## CAPLIN

# **Caplin Integration Suite 6.0**

## How To Create A Platform Java Blade

December 2012



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## **1** Preface

#### 1.1 What this document contains

This document explains how to create new Java®-based Caplin Platform blades, using the Caplin Integration Suite Toolkit.

If you develop your blades using the **Eclipse**<sup>TM</sup> IDE, read sections 2, 3, 4, and 5.

If you do not use Eclipse, you will need to use the Toolkit's command line utility instead; see sections 2.1, 2.2, and 6.

#### **About Caplin document formats**

This document is supplied in Portable document format (*.PDF* file), which you can read on-line using a suitable PDF reader such as Adobe Reader®. The document is formatted as a printable manual; you can print it from the PDF reader.

#### 1.2 Who should read this document

This document is intended for developers. Before reading it, you should be familiar with the concepts and terms that are introduced in the following documents.

- Caplin Platform Overview (all sections)
- Caplin Platform: Deployment Framework Overview (all sections)
- Caplin DataSource Overview (all sections)
- Caplin Liberator Administration Guide (Overview section)

#### **1.3 Related documents**

#### Caplin Platform Overview

A technical overview of the Caplin Platform.

#### Caplin Platform: Deployment Framework Overview

Explains the concept of the Caplin Platform Deployment Framework, including Caplin Platform blades and how they are deployed.

#### Caplin Liberator Administration Guide

Describes the Caplin Liberator server and its place within the Caplin Platform. It includes configuration reference information and a list of Liberator log and debug messages.

#### Caplin DataSource: Overview

A technical overview of Caplin DataSource.

#### DataSource For C Configuration Syntax Reference

Describes the syntax of the language that is used to configure DataSource applications (such as Integration Adapters) that use *.conf* configuration files.

## **1.4 Typographical conventions**

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

Туре	Uses
aMethod	Function or method name
aParameter	Parameter or variable name
/AFolder/Afile.txt	File names, folders, and directories
Some code;	Program output and script examples
The value=10 attribute is	Script fragment in line with normal text
Some text in a dialog box	Dialog box output
Something typed in	User input – things you type at the computer keyboard
Glossary term	Items that appear in the "Glossary of terms and acronyms"
XYZ Product Overview	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.

## 1.6 Acknowledgments

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## 2 About the Caplin Integration Suite Toolkit

## 2.1 What is the Caplin Integration Suite Toolkit?

The Caplin Integration Suite Toolkit provides the ability to create and export **Caplin Platform blades** that drop in to the **Caplin Platform Deployment Framework**.

You can create a blade from within the Eclipse<sup>™</sup> IDE by first installing a plugin from the Toolkit (the Caplin Integration Suite for Eclipse plugin) and then using the plugin's Caplin Integration Adapter project wizard. The plugin also allows you to run and debug a blade project when you develop using Eclipse.

Alternatively, you can use a command line utility (via the java -jar ... command) to create blades, and to export blades, as explained in section 6.

Note: In the rest of this document the term "blade" means "Caplin Platform blade".

For information about the Caplin Platform Deployment Framework see the document **Caplin Platform Deployment Framework Overview**.

#### 2.2 Supported blade types

The Caplin Integration Suite Toolkit supports the following types of blade:

• Adapter blades written in Java.

An Adapter blade connects to, and supplies data to, a **Caplin Liberator** or **Caplin Transformer**. It consists of an **Integration Adapter** (an executable binary file), DataSource configuration, and core component configuration. The Integration Adapter must be written in Java, using one or more of the **Caplin Integration Suite's** Java APIs.

#### • Config blades

A Config blade enables a feature purely through configuration of existing Caplin Platform components.

The Caplin Platform Deployment Framework comes with several built-in blades of this type. For more information, see the **Caplin Platform Deployment Framework Overview**.

## 2.3 Installing the plugin and the command line utility

Before you can create new Caplin Platform blades using Eclipse, you must install the Caplin Integration Suite plugin.

