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Title: "Legal"

Release: pingfederate-<version>.zip. When extracted from this zip file, the PingFederate application is in the main folder under the "pingfederate" subfolder.

Placement: Included within collection of files composing specific Ping Identity release.

Type of File: .pdf

Contents:

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SOAP with Attachments API for Java	Sun Microsystems, Inc.	62.0
Spring	Spring Framework Organization	63.0
Streaming API for XML	Sun Microsystems, Inc.	64.0
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Swagger Core Library	Reverb Technologies, Inc.	69.0

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Whatwg-fetch	WHATWG	74.0

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1. US Patent No. 6,085,320 entitled, "Client/Server Protocol for Providing Authenticity" issued on July 4, 2000;
2. US Patent No. 6,189,098 entitled, "Client/Server Protocol for Providing Authenticity" issued on February 13, 2001;
3. US Patent No. 6,249,873 entitled, "Method of and Apparatus for Providing Secure Distributed Directory Services and Public Key Infrastructure" issued on June 19, 2001;
4. US Patent No. 5,922,074 entitled, "Method of and Apparatus for Providing Secure Distributed Directory Services and Public Key Infrastructure" issued on July 13, 1999.1

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10. Apache Tapestry

Modifications:

- Fix log forging ability when specifying an invalid service name.
- Added a digital signature to the serialized parameters to ensure untrusted data cannot be injected via the URL or POST form data.
- Removed some exception handling code that wrote directly to System.err.
- Added better support for Japanese characters by properly encoding surrogate pair characters into their respective numeric character references.

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14. Apache XML (Other than XML Security)

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15. Apache XML Security Library

Modifications:

- Resolved a defect related to the OAEP key transport method used during encryption/decryption. XML Security will no longer pass the OAEP parameters if the JCE digest algorithm and MGF are both SHA-1.

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16. Apache XML Beans

Modifications:

- Added better support for Japanese characters by properly encoding surrogate pair characters into their respective numeric character references.

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17.ASM Library

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18.AWS Auto Discovery for JGroups

Modifications:

- Renamed Java packages.
- Optimizations to simplify configuration and reduce AWS SDK dependencies.

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31.JaasLounge

Modifications:

- Added support for AES encryption algorithm.

Source code including these modifications can be requested from Ping Identity Support.

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32.Jackson Java JSON Processor

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39.JCIFS SMB Client Library in Java**File:**

jcifs-krb5.jar

Modifications:

Repackaging of the jcifs-krb5-1.3.12.jar distribution to include updated class files from jcifs-1.3.14.jar to utilize the latest JCIFS library updates.

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40.Jersey

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None.

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42.Jetty

Modifications:

Modified how cookies are parsed to allow for better interoperability with other vendors
Modified cookie handling to allow for empty cookie values
Add commons logging to default system classes
Modified TLS SNI handling to reload keys from configuration and address compatibility with HSM modes
Modified setting the SameSite attribute on cookies based on the requesting user-agent not matching a value in an exclusion list

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50. License4j

Modifications:

Recompiled the License4j source code using version 5.5 of the Allatori obfuscator. This is done to remove the a.class that was packaged with the original License4j jar, avoiding any class conflicts with other jars that also have the same class.

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52.Log4j2

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None.

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53.MIME Pull

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None.

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54.Normalizr

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None.

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55.OGNL

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56.OWASP Java Encoder Project

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57.Prop-types

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None.

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58.RE2/J

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None.

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59.React

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60.React-scroll

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None.

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61.SLF4J

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None.

