Zarafa Mobile Compatibility – September 2013

BlackBerry Enterprise Server (BES)
ActiveSync compatibility (Z-Push)
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Introduction
Zarafa enables end users to work with mobile devices using different technologies. Our main focus is to provide the best mobile experience and integration of ActiveSync compatible devices over Z-Push (http://z-push.sf.org) for push mail, calendars tasks and notes.

BlackBerry
BlackBerry has enabled Activesync support in their latest series with the BlackBerry 10 operating system. Z-Push development followed this move and provides full support of this device class. Zarafa equally adjusted to the changed strategy and will not support BES for these newer series.

Older BlackBerry devices can be integrated over RIM infrastructure using the BlackBerry Enterprise Server (BES) version 4 and 5, BlackBerry Professional Software (BPS) version 4 and BlackBerry Enterprise Server Express. See a brief overview of the supported versions below. Other informations and additional informations about the BlackBerry integration can be found in the Zarafa wiki.

Please check the supported BES version list before installation:

<table>
<thead>
<tr>
<th>Supported versions</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>4.1.0 to 4.1.3</td>
<td>Unknown</td>
</tr>
<tr>
<td>4.1.4 to 4.1.6</td>
<td>Known to work</td>
</tr>
<tr>
<td>4.1.7</td>
<td>Does not work</td>
</tr>
<tr>
<td>5.0.1 to 5.0.2</td>
<td>Working with ZCP 6.30.15+, 6.40.x and 7.0</td>
</tr>
<tr>
<td>5.0.3</td>
<td>Working with ZCP 6.40.10+, 7.0.1+ and 7.1.x</td>
</tr>
<tr>
<td>Later versions</td>
<td>Not supported anymore. Please use Z-Push synchronization.</td>
</tr>
</tbody>
</table>

BlackBerry functionality overview via BES

**Email**
- Receive emails via push-service
- Reply, reply to all and forward emails
- Archive email to sub folders
- Add signatures to outgoing emails
- Check spelling on outgoing emails
- Search emails
- Send and receive attachments
- Folder redirection, to you synchronize sub folders
- Flagging of emails

**Calendar**
- Create and receive appointments on BB
- Send and receive meeting requests from BlackBerry
- Create private appointments
- Create recurring appointments
- Reminders on upcoming appointments

**Notes**
- Create and access to your private notes
- Send notes as email attachment

**Contacts**
- Create contacts and access to your private contacts
- Create distribution groups
- Lookup Global Address Book users
- Add picture to contacts

**Tasks**
- Create and access your private tasks
- Use task status
- Reminders on tasks
- Add categories to tasks

**Known limitations**
- Freebusy lookup
- Set out of office message from BB device
- Configure wizard rules on BB device
- Save directly freebusy information after appointment is created on Blackberry
- Hard reconcile
ActiveSync

ActiveSync devices present a different level of compatibility, due to frequent releases and customized implementations from handheld vendors. The protocol of non-windows mobile handhelds often lack compatibility with e.g. MS Exchange, Lotus Domino and Zarafa servers. This table of the next page shows the status of several handhelds compared to Zarafa and Z-Push.

Z-Push Releases

<table>
<thead>
<tr>
<th>Status</th>
<th>Version</th>
<th>Released</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stable</td>
<td>Z-Push 2.0.8-1731</td>
<td>23.08.2013</td>
</tr>
<tr>
<td>Testing</td>
<td>Z-Push 2.1.0 beta-1730</td>
<td>23.08.2013</td>
</tr>
</tbody>
</table>

Z-Push 2.0 went through major changes and optimizations in the code and the API compared to Z-Push 1.x. It is compatible with PHP 5.1 and higher and ZCP 6.40, ZCP 7.0 and 7.1. It features several new functionalities like HTML emails for all devices, ActiveSync 14 support, setting out-of-office, improved push mechanism, heartbeat support, loop detection and many more.

Z-Push 2.1.0 beta is the testing release of the latest development progress. It contains several new core features, as the support of S/Mime encryption, Windows 8 compatibility, GAL, improved device management options and several internal improvements. This version is compatible only with Zarafa 7.0.6 and higher and 7.1.x. Please check the release notes if you plan to work with this version, because Z-Push 2.0.x states need to be migrated.

It’s strongly recommended to upgrade to the latest 2.0.x version if you use Z-Push 1.x or a version earlier than Z-Push 2.0.4.

The latest stable version, Z-Push 2.0.8, contains fixes regarding changed notes of single occurrences of an appointment series, fixed related to iOS 6.1.3, returning reminders for completed tasks and attachments of S/Mime email.

Z-Push 1.5.14 is the last version of the complementary support of this version. Update support for this version is available.

Depending on user experiences, fixes are then merged into new releases. Check the bugtracker for latest information about open issues, release dates of new versions (menu item: Roadmap) and the latest changelogs.

The latest released version is Z-Push is available at [http://z-push.sf.net/download](http://z-push.sf.net/download). Insight of the latest status of developments or to report issues [http://z-push.sf.net/tracker](http://z-push.sf.net/tracker).

A detailed list about device functionality can be found at Wikipedia: [http://en.wikipedia.org/wiki/Comparison_of_Exchange_ActiveSync_Clients](http://en.wikipedia.org/wiki/Comparison_of_Exchange_ActiveSync_Clients)
## ActiveSync device compatibility overview

