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Commit d20cdb8



dghgit committed on Jan 1

refactored out common code from LDAP classes

main · r1rv84

1 parent [e380617](#) commit d20cdb8

3 files changed +154 -158 lines changed

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prov/src/main/java/org/bouncycastle

jce/provider

X509LDAPCertStoreSpi.java

ldap

LDAPUtils.java

x509/util

LDAPStoreHelper.java

3 files changed +154 -158 lines changed



...stle/jce/provider/X509LDAPCertStoreSpi.java



@@ -34,6 +34,7 @@

```

34 34  import org.bouncycastle.asn1.ASN1InputStream;
35 35  import org.bouncycastle.asn1.x509.CertificatePair;
36 36  import org.bouncycastle.jce.X509LDAPCertStoreParameters;
37 + import org.bouncycastle.ldap.LDAPUtils;
37 38  import org.bouncycastle.util.Strings;

```

```

38 39
39 40 /**
↕
@@ -50,26 +51,6 @@
50 51 public class X509LDAPCertStoreSpi
51 52     extends CertStoreSpi
52 53 {
53 - private static String[] FILTER_ESCAPE_TABLE = new String['\\' + 1];
54 -
55 - static
56 - {
57 -     // Filter encoding table -----
58 -
59 -     // fill with char itself
60 -     for (char c = 0; c < FILTER_ESCAPE_TABLE.length; c++)
61 -     {
62 -         FILTER_ESCAPE_TABLE[c] = String.valueOf(c);
63 -     }
64 -
65 -     // escapes (RFC2254)
66 -     FILTER_ESCAPE_TABLE['*'] = "\\2a";
67 -     FILTER_ESCAPE_TABLE['('] = "\\28";
68 -     FILTER_ESCAPE_TABLE[')'] = "\\29";
69 -     FILTER_ESCAPE_TABLE['\\'] = "\\5c";
70 -     FILTER_ESCAPE_TABLE[0] = "\\00";
71 - }
72 -
73 54 /**
74 55     * Initial Context Factory.
75 56     */
↕
@@ -124,42 +105,6 @@ private DirContext connectLDAP()
↕
124 105     return ctx;
125 106 }
126 107
127 - private String parseDN(String subject, String subjectAttributeName)
128 - {
129 -     String temp = subject;
130 -     int begin =
131 -         Strings.toLowerCase(temp).indexOf(Strings.toLowerCase(subjectAttributeName));
131 -     temp = temp.substring(begin + subjectAttributeName.length());

```

```

132     -         int end = temp.indexOf(',');
133     -         if (end == -1)
134     -         {
135     -             end = temp.length();
136     -         }
137     -         while (temp.charAt(end - 1) == '\\')
138     -         {
139     -             end = temp.indexOf(',', end + 1);
140     -             if (end == -1)
141     -             {
142     -                 end = temp.length();
143     -             }
144     -         }
145     -         temp = temp.substring(0, end);
146     -         begin = temp.indexOf('=');
147     -         temp = temp.substring(begin + 1);
148     -         if (temp.charAt(0) == ' ')
149     -         {
150     -             temp = temp.substring(1);
151     -         }
152     -         if (temp.startsWith("\\"))
153     -         {
154     -             temp = temp.substring(1);
155     -         }
156     -         if (temp.endsWith("\\"))
157     -         {
158     -             temp = temp.substring(0, temp.length() - 1);
159     -         }
160     -         return filterEncode(temp);
161     -     }
162
163     108         public Collection engineGetCertificates(CertSelector selector)
164     109             throws CertStoreException
165     110         {
166     111             @@ -277,7 +222,7 @@ private Set certSubjectSerialSearch(X509CertSelector
167     112             xselector,
168     113             subject = xselector.getSubjectAsString();
169     114         }
170     115     }
171     116     String attrValue = parseDN(subject, subjectAttributeName);