• You can obtain the plugin from the Caplin website at <u>http://www.caplin.com/developer/eclipse</u>.



The command line utility described in section 6 "Creating a blade from the command line" is in the tools directory of the unzipped Caplin Integration Suite.

## 3 Creating a blade

You create a blade project from Eclipse using the Caplin Integration Adapter Blade project wizard.

From Eclipse's New Project dialog (File > New > Project...), select the Caplin node, followed by the node called Integration Adapter Blade Project.

🔿 New Project	
Select a wizard Create a new integration adapter blade project	
<u>Wi</u> zards:	
type filter text	
Java Project Java Project from Existing Ant Buildfile Plug-in Project General Caplin Thegration Adapter Blade Project CVS CVS Poice Java Plug-in Development	
< Back Next > Einish	Cancel

New Project	
Select a wizard Create a new integration adapter blade project	
Wizards:	
Java Project   Plug-in Project   Plug-in Project   Plug-in Project   Plug-in Project   Plug-in Development	
(?) < <u>Back</u> <u>Next</u> > <u>Finish</u>	Cancel

Select Next.

The Caplin Integration Adapter project wizard starts.

## 3.1 Wizard step 1:

🔿 Create an Integration Adapter Blade Project 📃 🗖 🔀					
Create an Integration Adapter Blade Project					
Enter a proj	ect name.			CAPLIN	
Project nam	e: MyBlade				
🔽 Use <u>d</u> el	fault location				
Location:	C:\Documents and	Settings\johne\w	orkspace\MyBl	ade	Browse
Base packa This packa	age ge will be used to gi	enerate code.			]
Package:	com.novobank.jav	a.platformblade			
Working se	Working sets				
W <u>o</u> rking s	ets:				S <u>e</u> lect
?		< <u>B</u> ack	<u>N</u> ext >	Einish	Cancel

Enter a project name

This is the name of the blade that is to be created. The name is also used in Java class names, so it must conform to Java naming standards.

The Use default location box is automatically checked when the wizard dialog is displayed. The blade is therefore created in the location shown in the grayed-out Location box.

- To change the blade location, uncheck the Use default location box, and either enter a file path in the Location box or browse to the desired location.
- You can optionally provide a Java package name for the generated blade Java classes. If you do not provide one, the classes are placed in the default (unnamed) package.

- You can optionally add the new project to an Eclipse working set.
   Consult your Eclipse documentation for information about Eclipse working sets.
- Select Next to move to step 2 of the wizard.

## 3.2 Wizard step 2:

🕏 Create an Integration Adapter Blade Project 📃 🗖 🔀			
Create an Integration Adapter Blade Project Select APIs to import. CAPLIN			
Select the location of the Caplin Integration Suite   C:\Program Files\Caplin\CIS\caplin-integration-suite-6.0.0-23949637   Browse     API   Which APIs would you like to use in your integration adapter?   Pricing Integration API   Configure Pricing   Irading Integration API   Permissioning Integration API   Alerts Integration API			
(?) < <u>Back</u> <u>Next</u> > <u>Finish</u> Cancel			

First, make sure that the Caplin Integration Suite has been unzipped to a suitable location in the file system.

For example, the location could be a folder called *caplin-integration-suite-[version]-[build]*, which was created by unzipping a Caplin Integration Suite kit of the same name.

In the wizard, enter the location of the unzipped Caplin Integration Suite, either as a file path, or by browsing to the location.

The wizard reports an error if the required contents of the suite are missing.

In the API section of the wizard, select which Caplin Integration APIs to include in the project. These are presented as Pricing Integration API, Trading Integration API, Permissioning Integration API, and Alerts Integration API, and you can select one or more to create a blade.

Your selections determine which libraries are included in your blade project, how the blade is configured, and which source files are created.

If you have selected Pricing Integration API, you have the option to configure whether the Integration Adapter will connect to Transformer or to the Liberator: select the link Configure Pricing...