<table>
<thead>
<tr>
<th>Vendor or Platform</th>
<th>OS / ActiveSync Client</th>
<th>General Functionality</th>
<th>Remote Wipe</th>
<th>Sub folder Push</th>
<th>Recurring Calendar</th>
<th>Multiple Folders</th>
<th>Meeting Requests</th>
<th>Application type</th>
<th>Comment or remarkable changes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Recommended</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Microsoft</td>
<td>Windows Mobile 5-6.5</td>
<td>Em/Ca/Co/Ta</td>
<td>Full ROM</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Inv / Resp</td>
<td>native</td>
<td>Known to be working with Z-Push 1.5.x and 2.0.x.</td>
</tr>
<tr>
<td></td>
<td>Windows Phone 7</td>
<td>Em/Ca/Co</td>
<td>Full ROM</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Inv / Resp</td>
<td>native</td>
<td>Tasks not available. Best with Z-Push 2.0.8.</td>
</tr>
<tr>
<td></td>
<td>Windows Phone 7.5</td>
<td>Em/Ca/Co/Ta</td>
<td>Full ROM</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Inv / Resp</td>
<td>native</td>
<td>Best with Z-Push 2.0.8.</td>
</tr>
<tr>
<td></td>
<td>Windows Phone 8</td>
<td>Em/Ca/Co/Ta</td>
<td>Full ROM</td>
<td>Yes</td>
<td>Yes</td>
<td>Partially^3</td>
<td>Inv / Resp</td>
<td>native</td>
<td>Best with Z-Push 2.1.0 beta. Supports multiple calendar folders, but only main/no contact folder.</td>
</tr>
<tr>
<td>Apple</td>
<td>iOS 2.x, 3.x, 4.x</td>
<td>Em/Ca/Co</td>
<td>Full ROM</td>
<td>Yes</td>
<td>Partially^3</td>
<td>Yes</td>
<td>Inv / Resp</td>
<td>native</td>
<td>Tasks sync: Appstore “Moxier Tasks”.</td>
</tr>
<tr>
<td></td>
<td>iOS 5.x, 6.x</td>
<td>Em/Ca/Co/Ta</td>
<td>Full ROM</td>
<td>Yes</td>
<td>Partially^3</td>
<td>Yes</td>
<td>Inv / Resp</td>
<td>native</td>
<td>Tasks only partially supported. See FAQ below.</td>
</tr>
<tr>
<td></td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>BlackBerry</td>
<td>BB 10 with ActiveSync</td>
<td>Em/Ca/Co/Co/Ta/No</td>
<td>Full ROM</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Inv / Resp</td>
<td>native</td>
<td>Best with Z-Push 2.0.8. See FAQ below. Tasks are available on Samsung (SGS 2-3).</td>
</tr>
<tr>
<td>Touchdown for Android &amp; iOS</td>
<td>Em/Ca/Co/Co/Ta/No</td>
<td>Profile delete</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Partially^3</td>
<td>Partially^3</td>
<td>Inv / Resp</td>
<td>native</td>
</tr>
<tr>
<td><strong>Good</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Android</td>
<td>RoadSync</td>
<td>Em/Ca/Co/Ta</td>
<td>Profile delete</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Inv^5 / Resp</td>
<td>paid app (15 days trial)</td>
<td>Known to be working</td>
</tr>
<tr>
<td></td>
<td>Moxier Mail</td>
<td>Em/Ca/Co/Ta</td>
<td>Profile delete</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Inv / Resp</td>
<td>commercial</td>
<td>Shows all mail folders in one view, synchs into own address book.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Android 2.x (2.2+) &amp; 3</td>
<td>Em/Ca/Co</td>
<td>Full ROM</td>
<td>No</td>
<td>Partially^3</td>
<td>No</td>
<td>Inv / Resp</td>
<td>native</td>
<td>Issues with HTC and 2.3.5 devices! See FAQ below. Best with Z-Push 2.0.5 or newer.</td>
</tr>
<tr>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Nokia Mail 2 (e.g. E75)</td>
<td>Em/Ca/Co/Ta</td>
<td>Profile delete</td>
<td>No</td>
<td>Partially^3</td>
<td>No</td>
<td>Inv / Resp</td>
<td>native</td>
<td>FW 201.12.01 presents errors with HTML E-mails. New firmware reported to fix issues.</td>
</tr>
<tr>
<td></td>
<td>(build in Activesync)</td>
<td>Em/Ca/Co/Ta</td>
<td>Profile delete</td>
<td>No</td>
<td>Partially^3</td>
<td>No</td>
<td>Inv / Resp</td>
<td>native</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
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<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>HP PalmPre WebOS</td>
<td>Em/Ca/Co/Co/No</td>
<td>No wipe</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Inv / Resp</td>
<td>native</td>
<td>Latest Z-Push version recommended</td>
</tr>
<tr>
<td><strong>Reasonable</strong></td>
<td>Nokia</td>
<td>Em/Ca/Co/Ta</td>
<td>Profile delete</td>
<td>Yes, since MFE v.3</td>
<td>Partially^2</td>
<td>No</td>
<td>Respond only^3</td>
<td>free app</td>
<td>Stability issues reported.</td>
</tr>
<tr>
<td><strong>Limited</strong></td>
<td>Samsung</td>
<td>Em/Ca/Co/Ta</td>
<td>Profile delete</td>
<td>No</td>
<td>Partially^3</td>
<td>No</td>
<td>unknown^4</td>
<td>paid app</td>
<td>Known to be working. Feedback requested!</td>
</tr>
<tr>
<td></td>
<td>Various – RoadSync</td>
<td>Em/Ca/Co/Ta</td>
<td>Profile delete</td>
<td>No</td>
<td>Partially^3</td>
<td>No</td>
<td>unknown^4</td>
<td>paid app</td>
<td>Known to be working with Z-Push 1.5.x. Feedback requested for Z-Push 2.x!</td>
</tr>
<tr>
<td></td>
<td>Bada Wave 1.0</td>
<td>Em/Ca/Co/Ta</td>
<td>Profile delete</td>
<td>No</td>
<td>Partially^3</td>
<td>No</td>
<td>unknown^4</td>
<td>paid app</td>
<td>Known to be working with Z-Push 1.5.x. Feedback requested for Z-Push 2.x!</td>
</tr>
<tr>
<td></td>
<td>(e.g. GT-S 8500)</td>
<td>Em/Ca/Co/Ta</td>
<td>Profile delete</td>
<td>No</td>
<td>Partially^3</td>
<td>No</td>
<td>unknown^4</td>
<td>paid app</td>
<td>Known to be working with Z-Push 1.5.x. Feedback requested for Z-Push 2.x!</td>
</tr>
<tr>
<td></td>
<td>Nokia N900 - M4E on Linux</td>
<td>Em/Co/Co/Ta</td>
<td>Profile delete</td>
<td>No</td>
<td>Partially^3</td>
<td>No</td>
<td>unknown^4</td>
<td>Limited</td>
<td>Compatible since firmware Maemo 5 PR1.1 Best with Z-Push 2.0.6 or newer.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

