

# 15926 Test Cases : TopBraid Guide

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# TopBraid Free Edition

- Go to [www.topquadrant.com](http://www.topquadrant.com) and select “Download” at top of page
- When you reach the page where you can download choose “Product” where you can select “Free Edition” and then your “OS” (Linux, Mac, Windows) and “32-64 bit” (select 64 if you have a modern PC).
- After download, unarchive and run setup or install in an executable folder. Note that TopBraid is a Java application.

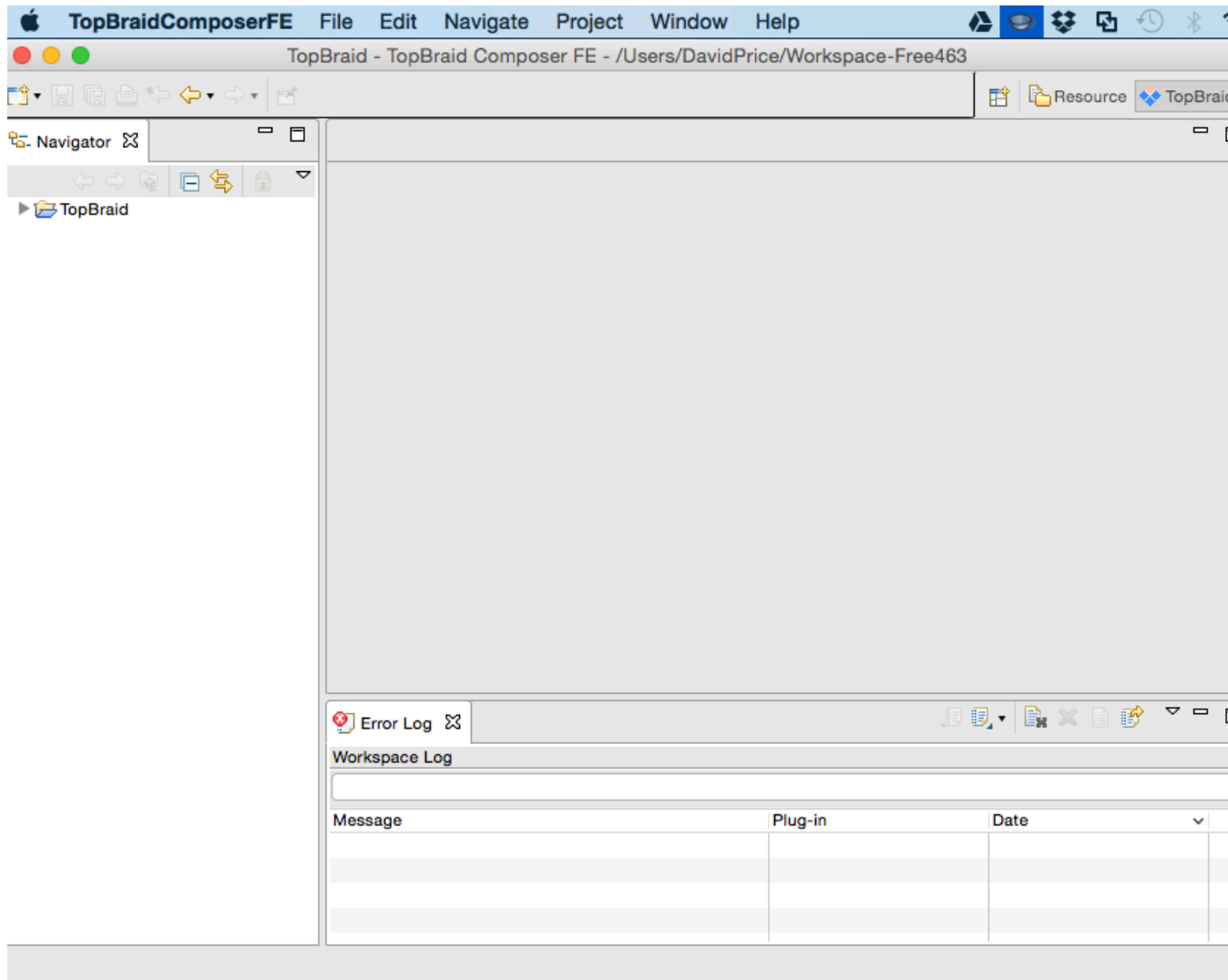
# Installation

- After download, unarchive and install. Web page Installation Instructions :
  - Start by unzipping the download file to a folder. TopBraid Composer can be installed in any folder with write access. Installing into the Program Files folder is not recommended, as some versions of Windows restrict access to this folder. Double-click the executable file named "TopBraid Composer".
- There is Help at:
  - <http://www.topquadrant.com/knowledge-assets/product-documentation/#tbcdoc>
  - It is worth a few minutes looking at the “Getting Started Guide” if you are not familiar with eclipse-based tools.

# Usage

- The following screenshots show how to get the 15926 test case project imported. They are taken from a Mac, so you may not see exactly the same user interface as shown in the screenshots.

# First time opening TBC



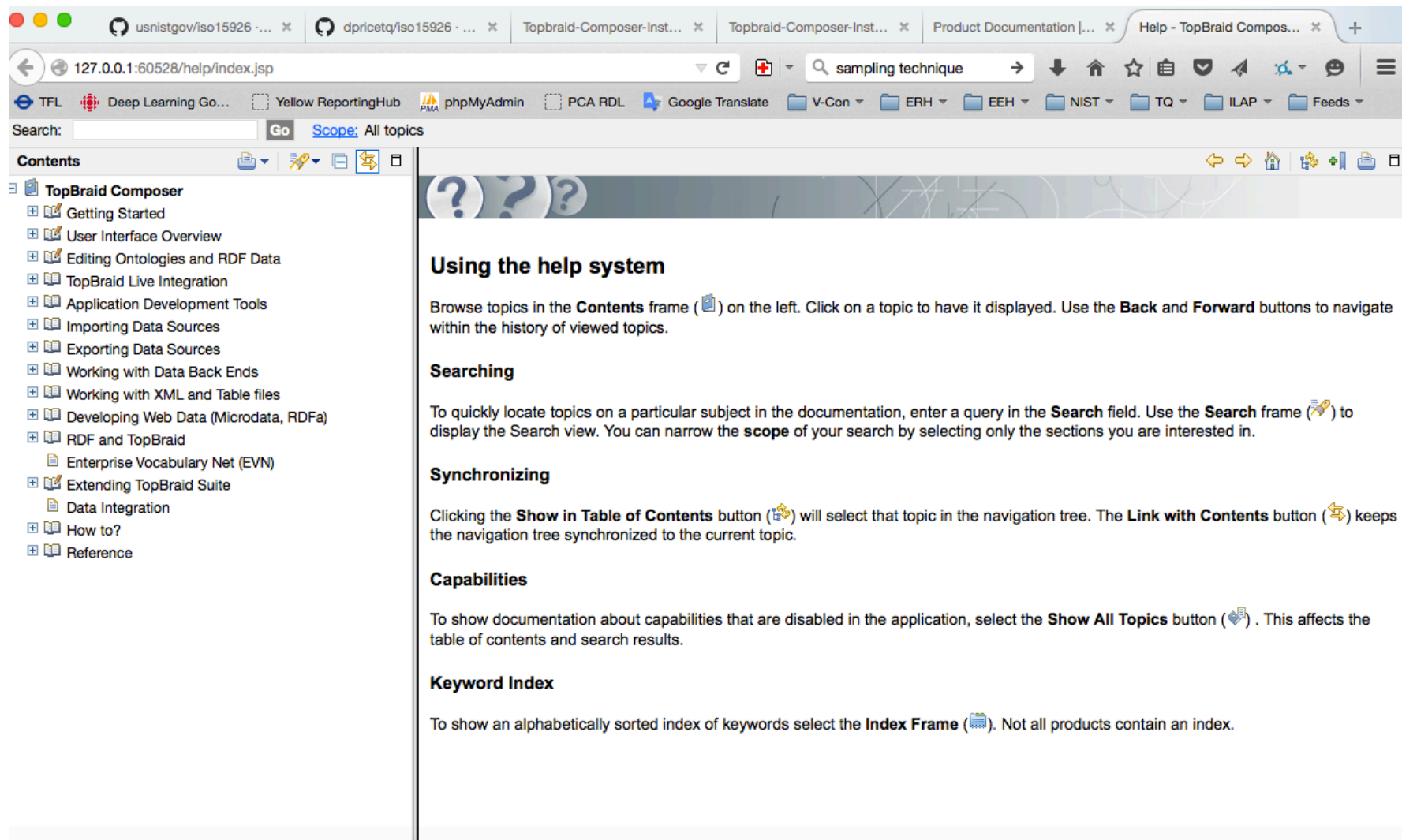
# Note : You can ask for Help

The screenshot displays the TopBraid Composer FE interface. The main window shows a 'Resource Form' for the resource 'atc00000:PossibleIndividual\_2'. The form includes sections for 'Annotations', 'Other Properties', and 'Incoming References'. The 'Annotations' section shows an 'rdfs:comment' with the text 'EDRC Use Case 1 Section 6.1.1 Define Project Activity (ClassificationOfIndividual)'. The 'Other Properties' section shows an 'rdfs:label' with the text 'Define Project Activity' and an 'rdf:type' set to 'dm:Activity'. The 'Incoming References' section shows three references: 'tpl:hasClassified' pointing to 'atc00000:ClassificationOfIndividual\_2', 'tpl:hasIdentified' pointing to 'atc00000:ClassifiedIdentificationOfIndividual\_1', and 'tpl:hasReferred' pointing to 'atc00000:ReferenceToIndividualOnDocument\_1'.

