What is Swagger?

• Swagger helps to
  - Define REST API based on OAS standard, as swagger.json
  - Auto generate the REST service code, using swagger.json with swagger annotations.
  - Provides readable REST API document using swagger.json

• Micro-service
  - Provides REST API (mostly)
  - Most recommended to use swagger technology for impl. it
Today’s problem in micro-service development

• Develop first, Latter adopt with swagger
  - Manual authoring API document
    • in-consistency with code
    • Effort, money + time.

• Later detection of change in depending service REST API.
  - Any change in Service B REST API, detected only during system testing
    • Increases the development cycle (some time, during deployment)
      • Effort, money + time.
Swagger-sdk

- **Build-Time support**
- Set of Maven plug-ins
- For already swagger annotated services, **auto generate swagger.json**
  - Install it in maven repository
    - [Project Maven Group-id] :: [Project maven artifact-id]-swagger-schema :: [project maven version].
  - Deploy it remote maven repository (TBD)
  - MSB already supported

- For already swagger.json enabled services, **auto generates java sdk**
  - Install it in maven repository
    - [Project Maven Group-id] :: [Project maven artifact-id]-java-sdk :: [project maven version].
  - Deploy it remote maven repository (TBD)
  - MSB already supported

- **Run-Time support**
  - Tiny REST controller to provide swagger.json at std. URI
  - Tested in Open-O,
Early detection of change in depending service REST API

- Service A should use Service B’s auto-generated java sdk instead of manual written java sdk.
- When B REST API changes, auto-generated java sdk interfaces will get updated with new changes. So Service A will start to report compiler error automatically.
  - No need to wait till System testing
Thank you

- Wiki: https://wiki.onap.org/display/DW/swagger-sdk