^ E-Mail (Em), Contacts (Co), Calendar (Ca), Tasks (Ta), Notes (No)  
^ Additional Contact and Calendar folders  
^ Client limitation  
^ Detailed feedback requested  
^ No resources  

Delft  | Hannover  | Stuttgart  | Belo Horizonte  
Elektronicaweg 20, 2628 XG Delft  | T: +31 15 2517715  | www.zarafa.com  | info@zarafa.com
Debugging hints and FAQ

GENERAL

• **Repeatedly “Command denied: Retry after sending a PROVISIONING command” in log:**
  Most probably your client doesn't support provisioning. Try to enable `LOOSE_PROVISIONING` in your configuration. If the messages continue, try to reconfigure your ActiveSync profile. If it doesn’t help, disable `PROVISIONING` completely in your configuration file (disables provisioning for all users and devices).

• **I want to remote wipe users devices without installing the Webaccess plugin:**
  Use the command line administration tool: `z-push-admin`

• **Attachments of appointments are not available on the mobile:**
  This is a limitation of ActiveSync and unfortunately not available.
  More information at: [http://support.microsoft.com/kb/2503175](http://support.microsoft.com/kb/2503175)

• **Reply and forward flags of emails done on the server are not visible on the mobile:**
  This was a restriction of earlier ActiveSync protocol versions. Newer clients in combination with Z-Push 2.0.7 or higher and Z-Push 2.1 support this functionality.

UPGRADING TO Z-PUSH 2.0

• **Where do I find instructions how to upgrade?**
  Please see the INSTALL file of the z-push-2.0.x download package.

• **Do I need to recreate the profile of the mobile?**
  This is generally not necessary. Z-Push 2 has an internal mechanism to detect missing states/incompatible states and triggers a device re-synchronization from the server.

• **Do I need to maintain the Z-Push 1.5.x states when upgrading?**
  The states are not compatible and that way should not be migrated. You should start with a clean (empty) Z-Push 2 state directory. Z-Push 2 will resynchronize the mobiles automatically and create new states.

• **I have many users with big mailboxes. Will there be an impact upgrading to Z-Push 2?**
  Yes! As all mobiles will resynchronize, all mobiles will connect immediately to your server asking for changes. If users select to synchronize e.g. “the entire mailbox” thousands of messages will be processed and sent by the server. This will create a considerable impact on performance of Zarafa-Server and MySQL.
  You should consider:
  - Upgrading on a Friday late afternoon so performance impact does not happen during business hours.
  - Set the configuration parameter `SYNC_FILRTIME_MAX` to a value of `SYNC_FILRTYPE_1WEEK` or e.g. `SYNC_FILRTYPE_1MONTH` to limit the amount of items which is sent to your users. After the initial resynchronization of the mobiles is done you can increase this value until reaching the highest setting (ALL or whatever the mobile requests - which is default).
  This way you can spread the total load over several steps (e.g. nights/weekends).

iOS (iPhone, iPod, iPad)

• **Setting a contact picture may not always work with iOS 5.0.x:**
  In our tests we have observed that changing a contact picture does not always work. The mobile correctly displays the new picture, but the information is never sent to the server. Other
modifications made afterwards are not synchronized anymore. Cases that the pictures got “switched” were also reported. We suspect that this is an iOS issue because there is not any communication with Z-Push involved.

- **iOS5+ Tasks: after setting a reminder the task has start and due date at the same day:**
  This is an issue of the iOS implementation. The mobile actually sends the same dates for reminder, start and due. Z-Push only saves this data. Hopefully this is fixed in future iOS versions.

- **iOS 6 Meeting request responses sent to all attendees**
  iOS 6.0 has an issue when replying on meeting requests. Sometimes the response is sent to all attendees. You should update to Z-Push 2.0.5 or newer which contains a fix for this issue. More information at: [http://www.zarafa.com/blog/post/2012/10/ios6-meeting-hijacking-fixed-open-source-activesync-implementation-z-push](http://www.zarafa.com/blog/post/2012/10/ios6-meeting-hijacking-fixed-open-source-activesync-implementation-z-push)
  It’s reported that iOS 6.0.1 fixes this issue on the client. Please update.

- **iOS 6.1 was reported to cause high load on MS Exchange servers when processing calendar entries.**
  This is not an issue for Z-Push with Zarafa.

**Android**

- **Constant Contact synchronization from HTC Desire:**
  Such behavior was reported on the forums. From the logs we’ve analyzed, the changes send by the device are valid and there are no errors. This was observed in combination with the Facebook App. After de-installing this app the Contact synchronization works normally.

- **Synchronization issues with Android 2.3.5 & HTC Sense 3.0 - Update for HTC Desire HD, Incredible S & Wildfire S:**
  It was reported that this version has a very unreliable synchronization over ActiveSync. In some cases Calendar items are also deleted from the server. Since Z-Push 2.0.5 there is a fix which prevents these devices from deleting items from the servers’ calendar. It’s highly recommended to use this or a newer version. Please send us your feedback.

- **Synchronization issues with Android 4 on HTC One X/S/V or Evo 4G:**
  It’s reported that Z-Push 1.5.x is not synchronizing well Emails and the Calendar to these devices. Generally the calendar stays empty and only shows appointments created on the phone. Please use only Z-Push 2.0.x when having Android 4 devices.

- **Initial synchronization can not be completed with Android 4.0.x:**
  It was reported that in some occasions the initial synchronization can not be completed when having many folders (more than 50). In the log you see a FolderSync which takes a considerable amount of time to complete (over 30 seconds). The device sends another FolderSync request which also completes but after some tries the device “gives up”. This can be prevented by setting the option `counter_reset` to `no` in `/etc/zarafa/server.cfg`.