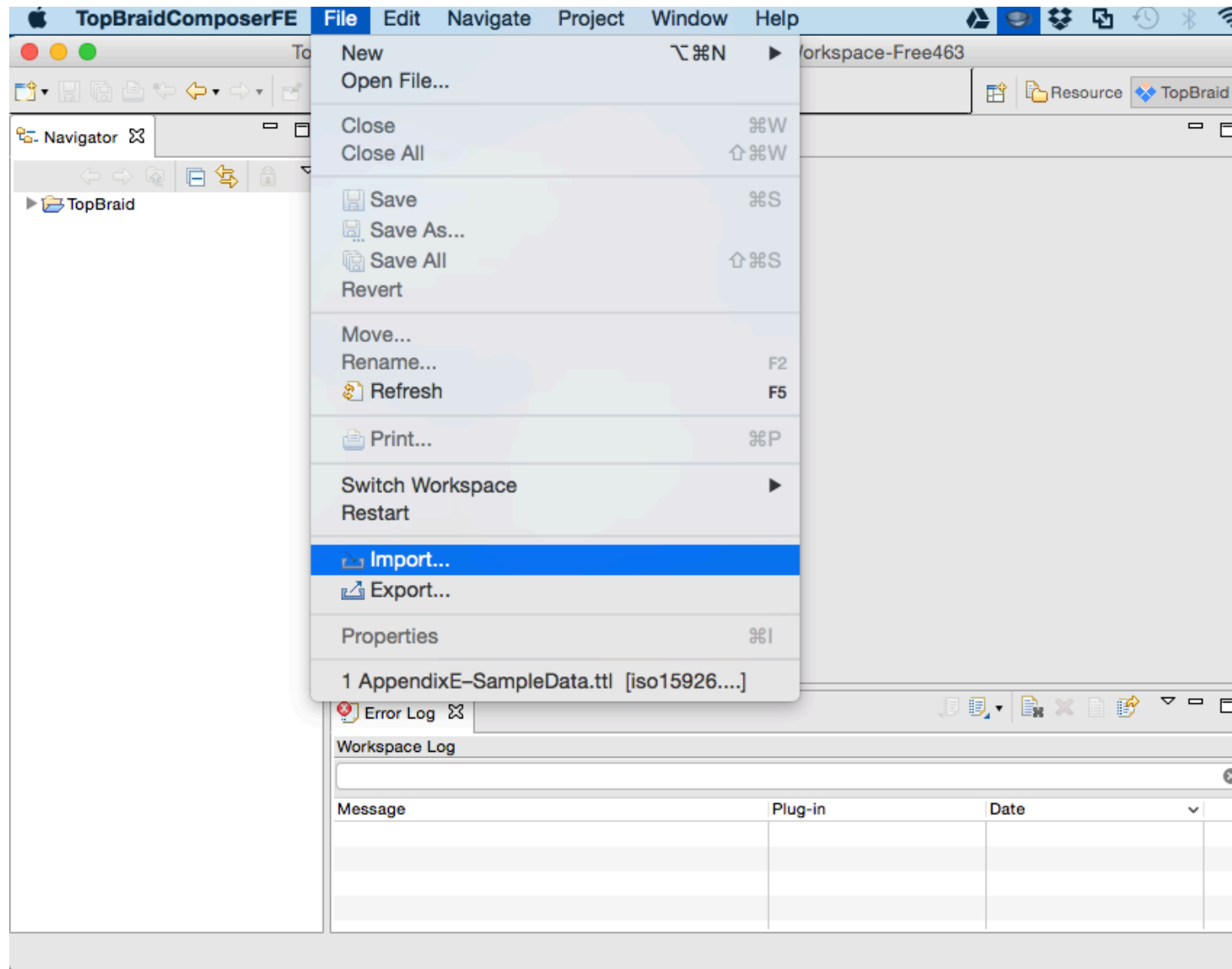
On the left side, there is a 'Navigator' panel showing a hierarchy of classes: 'rdfs:Resource (5361)', 'owl:AllDisjointClasses (2)', 'owl:Thing (2088)', and 'dm:Thing (8)'. The 'dm:Thing (8)' class is expanded, showing a list of subclasses including 'owl:EmptyList', 'owl:OWList', 'p7tm:Template (178)', 'p7tm:TemplateRole', 'p7tm:TemplateStatement (873)', and various 'tpl:ActivityCauses...' classes.

On the right side, a 'Help' menu is open, showing options: 'Search', 'Help Contents', 'Search Dynamic Help', 'Key Assist...', 'Cheat Sheets...', 'Check for Updates', and 'Install New Software...'. The 'Help Contents' option is highlighted.

