Appendix

Version 5.1.0.RELEASE

## Chapter 1. XML Schemas

This part of the appendix lists XML schemas for data access, including the following:

- The tx Schema
- [xsd-schemas-jdbc]

## 1.1. The tx Schema

The tx tags deal with configuring all of those beans in Spring's comprehensive support for transactions. These tags are covered in the chapter entitled Transaction Management.



We strongly encourag you to look at the 'spring-tx.xsd' file that ships with the Spring distribution. This file contains the XML Schema for Spring's transaction configuration and covers all of the various elements in the tx namespace, including attribute defaults and similar information. This file is documented inline, and, thus, the information is not repeated here in the interests of adhering to the DRY (Don't Repeat Yourself) principle.

In the interest of completeness, to use the elements in the tx schema, you need to have the following preamble at the top of your Spring XML configuration file. The text in the following snippet references the correct schema so that the tags in the tx namespace are available to you:

- ① Specify the namespace.
- ② Specify the location (with other schema locations).



Often, when you use the elements in the tx namespace, you are also using the elements from the aop namespace (since the declarative transaction support in Spring is implemented by using AOP). The preceding XML snippet contains the relevant lines needed to reference the aop schema so that the elements in the aop namespace are available to you.

## === The jdbc Schema

The jdbc elements let you quickly configure an embedded database or initialize an existing data source. These elements are documented in Embedded Database Support and Initializing a DataSource, respectively.

To use the elements in the jdbc schema, you need to have the following preamble at the top of your Spring XML configuration file. The text in the following snippet references the correct schema so that the elements in the jdbc namespace are available to you:

```
<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:jdbc="http://www.springframework.org/schema/jdbc" xsi:schemaLocation=" ②
    http://www.springframework.org/schema/beans
http://www.springframework.org/schema/beans.xsd
    http://www.springframework.org/schema/jdbc
http://www.springframework.org/schema/jdbc/spring-jdbc.xsd"> <!-- bean definitions
here --> ②
</beans>
```

- ① Specify the namespace.
- ② Specify the location (with other schema locations).