**Feedback**

If you have additional feedback to the list, please contact the Zarafa support at [zpush@zarafa.com](mailto:zpush@zarafa.com).
It is also possible to comment in the Zarafa forums in the Mobility section: [http://forums.zarafa.com/viewforum.php?f=14](http://forums.zarafa.com/viewforum.php?f=14)

*The Z-Push Team*
Changelog (latest final versions)

Z-Push 2.0.8-1731 final (since 2.0.7) – stable
General
[ZP-419] - Typo in syncappointment.php
[ZP-424] - Merge into 2.0.x: Some folders do not have a last synchronization time
[ZP-431] - Merge into 2.0.x: Null attachments flood the log file
[ZP-432] - Merge into 2.0.x: Logging may use too much memory
[ZP-438] - Non stop sync if no changes on empty sync

Zarafa
[ZP-418] - Changed note of an occurrence of a recur appointment won't be synced to the mobile
[ZP-441] - Email flagged on an iPhone is without subject in task view
[ZP-442] - Reminder still active for completed tasks
[ZP-445] - S/MIME Mails with larger attachments are not able to be fully downloaded (on IOS)

Z-Push 2.0.7-1690 final (since 2.0.6) – stable
New features:
[ZP-396] - Merge into 2.0.x: Reply/Forward flags are not synced from the server to the mobile
[ZP-401] - Merge into 2.0.x: Implement S/MIME

General
[ZP-345] - Merge into 2.0.x: Status is missing in Settings->deviceinformation
[ZP-348] - Merge into 2.0.x: Example for specialLogUsers in config.php
[ZP-349] - Merge into 2.0.x: SGSII sends different user agents repeatedly
[ZP-354] - From field get set to broken-from@z-push.local in saved draft
[ZP-355] - Heartbeat Connections log ProcessLoopDetectionPreviousConnectionFailed
[ZP-392] - Merge into 2.0.x: User log files should also contain the initial log lines
[ZP-393] - Merge into 2.0.x: Warnings in loop detection code
[ZP-397] - Merge into 2.0.x: Update copyright dates 2013
[ZP-404] - Merge into 2.0.x: SYNC_SEARCH_LONGID operation does not work
[ZP-406] - Merge into 2.0.x: Heartbeat response is followed by sync on all folders

Zarafa
[ZP-356] - Delegating meeting request are forwarded instead of delegated
[ZP-395] - Merge into 2.0.x: Task created in iOS 6 reminder app does not set owner name in WebAccess
[ZP-398] - Merge into 2.0.x: RTF formatted mail gets synced to device but can not modify content and forward
[ZP-399] - Merge into 2.0.x: Attachment from a meeting request is not available in calendar
[ZP-403] - Merge into 2.0.x: Unable to resolve group or distribution list
[ZP-405] - Merge into 2.0.x: Typo in mapiprovider.php

Z-Push 2.0.6-1616 final (since 2.0.5) – stable
General
[ZP-249] - Duplicate items when importing a new item and Heartbeat is active
[ZP-277] - Update package requirements in admin manual
[ZP-278] - Announcement of supported AS versions in initial FolderSync
[ZP-286] - Nokia N9 MeeGo executing MeetingResponses causes WBXMLException
[ZP-291] - Heartbeat mode should not be started if loading states fails
[ZP-292] - z-push-top should show folder type consistently
[ZP-301] - Windows mobile 6.1/6.5 doesn't work with Z-Push 2
[ZP-303] - CTRL+C in z-push-top breaks terminal
[ZP-305] - php-cli package is required for z-push-admin and z-push-top
[ZP-314] - Remove Kolab backend
[ZP-316] - Move getBodyPreferenceBestMatch to global Utils
[ZP-317] - SyncCollections waiting time is not correctly updated when receiving notification
[ZP-318] - Merge contribution - Added Utils::ConvertHtmlToText
[ZP-324] - Merge contribution - Fix non-existing variable

Zarafa
[ZP-271] - Not able to move folder in another in IOS
[ZP-279] - Android 4.0.3, creating an appointment shows php error
[ZP-282] - Special chars (umlauts) are broken in a response email sent from an android
[ZP-297] - Possible delete junk folder in IOS6 and rename draft/outbox
[ZP-311] - Reminder "On event" is saved as "None" in Outlook/Webaccess
[ZP-313] - IOS6 meeting attendee fix shows warnings
[ZP-335] - Warning if there aren't any attendees
Z-Push 2.0.5-1541 final (since 2.0.4) – stable

General
- {ZP-168} - SMS sync causes WBXMLException
- {ZP-191} - Upgrade from 1.5 to 2.0 gives multiple WBXML errors on GetItemEstimate
- {ZP-200} - Warnings on announcing accepted message
- {ZP-207} - Possibility to define a max amount of items to be synchronized
- {ZP-233} - Nokia N9 MeeGo requests <Range> in ItemOperations
- {ZP-244} - Also add last sync time listed in z-push-admin.php -a list
- {ZP-251} - Review announced messages to z-push-top when importing messages
- {ZP-254} - Sending a email with multiple pictures results in errors when fetching the pictures on WM 7.5
- {ZP-259} - Set the default fileas order to Lastname, Firstname
- {ZP-262} - Update copyright dates
- {ZP-267} - The get_defined_constants(true) causes a crash in php
- {ZP-270} - SyncParameters does not handle explicit defined folder types "Contacts" and "Calendar"
- {ZP-274} - Update INSTALL file add RHEL6 specific php packages
- {ZP-275} - Install instructions, change php options in apache config

Zarafa
- {ZP-68} - Tracking tab is not updated after sending a meeting request update
- {ZP-209} - Warnings in meeting request class
- {ZP-252} - Return plain text type in getNativeBodyType() instead of undefined
- {ZP-253} - Droid 3 truncates emails on fetch
- {ZP-258} - Z-Push sync of HTC Sense device causes deletion of calendar items
- {ZP-276} - IOS6 meeting "hijacking"
- {ZP-287} - Meeting Request response status is set to Accepted without user interaction
- {ZP-288} - Outlook XP shows wrong organizer

Z-Push 2.0.4-1497 final (since 2.0.3) – stable

Zarafa
- {ZP-257} - Meeting request accepted by iPhone/iPad results in broken organizer

