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- Synchronization Today
- What is OpenSync?
- Synchronization Framework
- Plugins
- Different ways of Syncing
- Capabilities and Merger
- Quick Demonstration
- Q&A



Synchronization Today



- Devices not (fully) supported
- No desktop independent solution
- No "out-of-box" solution
- No Open Source solutions by manufactures



What is OpenSync?



- Synchronization Framework
- Plugin based
- Platform Independent
- Lesser GNU Public License (LGPL)
- Started by Armin Bauer in 2005
- Successor of MultiSync (GTK only)



Synchronization Framework



- Comparing Changes
- Conflict Handling
- Object Type Handling
 - Contacts
 - Events
 - Notes
 - Data
 - ...
- ...
- Merge and Capabilities (>= OpenSync 0.30)

Plugins



Synchronization Plugins

- •IrMC
- •Gnokii
- •GPE
- Moto
- •Opie
- •Palm
- •SynCE

- Evolution
- •KDE PIM
- Sunbird
- •Google Calendar
- •LDAP
- •File Backup
- Sun Server Calendar

Some Plugins are very experimental!





Synchronization Plugin: SyncML

- •SyncML via OBEX
 - Client Only
- •SyncML via HTTP
 - Server Only
- •WBXML support
- •SyncML 1.0 / 1.1 (and 1.2)

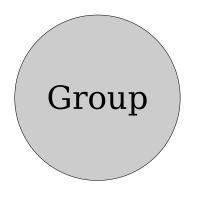
- Based on libsyncml
- •http://libsyncml.opensync.org



Groups and Members



- Group based synchronization
- Group consists of at least 2 Members
- Member = Configuration + Plugin

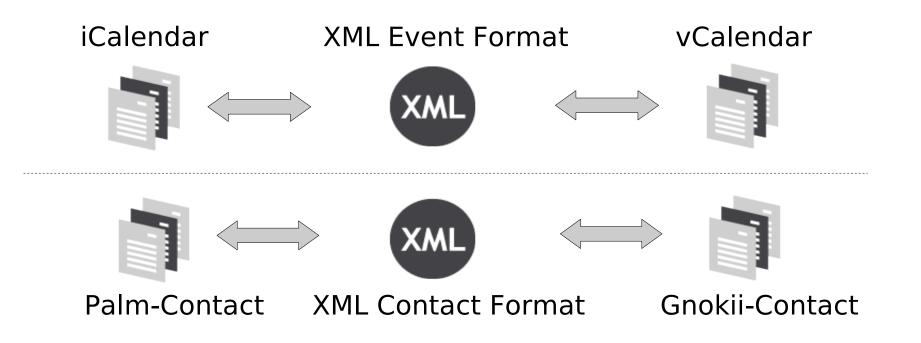




Format Plugins



Convert between different formats





Converter: iCalendar - XML Event

<?xml version="1.0" ?>

BEGIN:VCALENDAR VERSION:2.0 BEGIN:VEVENT UID:**libkcal-933.717** SUMMARY:**Test Event** CLASS:**PUBLIC** DTSTART:**20050101T110000Z** DTEND:**20050101T120000Z** END:VEVENT END:VCALENDAR <event> <Class> <Content>**PUBLIC**</Content> </Class> <DateEnd> <Content>20050101T120000Z</Content> </DateEnd> <DateStarted> <Content>20050101T110000Z</Content> </DateStarted> <Summary> <Content>Test Event</Content> </Summary> <Uid> <Content>libkcal-933.717</Content> </Uid> </event>

