

# API

# General information

- FOSRestBundle and NelmioApiDocBundle
- JSON.API specification
  - <http://jsonapi.org/>
- Supports WSSE authentication
  - <https://oroinc.com/orocrm/doc/current/dev-guide/cookbook/how-to-use-wsse-authentication>
- Requires User API Key
- Custom entities, dictionaries and enum accessible by default

# General information

- Commands
  - oro:wsse:generate-header
  - oro:api:cache:clear
  - oro:api:doc:cache:clear
  - oro:api:debug
  - [more](#)
- Sandbox
- Plain API is outdated!!!

*Demonstration UI - sandbox >>>*

# Actions

- Get - GET <entity>/<id>
- Get list - GET <entity>
- Create - POST <entity>
- Update - PATCH <entity>/<id>
- Delete - DELETE <entity>/<id>
- Delete list - DELETE <entity>

# General configuration

- Entity based
- Generated automatically for specified entities
- Custom entity aliases
- Excluded entities and fields
- Filters
- Sorters
- Validation
- X-Include header

# Entity configuration

- May be excluded
- Documentation (!)
- Max results
- Default order
- Form to process create and edit
- Delete handler

[\[Documentation\]](#)

# Field configuration

- May be excluded
- Data type
- May refer to other property (property path)
- Symfony Form Data transformers are used
- Form to process create and edit
- Meta property

[\[Documentation\]](#)

# Filters configuration

- May be excluded
- Data type
- Multiple values
  - `allow_array`: true + comma separated (see: notes)
- May refer to other property (property path)
- Operators
- Custom filters + custom options: config
- Added for fields with indexes by default

[\[Documentation\]](#)



# Sorters configuration

- May be excluded
- May refer to other property (property path)
- Added for fields with indexes by default

[\[Documentation\]](#)

# Actions configuration

- May exclude some actions
- ACL protection
- Page size
- Fields
- Form to process create and edit
- If an option exists in both entity and action configurations the action option wins

[\[Documentation\]](#)

# Processors

- Custom processing for API requests
- May contain business logic of Data API
- May change configuration and data
- DIC tag `oro.api.processor`
- Conditions
  - Action
  - Group
  - Class
- Priority

[\[Documentation\]](#) & [\[Example\]](#)

# Context

- Stores configuration, metadata, request and result
- Action specific
- Passed to all processors
- Data can be changed
  - Example

[Documentation]

# Processor Groups

- Action specific
- Executed one by one
- Processors inside the same group are executed according to their priority
- bin/console oro:api:debug

[\[Documentation\]](#)

# X-Include header

- Returns additional information
- Developer may add custom includes

[\[Documentation\]](#)

# Example

<https://github.com/oroinc/crm/blob/3.1/src/Oro/Bundle/SalesBundle/Resources/config/oro/api.yml>

# Documentation

- How to
  - Add a custom controller
  - Expose an API for non-entity resource