Z-Push 2.0.3-1467 final (since 2.0.2) – stable

General
- {ZP-143} - Configurable fileas
- {ZP-174} - Android issues Heartbeat only for policy changes
- {ZP-186} - Add new WBXML tags
- {ZP-187} - Missing ItemOperations:ItemOperations end tag
- {ZP-195} - Switch username and log level when logging
- {ZP-202} - GetItemEstimate should indicate if no changes were found in z-push-top
- {ZP-203} - Log WBXML content type and final end tag
- {ZP-220} - Allowing SMS sync resets folder content parameters filtertype
- {ZP-226} - Group folder types of push connections in z-push-top
- {ZP-232} - Forced lowercase auth logins may not work with PAM & Kerberos authentication
- {ZP-233} - Incoming message actions should include the message counter

Zarafa
- {ZP-129} - Iphone: Download full message from an inline image send by a galaxyS2 results in a broken message
- {ZP-169} - PHP warning in mapperutils
- {ZP-175} - Changed note of an occurrence of a recurring appointment won't be synced to the mobile
- {ZP-178} - Appointment with meeting items are added after editing with an android device
- {ZP-180} - Multiple PHP warning found while creating a meeting request with Windows Mobile 7.5
- {ZP-182} - Calendar app crashes when editing meeting request
- {ZP-187} - Appointment made or edited in WebAccess or Outlook becomes tentative when edited on Android
- {ZP-193} - Special chars are broken on an Android 4 and Windows Phone
- Warnings on free-busy publish
- Warnings on recurrence class
- Properties PR_SENT_REPRESENTING_* should always be set when creating calendar item on a mobile
- Changing meeting request results in undelivered mail
- Change log level to DEBUG if AS body data or type aren't set
- PHP Warning: Undefined property: SyncContact::$email1address

IMAP
- Sent emails not saved in Sent Items folder (IMAP)
- BackendIMAP should be extendable
- Merge contribution - imap wasteID should be converted to imapId

Combined
- Merge contribution - GetWasteBasket in combined backend
- Merge contribution - State in combined backend

Z-Push 2.0.2-1437 final (since 2.0.1) – stable

General
- Flags are not fully synchronized between webmail and SGSII
- SyncMeetingRequestRecurrence: “dayofweek” is not in the range of allowed values
- Heartbeat export optimizations disable loop detection
- Send inlined .JPG does not show in Samsung Galaxy S2
- WBXML Exception on sending empty <SyncKey/>
- z-push-admin and MDM differentiate between users with different cases in username
- Ignore messages should be removed from device data when object is removed from pho
- Make SyncObjects check configurable
- Inline images can not be downloaded with Windows Phone 7.5 or Samsung Galaxy S2
- Typos in Z-Push definitions
- Out of office on Windows Phone 7.5. does not work
- WM 6.5 fails to resynchronize
- Improve z-push-top to show active connections with priority
- ItemOperations should announce more to the top collector
- Send operations sometimes block httpd process
- Processing several incoming changes with missing states blocks sync
- Heartbeat sync fails on Android if all folders are disabled
- Attemps of FolderChange on shared folders do not show notice on mobile and do not terminate correctly
- Error setting OOF on Android
- Motorola MB860 process hangs when importing email read flag changes
- Busy systems can run out of shared memory
- Incoming message actions should be announced to the top collector

Zarafa
- iOS resets user password if ZCP is unavailable
- Windows Phone 7.5 does not show email preview
- Contact sync with Windows Mobile 6.1/6.5 does not work
- Warning in log while creating recurrent meeting request with windows phone
- ChangesSink sometimes does not receive notifications
- Multiple PHP warnings found while editing a meeting request with android 4.0.3
- Command sync hangs consuming 100% CPU on performing GetEmail()->setMessageBody()
- Read flag is not synchronized with the mobile with ZCP 6.40.17 or lower
- When ChangesSink can not be created this should be logged on WARN level
- Conflict detection should not be performed on slow or busy systems

Z-Push 2.0.1-1375 final (since 2.0.0) – stable

General
- Fetch operations on additional folders/stores fail
- Z-Push 2 with Moxier Mail for Android does not sync folder contents

Zarafa
- FreeBusy publish fails if public folder is unavailable
- Creating a calendar items shows freebusy warnings
- Error when php-mapi is not installed
- Warning on windows phone that description of an appointment not fully downloaded
Z-Push 2.0.0-1346 final (since 1.5.x) - stable

