

# IBM Content Navigator 2.0.2 - Plug-ins and External Data Services

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<b>Code:</b>	F122G
<b>Length:</b>	2 days
<b>URL:</b>	<a href="#">View Online</a>

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This course provides training on customizing and extending the IBM Content Navigator features. You learn how to develop plug-ins, implement External Data Services, and create a custom workflow step processor. You use the student guide and an IBM Content Navigator system to complete the learning.

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## Skills Gained

Upon completion of this course, participants will be able to:

- Implement External Data Services (EDS)
  - Prefill an initial value for a data field
  - Implement property field validation
  - Create dependent Choice Lists with sample EDS
  - Change the field status dynamically for a property
- Develop custom plug-ins to do the following tasks:
  - Implement custom Response Filters
  - Add a custom Property Editor
  - Add a custom Feature
  - Add a custom Action
- Create a Custom Workflow Step Processor
  - Develop and configure a custom step processor
  - Add external data services to step processor
  - Add an action to the custom step processor
- Use Content Navigator widgets in other applications
  - Integrate Content Navigator with URL API

# Who Can Benefit

- Developers who are responsible for
  - Customizing and extending the IBM Content Navigator features by developing plug-ins
- Anyone who needs to know the capabilities of IBM Content Navigator.

## Prerequisites

- Intermediate level expertise in the following technologies:
  - Java
  - JavaScript
  - JSON
  - HyperText Markup Language (HTML 5)
  - Cascading Style Sheets (CSS3)
  - Dojo (version 1.8.4)
- Experience with Eclipse IDE for developing applications.
- Familiarity with deploying applications in WebSphere Application Server.
- Familiarity with Content and Business Process Management (workflow) concepts
- Experience with IBM Content Navigator or the following recommended Courses:
  - F205 - Introduction to IBM Content Navigator 2.0
  - F121 - IBM Content Navigator 2.0.2 Administration

## Course Details

### Implement External Data Services (EDS)

- Request and response filters implemented in the sample EDS
- External Data Services and EDS REST protocol
- Create choice lists with External Data Service
- Appendix: Steps to import the sample EDS into Eclipse

### Develop Plug-ins

- IBM Content Navigator development architecture
- Develop applications with IBM Content Navigator
- Setting up the development environment for plug-ins
- IBM Content Navigator Plug-ins
- IBM Content Navigator plug-in extensions

- Request and response filters
- ContentList and Document information areas
- Custom Property Editors
- Add feature to IBM Content Navigator interface
- Creating Client-side plug-in extensions
- Develop a plug-in to add a menu action

## Create a Custom Workflow Step Processor

- Workflows in IBM Content Navigator
- IBM Content Navigator step processors
- Custom step processors
- Add an Action to the Custom Step Processor (to use embedded viewer)
- Use Content Navigator widgets in other applications
- Externalize IBM Content Navigator widgets
- Unbound integration
- Externalize with URL API and Deep linking
- Externalize with a custom Feature
- Externalize with a custom Layout
- Bound integration

## Appendix

- Start and Stop System Components
- Debugging and troubleshooting
- Develop ECM Widgets solutions in IBM Content Navigator
- Additional Information and links

## Schedule (as of 1 )

Date	Location
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