By default a Pricing Adapter will connect to Transformer to enable data filtering.

Select Finish to create the blade.

#### 3.3 Wizard step 3:

If at step 2 you selected Trading Integration API, or Trading Integration API and Pricing Integration API, the wizard prompts for an Asset Class as shown below.

A valid Asset Class must only contain alpha-numeric characters; for example, FX.

🔿 Create an	Integration Adap	ter Blade P	roject		
Create an Integration Adapter Blade Project Enter namespace information.				CAPLIN	
Adapter Confi Enter the As:	iguration set Class to use for th	is Integration	Adapter.	What doe:	s this affect?
Asset Class:	FX				
?		< <u>B</u> ack	<u>N</u> ext >	Einish	Cancel

If you also selected Pricing Integration API, the subject prefix for received prices is derived from the asset class by adding a slash ('/') prefix and suffix. For example, if the entered asset class is Fx, the derived subject prefix is /Fx/

If at step 2 you selected Pricing Integration API, but not Trading Integration API, the wizard prompts for a Subject Prefix instead.

A valid Subject Prefix must only contain alphanumeric characters. It must begin with a slash character ('/') and should end with a slash; for example, /FX/

## 3.4 Blade file structure

The following picture of Eclipse's Package Explorer shows the file structure of the newly created blade project resulting from the example Wizard settings shown in the previous section.



The blade files are located under a directory that has the name of the blade. In the example, this directory is *MyBlade*, marked **red** in the picture of Eclipse Package Explorer.

The *src* subdirectory contains a Java package in which the source code files are located. In the example, the package is *com.novobank.java.platformblade*, marked **green** in the picture of Eclipse Package Explorer, and the path of the corresponding subdirectory is *com/novobank/java/platformblade/*.

#### Java source files

The Java source files created in this package are:

♦ <BladeName>.java

This file contains a main class and instantiates the providers used by your blade.

In the example, this file is *MyBlade.java*.

• The provider code stubs awaiting implementation.

There is a Java source file for each provider, with a name of the form <*BladeName*><*AdapterType*>*Adapter.java* 

In the example, there is just a single trading provider, whose code stub is in *MyBladeTradingAdapter.java*.

#### Blade component configuration

The configuration for the blade components is located in subdirectories of <BladeName>/Blade

In the example (marked **blue \_\_\_\_** in the picture of Eclipse Package Explorer):

- The field definitions for the blade are in *MyBlade/Blade/blade\_config/fields.conf*
- The DataSource configuration is in *MyBlade/Blade/DataSource/etc/*
- The Liberator configuration is in *MyBlade/Blade/Liberator/etc/*

The *global\_config* subdirectory (marked **purple** in the picture) contains configuration files that are used when the blade is connected to a remote host at run time (see section 4 "Running your blade from Eclipse".)

## 4 Running your blade from Eclipse

Caplin Platform blades are Java projects. However to run your blade in Eclipse, you need to use the Caplin blade launcher.

#### Before running the blade:

An Adapter blade will usually connect to a Liberator or Transformer. To ensure that the Liberator or Transformer is aware of the Adapter blade:

- Export the blade as a Config blade (see section 5.2)
- Deploy the exported Config blade to the Caplin Deployment Framework on the machine where the Liberator/Transformer is located (it could of course be the machine where you are developing the blade).

The hostnames configuration on your development machine (the machine where the blade is to run) must point to the correct location of the Liberator/Transformer:

■ Edit the hostnames in *<BladeName>/global\_config/hosts.conf* as required.

For example, edit MyBlade/global\_config/hosts.conf

**Note:** If you omit these steps, when you run the blade, it will attempt to connect to the Liberator or Transformer but will fail to do so.

#### To run the blade using the Caplin blade launcher:

From the Run Configurations dialog in Eclipse (Run > Run Configurations), select the Caplin blade run configuration specific to your blade project.

The run configuration for your blade has a name of the form <BladeName> Configuration.

For example, MyBlade Configuration.