General
- Publish updated Mobile Device Management (MDM) plugin (Mantis #586)
- implemented: ChangesSink support (Mantis #562)
- implemented: Global sync status (Mantis #587)
- implemented: Note support (Mantis #550)
- implemented: Ability to ignore broken messages already from the backend (Mantis #568)
- implemented: Save device information sent through Settings (Mantis #557)
- implemented: AS 14 support with basic ItemOperation and Settings
- implemented: semantic checks for SyncObjects
- implemented: 'z-push-top' functionality
- implemented: Detection of concurrent PING connections (Mantis #484)
- implemented: Incoming (failstate) and outgoing loop detection (Mantis #410)
- implemented: Dynamic WindowSize property per device modified by loop detection (Mantis #452)
- implemented: state types to identify default, hierarchy, failsave, device data and pingdata states in the statemachine
- implemented: HTML e-mail support for Android 2.2+ phones
- implemented: Backend, Changes, StateMachine, SearchProvider interfaces (partly Mantis #408)
- implemented: 'Supported' (ghosted) properties (Mantis #409)
- implemented: recreating a profile on a device or requesting ForceFullResync() removes all related old states
- implemented: fail2ban compatibility - writes WARN into the main log - can be enabled with LOGAUTHFAIL
- implemented: allow un-authorized Provisioning commands for remote wipe
- implemented: Status handling for FolderSync, Sync, GetItemEstimate, Ping, FolderChange(FolderCreate, FolderUpdate, FolderDelete), Search, GetHierarchy, GetAttachment, MeetingResponse, MoveItems commands
- implemented: Status exceptions with HTTPReturnCodeException() for SendMail, SmartForward and SmartReply commands
- implemented: Full StatusException handling to Zarafa and Diff backends, basic support in IMAP, Maildir and vCard backends
- implemented: SyncProvisioning object for AS12+ provisioning
- implemented: use forked php-mapi classes
- implemented: refactored generic backend
- implemented: better timezone handling (Mantis #479) - thx to Robert Scheck for suggestion and patch
- implemented: alternative to apache_request_headers()
- implemented: ContentParameters class for SYNC_OPTIONS triggering major improvements on IChanges sub-interfaces and implementing classes
- implemented: basic AS12 body preference parsing
- implemented: use DeviceManager->GetFolderClassFromCacheByID() to determine content class for AS12+ calls
- implemented: Default policies to be applied (Mantis #589)
- implemented: GetStateHash() to IStateMachine
- implemented: z-push-admin works with Z-Push 2 user API
- implemented: Command 'Sync' with 'heartbeat' and 'partial' support
- implemented: Email-message flags (red flag aka todo flags) (Mantis #511)
- implemented: Objects which can not be synchronized (semantic or loop detection) are saved for users later attention (also in MDM)
- implemented: webServices for remote device administration (Mantis #546)
- implemented: Save AS version in device data. Used AS version is displayed in z-push-admin (Mantis #551)
- implemented: IBackend->GetSupportedASVersion(). The default Backend class returns AS2.5 while backends can overwrite this value if e.g. AS14 functionality is implemented.
- implemented: Permanent and State related storage functionality for backends
- implemented: [ZP-30] - Search emails on server
- implemented: [ZP-31] - Attendee status should be available on phone
- implemented: [ZP-65] - Empty server trash
- implemented: [ZP-94] - Better log for WBXMLExceptions
- added: [ZP-103] - Add GetMailboxSearchResults to the search interface
- added: [ZP-115] - Add a destroy method to the ISearchProvider so previous searches can be terminated
- added: [ZP-96] - Add segfault detection to process loopdetection
- added: [ZP-102] - Add config parameter for changes sink re-export time
- added: HandleGetAttachment() logs and announces information
- added: configurable $timeout in HandlePing (Mantis #528)
- added: new streamer type STREAMER_TYPE_SEND_EMPTY in order to be able to stream out required empty items by the wbxml streamer
- added: conversion functions from command to a constant code and vice versa
- added: perform SyncObject->Check() before streaming object to mobile
- added: DecodeBase64URI function for base64 encoded query parsing
- added: perform SyncObject->Check() when fetching or when receiving an incoming object
- added: definitions for body type of out of office message (related to Mantis #505)
- added: try to read SVN information directly to determine version
- added: use CommandCodes for command operations
- added: additional property deadoccur in order to support tasks iOS5 tasks
- added: Command parameters for base64 encoded requests (AS > 12.1)
- added: base64 encoded query string parsing (thx dw2412 for suggestion)
- added: new Streamer functionality to support non-container arrays
- added: Use mutex when writing to usercache in FileStateMachine (Mantis #588)
- added: Option to z-push-admin to reset loop detection (Mantis #608)
- added: [ZP-5] - Extend loop detection for invalid folderids in combination with SYNC_STATUS_FOLDERHIERARCHYCHANGED
- changed: improved state management (Mantis #163)
- changed: Specific backend files are only included if necessary and on request
- changed: CombinedBackend includes sub-backends dynamically
- changed: re-factorized Authentication into RequestProcessor
- changed: re-factorized BackendDiff internals
- changed: general log date & time format changed
- changed: configuration check order to improve logging
- changed: do not save devicedata for invalid "validate" device ids sent by Android server checks
- changed: check config before starting to parse request data
- changed: IBackend->MeetingResponse removing reference to resulting calendar entry, result is returned now. All backends updated.
- changed: load backend and statemachine already during ZPush::CheckConfig() so errors could be displayed in browser
- changed: renamed BackendVCDir to BackendVCardDir and SearchLDAP to BackendSearchLDAP to be compatible with ZPush::IncludeBackend()
- changed: introduced SYNC_PROVISION_RWSTATUS_REQUESTED (intermediary between PENDING and WIPE)
- changed: introduced latest known PolicyKey to PING data to push provisioning updates
- changed: throw FatalMisconfigurationException if FileStateMachine->setState() fails (runtime)
- changed: IStateMachine gets and saves states as 'mixed' data. Serialization is then done inside FileStateMachine
- changed: splitted WBXMLDefs, WBXMLDecoder and WBXMLEncoder in separate classes
- changed: use 9 digits for policy key as 10 might exceed the max value for it in base64 encoded string (thx to liverpoolfcfan & dw2412)