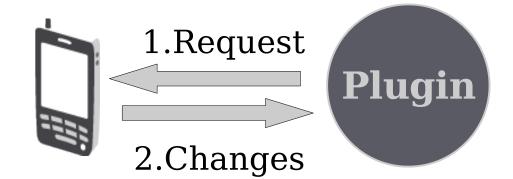


Different ways of Syncing



Synchronization: Fast Sync

- Connect "device"
- Request changes
- Commit changes

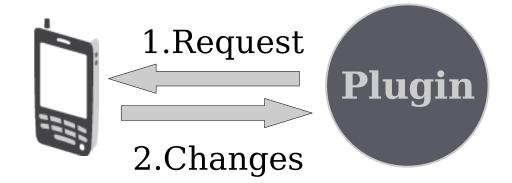






Synchronization: Fast Sync

- •Connect "device"
- •Request changes
- Commit changes

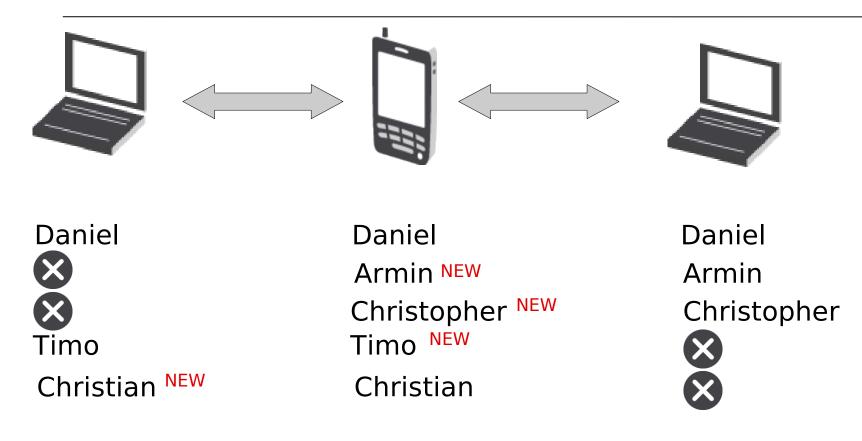






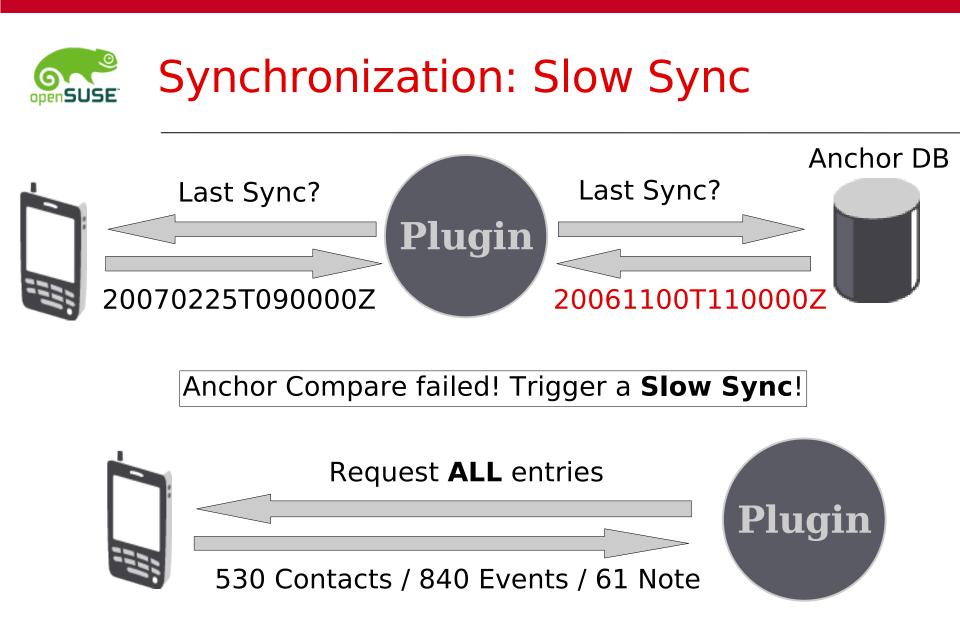


Problem: Different Environments



Only latest changes got synchronized!