🕏 Run Configurations 🛛 🔀					
Create, manage, and run conf description	Create, manage, and run configurations description				
Caplin Platform Blade Caplin Platform Blade Caplin Platform Blade Caplin Platform Blade Caplication Eclipse Application Java Applet Java Applet Java Application Ju JUnit JUnit Plug-in Test OSGi Framework	Mame:       MyBlade Configuration         Image: MyBlade Configuration       Image: Common Comm				
Filter matched 8 of 8 items	Apply Reyert				

#### ■ Then select Run.

**Tip:** During the run, log files are created in your blade's *DataSource/var* directory. System output is written to the Eclipse console.

## 4.1 Changing the blade's run configuration

The Arguments tab of Eclipse's Run Configurations dialog shows pre-configured Program arguments that specify the location of configuration files for the blade:

🕏 Run Configurations 🛛 🔀					
Create, manage, and run configurations description					
Wame: MyBlade Configuration     Yype filter text     Capin Platform Blade     MyBlade Configuration     Yeige Application     Java Applet     Java Applet     Junit        Yeige Applet     Junit              Yeige Applet                 Yeige Applet					
Filter matched 8 of 8 items	Apply	evert			
Image: Run Close					

Typically, you should not alter the program arguments automatically entered for you in the provided launcher, because the locations of these files must conform to the Caplin Platform Deployment Framework's expectation of a blade's directory structure. However, you may define additional program arguments required by your own code.

## 4.2 Creating a new run configuration

If a run configuration does not exist for your blade you can create one as follows:

- Right click on any file within your blade project and select Run As > Run Configurations...
- In the Run Configurations dialog, right click on the Caplin Blade icon and select New.

🕏 Run Configurations 🛛 🛛 🔀					
Create, manage, and run configurations description					
Image: Second state of the second s	Configure launch settings from this dialog:             • Press the 'New' button to create a configuration of the selected type.             • Press the 'Duplicate' button to copy the selected configuration.             • Press the 'Delete' button to remove the selected configuration.             • Press the 'Delete' button to remove the selected configuration.             • Press the 'Delete' button to remove the selected configuration.             • Press the 'Filter' button to configure filtering options.             • Edit or view an existing configuration by selecting it.          Configure launch perspective settings from the 'Perspectives' preference page.				
?	Run Close				

Eclipse creates a run configuration specific to your blade. You should name the run configuration so it is distinct from others that you create.

**Tip:** If you check out an existing blade project from a source code management system, there will probably be no run configuration defined for it, and you will have to create one.

## 4.3 Debugging the blade

Debugging your blade in Eclipse works in a similar way to running it:

- From the Debug Configurations dialog in Eclipse (Run> Debug Configurations), select the Caplin blade run configuration specific to your blade project.
- Then select Debug.

## 5 Exporting your blade as a kit

To create a deployment blade that can be deployed to the Caplin Platform Deployment Framework, you must export your blade project using the Caplin Blade Export Wizard. Deploy the resulting kit by following the instructions in the document **Caplin Platform: Deployment Framework Overview**.

## 5.1 To export an Adapter blade:

- 1. Select any file within your blade project.
- 2. Right click and select Export.
- 3. In the Export dialog, navigate to Caplin and select Caplin Platform Blade.

🔿 Export	_ 🗆 🔀
Select Export this project into a deployable Platform Blade	2
Select an export destination:	
type filter text	
<ul> <li>General</li> <li>Caplin</li> <li>Caplin Platform Blade</li> <li>Caplin Platform Blade</li> <li>Caplin Platform Blade</li> <li>Caplin Platform Blade</li> <li>Caplin Development</li> </ul>	
(?) < Back Next > Einish	Cancel

4. Select Next.

The Export Caplin Platform Blade wizard is displayed:

•				
Export Caplin Platform Blade Export a deployable Caplin Platform Blade to local file system.	CAPLIN			
Export destination				
C:\MyBladeExports	Browse			
Export Options				
<ul> <li>Complete integration adapter blade</li> <li>Configuration only blade</li> </ul>				
(?) < <u>B</u> ack <u>N</u> ext >	Einish Cancel			

- 5. In the Export Location box enter (or browse to) the path of the directory where the blade is to be exported to.
- 6. Ensure the Export option Complete integration adapter blade is selected.
- 7. Select Finish.