# And it appears in your browser

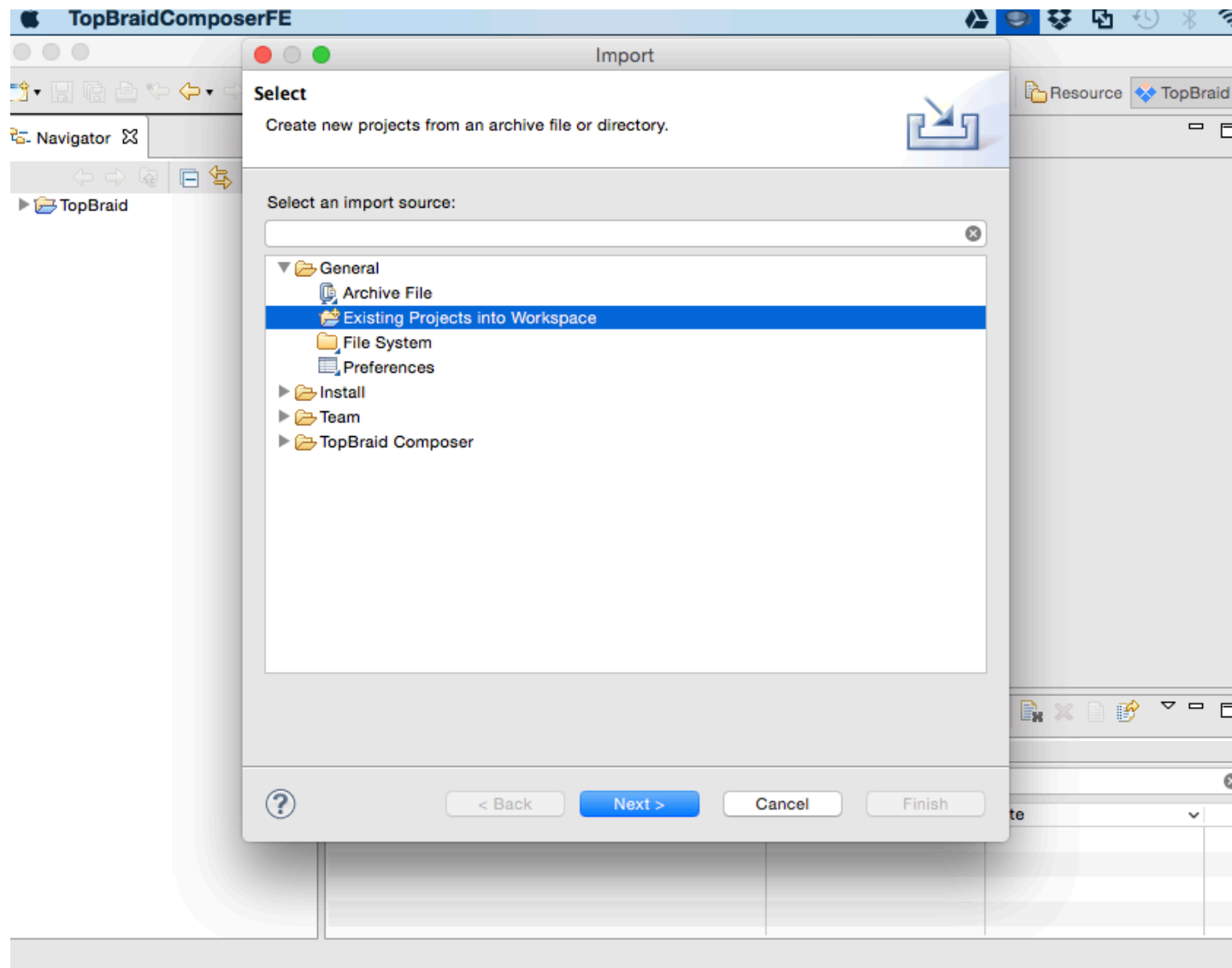


# Choose File, then Import

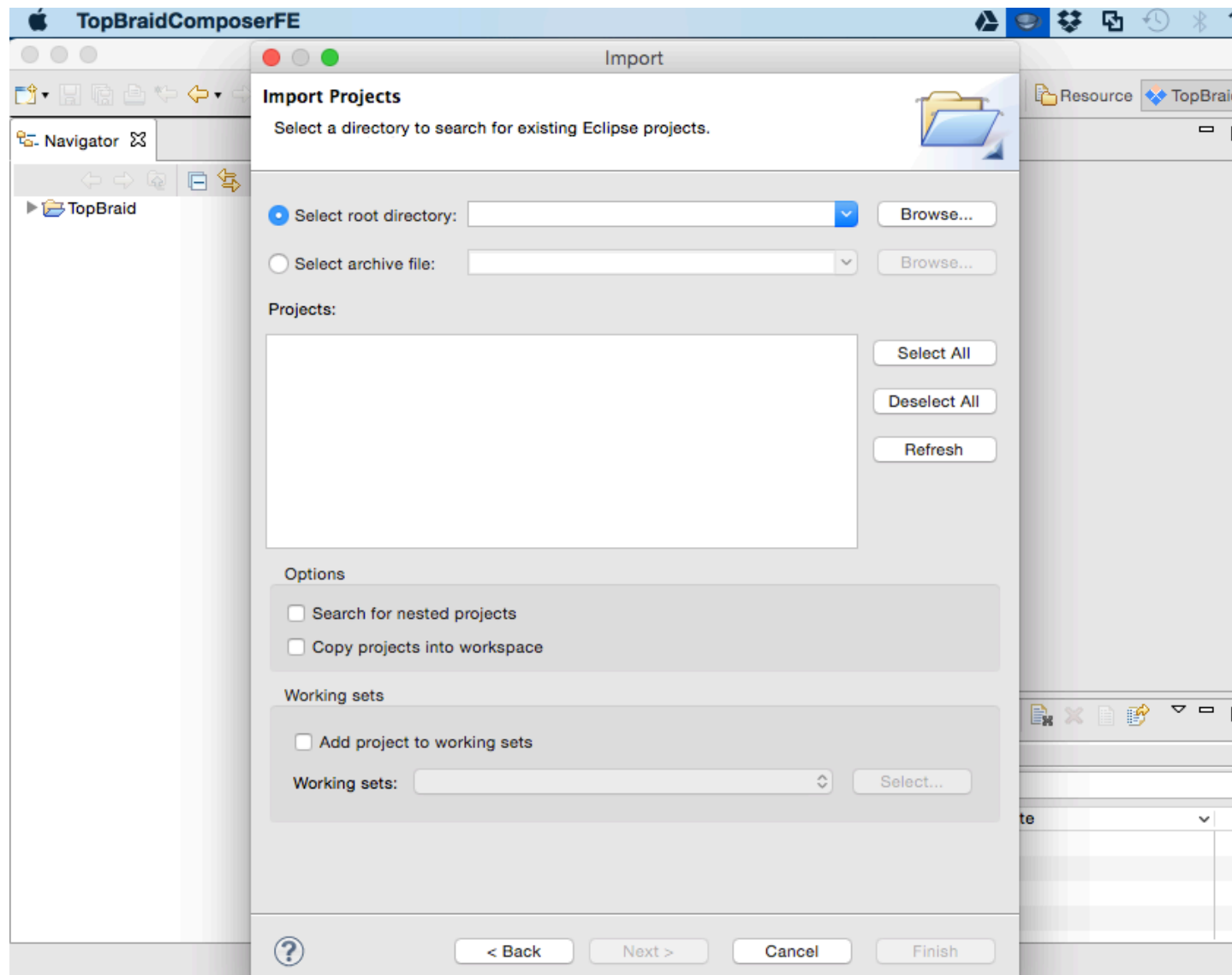




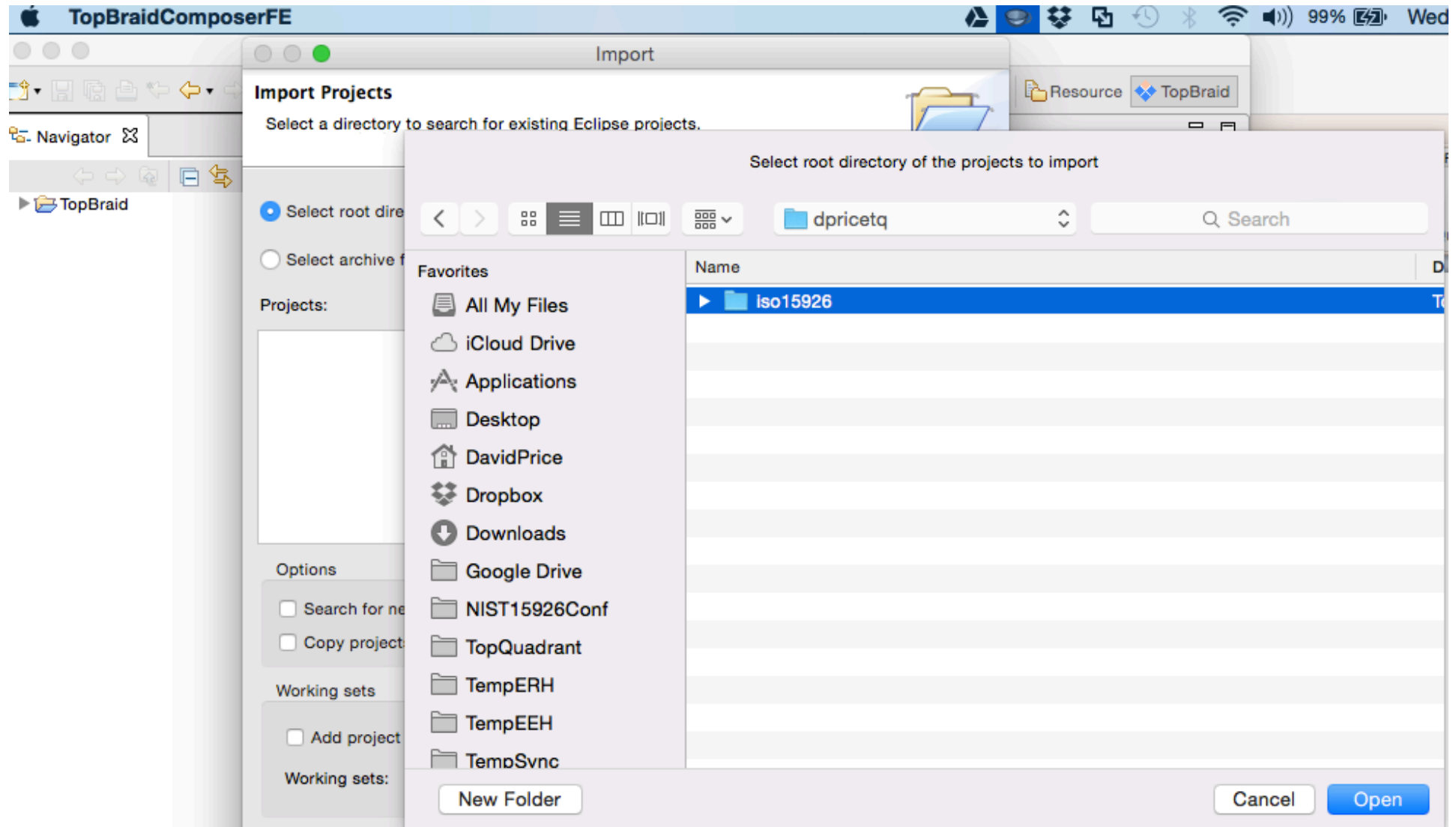
# Existing Project into Workspace



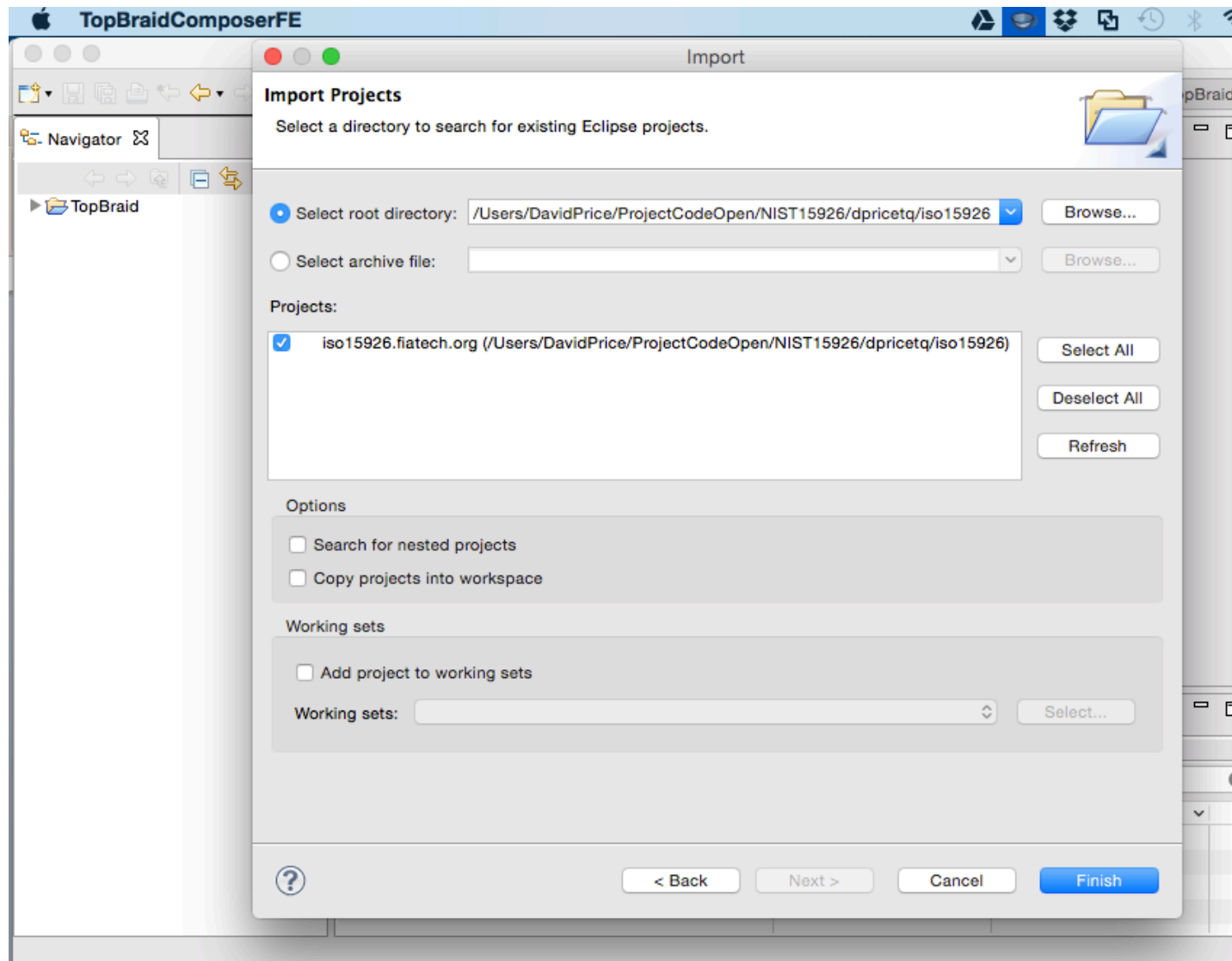