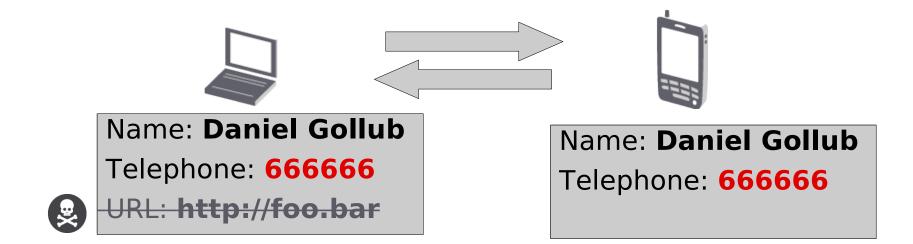


Novell

Capabilities



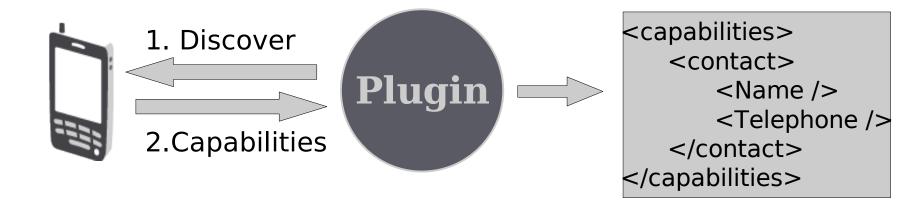
Problem: Different Capabilities







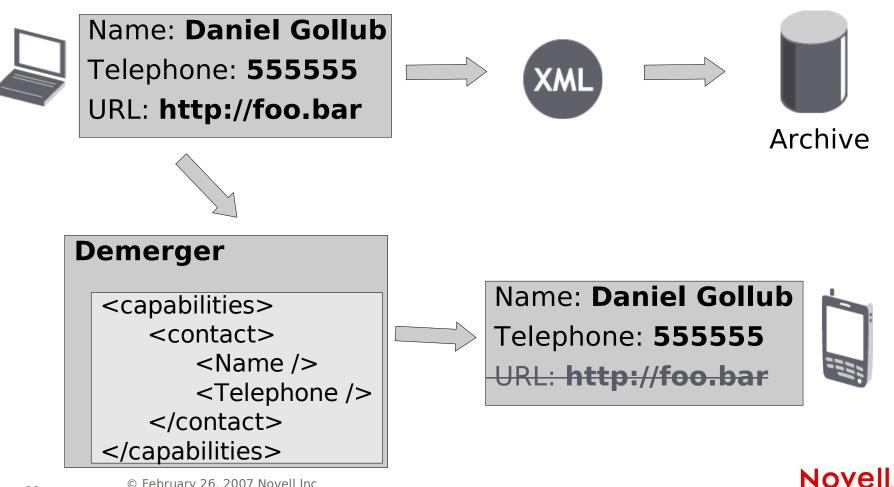
- Connect "device"
- Discover the "device"





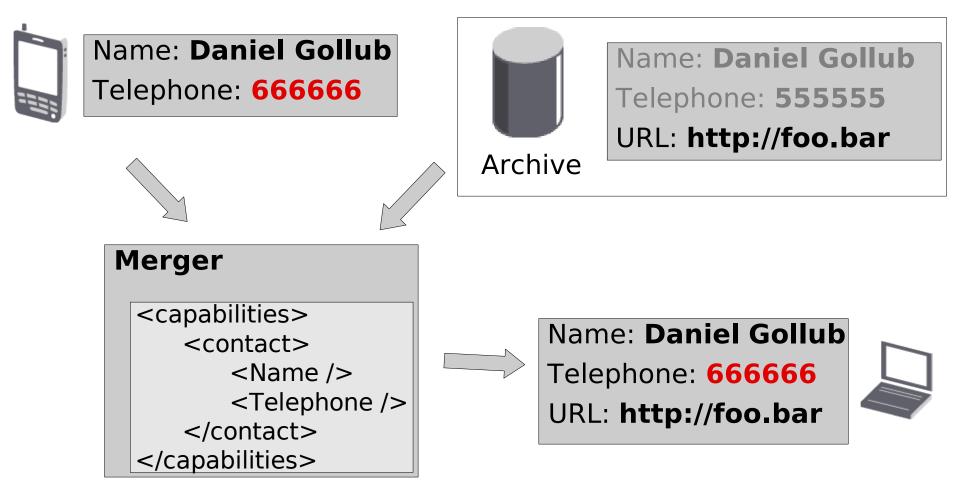
Merger / Demerger













Frontends



- KitchenSync
- •MultiSync
- msynctool

🦎 PIM Synchronizati	ion - KitchenSync 🎱 📃 🗖	×
<u>F</u> ile <u>G</u> roups <u>H</u> elp		
21 E	Dup Edit Group Delete Group	
File Synchronizatio	on Plugin	
Last synchronized on: 02/23/07 01:56 pm Synchronize Now Configure		
Group: KDE	6230i Ready	
Ø Mobile Phone (2 SyncML over OBE)	- Ready	
S KDE PIM (1) KDE Desktop	Ready	
Not synchronized yet	Synchronize Now Configure	



Quick Demonstration



- Backups are recommended!
- OpenSync is still not perfect...
- ... but it's quite cool!
- OpenSync 0.30:
 - Discover and handle capabilities
 - Merger and Demerger
- More developers wanted!!!!!!111111





- OpenSync project: http://www.opensync.org
- libsyncml project: http://libsyncml.opensync.org
- opensync-devel@lists.sourceforge.net
- opensync-users@lists.sourceforge.net
- #opensync @ freenode
- Daniel Gollub <dgollub@suse.de>



Questions?



- Armin Bauer (OpenSync and libsyncml Maintainer)
- Daniel Friedrich (Merger, Capabilities, XML Format, ...)
- Eduardo Pereira Habkost (IPC, Python Module, KDE PIM...)
- Tobias König (Kitchensync, IrMC Plugin, ...)
- Cornelius Schumacher (Kitchensync, ...)
- Christopher Stender (vCal/iCal, IrMC Plugin, Packaging, ...)

Novel

- Matthias Jahn (Packaging, Tons of Bugfixes, Testing, ...)
- Andrew Baumann (moto Plugin, Python wrapper, ...)
- Paul Eggleton (opie Plugin, ...)
- Graham Cobb (GPE Plugin, libsyncml bugfixes, ...)
- ...



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