

CAPLIN

# Caplin Trader 1.5

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## Permissioning Configuration XML Reference

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CONFIDENTIAL

# Contents

<b>1</b>	<b>Preface.....</b>	<b>1</b>
1.1	What this document contains.....	1
	About Caplin document formats .....	1
1.2	Who should read this document.....	1
1.3	Related documents.....	2
1.4	Typographical conventions.....	3
1.5	Feedback.....	3
1.6	Acknowledgments.....	3
<b>2</b>	<b>Getting started.....</b>	<b>4</b>
2.1	Technical assumptions and restrictions.....	4
2.2	An example configuration file.....	4
<b>3</b>	<b>XML Reference information.....</b>	<b>6</b>
3.1	Ordering and nesting of tags .....	6
3.2	XML tag descriptions.....	6
	<permissionDatasourceDefinitions> .....	6
	<permissionsource> .....	7

# 1 Preface

## 1.1 What this document contains

This reference document describes the XML-based permissioning configuration used in Caplin Trader version 1.5.0 and later.

**Note:** To successfully deploy permissioning using the XML schema described in this document, you must also deploy one or more *compatible* Permissioning DataSources. For more information about this, see **Subscribing to Multiple Permissioning DataSources** in the document **Caplin Trader: How To Add Permissioning At The Client**.

### About Caplin document formats

This document is supplied in three formats:

- ◆ Portable document format (*.PDF* file), which you can read on-line using a suitable PDF reader such as Adobe Reader®. This version of the document is formatted as a printable manual; you can print it from the PDF reader.
- ◆ Web pages (*.HTML* files), which you can read on-line using a web browser. To read the web version of the document navigate to the *HTMLDoc\_m\_n* folder and open the file *index.html*.
- ◆ Microsoft HTML Help (*.CHM* file), which is an HTML format contained in a single file. To read a *.CHM* file just open it – no web browser is needed.

#### For the best reading experience

On the machine where your browser or PDF reader runs, install the following Microsoft Windows® fonts: Arial, Courier New, Times New Roman, Tahoma. You must have a suitable Microsoft license to use these fonts.

#### Restrictions on viewing *.CHM* files

You can only read *.CHM* files from Microsoft Windows.

Microsoft Windows security restrictions may prevent you from viewing the content of *.CHM* files that are located on network drives. To fix this either copy the file to a local hard drive on your PC (for example the Desktop), or ask your System Administrator to grant access to the file across the network. For more information see the Microsoft knowledge base article at

<http://support.microsoft.com/kb/896054/>.

## 1.2 Who should read this document

This document is intended for System Administrators and Software Developers who need to configure permissioning in Caplin Trader.

## 1.3 Related documents

- ◆ **Caplin Xaqua: Permissioning Overview And Concepts**

Introduces permissioning concepts and terms, and shows the permissioning components of the Caplin Xaqua architecture.

- ◆ **Caplin Trader: How To Add Permissioning At The Client**

Describes how to add permissioning to Caplin Trader so that display components behave in accordance with the permissions of the logged in user.

- ◆ **Caplin Trader: API Reference**

The API reference documentation provided with Caplin Trader. The classes and interfaces of the `caplin.security.permissioning` package allow you to write JavaScript classes that extend the live permissioning capabilities of Caplin Trader.

- ◆ **Caplin Xaqua: How To Create A Permissioning DataSource**

Describes how to create a Permissioning DataSource adapter using the Permissioning DataSource API. A Permissioning DataSource adapter is required to integrate Caplin Xaqua with a Permissioning System.

- ◆ **Permissioning DataSource: API Reference**

The API reference documentation provided with the Permissioning DataSource SDK (Software Development Kit). The classes and interfaces presented by this API allow you to write a Java application that will integrate a Permissioning System with Caplin Xaqua.

## 1.4 Typographical conventions

The following typographical conventions are used to identify particular elements within the text.

Type	Uses
<i>/AFolder/Afile.txt</i>	File names, folders and directories
<div>Some code;</div>	Program output and code examples
value	XML tag and attribute names
<b>XYZ Product Overview</b>	Document name
◆	Information bullet point
■	Action bullet point – an action you should perform

**Note:** Important Notes are enclosed within a box like this.  
Please pay particular attention to these points to ensure proper configuration and operation of the solution.

**Tip:** Useful information is enclosed within a box like this.  
Use these points to find out where to get more help on a topic.

## 1.5 Feedback

Customer feedback can only improve the quality of our product documentation, and we would welcome any comments, criticisms or suggestions you may have regarding this document.

Please email your feedback to [documentation@caplin.com](mailto:documentation@caplin.com).

