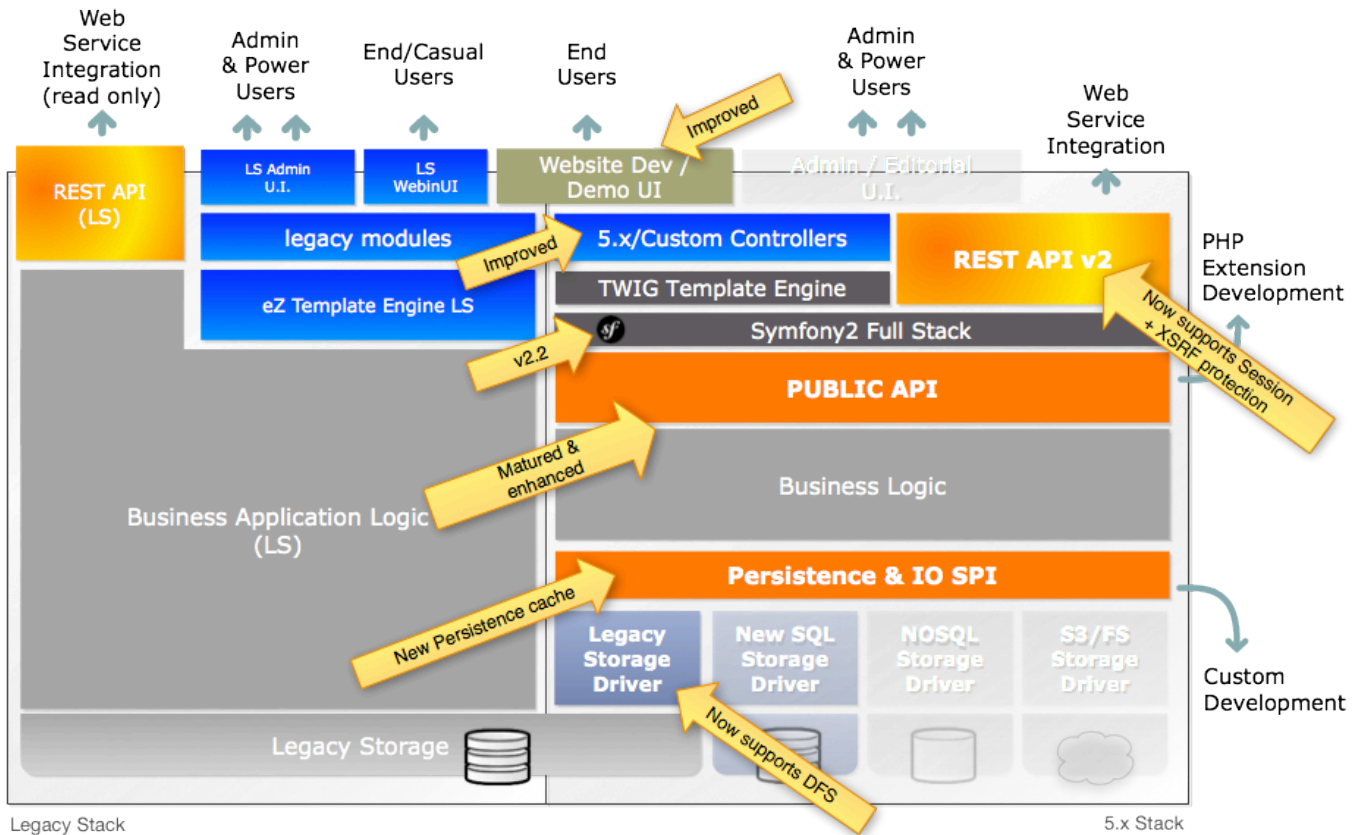# 5.1 Release Notes

5.1 Release Notes

eZ Publish 5.1 is our most Scalable, most Stable and most Feature Rich eZ Publish 5.x version & eZ Publish version to date. Either if you intend to start using the 5.x API & Symfony stack or if you plan to use legacy and pure 4.x functionality, this is our recommend LTS release.

