Configuration

Parameters

- "Pour" configuration
- app/config/parameters.yml.dist
- app/config/config.yml
- Constants vs configuration options
- Cleaned up during container build
- "Public" parameters definition

Configuration formats

- PHP
- Xml
- Yaml
- Annotations
- INI

Locating & Loading resources

- FileLocator
- LoaderInterface
- Usage example OroWorkflowExtension

Semantic configuration

OroHealthCheckBundle Configuration, Extension

```yaml
oro_health_check:
    maintenance_driver:
        class: 'Oro\Bundle\HealthCheckBundle\Drivers\FileDriver'
        options:
            file_path: %kernel.root_dir%/cache/maintenance_lock
            ttl: 600
```

Symfony TreeBuilder vs Oro SettingsBuilder

Validation Configuration Values

- scalar (generic type that includes booleans, strings, integers, floats and null)
- boolean
- integer
- float
- enum (similar to scalar, but it only allows a finite set of values)
- array
- variable (no validation)

```
$rootNode
    ->children()
        ->integerNode('entries_per_page')
            ->info('This value is only used for the search results page.')
            ->defaultValue(25)
        ->end()
    ->end()
;
```

Validation Configuration Values

You should know

- ->performNoDeepMerging() - override
- ->prototype(array')
- ->append($this->addAnotherNode())
- XML support
- <u>Multiple bundles configuration</u>
- Don't Do It

Yaml format

YAML Ain't Markup Language

- Fast
- Clear error messages
- Types support
- DRY - Merge key support
- Error tolerant yet
- lint:yaml config

```yaml
invoice: 34843
date   : 2001-01-23
bill-to: &id001
    given  : Chris
    address:
        lines: |
            458 Walkman Dr.
            Suite #292
        city    : Royal Oak
        state   : MI
        postal  : 48046
ship-to: *id001
product:
    - sku       : BL394D
      price     : 450.00
    - sku       : BL4438H
      price     : 2392.00
tax  : 251.42
total: 4443.52
comments: >
    Late afternoon is best.
    Billsmer @ 338-4338.
```

Syntax overview

```yaml
# multiline
foo: |
  \/ /| |\/| |
  / / | |  | | |__

bar: >
  This is a very long sentence
  that spans several lines in the YAML
  but which will be rendered as a string
  without carriage returns.

# NULL
{null_value: null, null_value_2: ~}

# simple date
2002-12-14
```

Yaml format

- Imports
- Automated imports with OroDistributionBundle
- Configuration organization in application level
  - AppKernel, /config
- Fixtures configuration

Annotations

- [Example1](#), [Example2](#)
- [PhpDoc](#)
- Annotation [definition](#)
- [Reading controller annotation](#)

@Target annotation

- **CLASS**
- **PROPERTY**
- **METHOD**
- **ALL** - class, property and method
- **ANNOTATION** - inside other annotations

Built-in annotations

- Controller

Sensio\Bundle\FrameworkExtraBundle\Configuration\ConfigurationAnnotation

- Doctrine Entity

Doctrine\ORM\Mapping\Annotation

OptionsResolver

- Defined, Default, Required, Allowed types
- Dependent default
- Normalizers

  ○ for dependent options

  ○ for normalizing the value

Debugging

- config:dump-reference twig
- debug:config twig