



**adaptTo()**

APACHE SLING & FRIENDS TECH MEETUP  
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# *New* Sling Servlet Annotations

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# History – Custom Felix SCR Annotation

```
@SlingServlet(  
    resourceTypes = "/apps/my/type",  
    selectors = "hello",  
    extensions = "html")  
public class ResourceTypeBoundServletWithSelectors extends  
SlingSafeMethodsServlet { ... }
```

- **Drawbacks:**
  - Can only be used with the (deprecated) maven-scr-plugin (or the Felix SCR bnd plugin)

# History – Generic DS 1.2+ Annotations

```
@Component(service = { Servlet.class }, property = {  
    SLING_SERVLET_RESOURCE_TYPES + "=/apps/my/type",  
    SLING_SERVLET_EXTENSIONS + "=html",  
    SLING_SERVLET_SELECTORS + "=hello" })  
public class ResourceTypeBoundServletWithSelectors extends  
SlingSafeMethodsServlet { ... }
```

## ■ Drawbacks

- Very generic
- Not a nice syntax
- Forces developers to remember constants being used

# New: DS 1.4 Component Property Annotations

```
@Component (service=Servlet.class)
```

```
@SlingServletResourceTypes (  
    resourceTypes="/apps/my/type",  
    selectors= {"hello"})
```

```
public class ResourceTypeBoundServletWithSelectors extends  
SlingSafeMethodsServlet {...}
```

- Drawbacks
  - None 😊

- bnd 4.0+ via
  - bnd-maven-plugin 4.0+ or
  - maven-bundle-plugin 4.0+

- DS 1.3 (AEM 6.1+)

- Maven Dependency

```
<dependency>  
  <groupId>org.apache.sling</groupId>  
  <artifactId>org.apache.sling.servlets.annotations</artifactId>  
  <version>1.1.0</version>  
</dependency>
```

## ■ Sling Servlet bound to path

```
@Component (service=Servlet.class)
@SlingServletPaths ("/bin/my/servlet")
public class ResourceTypeBoundServletWithSelectors extends
SlingSafeMethodsServlet { ... }
```

## ■ Sling Filter

```
@Component
@SlingServletFilter (scope=SlingServletFilterScope.REQUEST,
extensions="html")
public class SimpleServletFilter implements Filter { ... }
```

# Quiz about Sling Servlet Registration

This will by default register to  
`/libs/mycomponent1`

- **Example registration**
  - Resource type: `mycomponent`
  - Selector: `myselector1`
- **Repo:** - `/content/mycontent1`  
+ `resourceType="/apps/mycomponent"`

## Matches?

`GET /content/mycontent1.myselector1.html`



# Quiz about Sling Servlet Registration

## ■ Example registration

- Resource type: /apps/mycomponent
- Selector: myselector1
- Extension: html

Servlet only matches in case  
myselector1 appears as first selector!

By default only registered  
for GET/HEAD

- Repo: - /content/mycontent1  
+ resourceType="/apps/mycomponent"

## Matches?

- POST /content/mycontent1.myselector1.html ❌
- GET /content/mycontent1.myselector.myselector1.html ❌
- GET /content/mycontent1.myselector1.myselector.html ✓



- <https://issues.apache.org/jira/browse/SLING-7624>
- <https://issues.apache.org/jira/browse/SLING-7759>
- <https://github.com/apache/sling-org-apache-sling-servlets-annotations>
- <https://github.com/apache/sling-org-apache-sling-servlets-annotations-it>

# Thanks

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