

Onboarding DMA Software to the ESCAPE-OSSR Catalogue

By the example of R3BRoot

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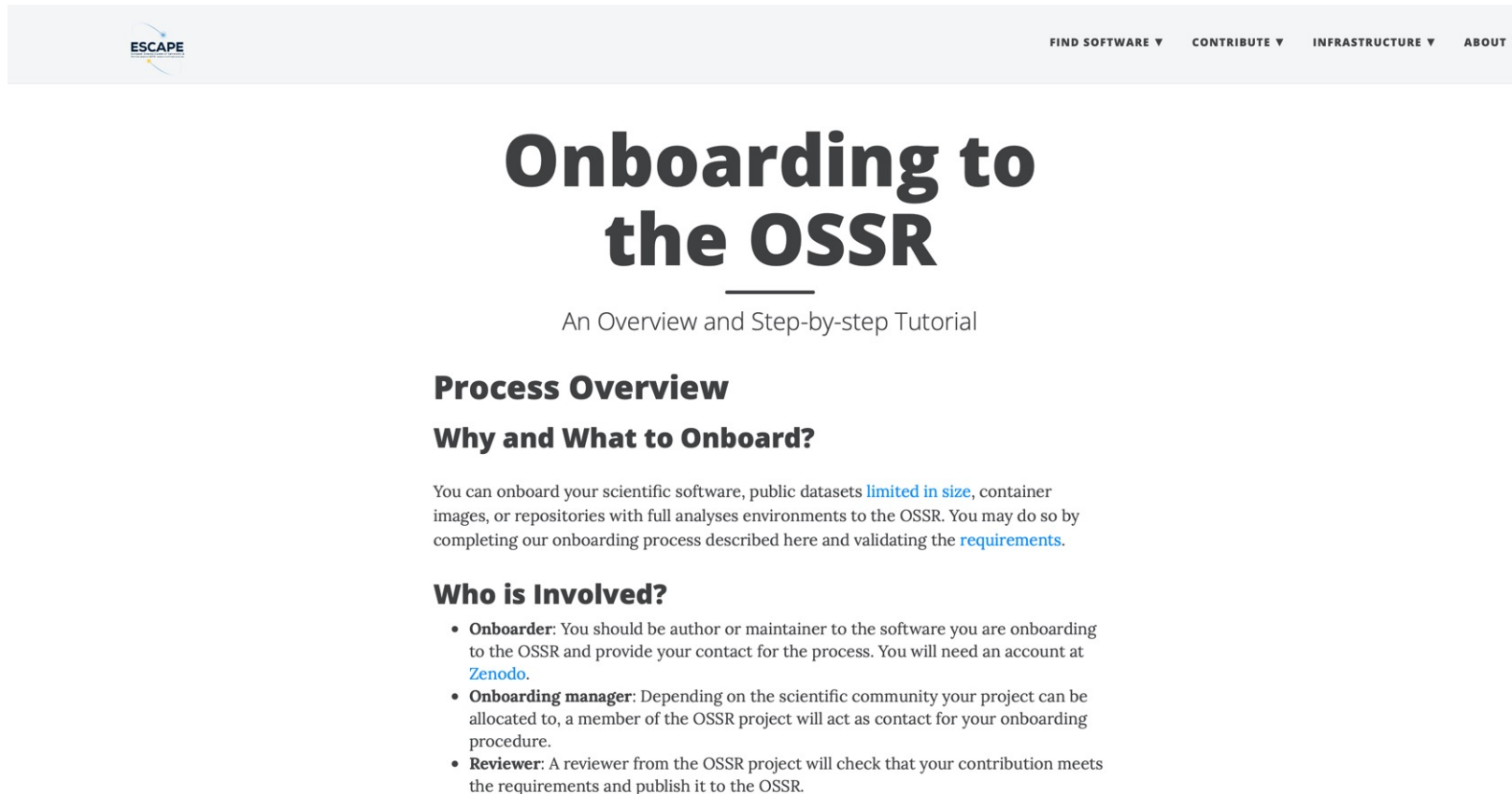
Introduction

- Cooperation between DMA and ESCAPE was established
- Publish DMA software projects as part of the Open-source Scientific Software and Service Repository (OSSR)
- Pilot project: add R3BRoot* software to the repository
- Summarize procedure and workflow

