Switching Tiki from Zend Framework1 (ZF1) to Zend Framework2 (ZF2)

Why?

Tiki15 is planned to be a LTS release. As of 2015-10 trunk (future Tiki15) is still on Zend Framework 1.

Zend Framework 1 is in maintenance mode. End of Life (EoL) is not yet announced, their FAQ says We currently plan to fully support Zend Framework 1 until at least early 2014, including maintenance and security updates.. This date has passed already, seems like there is no new target date set yet, however most probably ZF1 will be retired during the lifespan of Tiki15.

It does not seem to be a good idea to release a Tiki LTS with a core component being left without official support while Tiki15 itself is meant to be supported.

Zend Framework 2 has an LTS release, which seems to be a good candidate to make the switch to.

What?

Phase1: Assess the feasibility of making the switch before Tiki15 is released using exerimental branch
Phase2: Make the switch (merge back the experimental branch)

When?

Phase1 - Assessment: november 2015 done
Phase2 - Merging to trunk: done with r56812

Where?

Create an experimental branch for the assessment, probably execute there than merge into trunk. Also probably will need to stop auto merging between tiki14 and trunk once it starts.

The experimental branch is live in branches/experimental/zf1-to-zf2

Who?

- gezza: consultation, testing
- Ricardo Melo: code review, make the switch

Assessment

//List of zf1 components being used and possible alternatives when switching to ZF2
//caption: current ZF1 = future ZF2
Zend_Captcha = Zend\Captcha
Zend_Config = Zend\Config
Zend_Date = DateTime
Zend_Exception = Needs to be reviewed case by case, no base class
Zend_Feed = Zend\Feed
Zend_Filter = Zend\Filter
Zend_Gdata = No component
Zend_Http = Zend\Http
Zend_Log = Zend\Log
Zend_Mail = Zend\Mail
Zend_Mime = Zend\Mime
Zend_Oauth = Zend\OAuth
Zend_OpenId = Zend\OpenId
Zend_Search = Zend\Search
Zend_Service_Akismet = ZendService\Akismet
Zend_Service_Twitter = ZendService\Twitter
Zend_Session = Zend\Session
Zend_Soap = Zend\Soap
Zend_Tag = Zend\Tag
Zend_Uri = Zend\Uri
Zend_Validate = Zend\Validator
Zend_View = Zend\View

//Files that need to be changed
db/tiki-db.php
installer/tiki-installer.php
lib/accounting/accountinglib.php
lib/captcha/Captcha_Questions.php
lib/captcha/captchalib.php
lib/comments/commentslib.php
lib/core/DeclFilter.php
lib/core/FutureLink/FutureUI.php
lib/core/FutureLink/SendToFuture.php
lib/core/Math/Formula/Runner.php
lib/core/Search/ContentFilter/VersionNumber.php
lib/core/Search/Elastic/Connection.php
lib/core/Search/Indexer.php
lib/core/Search/Lucene/HighlightHelper.php
lib/core/Search/Lucene/Index.php
lib/core/Search/MySql/HighlightHelper.php
lib/core/Search/ResultSet.php
lib/core/Search/ResultSet/SnippetHelper.php
lib/core/StandardAnalyzer/Analyzer/Standard.php
lib/core/StandardAnalyzer/Analyzer/Standard/English.php
lib/core/StandardAnalyzer/Readme.txt
lib/core/StandardAnalyzer/TokenFilter/EnglishStemmer.php
lib/core/Tiki/Command/IndexCatchUpCommand.php
lib/core/Tiki/Command/MailQueueSendCommand.php
lib/core/Tiki/Connect/Server.php
lib/core/Tiki/MailIn/Source/Imap.php
lib/core/Tiki/MailIn/Source/Pop3.php
lib/core/TikiFilter.php
lib/core/TikiFilter/AttributeType.php
lib/core/TikiFilter/Callback.php
lib/core/TikiFilter/HtmlPurifier.php
lib/core/TikiFilter/IsoDate.php
lib/core/TikiFilter/PreventXss.php
lib/core/TikiFilter/RawUnsafe.php
lib/core/TikiFilter/WikiContent.php
lib/core/TikiFilter/Word.php
Progress

All components have been migrated and merged to trunk

To make sure that the branch can be tested during the process, the following process has been adopted:
1. Add the new ZF dependency, using the last LTS version from ZF2 (~2.4.0), or the last minor version for ZendServices done
2. Replace all ZF1 calls with the new ZF2 calls (adapt, test, commit) done
3. Last Step: after all ZF1 components been replaced, remove the dependency from ZF1 from composer. done

Related pages
Composer Zend
Zend Framework

Known issues
PHP Intl needed - fixed


Error:
On a windows setup this error might come in the installer: "Fatal error: Uncaught exception 'Zend\I18n\Exception\ExtensionNotLoadedException' with message 'Zend\I18n\Filter component requires the intl PHP extension'"

Solution:
In php.ini enable "extension=php_intl.dll", restart apache
If it does not help, than read:

UPDATE: the installer is still showing some error/notice at the final step, I attached screenshot about it.
UPDATE2: r56682 (experimental branch) fixed it