Choose Select root directory, and then choose Browse to find test cases on your computer



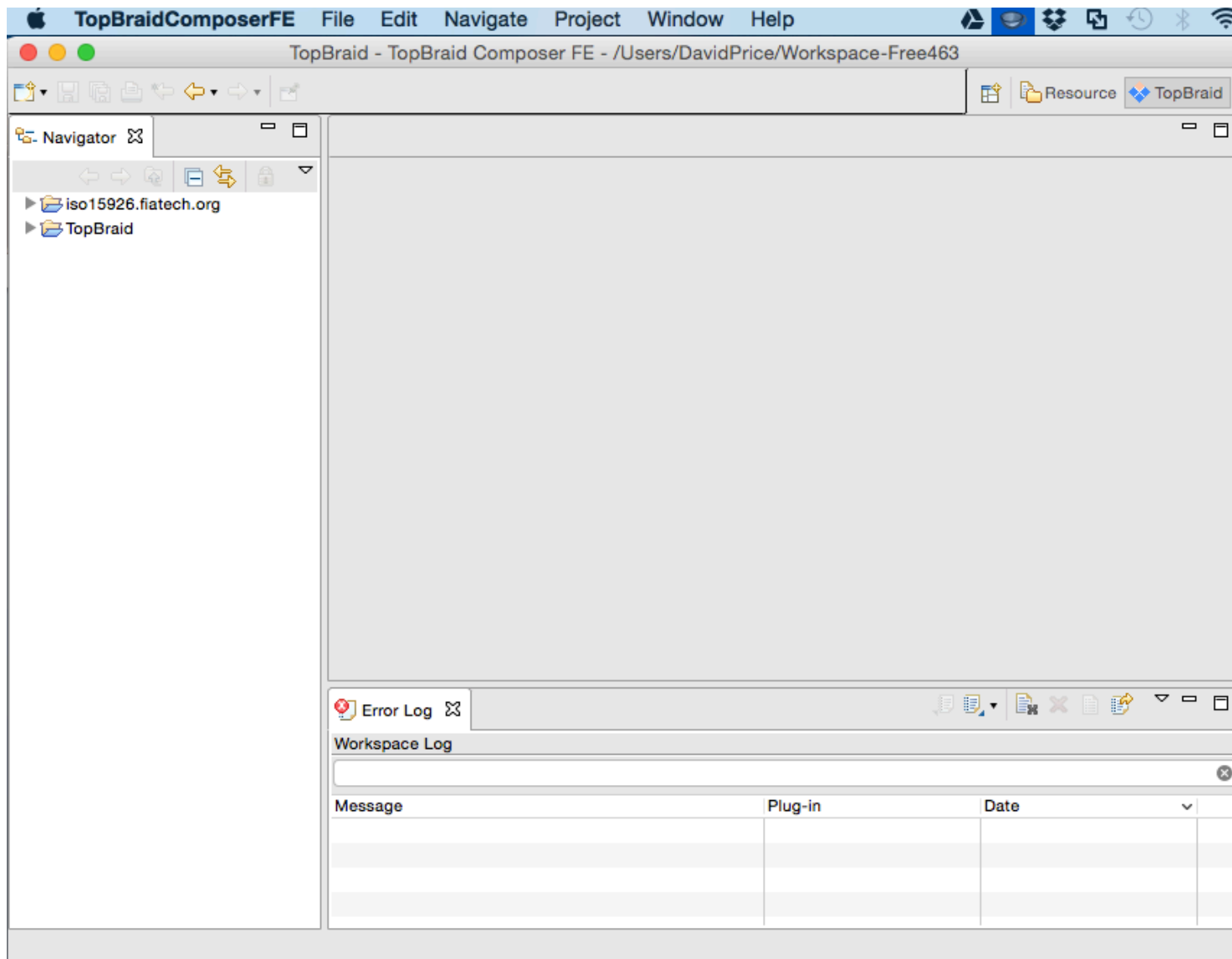
# Navigate to find where you downloaded the test cases and choose Open