The blade is exported as a Zip archive.

## 5.2 To export a Config blade:

- 1. Select any file within your blade project in the navigator pane.
- 2. Right click and select Export.
- 3. In the Export dialog, navigate to navigate to Caplin and select Caplin Platform Blade.
- 4. Select Next.
- 5. In the Export Location box enter (or browse to) the path of the directory where the blade is to be exported to.
- 6. Ensure the Export option Configuration only blade is selected.
- 7. Select Finish.

The blade is exported as a Zip archive containing configuration for Liberator and/or Transformer as appropriate.

## 6 Creating a blade from the command line

The Caplin Integration Suite Toolkit can be used at the command line to create a new blade project. The command creates the directory tree, and generates blade configuration and source files.

The command line utility allows you to:

- Create a new blade project (create command see section 6.1).
- Build a blade project on your development machine (build command see section 6.2).
- Run a blade project on your development machine (run command see section 6.3).
- Export an existing blade project as a Caplin Platform blade so it can be deployed to the Caplin Deployment Framework (export command – see section 6.4).

**Tip:** The command line utility is located in the tools directory of the unzipped Caplin Integration Suite.

• To run the Toolkit's command line utility, enter a command string of the form:

```
java -jar cis-blade-toolkit_<ver>.<build_id>.jar <command> <arguments>
For example:
```

```
java -jar cis-blade-toolkit_5.0.0.230420.jar create <arguments>
```

Sections 6.1 to 6.4 detail the <code><arguments></code> applicable to each command, and show example commands.

Additionally:

To display basic usage instructions for the command line utility, type:

java -jar cis-blade-toolkit\_<ver>.<build\_id>.jar help
For example:

```
java -jar cis-blade-toolkit_5.0.0.230420.jar help
```

For detailed help about each command, type:

```
java -jar cis-blade-toolkit_<ver>.<build_id>.jar help <command>
For example:
```

java -jar cis-blade-toolkit\_<ver>.<build\_id>.jar help create

## 6.1 Command for creating a new blade project

**Tip:** If the blade is to be developed in Eclipse, it is recommended that you create the blade project using the Caplin Integration Adapter project wizard, as described in section 3 of this document.

#### Command: create

Argument	Required/Optional	Description
-n	Required	The name of the Java blade
name		(and hence the name of its main class).
-k	Required	Path to the unzipped Caplin Integration Suite kit.
kit		
-d	Optional	The location of the blade project.
directory		By default, the project structure is created in the current working directory.
-p	Optional	The package containing the source code.
package		For example: com.novobank.adapter
-i	Required	The Caplin Integration APIs to include.
include		The selection can be one or more of pricing, trading, alerts, or permissioning, separated by spaces.
-s	Optional,	Subject Prefix or Asset Class
	but see Description	If pricing is among the API selections, but not trading you must specify a Subject Prefix. A valid Subject Prefix must only contain alphanumeric characters. It must begin with a slash and should end with a slash; for example, /FX/
		If trading is among the API selections, you must specify an Asset Class. A valid Asset Class must only contain alpha-numeric characters; for example, FX
		If both trading and pricing are amongst the API selections, you must specify an Asset Class, as defined above. In this case, the subject prefix for received prices is derived from the asset class by adding a slash ('/') prefix and suffix. For example, if the entered asset class is FX, the derived subject prefix is /FX/

Argument	<b>Required/Optional</b>	Description
-L	Optional	Ensures that the Integration Adapter connects directly to the Liberator. Use this argument when pricing is specified in the -i argument.