```

225	+	String attrValue = LDAPUtils.parseDN(subject, subjectAttributeName);
281	226	set.addAll(search(attrName, "*" + attrValue + "*", attrs));
282	227	if (serial != null
283	228	&& params.getSearchForSerialNumberIn() != null)
⋮		@@ -374,13 +319,13 @@ public Collection engineGetCRLs(CRLSelector selector)
374	319	{
375	320	String issuerAttributeName = params
376	321	.getCertificateRevocationListIssuerAttributeName();
377	-	attrValue = parseDN((String)o, issuerAttributeName);
322	+	attrValue = LDAPUtils.parseDN((String)o, issuerAttributeName);
378	323	}
379	324	else
380	325	{
381	326	String issuerAttributeName = params
382	327	.getCertificateRevocationListIssuerAttributeName();
383	-	attrValue = parseDN(new X500Principal((byte[])o)
328	+	attrValue = LDAPUtils.parseDN(new X500Principal((byte[])o)
384	329	.getName("RFC1779"), issuerAttributeName);
385	330	}
386	331	set.addAll(search(attrName, "*" + attrValue + "*", attrs));
⋮		@@ -415,43 +360,7 @@ public Collection engineGetCRLs(CRLSelector selector)
415	360	
416	361	return crlSet;
417	362	}
418	-	
419	-	/**
420	-	* Escape a value for use in a filter.
421	-	*
422	-	* @param value the value to escape.
423	-	* @return a properly escaped representation of the supplied value.
424	-	*/
425	-	private String filterEncode(String value)
426	-	{
427	-	if (value == null)
428	-	{
429	-	return null;

```

430     -     }
431     -
432     -     // make buffer roomy
433     -     StringBuilder encodedValue = new StringBuilder(value.length() * 2);
434     -
435     -     int length = value.length();
436     -
437     -     for (int i = 0; i < length; i++)
438     -     {
439     -         char c = value.charAt(i);
440     -
441     -         if (c < FILTER_ESCAPE_TABLE.length)
442     -         {
443     -             encodedValue.append(FILTER_ESCAPE_TABLE[c]);
444     -         }
445     -         else
446     -         {
447     -             // default: add the char
448     -             encodedValue.append(c);
449     -         }
450     -     }
451     -
452     -     return encodedValue.toString();
453     - }
454     -

```

363

+

```

455 364     /**
456 365     * Returns a Set of byte arrays with the certificate or CRL encodings.
457 366     *

```



▼ ...n/java/org/bouncycastle/ldap/LDAPUtils.java

...

...

@@ -0,0 +1,112 @@

```

1 + package org.bouncycastle.ldap;
2 +
3 + import org.bouncycastle.util.Strings;
4 +
5 + /**
6 + * General utility methods for assisting with preparation of LDAP queries.
7 + */

