recent data?

4. Must support standard formats, including legacy ones (vCalendar).

5. Must work with limited knowledge about peers (capabilities, behavior).

SyncML as Protocol

- "slow sync" – client sends all items, server compares, sends updates back

- "normal sync" – exchange of updates

- Resilient – suspend&resume (voluntarily or due to loss of connection), resend messages

- Device Capability description