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62.SNMP4J

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63.SOAP with Attachments API for Java

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Source Code Download: <http://java.sun.com/xml/downloads/saaj.html>

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64.Spring

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65.Streaming API for XML

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66.Sun Javamail**Modifications:**

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67.Sun Java Streaming XML Parser**Modifications:**

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68.Sun JAXRPC**Modifications:**

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70.Swagger Core Library**Modifications:**

- Fix annotation support for @JsonIgnore and @JsonProperty
- Update the library to allow Swagger's sub type annotations to be mixed with Jackson's sub type annotations, instead of restricting clients to one or the other
- Update the library to return all the available sub type models for a particular resource schema if they're referenced anywhere in the existing hierarchy of models.
- Fix issue where a Map's type argument wasn't being added to the list of models to return in resource's schema
- In API schema, ensure enum values are listed when the enum is embedded in a collection.
- When Java enums are used as parameters, fill in the enum property for the parameter in the API description.
- Fix issue where a property might not appear in the API description if a property with the same name exists on another unrelated model.
- Fix issue where sub class models were referencing their parent model using a fully qualified Java class name, instead of the simple class name.
- Added a new SwaggerModel called MapElement.
- Improved model read performance by adding a ModelCache class that keeps track of all the models loaded.

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71. Swagger UI**Modifications:**

- Fix issue where a Map's type argument wasn't being added to the list of models for a particular operation
- Update the library so all referenced sub types in a model's hierarchy was shown properly
- Removed the swagger header, and adding our own header, footer, page title, images, and a hardcoded API URL to Ping's products.
- Updated the models to display its model description, and removed the comma after model properties
- Added a new configuration object called SwaggerUiConfig, that allows teams to customize the appearance of their UI from the existing Swagger look to Ping's customized look. This includes:
 - Moving the sandbox area to the top of the operation.
 - Hiding the "Parameter content type" drop down.
 - Hiding the "Response content type" drop down.
 - Removing the "Data Type" column in the operation Parameters, and adding a button for the "click to set as parameter value" functionality, placing it under the parameter text field.
 - Trim "Response Class" section to only show the name of the response type.
 - Add a new "Operational Models" section that will merge all the parameter/response models together.
 - Put the parameter Data Type into the "value" text fields. For example, on the /sp/idpconnections/ {id} endpoint the default "id" parameter value would be "string (required)" and the "body" value would be "IdpConnection (required)".
 - Remove all the references to the word "optional" in model parameters. We'll rely on the descriptions themselves to call out required fields and other important info.
 - Using the browser's base URL to determine the destination of the API service.
 - List the available resources using their URL paths, instead of just the resource name.
 - Displaying the "optional" tag for optional model properties, or displaying an asterisk for required model properties.
- Fixed issue where clicking the model schema on response models did nothing.
- Remove "Show/Hide" link as the path/method can already be clicked.
- Changed "List Operations / Expand Operations" to be one link "List/Expand Operations".
- Clicking on Resource description will expand/collapse element.
- Open "Raw" link in new tab.
- Rename "Raw" to "Resource Metadata".
- Change base URL in footer from API-docs base URL to API service's base URL.
- Fix issue where the UI was loading the API twice.
- Fix issue where all the "Request URL" sections for all sandboxes were being updated to show the last request's URL.
- Hide response content of unrecognized content-types so we don't inadvertently display binary content in the UI

- Support file uploads.
- Workaround problems with IE9's lack of cross origin.
- Update to latest copyright year.
- Upgrade jquery version to 2.1.3.
- Display the model hierarchy in the model descriptions.
- Display deprecated resource operations with a strikethrough in their name.
- Sort the resources by name.
- Fix issue where Map objects weren't showing up correctly in the JSON template text box.
- Fix issue where model descriptions wouldn't appear if they were only referenced in a Map's entry.

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72.TinyRadius

Modifications:

Added support for multi-threading
Numerous bug fixes

Source code including these modifications is available from the following repository:

<https://github.com/b---c/TinyRadius>

The original library may be used but it may not work as intended, in particular for defects that were fixed and features that were added. Use the link below to access the original library:

<http://tinyradius.sourceforge.net/>

To use the original library, follow these steps:

1. After obtaining the source code to the original library, refactor the package name from: `org.tinyradius`, to `org.newtinyradius`, and re-compile the library
2. Extract the contents of `PingIDRadiusPCV-<version>.jar`
3. Delete the directory: `org/newtinyradius`
4. Add the re-compiled classes (from step 1) to `org/tinyradius`
5. Repackage the classes into a jar file
6. Replace the original `PingIDRadiusPCV-<version>.jar` with the new jar file (from step 5)

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73.twilio-java

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74.Tyrus

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75.Whatwg-fetch

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