Architecture overview as of 5.1

Just like 5.0, 5.1 consists of a "Dual-kernel". On the left side you'll see the legacy stack, an enhanced and stabilized version of the 4.x kernel. On the right side is the 5.x stack, with the arrows indicating some highlighted improvements made since 5.0.

Highlighted 5.1 features in 5.x stack

IO Clustering support for use with legacy DFS

This release brings the missing DFS clustering support in 5.x kernel allowing REST/Public API to be used in combination with clustered installation when dealing with binary files. [PR, Doc]

Persistence DB cache using Stash

This feature enhances performance and clustering scalability by sitting between the API and the database storage engine and in default setup cache everything but search queries lowering load of backend considerably. [PR, Doc]

eZPage (ezflow) FieldType read-only support

One of the steps done in this release that makes it possible to use 5.x stack fully for content rendering with standard fieldtypes without having to use legacy fallback as was the case in 5.0. [PR, Doc]

Small but big improvements in 5.x stack implemented in 5.1

- Varnish support in the HTTP Cache Purge system [PR, Doc]
- Twig Helper (ezpublish & ezpublish.legacy global variable) [PR, Doc]
- eZDate & eZTime FieldType support [PR, Doc]
- Symfony Locale integration [PR, Doc]
- Integrate Symfony2 CSRF protection with ezformtoken [PR, Doc]
- Legacy cronjobs & scripts should be launchable from Symfony CLI [PR1, PR2, Doc]
- Multisite with single content repository [PR, Doc]
- GraphicsMagick support [PR, Doc]
- Content type identifier criterion [PR, Doc]
- Siteaccess compound matcher to be able to do host & url matching [PR1, PR2, Doc]
- Update to Symfony 2.2 [PR, Doc, Blog Post]
- Default layout for legacy content fallback configurable by SiteAccess [PR, Doc]
- Add option to allow Twig template to override rendering of legacy requests [PR1]
- REST support for session authentication with CSRF token support [PR1, PR2, Specifications, Doc]
- Completed support for permissions and limitations [PR1, PR2]
- Improved scalability of the legacy database [PR1, PR2, PR3]
- + hundreds small/medium improvements & bug fixes in Public API, REST API, legacy and Demo bundle, *see full change-log below*.

5.1 Changelog

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5.1 Known issues

Known issues in 5.1

Whats next?

With 5.1 out the door, our focus will shift more towards new 5.x based user interfaces while also improving the 5.x stack further, in no particular order:

Feature	Details	Planned for
Performance	HTTP cache for logged in users, detailed performance tracking, use Symfony 2.3 Proxy services, further profile & improve kernel	5.2/5.future
Symfony integration	Symfony based login, full Bundle based permission integration for easier re-use in custom Bundles, ..	5.2/5.future
Content Scalability	Future improved database handler and File storage to cross the 1 million content object soft barrier	5.future
Clustering scalability	New stack configuration, improved database and file storage that can scale across servers and datacenters, Async event handling with background daemon	5.future
API	Solr support, REST Oauth support (Symfony Bundle), WorkFlow, Subscription/Notification, Import/Export	5.2/5.future
UI	Front end editing, UGC, language switcher, AdminBundle, EditorialBundle & Setup functionality	5.2/5.3LTS
FieldTypes	Tags, Page (ezflow) write support, Matrix, Identifier, XmlText html5 (editing and REST), Improved Media/Binary field types for cloud storage/CDN needs	5.2/5.future

Extensibility	Criterion, SignalSlots, REST server, Limitations, code generation, ..	5.2/5.future
Modules	Content (Search, ..), Comments (using content model), InfoCollector (using Symfony Forms), RSS, Staging, tip a friend, Rating	5.2/5.future

For technical info on feature naming and comparison between 5.x and 4.x, see this community maintained Google spreadsheet.