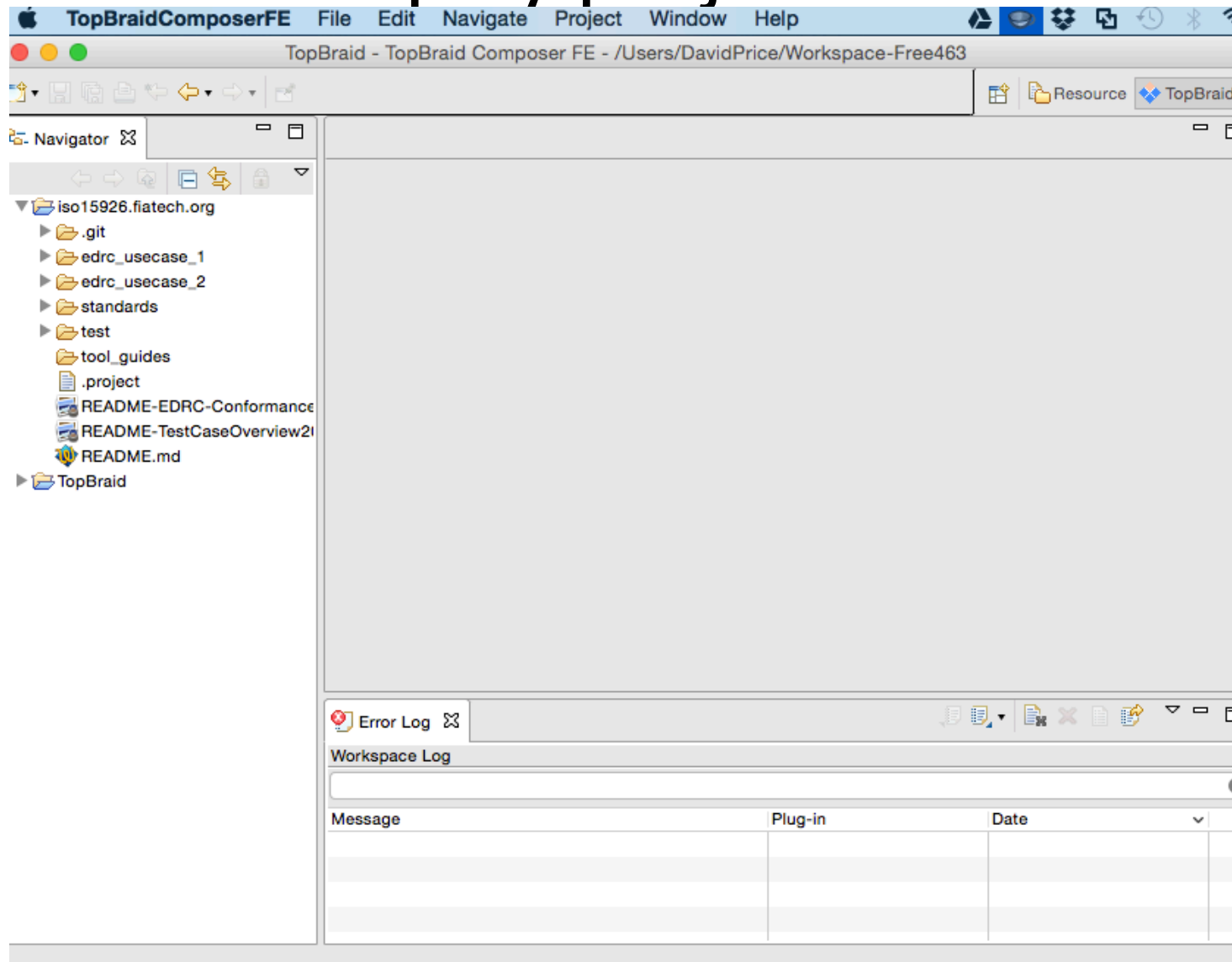
After Selecting root directory, you should see iso15926.fiatech.org Project, then select Finish



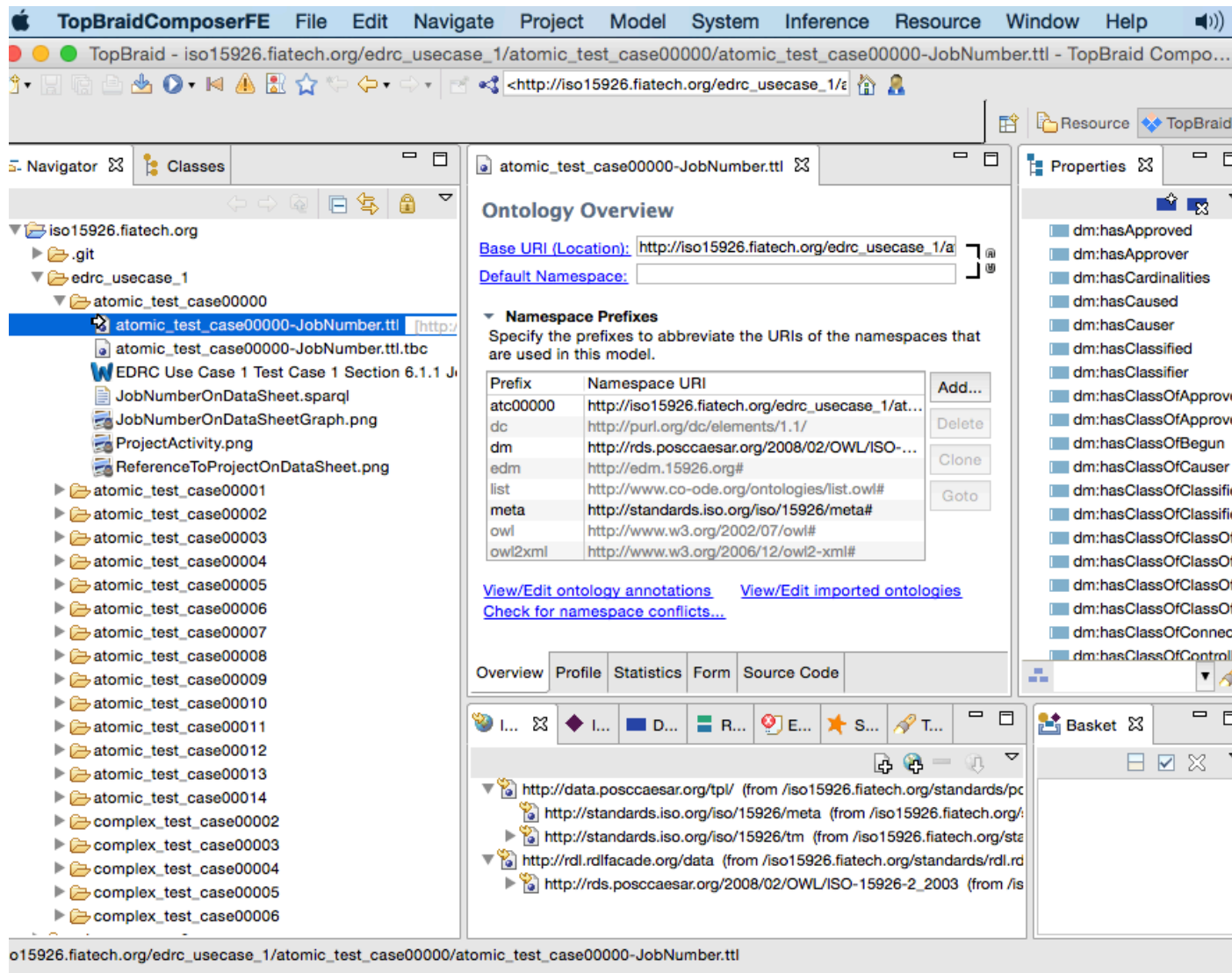
# Import complete



# Navigator pane, select little arrow to display project folders



Double-click to open a test case ttl file,  
note that you can resize the panes



# Select Classes pan and arrow to show classes under owl:Thing

The screenshot displays the TopBraidComposerFE interface. The 'Classes' pan on the left shows a hierarchical tree of classes. The 'Ontology Overview' section in the center provides metadata for the ontology. The 'Properties' pan on the right lists various object properties.

**Classes**

- rdfs:Resource (5361)
- owl:AllDisjointClasses (2)
- owl:Thing (2088)
  - dm:Thing (8)
    - owl:EmptyList
    - owl:OWList
  - p7tm:Template (178)
    - p7tm:TemplateRole
  - p7tm:TemplateStatement (873)
    - tpl:ActivityCausesBegunIndividual
    - tpl:ActivityCausesDeprecatedClass
    - tpl:ActivityCausesEffectiveClass
    - tpl:ActivityCausesEndedIndividual
    - tpl:ActivityCausesStatusedClass
    - tpl:ActivityCausesTwoRelatedBegunIndividuals
    - tpl:ActivityCausesTwoRelatedDeprecatedClasses
    - tpl:ActivityCausesTwoRelatedEffectiveClasses
    - tpl:ActivityCausesTwoRelatedEndedIndividuals
    - tpl:ActivityCausesTwoRelatedStatusedClasses
    - tpl:AggregateOfMonotypeIndividual
    - tpl:ApprovalWithStatusOfRelationshipByIndividual
    - tpl:ArrangementOfAnIndividual
    - tpl:AssemblyOfAnIndividual
    - tpl:BeginningOfIndividualAtClassifiedEvent
    - tpl:ClassificationOfClassOfIndividual (1)
    - tpl:ClassificationOfClassOfIndividualApplicableYesNo
    - tpl:ClassificationOfIndividual (1)
    - tpl:ClassificationOfIndividualWithBiologicalMatterType
    - tpl:ClassificationOfIndividualWithCompositeMaterial
    - tpl:ClassificationOfIndividualWithCompoundType

**Ontology Overview**

Base URI (Location): [http://iso15926.fiotech.org/edrc\\_usecase\\_1/a](http://iso15926.fiotech.org/edrc_usecase_1/a)

Default Namespace:

**Namespace Prefixes**

Specify the prefixes to abbreviate the URIs of the namespaces that are used in this model.

