

Concept Dynamic Servlet Mapping

✔ Implemented in 5.3

See [+ MAGNOLIA-5708](#) - A way for Servlet to "self map" - so that mapping can be shared with other components CLOSED

Purpose

The Problem

Servlet mappings are currently configured under `/filters/servlets`. Often times, other components in the system need to know about those mappings. A simple example: generating links for the DAM servlet.

Goals

Make it possible for arbitrary components to know how/where a servlet is mapped.

Use Cases

- Generating DAM links
- Generating links to Imaging module
- Links to REST APIs
- essentially anything exposed via a Servlet where we need to generate links to.

Such a mapping could be configured in the module's own class - and therefore used by the servlet mapping AND other arbitrary components (URI2RepoMapping, Link API, templating functions, ...)

Concept

Introduce an optional interface that servlets can implement. The interface exposes a method which servlets implement to return their "self" mapping.

Servlets can still be used with the current mechanism, aka "configured mappings", with the new one (`SelfMappingServlet`), or both.

This thus allows other components to use the same path, configured in one single place, for different purposes (typically to generate links)

(Where this method would delegate to `MyModule.getFooPath()`, and `MyModule` would be `@injected` in said filter.

No changes in configuration are necessary. The same filter is still used to wrap the servlet (`info.magnolia.cms.filters.ServletDispatchingFilter`). The new optional interface is `info.magnolia.cms.filters.SelfMappingServlet`.

Implementation example:

```

public class DamDownloadServlet extends HttpServlet implements SelfMappingServlet {
    // ...
    private final DamCoreConfiguration configuration;

    @Inject
    public DamDownloadServlet(DamCoreConfiguration configuration) {
        this.configuration = configuration;
    }

    @Override
    public String getSelfMappingPath() {
        return configuration.getDownloadPath() + "/*";
    }

    @Override
    protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException,
    IOException {
        // ...
    }
}

```

In the above example, DamCoreConfiguration is a module class which represents the DAM module's configuration (see screenshot below) and is simply injected in the servlet. If the configuration changes, the mapping changes is reflected.