```

```
8 + public class LDAPUtils
9 + {
10 +     private static String[] FILTER_ESCAPE_TABLE = new String['\\' + 1];
11 +
12 +     static
13 +     {
14 +         // Filter encoding table -----
15 +
16 +         // fill with char itself
17 +         for (char c = 0; c < FILTER_ESCAPE_TABLE.length; c++)
18 +         {
19 +             FILTER_ESCAPE_TABLE[c] = String.valueOf(c);
20 +         }
21 +
22 +         // escapes (RFC2254)
23 +         FILTER_ESCAPE_TABLE['*'] = "\\2a";
24 +         FILTER_ESCAPE_TABLE['('] = "\\28";
25 +         FILTER_ESCAPE_TABLE[')'] = "\\29";
26 +         FILTER_ESCAPE_TABLE['\\'] = "\\5c";
27 +         FILTER_ESCAPE_TABLE[0] = "\\00";
28 +     }
29 +
30 +     /**
31 +      * Parse out the contents of a particular subject attribute name from the
32 +      * string form of an X.500 DN.
33 +      *
34 +      * @param subject string form of an X.500 DN.
35 +      * @param subjectAttributeName the RDN attribute name of interest.
36 +      * @return an escaped string suitable for use in an LDAP query.
37 +      */
38 +     public static String parseDN(String subject, String subjectAttributeName)
39 +     {
40 +         String temp = subject;
41 +         int begin =
42 +             Strings.toLowerCase(temp).indexOf(Strings.toLowerCase(subjectAttributeName));
43 +         if (begin == -1)
44 +         {
45 +             return "";
46 +         }
47 +         temp = temp.substring(begin + subjectAttributeName.length());
```

```
46 +     int end = temp.indexOf(',');
47 +     if (end == -1)
48 +     {
49 +         end = temp.length();
50 +     }
51 +     while (temp.charAt(end - 1) == '\\')
52 +     {
53 +         end = temp.indexOf(',', end + 1);
54 +         if (end == -1)
55 +         {
56 +             end = temp.length();
57 +         }
58 +     }
59 +     temp = temp.substring(0, end);
60 +     begin = temp.indexOf('=');
61 +     temp = temp.substring(begin + 1);
62 +     if (temp.charAt(0) == ' ')
63 +     {
64 +         temp = temp.substring(1);
65 +     }
66 +     if (temp.startsWith("\\"))
67 +     {
68 +         temp = temp.substring(1);
69 +     }
70 +     if (temp.endsWith("\\"))
71 +     {
72 +         temp = temp.substring(0, temp.length() - 1);
73 +     }
74 +     return filterEncode(temp);
75 + }
76 +
77 + /**
78 +  * Escape a value for use in a filter.
79 +  *
80 +  * @param value the value to escape.
81 +  * @return a properly escaped representation of the supplied value.
82 +  */
83 + private static String filterEncode(String value)
84 + {
85 +     if (value == null)
```

```

86 +     {
87 +         return null;
88 +     }
89 +
90 +     // make buffer roomy
91 +     StringBuilder encodedValue = new StringBuilder(value.length() * 2);
92 +
93 +     int length = value.length();
94 +
95 +     for (int i = 0; i < length; i++)
96 +     {
97 +         char c = value.charAt(i);
98 +
99 +         if (c < FILTER_ESCAPE_TABLE.length)
100 +         {
101 +             encodedValue.append(FILTER_ESCAPE_TABLE[c]);
102 +         }
103 +         else
104 +         {
105 +             // default: add the char
106 +             encodedValue.append(c);
107 +         }
108 +     }
109 +
110 +     return encodedValue.toString();
111 + }
112 + }

```

▼ ...bouncycastle/x509/util/LDAPStoreHelper.java ...



@@ -35,6 +35,7 @@

```

35 35 import org.bouncycastle.jce.provider.X509CRLParser;
36 36 import org.bouncycastle.jce.provider.X509CertPairParser;
37 37 import org.bouncycastle.jce.provider.X509CertParser;
38 + import org.bouncycastle.ldap.LDAPUtils;
38 39 import org.bouncycastle.util.StoreException;
39 40 import org.bouncycastle.util.Strings;
40 41 import org.bouncycastle.x509.X509AttributeCertStoreSelector;

```



@@ -65,7 +66,6 @@



```

65 66 */

```

```

66     67     public class LDAPStoreHelper
67     68     {
68     -
69     69         // TODO: cache results
70     70
71     71         private X509LDAPCertStoreParameters params;
⇓
@@ -95,7 +95,8 @@ public LDAPStoreHelper(X509LDAPCertStoreParameters
⇑
params)
95     95         */
96     96         private static final String URL_CONTEXT_PREFIX = "com.sun.jndi.url";
97     97
98     - private DirContext connectLDAP() throws NamingException
98     + private DirContext connectLDAP()
99     +     throws NamingException
99     100     {
100    101         Properties props = new Properties();
101    102         props.setProperty(Context.INITIAL_CONTEXT_FACTORY, LDAP_PROVIDER);
⇕
@@ -111,47 +112,6 @@ private DirContext connectLDAP() throws
NamingException
111    112         return ctx;
112    113     }
113    114
114     - private String parseDN(String subject, String dnAttributeName)
115     -     {
116     -         String temp = subject;
117     -         int begin = Strings.toLowerCase(temp).indexOf(
118     -             Strings.toLowerCase(dnAttributeName) + "=");
119     -         if (begin == -1)
120     -         {
121     -             return "";
122     -         }
123     -         temp = temp.substring(begin + dnAttributeName.length());
124     -         int end = temp.indexOf(',');
125     -         if (end == -1)
126     -         {
127     -             end = temp.length();
128     -         }
129     -         while (temp.charAt(end - 1) == '\\')
130     -         {
131     -             end = temp.indexOf(',', end + 1);