- changed: IBackend->GetAttachmentData() returns an SyncItemOperationsAttachment object and throws StatusExceptions - adapted all related backends
- changed: do not initialize WBXMLDecoder if the input stream is not WBXML (needed for some plain text commands e.g. SendMail to devices which only support AS < 14)
- changed: Command 'Ping' uses SyncCollections and does not need a dedicated syncstate anymore
- changed: Command 'GetItemEstimate' uses SyncCollections
- changed: Streamer implements Serializable so SyncObjects can be serialized easily
- changed: refactored StateManager from DeviceManager
- changed: use StateObject for ASDevice
- changed: refactored SendMail, SmartForward and SmartReply commands (Mantis #510)
- changed: always use reference PolicyKey from collections to execute ProvisioningRequired()
- changed: use latest AS version supported by Z-Push if the mobile does not announce AS ver.
- changed: Refactored RequestProcessor (Mantis #591)
- changed: [ZP-29] - Refactor SyncOptions to support several classes
- changed: [ZP-73] - Review truncation definitions
- changed: [ZP-72] - Options of Fetch operations should not be saved in the folder data
- changed: [ZP-74] - On Fetch requests states don't need to be loaded
- fixed: [ZP-87] - PHP's ob_start() has to be initialized with NULL
- fixed: [ZP-95] - Impossibility to rename folders on Android
- fixed: [ZP-99] - Old states are not discarded on Hierarchy operations
- fixed: [ZP-103] - Heartbeat exports already processed objects again
- fixed: [ZP-104] - SGSII with Android 4.0.3 duplicates objects on every sync/update
- fixed: [ZP-106] - z-push-top shows 0 objects synchronized while changes were sent
- fixed: [ZP-107] - z-push-top tweaks
- fixed: [ZP-57] - Warning when creating an appointment without a reminder
- fixed: [ZP-67] - Warning in logfile when marking a mail as read
- fixed: [ZP-88] - Provisioning on Nokia E-71 (Mail for Exchange 3.00.73) fails
- fixed: [ZP-22] - RIM's Playbook does resend emails over and over again
- fixed: [ZP-26] - Ignored messages which are exported again are sent with <Modify> instead Add
- fixed: [ZP-37] - Exception if device sends SyncKey "1" on FolderSync
- fixed: [ZP-41] - No correct Meeting request invitation displayed on MSExchange when sent from iOS over Z-Push
- fixed: [ZP-47] - Warning in FileStateMachine - Invalid argument
- fixed: \[ZP-55\] - From addresses with a not valid FQDN are displayed as broken-from@z-push.local
- fixed: \[ZP-69\] - Loop if ReferencePolicyKey() is empty
- fixed: \[ZP-70\] - Folderlist should not be sent in case of a non OK Ping status
- fixed: \[ZP-75\] - Synchronizing with Windows Phone 7.5 causes loop
- fixed: \[ZP-78\] - Errors when doing conflict detection
- fixed: Error when executing z-push-top or admin without permissions to log file (M #612)
- fixed: GetItemEstimate without valid state should return error status (Mantis #581)
- fixed: Usage instructions of z-push-admin can be misinterpreted (Mantis #600)
- fixed: Touchdown does not work if provisioning is disabled (Mantis #594)
- fixed: Processor does not send with empty sync response (Mantis 566) - thx to liverpoolfcfan for reporting
- fixed: WP 7 and WM 6.5 are unable to sync (Mantis #575)
- fixed: Impossible to process incoming changes if the content class of the folder is unknown (Mantis #593) - thx deHoeninger for reporting
- fixed: Do not use functions deprecated in PHP 5.3 (Mantis #576)
- fixed: Emails do not have a sender on phone (Mantis #556)
- fixed: Created MA from IOS are not created on the server (Mantis #560)
- fixed: operator name and email are optional elements of SyncAppointment. Do not fail on Check() (Mantis #560)
- fixed: set GET user to "unknown" if no username is available (Mantis #575)
- fixed: New mail from android produces @localhost error in spooler and postfix logs. Do not parse an email address if it is set but empty. (Mantis #554)
- fixed: GalaxyTab sends empty ping folders tag (Mantis #582) – thx to Steve for reporting and fixing
- fixed: It's impossible to send an email with an attachment using iPhone with iOS 4 or 5 (Mantis #531)
- fixed: typo in SYNC_AIRSYNCHBASE_ATTACHMENTS preventing emails with attachments to by synched
- fixed: after detecting a loop changes might have gone away (e.g. by deleting them). Loop detection is canceled then (Mantis #521)
- fixed: PingTracking: do not timeout connection if it would terminate within 30 seconds anyway (related Mantis #516)
- fixed: process SYNC_CONVERSATIONMODE and save value in ContentParameters (Mantis #527)
- fixed: check if shared memory is available before trying to use it
- fixed: Impossible to download attachments with iPhone (Mantis #520)
- fixed: wbxml tag order for ping should not be relevant (Mantis #490)
- fixed: check if folder is known to the device before saving supported fields
- fixed: Eurosign (€) gets scrambled when sending email from Windows Mobile (Mantis #456)
- fixed: patch to add forgotten licensing exception to LICENSE file (Mantis #462) (thx to Robert Scheck for reporting)
- fixed: Streamer and RFC822 class should not be executable by default while z-push-admin should be (Mantis #472) (thx to bencer from Zentyal for reporting)
- fixed: typo prevents LOOSE_PROVISIONING (Mantis #476)
- fixed: body truncation not always correct (Mantis #467)
- fixed: \[ZP-7\] - SYNC_FILTERTIME_MAX is not always honoured (reported by Vincent aka liverpoolfcfan)
- fixed: \[ZP-8\] - Z-Push's hex2bin() conflicts with php 5.4 hex2bin implementation (reported by Wolfram Quester)
- fixed: \[ZP-11\] - iPad does not understand global status 12 and loops
- fixed: \[ZP-12\] - Status SYNC_STATUS_INVALIDSYNCKEY is not interpreted by Touchdown (reported by Erwin aka ebogaard)
- fixed: \[ZP-13\] - PING request discards old states (reported by Jan aka deHoeninge)
- fixed: \[ZP-14\] - z-push-admin does not work with combined backend (reported by dupondje)
- fixed: \[ZP-15\] - Moving messages from main store to e.g. public folder does not work
- fixed: \[ZP-16\] - StatusException SYNC_STATUS_FOLDERHIERARCHYCHANGED can sometimes not be sent to device
- fixed: \[ZP-17\] - Unable to create appointments on Windows Phone 7 (reported by Rudi aka rwaron)
- fixed: \[ZP-18\] - Z-Push-Admin is not able to display contact's name in case object needs attention
- fixed: \[ZP-19\] - z-push-top does not work on Suse systems
- fixed: \[ZP-20\] - PHP Warning: Undefined variable: smartreply (8)
- fixed: \[ZP-21\] - Loop detection works on all messages to be exported
- fixed: \[ZP-27\] - Loopdetection has to consider ids of objects which are streamed
- fixed: \[ZP-28\] - Errors on SMS sync
- fixed: \[ZP-32\] - Android unable to send mail, worked with previous v2.0beta1-1139 (reported by bbzweb)
- removed: AlterPing of backends is obsolete (Mantis #585)