#### Example: Create a new pricing and trading blade from scratch:

```
java -jar cis-blade-toolkit_5.0.0.<build_id>.jar create ^
-n MyBlade -k ../../CaplinIntegrationSuite/ -d NewDirectory ^
-i pricing -s /FX/ -p com.novobank.adapter
```

This example creates a pricing-only blade called MyBlade that uses the integration libraries from the given CaplinIntegrationSuite. The blade project is created in a subdirectory called *NewDirectory* within the current working directory.

## 6.2 Command for building a blade

#### Command: build <blade-name>

The build command allows you to build a blade that can run on your development machine. The command generates the configuration files necessary for running the blade locally. The only argument required is the name of the blade, which can include its path.

Compilation errors are output to the command line.

Argument	<b>Required/Optional</b>	Description
-cp -classpath	Optional	The class-path. By default the builder uses all jars it finds in <i>Blade/Datasource/lib</i> to create a class-path (in addition to the class-path defined by the environment, if any). This argument can be used to override the default with the jars in the specified class-path.

#### build command example:

```
java -jar cis-blade-toolkit_<ver>.<build_id>.jar build <blade-name>
```

## 6.3 Command for running a blade

#### Command: run <blade-name>

This command runs the blade on your development machine once you have built it.

#### Before running the blade:

An Adapter blade will usually connect to a Liberator or Transformer. To ensure that the Liberator or Transformer is aware of the Adapter blade:

- Export the blade as a Config blade (see the export command in section 6.4)
- Deploy the exported Config blade to the Caplin Deployment Framework on the machine where the Liberator/Transformer is located (it could of course be the machine where you are developing the blade).

The hostnames configuration on your development machine (the machine where the blade is to run) must point to the correct location of the Liberator/Transformer:

■ Edit the hostnames in *<BladeName>/global\_config/hosts.conf* as required.

For example, edit *MyBlade/global\_config/hosts.conf* 

**Note:** If you omit these steps, when you run the blade, it will attempt to connect to the Liberator or Transformer but will fail to do so.

#### run command details

The only argument required to run is the name of the blade. If the blade is not in the current working directory, use the -d or -directory argument to specify its path.

While the blade is running you can stop it at any time by pressing the key combination Control+C (shown as ^C in the command example below).

Any runtime errors are output to the command line.

Argument	<b>Required/Optional</b>	Description
-cp -classpath	Optional	The class-path. By default the runner uses all jars it finds in <i>Blade/Datasource/lib</i> to create a class-path (in addition to the class-path defined by the environment, if any). This argument can be used to override the default with the jars in the specified class-path.
-d directory	Optional	The path to the blade. If no path is specified, the blade is assumed to be in the current working directory.

Argument	<b>Required/Optional</b>	Description
-m mainclass	Optional	The name of the blade's main class. If the blade's main-class name has been changed since you created the blade project, you must supply this argument.
		The default is <blade-name>DataSource.</blade-name>

#### run command example:

## 6.4 Command for exporting an existing blade project

#### Command: export

Argument	Required/Optional	Description
-n	Required	The blade name.
blade-name		
-p	Required	A class path string that specifies the jars of any
class-path		Integration Suite.
		Separate the individual jar paths by spaces, and enclose the whole string in quotes ("").
		exported jar with the command java -jar
-A	Optional	The path to the compiled Java classes.
compiled-		The default is the <i>bin</i> directory in the root directory of the project
classes		
-0	Optional	The output location of the archive.
output		I ne default is the current working directory.
config-only	Optional	Export a Config blade.

**Note:** Before exporting your project as a blade you must first compile the blade application's source code, otherwise the export operation will fail. For information on building your blade, see section 6.2.

**Tip:** The export command expects the compiled classes to be in the bin directory within the root directory of the project. However, if they have been created in a different location, you can use the -A (or --compiled-classes) argument to tell the export command where to find them.

#### Export command example usage:

```
java -jar cis-blade-toolkit_<ver>.<build_id>.jar export X:\CaplinBlades\
```

This example exports a blade called MyPricingAdapter located in X:\CaplinBlades\

## 7 Glossary of terms and acronyms

This section contains a glossary of terms, abbreviations, and acronyms used in this document.

