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| **PHP Software Development Standard** | |

# Purpose

This document describes the Florida Department of Environmental Protection’s (DEP) PHP Development Standard. While Java is DEP’s standard for enterprise development, PHP will serve as a light weight alternative for very small applications and reporting. This document also references additional guidance and supporting standards necessary to comply with this standard.

# Scope

This standard applies to all PHP software development projects and reports at DEP.

# Standard

Code Setup, Configuration and Migration Implementation

1. All source code shall be maintained at DEP, using the SVN code versioning repository.
2. All projects shall submit an email request to: [SDI.Requests@dep.state.fl.us](mailto:SDI.Requests@dep.state.fl.us) to set up a DEP Subversion repository and Deployment job.
3. All projects must complete a one-time setup on the Development, Beta, and Production environments by sending a Service Desk request to: [MiddleTierOracle@dep.state.fl.us](mailto:MiddleTierOracle@dep.state.fl.us).
4. All Production application migrations occur on Thursday evenings and require an email request to schedule the Production migration several days prior to the move. This is performed by sending a Service Desk request to: [MiddleTierOracle@dep.state.fl.us](mailto:MiddleTierOracle@dep.state.fl.us).

Framework and Security Implementation

1. All PHP applications shall leverage the *CodeIgniter* framework, to enable standardization and leverage existing libraries. ([*www.codeigniter.com*](http://www.codeigniter.com)*)*
2. All projects shall use Oracle Identity Management for authentication via DEP’s Oracle Portal using the PHP/DepSec API.
3. All projects shall develop code to prevent SQL injection and data concurrency issues while interacting with the database.
4. All applications shall be developed to operate in the ***IT Infrastructure Environment Specification*** (FL Dept. of Environmental Protection, 2010)

User Interface

1. All PHP applications shall leverage the Center for Medicare & Medicaid Services (Federal Government) Assets framework. This framework enforces Section 508 compliance, enables responsive design, and grants access to leverage an enormous amount of libraries to quickly create functionality. ([*http://assets.cms.gov/resources/framework/3.0/Pages/#framework*](http://assets.cms.gov/resources/framework/3.0/Pages/#framework))
2. All PHP applications shall comply with the CodeIgniter coding standard. ([*https://ellislab.com/codeigniter/user-guide/general/styleguide.html*](https://ellislab.com/codeigniter/user-guide/general/styleguide.html) ) The only deviation from the CodeIgniter standard that is to use UpperCamelCasing for class names and lowerCamelCasing for variable names, without using any underscore ( \_ ) characters.
3. All projects utilize the DEP standard look & feel layout for banners, headers, footers, font, layout and other interface components, as dictated by the DEP communications office.
4. All PHP reports shall leverage the following re-usable components for report generation involving:
   1. Displaying recordsets
   2. Pagination for displayed recordsets
   3. Export of recordsets to Excel and PDF formats
5. All projects shall leverage existing DEP libraries, prior to developing new libraries.

Application Design

1. All projects shall follow the ***Physical Data Modeling Standard*** (FL Dept. of Environmental Protection, 2009).
2. All projects shall follow the ***Logical Data Modeling Standard*** (FL Dept. of Environmental Protection, 2007).
3. All projects containing location data shall comply with the ***Location Data Standard*** (FL Dept. of Environmental Protection, 2009).
4. All GIS components must comply with the ***GIS Development Standard*** (FL Dept of Environmental Protection, 2009).
5. All projects shall complete and submit an ***Impact Assessment Summary*** (FL Department of Environmental Protection, 2009).

# Deviation from Use

Any deviation from this standard shall be documented in associated project and contract documentation. For contracts, deviation from standard shall be documented and approved by the DEP contract manager. For non-contract work, deviation from use shall be documented in the project plan/scope of work and approved by the project manager.

# Bibliography

FL Dept. of Environmental Protection. (2010). *IT Infrastructure Environment Specification.* Tallahassee: FL DEP.

FL Dept. of Environmental Protection. (2009). *Physical Data Modeling Standard.* Tallahassee: FL DEP.

FL Dept. of Environmental Protection. (2007). *Logical Data Modeling Standard.* Tallahassee: FL DEP.

FL Dept. of Environmental Protection. (2009). *Location Data Standard.* Tallahassee: FL DEP.

FL Dept of Environmental Protection. (2009). *GIS Development Standard.* Tallahassee: FL DEP.

FL Department of Environmental Protection. (2009). *Impact Assessment Summary Template.* Tallahassee: FL DEP.

**Approved by Warren Sponholtz, CIO** \_\_\_9/25/2015\_\_\_\_\_\_\_\_\_\_\_\_\_

**Approval Date**