**Modules/Performance**

Most irrelevant modules have been disabled.

[NOTE]: Many of them are completely removed by commenting out all content of the xml file (not just set active=false), i.e. these modules will NOT be loaded into Mage config.

However these empty xml files will still be loaded during Mage init ("renaming to .disable" will not merge correctly with the master branch). Enable caching will help.

[WARNING]: <Enterprise\_Enterprise> no longer depends on <Mage\_AdminNotification>

**Global Overwrites**

1. *Code: Using local code pool to overwrite core code pool automatically*

By default, Varian autoload logic allows automatic overwrite for Block/Controller/Helper/Model files, whose class names are match the file path. However, for other folders like etc/controllers/sql/data (data is an additional sql folder for enterprise modules), local files does NOT overwrite the core automatically.

The current setup enables automatic overwrite for 'etc' and 'controllers' folder:

* For 'etc' overwrite, Mage\_Core\_Model\_Config /public function getModuleDirInLocal($type, $moduleName)/ has been modified to test if the .xml exists in local folder (works all .xml files, config.xml, system.xml, adminhtml.xml, etc)
* For 'controllers' overwrite, Mage\_Core\_Controller\_Varien\_Router\_Standard /getControllerFileName($realModule, $controller)/ has been modified in addition to Mage\_Core\_Model\_Config

[NOTE]: such modifications are made in app/code/local/Mage folders (e.g. overwrite Mage\_Core\_Model\_Config in the local folder), since the core config file is usually loaded by literal class name, overwrite the class in the config.xml will not work for those cases

This updates does NOT support sql/data local overwrites. Since the overwrite logic is delicate and it might not be the best practice to overwrite them. Should this feature be desirable in the future, here is some useful info:

Mage::app()->run()

Mage\_Core\_Model\_Resource\_Setup::applyAllDataUpdates()

Mage\_Core\_Model\_Resource\_Setup /protected function \_getAvailableDataFiles($actionType, $fromVersion, $toVersion)/

1. *Design: Overwrite adminhtml layouts and templates*

This is achieved in the <Harapartners\_Service> module. ‘global>>blocks’:

<adminhtml>

<rewrite>

<page>Harapartners\_Service\_Block\_Adminhtml\_Page</page>

</rewrite>

</adminhtml>

**Optimizations**

Disable <Mage\_Log> module: This module creates heavy writes into the database. Everything a user access a page, it creates visitor logs and URL logs (4 tables!)

However, this module has been hardcoded into the core logic, and disable by module config will cause critical error at lots of places. As a result, we overwrite public function save()function, and bypass all database writes.