* <https://github.com/R3BRootGroup/R3BRoot>

Starting Point

<https://purl.org/escape/ossr> → Contribute → Onboarding to the OSSR



The screenshot shows the top of a web page for ESCAPE. The header has the ESCAPE logo on the left and navigation links: FIND SOFTWARE ▼, CONTRIBUTE ▼, INFRASTRUCTURE ▼, and ABOUT ▼. The main heading is 'Onboarding to the OSSR' in large, bold, dark grey font. Below it is a subtitle 'An Overview and Step-by-step Tutorial'. The page content includes a section 'Process Overview' with a sub-section 'Why and What to Onboard?' containing a paragraph about onboarding scientific software, datasets, container images, or repositories. Below this is another section 'Who is Involved?' with a bulleted list of roles: Onboarder, Onboarding manager, and Reviewer.

ESCAPE

FIND SOFTWARE ▼ CONTRIBUTE ▼ INFRASTRUCTURE ▼ ABOUT ▼

Onboarding to the OSSR

An Overview and Step-by-step Tutorial

Process Overview

Why and What to Onboard?

You can onboard your scientific software, public datasets [limited in size](#), container images, or repositories with full analyses environments to the OSSR. You may do so by completing our onboarding process described here and validating the [requirements](#).

Who is Involved?

- **Onboarder:** You should be author or maintainer to the software you are onboarding to the OSSR and provide your contact for the process. You will need an account at [Zenodo](#).
- **Onboarding manager:** Depending on the scientific community your project can be allocated to, a member of the OSSR project will act as contact for your onboarding procedure.
- **Reviewer:** A reviewer from the OSSR project will check that your contribution meets the requirements and publish it to the OSSR.

Basic Requirements

- Software should be in a mature state and follow good software engineering practices
 - Publicly available and Open-source license
 - Some small things (like introductory documentation)
-
- R3BRoot: List of names in corresponding AUTHORS and CONTRIBUTORS files

Meta Data File: codemeta.json

- Description of a software projects and its requirements
 - <https://gitlab.in2p3.fr/escape2020/wp3/eossr/-/blob/master/codemeta.json>
- Python script to transfer AUTHORS and CONTRIBUTORS to codemeta:
 - https://github.com/FairRootGroup/FairMQ/blob/dev/meta_update.py

R3BRoot's codemeta.json

```
{  
  "@context": "https://doi.org/10.5063/schema/codemeta-2.0",  
  "@type": "SoftwareSourceCode",  
  "license": "https://spdx.org/licenses/GPL-3.0",  
  "codeRepository": "git+https://github.com/R3BRootGroup/R3BRoot.git",  
  "contIntegration": "https://github.com/R3BRootGroup/R3BRoot/actions",  
  "dateCreated": "2009-04-14",  
  "name": "R3BRoot",  
  "softwareVersion": "sep22",  
  ...  
}
```

Final Step: Publish on Zenodo

- Use codemeta2zenodo tool to convert codemeta.json to .zenodo.json
 - Available in <https://gitlab.in2p3.fr/escape2020/wp3/eossr>
- (if on GitHub) Create WebHook using Zenodo API
 - <https://genr.eu/wp/cite/>
- Create Release. It will be automatically published on Zenodo
- Integrate this workflow into CI

Onboarding Talk

- Will be organized within DMA + ESCAPE WP3 community
(See main Onboarding Page)
- Projects with saved onboarding talk will get much higher visibility
- Should serve as short introduction + how-to documentation
- Template for presentation available
 - <https://cloud.escape2020.de/index.php/s/uDEC7oTMNsCfYAv/download>

Summary

- OSSR onboarding process is well established and documented
- Supplementary technical tools available
- Writing your own tools is easy!
- Links:
 - OSSR: <https://purl.org/escape/ossr>
 - eOSSR Library / Tool: <https://gitlab.in2p3.fr/escape2020/wp3/eossr/>
 - Policy Document: <https://doi.org/10.5281/zenodo.6757113>

Next Steps / Outlook

- Start the onboarding process by filling the registration form...

For further questions contact [c.tacke \(at\) gsi.de](mailto:c.tacke@gsi.de)

- Looking into CITATION.cff