Prefix	Namespace URI
atc00000	<a href="http://iso15926.fiotech.org/edrc_usecase_1/a">http://iso15926.fiotech.org/edrc_usecase_1/a</a>
dc	<a href="http://purl.org/dc/elements/1.1/">http://purl.org/dc/elements/1.1/</a>
dm	<a href="http://rds.posccaesar.org/2008/02/OWL/ISO-15926-2_2003">http://rds.posccaesar.org/2008/02/OWL/ISO-15926-2_2003</a>
edm	<a href="http://edm.15926.org/">http://edm.15926.org/</a>
list	<a href="http://www.co-ode.org/ontologies/list.owl#">http://www.co-ode.org/ontologies/list.owl#</a>
meta	<a href="http://standards.iso.org/iso/15926/meta#">http://standards.iso.org/iso/15926/meta#</a>
owl	<a href="http://www.w3.org/2002/07/owl#">http://www.w3.org/2002/07/owl#</a>
owl2xml	<a href="http://www.w3.org/2006/12/owl2-xml#">http://www.w3.org/2006/12/owl2-xml#</a>

[View/Edit ontology annotations](#) [View/Edit imported ontologies](#)  
[Check for namespace conflicts...](#)

**Properties**

- dm:hasApproved
- dm:hasApprover
- dm:hasCardinalities
- dm:hasCaused
- dm:hasCauser
- dm:hasClassified
- dm:hasClassifier
- dm:hasClassOfApproved
- dm:hasClassOfApprover
- dm:hasClassOfBegun
- dm:hasClassOfCauser
- dm:hasClassOfClassified
- dm:hasClassOfClassifier
- dm:hasClassOfClassOfC
- dm:hasClassOfClassOfP
- dm:hasClassOfClassOfU
- dm:hasClassOfClassOfW
- dm:hasClassOfConnectic
- dm:hasClassOfController



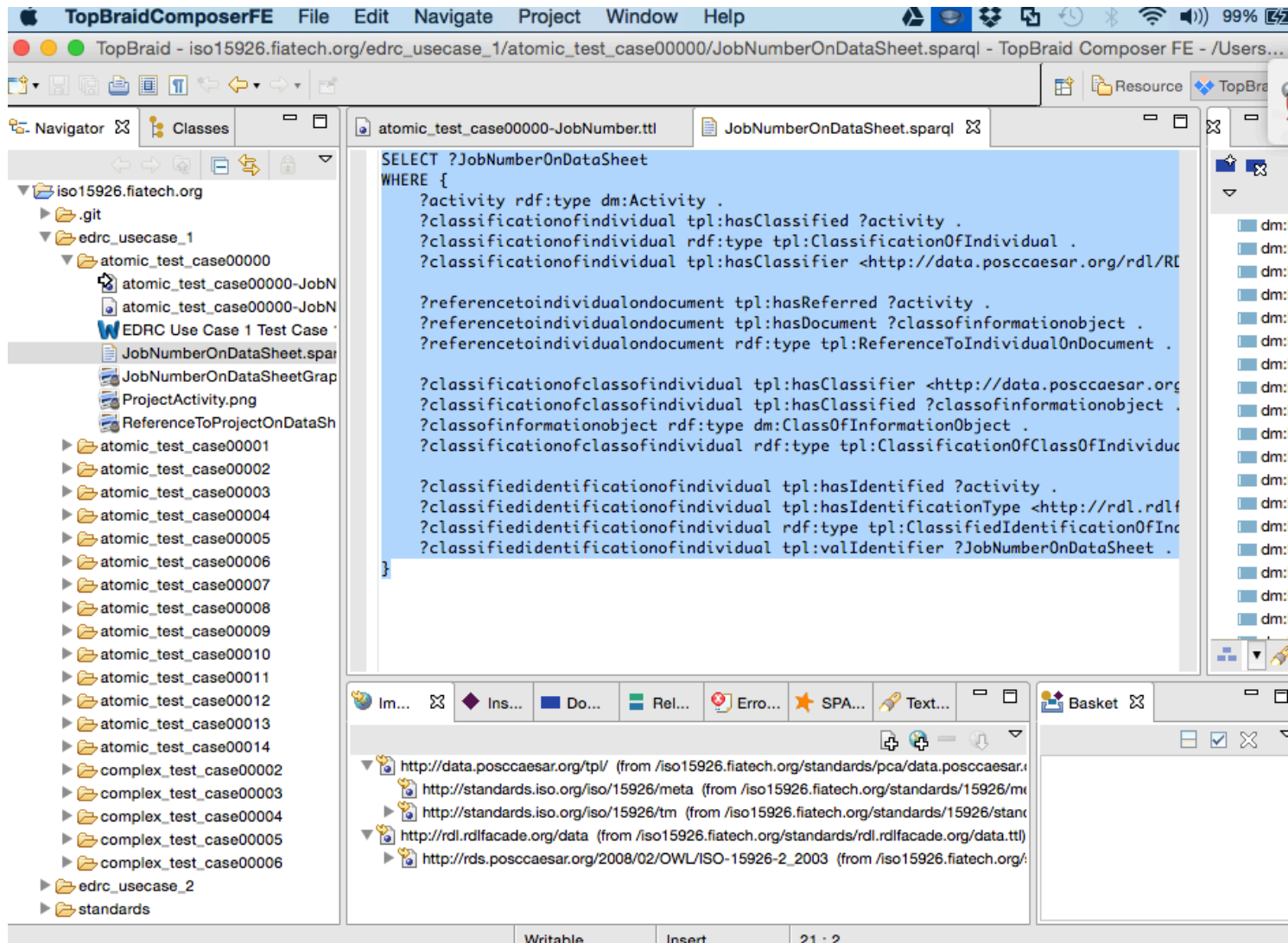
# Select and open a .sparql file

The screenshot displays the TopBraidComposerFE application window. The title bar indicates the current file is 'atomic\_test\_case00000-JobNumber.ttl'. The interface is divided into several panels:

- Navigator:** Located on the left, it shows a hierarchical tree of files. The file 'JobNumberOnDataSheet.sparql' is selected and highlighted in blue.
- Classes:** A panel above the Navigator showing the current class context.
- Ontology Overview:** The central panel displays metadata for the selected file, including the Base URI (http://iso15926.fiotech.org/edrc\_usecase\_1/a) and a list of Namespace Prefixes.
- Properties:** A panel on the right showing a list of properties associated with the ontology, such as 'dm:hasApproved' and 'dm:hasApprover'.
- Overview/Profile/Statistics/Form/Source Code:** A row of tabs at the bottom of the central panel, with 'Overview' currently selected.
- Basket:** A panel on the right side, below the Properties panel, used for managing selected resources.

The status bar at the bottom of the window shows the full path to the selected file: 'iso15926.fiotech.org/edrc\_usecase\_1/atomic\_test\_case00000/JobNumberOnDataSheet.sparql'.