Term	Definition	
Adapter blade	A blade for the Caplin Platform that consists of an Integration Adapter and associated configuration.	
Alerts Integration API	An integration API that allows you to send alert notifications into the <b>Caplin Platform</b> from other systems.	
Blade	A re-usable software module containing the code and resources needed to implement a business feature. In this document the term blade specifically means a <b>Caplin Platform blade</b> .	
Blade toolkit	A set of commands to create, build and export <b>Caplin</b> <b>Platform blades</b> . See sections 3, 4, 5, and 6 of this document.	
Caplin Integration Suite (CIS)	A set of APIs and tools for creating adapters that integrate the <b>Caplin Platform</b> with external systems. It includes the <b>blade toolkit</b> .	
Caplin Liberator	A financial internet hub that delivers data and messages in real time to and from subscribers over any network.	
Caplin Platform	An integrated suite of software that supports the services and distribution capabilities needed for web trading. It consists of <b>Caplin Liberator</b> , <b>Caplin Transformer</b> , Caplin KeyMaster, Caplin Director, and Caplin Management Console.	
Caplin Platform blade	A blade designed for use with the Caplin Platform. A Caplin Platform blade can be an Adapter blade, Config blade, or Service blade.	
Caplin Platform Deployment Framework	A configuration and deployment environment for the Caplin Platform that supports Caplin Platform blades.	
Caplin Transformer	An event-driven, real-time data transformation engine optimised for web trading services. These services are implemented in <b>Transformer Modules</b> .	
Config blade	A <b>Caplin Platform blade</b> that enables a feature through configuration.	

Term	Definition
DataSource	DataSource is the messaging infrastructure used by the Caplin Platform and Integration Adapters.
	In some older documents DataSource is also used as a synonym (but <i>non-preferred term</i> ) for <b>DataSource application</b> .
DataSource API	An API that allows server applications (including Integration Adapters) to communicate with the Caplin Platform.
DataSource application	An application that uses the <b>DataSource API</b> . <b>Caplin Liberator, Caplin Transformer</b> , and <b>Integration</b> <b>Adapters</b> are all DataSource applications.
Eclipse	An integrated software development environment (IDE) that supports Java. For more information about Eclipse, see <u>www.eclipse.org</u>
Integration Adapter	A server application that allows an external system to communicate with the <b>Caplin Platform</b> . An Integration Adapter is a <b>DataSource application</b> and is created using the <b>Caplin Integration Suite</b> .
Liberator	Short for Caplin Liberator.
Liberator Auth Module	A software module in <b>Caplin Liberator</b> that performs authentication and permissioning functions.
Permissioning	The process of determining the access rights that an end-user has to resources, such as data and functionality. Also known as "authorization".
Permissioning Integration API	An API for sending <b>permissioning</b> information to the <b>Caplin</b> <b>Platform</b> . The Permissioning Integration API is part of the <b>Caplin Integration Suite</b> .
Pricing Integration API	An API for sending pricing information to the <b>Caplin Platform</b> . The Pricing Integration API is part of the <b>Caplin Integration</b> <b>Suite</b> .
Service blade	A blade for the <b>Caplin Platform</b> that includes a <b>Transformer module</b> or a <b>Liberator Auth module</b> .
Trade model	The definition of a particular trading workflow. It specifies all the states that a trade can be in, and the transitions between those states.

Term	Definition
Trading Integration API	An API for creating an <b>Integration Adapter</b> for trade messages that intelligently manages the <b>Trade model</b> for each trade. The Trading Integration API is part of the <b>Caplin</b> <b>Integration Suite</b> .
Transformer	Short for Caplin Transformer.
Transformer Module	A software module in <b>Caplin Transformer</b> that implements a service. For example, the Refiner module provides a Container filtering and sorting service.



## **Contact Us**

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