

# Developer Guides

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This page is no longer updated as of Grouper 1.5. Please refer to the pages linked from the top menu on the [Administration Guide](#) page.

## Grouper UI Customisation Guide

- [Grouper UI Components](#)
- [Architecture](#)
- [Struts Actions and Tiles](#)
- [Customising the Grouper UI](#)
- [Grouper UI Development Environment](#)

## Developer's Guide to Grouper Web Services

### Hooks for 3rd party extensions to the java API

[API & UI v1.6.0 Javadoc](#)

[WS v1.6.0 Javadoc](#)

[Grouper Client v1.6.0 Javadoc](#)

Grouper source code is in Internet2's SVN repository. We recommend getting the 1.6 branch, which will always include the latest patches to the 1.6 release. For command line users:

```
svn co http://anonsvn.internet2.edu/svn/i2mi/branches/GROUPER_1_6_BRANCH/
```

**Bug Reports** - Bugs submitted and fixes found here. Note: You will need to create a login with Jira.