# Select All (cntl-a) and Copy (cntl-c) in .sparql file



# Select .ttl file and Paste (cntl-p) into SPARQL pane

The screenshot displays the TopBraid Composer FE interface. The left sidebar shows a file tree with the following structure:

- iso15926.fiotech.org
  - .git
  - edrc\_usecase\_1
    - atomic\_test\_case00000
      - atomic\_test\_case00000-JobNur
      - atomic\_test\_case00000-JobNur
      - EDRC Use Case 1 Test Case 1
      - JobNumberOnDataSheet.sparql
      - JobNumberOnDataSheetGraph.
      - ProjectActivity.png
      - ReferenceToProjectOnDataShee
    - atomic\_test\_case00001
    - atomic\_test\_case00002
    - atomic\_test\_case00003
    - atomic\_test\_case00004
    - atomic\_test\_case00005
    - atomic\_test\_case00006
    - atomic\_test\_case00007
    - atomic\_test\_case00008
    - atomic\_test\_case00009
    - atomic\_test\_case00010
    - atomic\_test\_case00011
    - atomic\_test\_case00012
    - atomic\_test\_case00013
    - atomic\_test\_case00014
    - complex\_test\_case00002
    - complex\_test\_case00003
    - complex\_test\_case00004
    - complex\_test\_case00005
    - complex\_test\_case00006
  - edrc\_usecase\_2
  - standards
  - test
  - tool\_guides

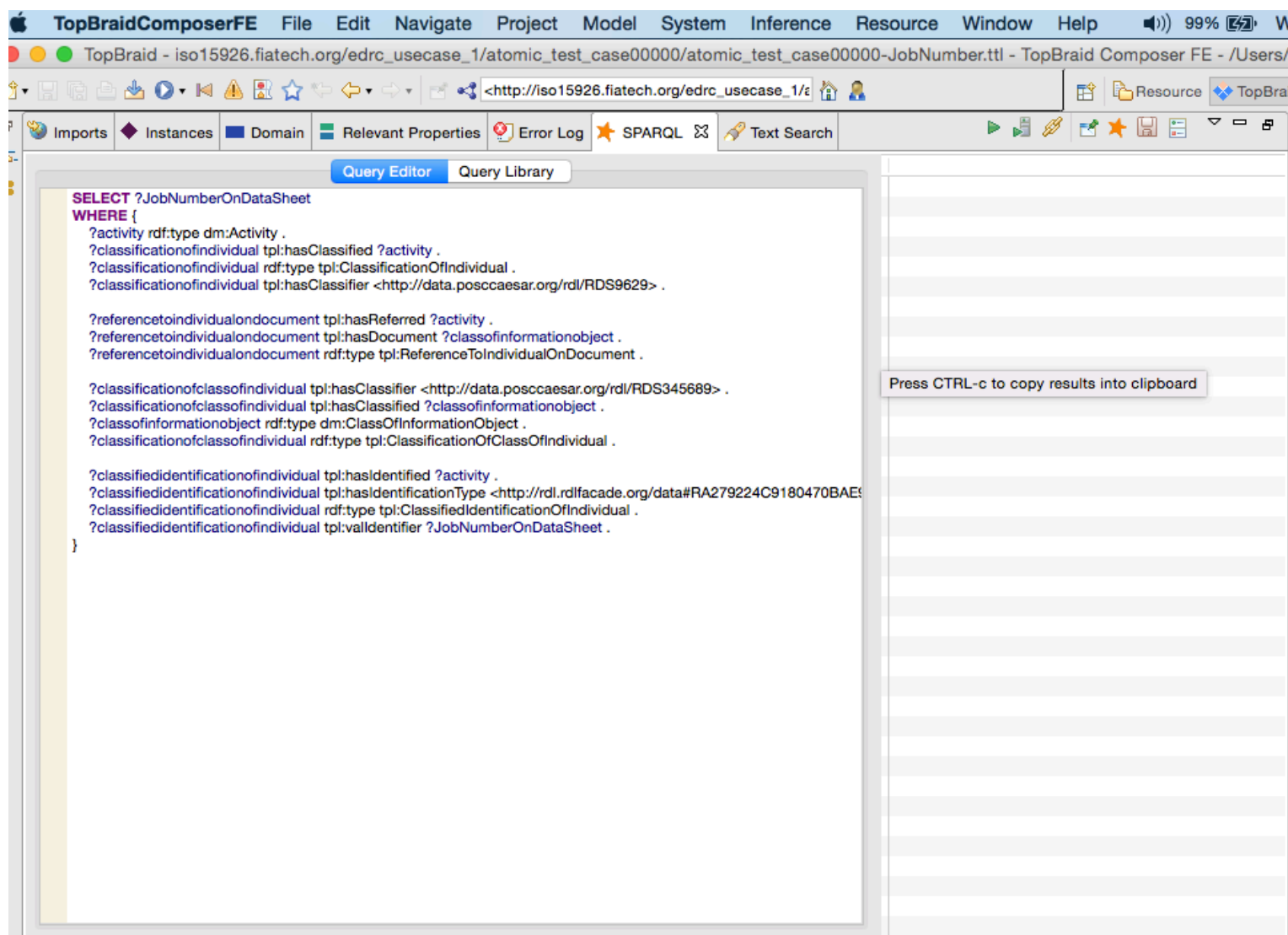
The main panel shows the 'Ontology Overview' for the file 'atomic\_test\_case00000-JobNumber.ttl'. The 'Base URI (Location)' is [http://iso15926.fiotech.org/edrc\\_usecase\\_1/atomic\\_test\\_case00000-JobNumber](http://iso15926.fiotech.org/edrc_usecase_1/atomic_test_case00000-JobNumber). The 'Default Namespace' is empty. The 'Namespace Prefixes' table is as follows:

Prefix	Namespace URI
atc00000	<a href="http://iso15926.fiotech.org/edrc_usecase_1/atomic_test_case00000-JobNumber#">http://iso15926.fiotech.org/edrc_usecase_1/atomic_test_case00000-JobNumber#</a>
dc	<a href="http://purl.org/dc/elements/1.1/">http://purl.org/dc/elements/1.1/</a>
dm	<a href="http://rds.posccaesar.org/2008/02/OWL/ISO-15926-2_2003#">http://rds.posccaesar.org/2008/02/OWL/ISO-15926-2_2003#</a>
edm	<a href="http://edm.15926.org#">http://edm.15926.org#</a>
list	<a href="http://www.co-ode.org/ontologies/list.owl#">http://www.co-ode.org/ontologies/list.owl#</a>
meta	<a href="http://standards.iso.org/iso/15926/meta#">http://standards.iso.org/iso/15926/meta#</a>
owl	<a href="http://www.w3.org/2002/07/owl#">http://www.w3.org/2002/07/owl#</a>
owl2xml	<a href="http://www.w3.org/2006/12/owl2-xml#">http://www.w3.org/2006/12/owl2-xml#</a>

Below the table are links: [View/Edit ontology annotations](#), [Check for namespace conflicts...](#), [View/Edit imported ontologies](#). The bottom panel shows the 'Query Editor' with the following SPARQL query:

```
SELECT ?JobNumberOnDataSheet
WHERE {
  ?activity rdf:type dm:Activity .
  ?classificationofindividual tpi:hasClassified ?activity .
  ?classificationofindividual rdf:type tpi:ClassificationOfIndividual .
  ?classificationofindividual tpi:hasClassifier <http://data.posccaesar.org/rdl/RDS962>
```

Double-click a pane to make it full screen,  
and again to return to smaller view



# Press the Green Arrow to run the query and see results

The screenshot shows the TopBraidComposerFE application window. The title bar reads "TopBraidComposerFE" and the menu bar includes "File", "Edit", "Navigate", "Project", "Model", "System", "Inference", "Resource", "Window", and "Help". The address bar shows the URL "http://iso15926.fi.atech.org/edrc\_usecase\_1/atomic\_test\_case00000/atomic\_test\_case00000-JobNumber". The toolbar contains icons for "Imports", "Instances", "Domain", "Relevant Properties", "Error Log", "SPARQL", and "Text Search". The "Query Editor" tab is active, displaying a SPARQL query. The query is as follows:

```
SELECT ?JobNumberOnDataSheet
WHERE {
  ?activity rdf:type dm:Activity .
  ?classificationofindividual tpl:hasClassified ?activity .
  ?classificationofindividual rdf:type tpl:ClassificationOfIndividual .
  ?classificationofindividual tpl:hasClassifier <http://data.posccaesar.org/rdl/RDS9629> .

  ?referencetoindividualondocument tpl:hasReferred ?activity .
  ?referencetoindividualondocument tpl:hasDocument ?classofinformationobject .
  ?referencetoindividualondocument rdf:type tpl:ReferenceToIndividualOnDocument .

  ?classificationofclassofindividual tpl:hasClassifier <http://data.posccaesar.org/rdl/RDS345689> .
  ?classificationofclassofindividual tpl:hasClassified ?classofinformationobject .
  ?classofinformationobject rdf:type dm:ClassOfInformationObject .
  ?classificationofclassofindividual rdf:type tpl:ClassificationOfClassOfIndividual .

  ?classifiedidentificationofindividual tpl:hasIdentified ?activity .
  ?classifiedidentificationofindividual tpl:hasIdentificationType <http://rdl.rdfacade.org/data#RA279224C9180470BAE> .
  ?classifiedidentificationofindividual rdf:type tpl:ClassifiedIdentificationOfIndividual .
  ?classifiedidentificationofindividual tpl:valIdentifier ?JobNumberOnDataSheet .
}
```

On the right side of the interface, the "Query results" panel is visible, showing a table with the following data:

[JobNumberOnDataSheet]
JN-1213A

Two callout boxes are present: one labeled "Green Arrow" pointing to the green play button in the toolbar, and another labeled "Query results" pointing to the results panel.



