

Binary files handling

The eZ Publish 5 API supports multiple binary file handling mechanisms by means of an `IOHandler` interface. This feature is used by the [Binary File](#), [Media](#) and [Image FieldTypes](#).

Starting from versions 5.4 / 2014.09, a native IO handler is available.

The LegacyKernel IO handler, that runs legacy kernel callbacks, is removed.

Native IO handler **5.4 / 2014.09**

The unique `IOHandler` interface is removed, replace by two distinct interfaces:

- `eZ\Publish\IO\IOMetadataHandler`: Stores & reads metadata (validity, size...)
- `eZ\Publish\IO\IOBinarydataHandler`: Stores & reads binarydata (actual contents)

The `IOService` uses both.

Configuration

IO handling can now be configured using semantic configuration.

Which IO handlers (metadata & binarydata) is configurable by siteaccess. This is the default configuration:

```
ezpublish:
  system:
    default:
      io:
        metadata_handler: default
        binarydata_handler: default
```

metadata and binarydata handlers are configured in the `ez_io` extension. This is what the configuration looks like for the default handlers. It declares a metadata handler and a binarydata handler, both labelled 'default'. Both handlers are of type 'flysystem', and use the same flysystem adapter, labelled 'default' as well.

```
ez_io:
  metadata_handlers:
    default:
      flysystem:
        adapter: default
  binarydata_handlers:
    default:
      flysystem:
        adapter: default
```

The 'default' flysystem adapter's directory is based on your site settings, and will automatically be set to `%ezpublish_legacy.root_dir%/var_dir/$storage_dir$` (example: `/path/to/ezpublish_legacy/var/ezdemo_site/storage`).

The native Flysystem handler.

`league/flysystem` (along with `FlysystemBundle`) is an abstract file handling library.

It is used as the default way to read & write content binary files in eZ Publish. It can use the local filesystem (our default configuration), but is also able to read/write to sftp, zip or cloud filesystems (dropbox, rackspace, aws-s3).

handler options

adapter

The adapter is the 'driver' used by flysystem to read/write files. Adapters can be declared using `oneup_flysystem` as follows:

```
oneup_flysystem:
  adapters:
    default:
      local:
        directory: "/path/to/directory"
```

How to configure other adapters can be found on the [bundle's online documentation](#). Note that we do not use the Filesystems configuration described in this documentation, only the adapters.

Upgrading

For those using the default `eZFSFileHandler`, no configuration should be required, and things should just work like before, but without legacy kernel callbacks for manipulating images & binary files.

For those using the DFS cluster file handler, a new native handler is available. See the [DFS specification](#).