## 1.6 Acknowledgments

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## 2 Getting started

### 2.1 Technical assumptions and restrictions

#### XML

The XML markup defined in this document conforms to XML version 1.0 and the XML schema version defined at <http://www.w3.org/2001/XMLSchema>.

### 2.2 An example configuration file

The Permissioning configuration XML for Caplin Trader defines the Permissioning DataSources that the Caplin Trader client must subscribe to in order to receive permissioning data. This is shown in the following example, which specifies one master and two slave Permissioning DataSources:

**Example Permissioning configuration XML in Caplin Trader:**

```
<?xml version="1.0"?>
<permissionDataSourceDefinitions
  xmlns="http://schema.caplin.com/Security/permissions">
  <permissionsource name="MASTER" role="Master"/>
  <permissionsource name="SLAVE1" />
  <permissionsource name="SLAVE2" />
</permissionDataSourceDefinitions>
```

The name of the master must always be "MASTER", and its role must be set to "master". The name of a slave must match the name of the Permissioning DataSource that provides the permissioning data (note that if the role attribute of the <permissionsource> tag is not specified it defaults to "Slave").

In this example Caplin Trader subscribes to permissioning data from the following containers:

```
/PERMISSIONS/MASTER/CONTAINER/<username>
/PERMISSIONS/SLAVE1/CONTAINER/<username>
/PERMISSIONS/SLAVE2/CONTAINER/<username>
```

where <username> is the logged in user.

**Tip:** Each permissioning container is mapped to a Permissioning DataSource in the Liberator configuration. See **Configuring Liberator to connect to multiple Permissioning DataSources** in the document **Caplin Xaqua: Installing Permissioning Components** for further information.

The location of the XML configuration file is specified by setting the application property **CAPLIN.PERMISSION.CONFIG.URL** in the file *Application.jsp*.

**Example configuration file specification**

```
caplin.core.ApplicationProperties.setProperty(  
    "CAPLIN.PERMISSION.CONFIG.URL",  
    "conf/permissionDatasourceDefinitions.xml");
```

**Note:** If the permissioning configuration XML file is not defined (or is invalid), Caplin Trader will subscribe to the permissioning container called `/PERMISSIONS/CONTAINER/<username>`. This allows legacy client applications that do not subscribe to multiple Permissioning DataSources to continue working without modification if the Caplin Trader library is upgraded.

If the permissioning configuration XML file is invalid, permissioning error messages will be logged to the console log. End users will be able to log in to Caplin Trader but will not be able to view or trade instruments.

**Tip:** For more information about how to set up permissioning in Caplin Trader, see **Caplin Trader: How To Add Permissioning At The Client**.


## 3 XML Reference information

This is the XML reference information for the Element Renderer.

### 3.1 Ordering and nesting of tags

Each top level tag is shown below, together with the child tags that it can contain.

**Tip:** Advanced users may wish to consult the XML Schema in *permissionDataSourceDefinitions.rnc* for definitive information about the ordering and nesting of tags. This file is supplied with the permissioning software for Caplin Trader.

For a description of each tag and its attributes, see [XML tag descriptions](#) .

#### <permissionDataSourceDefinitions>

This is the outermost tag.

```
<permissionDataSourceDefinitions>
  <permissionsource> (zero or more)
</permissionDataSourceDefinitions>
```

### 3.2 XML tag descriptions

This section describes the XML tags that you can use to configure permissioning in Caplin Trader.

For each tag, the attributes you can use are listed and described in a table. The “Req?” column indicates whether the attribute is always required (“Y”) or is optional (“N”). If you do not supply an optional attribute then the default value is applied.

#### <permissionDataSourceDefinitions>

```
<permissionDataSourceDefinitions>
```

A list of Permissioning DataSource definitions that determine the names of the permissioning data containers that are requested from Liberator. If this tag has no children, Caplin Trader uses a single Permissioning DataSource whose name is "MASTER" and whose role is "Master" (the container name is therefore "/PERMISSIONS/MASTER/CONTAINER/<username>").

**Attributes:** This tag has no attributes.



## <permissionsource>

<permissionsource>

The definition of a single Permissioning DataSource. Only one instance of a <permissionsource> whose 'role' attribute is set to "Master" can be defined.

### Attributes:

Name	Type	Default	Req?	Description
name	string	(none)	Y	The name of the Permissioning DataSource. This name is used in the request for the permissioning data container. This attribute must be set to "MASTER" if the 'role' attribute is set to "Master".
role	string	Slave	N	The role of the Permissioning DataSource. Valid values are "Master" or "Slave".

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