# Select a Class and see list of Instances in pane below

Class

Instances Pane

The screenshot displays the TopBraid Composer FE interface. The left pane shows a tree of classes, with 'dm:Thing (8)' selected. The main pane shows the 'Class Form' for 'dm:Thing', including annotations and class axioms. The bottom pane shows the 'Instances' tab, which lists instances of the selected class.

[Resource]	rdf:type	rdfs:label	rdfs:comment
atc00000:ClassOfIndividual_1	dm:ClassOfInformationObject	Define Document (Classification...	EDRC Use Case 1 Section 6.1.1...
atc00000:PossibleIndividual_2	dm:Activity	Define Project Activity	EDRC Use Case 1 Section 6.1.1...
rdlfacade:CYCLE_PER_DAY	dm:Scale	Cycle Per Day Scale	EDRC Use Case 1 Section 7.2.14...
rdlfacade:Classification_1	dm:Classification	Cycle Per Day a FREQUENCY S...	EDRC Use Case 1 Section 7.2.14...
rdlfacade:PROCESS_VARIATI...	dm:ClassOfClassOfDescription	PROCESS VARIATIONS DESCRIP...	EDRC Use Case 1 Section 7.2.10...
rdlfacade:RA279224C918047...	dm:ClassOfClassOfIdentification	PROJECT IDENTIFICATION CODE	EDRC Use Case 1 Section 6.1.1...
rdlfacade:REVISION_CODE_...	dm:ClassOfClassOfIdentification	REVISION CODE ASSIGNMENT...	EDRC Use Case 1 Section 6.1.3...
rdlfacade:STARTING_CONDI...	dm:ClassOfClassOfDescription	STARTING CONDITIONS DESCR...	EDRC Use Case 1 Section 7.2.11...

# Double click on an instance to view

The screenshot displays the TopBraid Composer FE interface. The top menu bar includes File, Edit, Navigate, Project, Model, System, Inference, Resource, Window, and Help. The address bar shows the URL: TopBraid - iso15926.fi.atech.org/edrc\_usecase\_1/atomic\_test\_case00000/atomic\_test\_case00000-JobNumber.ttl - TopBraid Composer FE - /Users. The breadcrumb path is atc00000:PossibleIndividual\_2. The left sidebar shows a Navigator with a tree structure of classes, including rdfs:Resource (5361), owl:AllDisjointClasses (2), owl:Thing (2088), and dm:Thing (8). The main area displays the Resource Form for 'atc00000:PossibleIndividual\_2'. The form includes sections for Annotations (rdfs:comment, rdfs:label), Other Properties (rdf:type), and Incoming References (tpl:hasClassified, tpl:hasIdentified, tpl:hasReferred). The bottom of the interface shows a table of instances.

[Resource]	rdf:type	rdfs:label	rdfs:comment
atc00000:ClassOfIndividual_1	dm:ClassOfInformationObject	Define Document (Classification...	EDRC Use Case 1
atc00000:PossibleIndividual_2	dm:Activity	Define Project Activity	EDRC Use Case 1
rdlfacade:CYCLE_PER_DAY	dm:Scale	Cycle Per Day Scale	EDRC Use Case 1
rdlfacade:Classification_1	dm:Classification	Cycle Per Day a FREQUENCY S...	EDRC Use Case 1

# Can follow links, hold down cntl and URIs become active

The screenshot displays the TopBraid Composer FE interface. The browser window title is "TopBraid - iso15926.iatech.org/edrc\_usecase\_1/atomic\_test\_case00000/atomic\_test\_case00000-JobNumber.ttl - TopBraid Comp". The address bar shows the URI "atc00000:PossibleIndividual\_2". The interface includes a menu bar (File, Edit, Navigate, Project, Model, System, Inference, Resource, Window, Help) and a toolbar. A left sidebar contains a "Navigator" pane with a tree view of classes: 

- rdfs:Resource (5361)
  - owl:AllDisjointClasses (2)
  - owl:Thing (2088)
    - dm:Thing (8)
      - owl:EmptyList
      - owl:OWList
      - p7tm:Template (178)
        - p7tm:TemplateRole
        - p7tm:TemplateStatement (873)
          - tpl:ActivityCausesBeganIndividual
          - tpl:ActivityCausesDeprecatedClass
          - tpl:ActivityCausesEffectiveClass
          - tpl:ActivityCausesEndedIndividual
          - tpl:ActivityCausesStatusedClass
          - tpl:ActivityCausesTwoRelatedBeganIndividual
          - tpl:ActivityCausesTwoRelatedDeprecatedClas
          - tpl:ActivityCausesTwoRelatedEffectiveClasses
          - tpl:ActivityCausesTwoRelatedEndedIndividual
          - tpl:ActivityCausesTwoRelatedStatusedClasse
          - tpl:AggregateOfMonotypeIndividual
          - tpl:ApprovalWithStatusOfRelationshipByIndivi

The main area shows the "Resource Form" for "atc00000:PossibleIndividual\_2". It includes sections for "Annotations", "Other Properties", and "Incoming References". A tooltip is visible over the "Incoming References" section, indicating that holding the CTRL key makes the URIs active for navigation.

**Resource Form**

Name: atc00000:PossibleIndividual\_2

**Annotations**

- rdfs:comment: EDRC Use Case 1 Section 6.1.1 Define Project Activity (ClassificationOfIndividual)
- rdfs:label: Define Project Activity

**Other Properties**

- rdf:type: dm:Activity

**Incoming References**

- tpl:hasClassified: atc00000:ClassificationOfIndividual\_2
- tpl:hasIdentified: atc00000:ClassifiedIdentifi (Type: tpl:ClassificationOfIndividual, Label: Define Project Activity, (Hold CTRL to navigate))
- tpl:hasReferred: atc00000:ReferenceToIndividualOnDocument\_1



Can also open linked instances in sub-form (hover over diamond for + and -)

The screenshot displays the TopBraidComposerFE application window. The title bar indicates the file path: `TopBraid - iso15926.fi.atech.org/edrc_usecase_1/atomic_test_case00000/atomic_test_case00000-JobNumber.ttl - TopBraid Composer FE - /U`. The address bar shows the URI: `atc00000:PossibleIndividual_2`. The interface is divided into three main sections:

- Navigator:** A tree view on the left showing the ontology structure. It includes categories like `rdfs:Resource` (5361), `owl:AllDisjointClasses` (2), `owl:Thing` (2088), and `dm:Thing` (8). Under `dm:Thing`, there are several subclasses, including `owl:EmptyList`, `owl:OWList`, `p7tm:Template` (178), `p7tm:TemplateRole`, and `p7tm:TemplateStatement` (873). The `p7tm:TemplateStatement` category is expanded, showing various templates like `tpl:ActivityCausesBeganIndividual`, `tpl:ActivityCausesDeprecatedClass`, `tpl:ActivityCausesEffectiveClass`, `tpl:ActivityCausesEndedIndividual`, `tpl:ActivityCausesStatusedClass`, `tpl:ActivityCausesTwoRelatedBeganIndividual`, `tpl:ActivityCausesTwoRelatedDeprecatedClass`, `tpl:ActivityCausesTwoRelatedEffectiveClasses`, `tpl:ActivityCausesTwoRelatedEndedIndividual`, `tpl:ActivityCausesTwoRelatedStatusedClass`, `tpl:AggregateOfMonotypeIndividual`, `tpl:ApprovalWithStatusOfRelationshipByIndivi`, `tpl:ArrangementOfAnIndividual`, `tpl:AssemblyOfAnIndividual`, `tpl:BeginningOfIndividualAtClassifiedEvent`, `tpl:ClassificationOfClassOfIndividual` (1), `tpl:ClassificationOfClassOfIndividualApplicabl`, `tpl:ClassificationOfIndividual` (1), `tpl:ClassificationOfIndividualWithBiologicalMa`, and `tpl:ClassificationOfIndividualWithCompositeM`.
- Resource Form:** The main area on the right displays the details for the selected resource. It includes fields for `Name` (set to `atc00000:PossibleIndividual_2`), `Annotations` (including `rdfs:comment` and `rdfs:label`), `Other Properties` (including `rdf:type` set to `dm:Activity`), and `Incoming References`. The `Incoming References` section shows a reference from `tpl:hasClassified` to `atc00000:ClassificationOfIndividual_2`, which is further detailed with its own `rdfs:label`, `rdf:type`, `tpl:hasClassified`, `tpl:hasClassifier`, and `rdfs:comment`.
- JobNumberOnDataSheet.sparql:** A tab at the top right showing the SPARQL query used to retrieve the data.

The End