Zarafa/ICS
- implemented: WasteBasket support (deleted emails are moved there) (Mantis #573)
- implemented: refactored Zarafa backend
- implemented: refactoring of the centralized MAPI access
- added: function for defining native body type from plain text, html, rtf and rtfinsync properties
- added: set default internet cpid property value to 65001 (utf-8) if the store supports unicode properties
- added: PR_ATTACHMENT_CONTENT_ID_W unicode type definition
- added: MAPI definitions for the attendee type (relevant to Mantis #565)
- added: [ZP-101] - If login fails print value of mapi_last_hresult()
- changed: [ZP-49] - Improve the server side search
- changed: [ZP-76] - Research and merge phpmapi changes
- changed: only set the truncation size data if device set it in request
- changed: Authenticated messages not to be logged on INFO level (Mantis #619)
- changed: GAL search returns not all values available in ADS (Mantis #469)
- changed: do not truncate emails if body preference type is SYNC_BODYPREFERENCE_MINE or the iphone won't be able to show attachments
- fixed: typo in settingsUserInformation resulting in warning
- fixed: Use constants instead of hard-coded values for the Internet CPID property (Mantis #579)
- fixed: Mails deleted on Android phones throw StatusException (Mantis #559)
- fixed: Appointments with many attendees can cause high load and are now ignored (Mantis #577)
- fixed: The timezone for appointments on some android devices is wrong (Mantis #580)
- fixed: Android calendar is not working (Mantis #602)
- fixed: Reply/forward flags are not set after answering an email on Android (Mantis #604)
- fixed: Errors when deleting a folder on a mobile (Mantis #626)
- fixed: Emails sent from mobiles stay in Outbox folder (Mantis #605)
- fixed: Tasks and SyncMeetingRequest reminder flag should always be set (Mantis #617)
- fixed: iOS 5 tasks' due vs. start date prevent synchronization (Mantis #598)
- fixed: Only first of multiple lines of a note's body is saved on the server (Mantis #599)
- fixed: Changed notes of appointment not saved on the server (Mantis #601)
- fixed: SyncObject->Check() should not set reminder if no reminder is set for appointment (Mantis #569)
- fixed: PR_SEARCH_KEY is set to a wrong value (Mantis #570)
- fixed: Delete and Move operations are not pushed to the mobile (Mantis #595) - thx deHoeninger for reporting
- fixed: a task created on a mobile doesn't appear in Outlook Today view. The due date must be at 2:00PM straight (Mantis #525)
- fixed: catch MAPIException in ExportChangesICS() when Exporter can not be configured (Mantis #490)
- fixed: Sending attachments from Nokia may result in empty file at recipient (Mantis #451)
- fixed: Synchronizing an empty folder an additional ICS exporter is registered on each request (Mantis #480)
- fixed: emails sent from an iPhone with iOS 4 are delivered to the recipient with an empty subject (Mantis #529)
- fixed: Android 2.2 displays emails as priority low which have NO priority (Mantis #439)
- fixed: body truncation not always correct (Mantis #467)
- fixed: HTML code in mails sent from Android 2.2 (Mantis #472)
- fixed: Lazy conflict detection shows warnings and does not check conflicts (Mantis #481)
- fixed: Appointment is not synchronized after meeting invitation was accepted in the Webaccess of ZCP 7 (Mantis #475)
- fixed: Saving empty categories fails (Mantis #468)
- fixed: Contacts Birthday not properly saved from Android (Mantis #487)
- fixed: Contacts created on Android phones present doubled names (Mantis #486)
- fixed: Meeting request responses can not be processed correctly (Mantis #485)
- fixed: GAL search shows 'undefined offset of PR_ACCOUNT' warnings (Mantis #488)
- fixed: Exception body changes of recurring appointments are not displayed or saved on mobile (Mantis #461)
- fixed: [ZP-4] - Double quoted email addresses show invalid high character encoding on iOS
- fixed: [ZP-6] - Setting reminder to none does not work
- fixed: [ZP-34] - Warning when saving contact without zip code or state
- added: [ZP-61] - Inline.txt instead of inline image on Android
- added: [ZP-83] - Email sent from a mobile with ZCP 7.0.6 or higher is not moved to Sent Items folder
- fixed: [ZP-84] - No recipient for emails in Sent Items folder on the mobile
- fixed: [ZP-85] - Impossible to send an email using HTC one X (Undelivered Mail Returned to Sender)
- fixed: [ZP-86] - Unable to respond to a meeting request on Android
- fixed: [ZP-33] - RIM's Playbook and HTC one X only display some calendar entries
- fixed: [ZP-58] - WBXMLException when replying an email
- fixed: [ZP-60] - Zarafa-fsck reports invalid property on recurrent calendar items created on iPhone
- fixed: [ZP-66] - Apple Iphone shows hidden maps
- fixed: [ZP-89] - Not able to create new map in parent tree on Iphone
- fixed: [ZP-92] - z-push-admin shows notices
- fixed: [ZP-97] - No recipient for emails in Sent Items folder on the mobile
- fixed: [ZP-100] - Warning when synchronized folders entryid can not be opened
- fixed: [ZP-112] - Process hangs consuming 100% CPU on performing GetEmail()
  >processMeetingCancellation()
- fixed: [ZP-113] - Print php-mapi version into log
- fixed: [ZP-114] - Moves do not trigger notifications on source and destination folder if both are monitored in a changes sink
- fixed: [ZP-117] - Warning when MeetingRequest can not be opened
- fixed: [ZP-119] - Replied/forwarded message does not contain the original message
- fixed: [ZP-120] - Range in the GAL search response is invalid
- fixed: [ZP-125] - Fatal WBXML on recipient search in the GAL
- fixed: [ZP-127] - PHP Fatal error: Call-time pass-by-reference has been removed with PHP 5.4
- fixed: [ZP-128] - Heartbeat export optimizations disable loop detection
- fixed: [ZP-135] - Special chars are broken on an Android 4 and Windows Phone

**Diff Backend**
- implemented: refactored Diff backend
- changed: [ZP-98] - Remove the constructor from BackendDiff class

**IMAP backend**
- implemented: imap folder ids are masked as hex ids to be used by the processor. Incoming hex ids are unmasked on the fly
- implemented: ChangesSink functionality previously provided by AlterPing()
- fixed: importance status set by imap backend was incompatible with AS-importance
- fixed: no attachments on the mobile if Content-Disposition header is not set (Mantis #458)
- fixed: email is not quoted-printable encoded even if the header states it (Mantis #460)
- fixed: email can't be synchronized with certain date format in header (Mantis #454)
- fixed: Folders with special chars break synchronization (Mantis #463)
- fixed: Iconv conversion from UTF7 does not work (Mantis #574)
- fixed: [ZP-2] - Typo in DiffState prevents conflict detection