

ONAP Architecture Documentation in Read The Docs

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Architecture Documentation

- https://wiki.onap.org/display/DW/Documenting+ONAP+Architecture
- Each project description includes a "System Context" diagram similar to that defined in the C4 model (https://c4model.com)
- Exposed and consumed interfaces are described as lollipops in the diagram
- Each interface is numbered according to the project that exposes it
 - - croject-abbreviation>E-<number>
- A table is included referring to the interfaces, describing their intent, their version and (ideally) linking to the current version of the swagger documentation
- Challenges:
 - Inconsistent content from each project
 - Does not correlate directly to the information in RTD
 - Not properly version controlled
 - Projects have not taken ownership of the content



Read The Docs Documentation

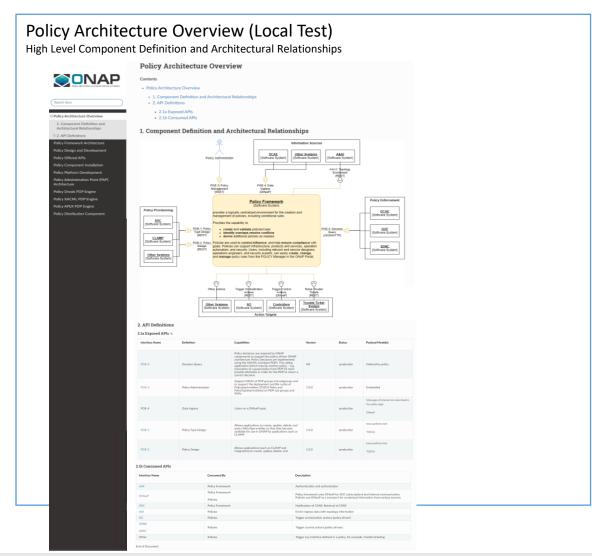
- Version controlled restructured text documents stored in git and managed / owned by each project
- Includes (in some cases) an "Offered APIs" and "Consumed APIs" page under the component description
 - E.g. for <u>DCAE</u>
- Pages link to the specific swagger files (also stored in git)
- Interface pages can be brought together in an overall view: https://docs.onap.org/en/elalto/guides/onap-developer/apiref/index.html
- Proposal in REQ-386 to move API docs to Swagger: https://wiki.onap.org/display/DW/Developing+ONAP+API+Documentation
- Current challenges:
 - No consistency across all projects
 - No description or version of the interface
 - No "System Context View" that is consistent per project

Proposal for Next Steps

- Create a template for the <u>component documentation</u> to be included in the project documentation repository
 - Pick a project to try this out e.g. policy
- Include in the template:
 - The System Context diagram stored in the git repo as an uncompressed SVG (draw.io)
 - Include clickable links to the swagger docs in the diagram
 - Color-code interfaces which are exposed externally
 - A table describing the interfaces and referring to their versions
 - Refer to interface documentation (swagger docs)
- Define a template, try it out with a couple of projects and iterate
- If successful, roll out across the rest of the components

Migrating from the Confluence to Read The Docs

- The process:
 - Clone repository from gerrit.onap.org
 - 2. Create new directories if needed
 - 3. Save diagram as an xml in the local repository
 - 1. Edit locally to add links
 - 2. Export as SVG in the local repository
 - 4. Create rst file with data from Confluence and include the SVG
 - Test locally
 - 6. Submit for review
- Currently 3 architecture overviews ready for review
 - Policy
 - SDC
 - SO
- Challenges:
 - Inconsistent structure of repositories
 - Inconsistent structure of rst files



Discussion ...

- Include this as a checkpoint in the review process
 - Keep the SVG approach
 - Need to compare previous and proposed version during review
- Review with the PTLs
- Relevant to the previous session on how we document these components within ONAP
- C4 level diagrams are good need to look at the information flows as well
- Do the same presentation in the PTL call