```

```

132     -         if (end == -1)
133     -         {
134     -             end = temp.length();
135     -         }
136     -     }
137     -     temp = temp.substring(0, end);
138     -     begin = temp.indexOf('=');
139     -     temp = temp.substring(begin + 1);
140     -     if (temp.charAt(0) == ' ')
141     -     {
142     -         temp = temp.substring(1);
143     -     }
144     -     if (temp.startsWith("\\"))
145     -     {
146     -         temp = temp.substring(1);
147     -     }
148     -     if (temp.endsWith("\\"))
149     -     {
150     -         temp = temp.substring(0, temp.length() - 1);
151     -     }
152     -     return temp;
153     - }
154     -
155     115     private Set createCerts(List list, X509CertStoreSelector xselector)
156     116         throws StoreException
157     117     {
158     118         @@ -224,7 +184,7 @@ private List
159     119         certSubjectSerialSearch(X509CertStoreSelector xselector,
160     120
161     121         {
162     122             for (int i = 0; i < subjectAttributeNames.length; i++)
163     123             {
164     124                 attrValue = parseDN(subject, subjectAttributeNames[i]);
165     125                 attrValue = LDAPUtils.parseDN(subject,
166     126                 subjectAttributeNames[i]);
167     127                 list
168     128                 .addAll(search(attrNames, "\"" + attrValue + "\"",
169     129                 attrs));
170     130
171     131         @@ -235,7 +195,7 @@ private List
172     132         certSubjectSerialSearch(X509CertStoreSelector xselector,
173     133
174     134         attrValue = serial;

```

236	196	list.addAll(search(
237	197	splitString(params.getSearchForSerialNumberIn()),
238	-	attrValue, attrs));
198	+	attrValue, attrs));
239	199	}
240	200	if (serial == null && subject == null)
241	201	{
⇕		@@ -246,7 +206,6 @@ private List certSubjectSerialSearch(X509CertStoreSelector xselector,
246	206	}
247	207	
248	208	
249	-	
250	209	/**
251	210	* Can use the subject of the forward certificate of the set certificate
252	211	* pair or the subject of the forward
⇓ ⇑		@@ -290,7 +249,7 @@ private List crossCertificatePairSubjectSearch(
290	249	{
291	250	for (int i = 0; i < subjectAttributeNames.length; i++)
292	251	{
293	-	attrValue = parseDN(subject, subjectAttributeNames[i]);
252	+	attrValue = LDAPUtils.parseDN(subject, subjectAttributeNames[i]);
294	253	list
295	254	.addAll(search(attrNames, "\"" + attrValue + "\",
296	255	attrs));
⇓ ⇑		@@ -385,7 +344,7 @@ private List attrCertSubjectSerialSearch(
385	344	{
386	345	for (int i = 0; i < subjectAttributeNames.length; i++)
387	346	{
388	-	attrValue = parseDN(subject, subjectAttributeNames[i]);
347	+	attrValue = LDAPUtils.parseDN(subject, subjectAttributeNames[i]);
389	348	list
390	349	.addAll(search(attrNames, "\"" + attrValue + "\",
391	350	attrs));
⇓ ⇑		@@ -441,11 +400,11 @@ private List cRLIssuerSearch(X509CRLStoreSelector xselector,

441	400	<code>if (xselector.getAttrCertificateChecking() != null)</code>
442	401	<code>{</code>
443	402	<code>Principal principals[] =</code>
		<code>xselector.getAttrCertificateChecking().getIssuer().getPrincipals();</code>
444	-	<code>for (int i=0; i<principals.length; i++)</code>
403	+	<code>for (int i = 0; i < principals.length; i++)</code>
445	404	<code>{</code>
446	405	<code>if (principals[i] instanceof X500Principal)</code>
447	406	<code>{</code>
448	-	<code>issuers.add(principals[i]);</code>
407	+	<code>issuers.add(principals[i]);</code>
449	408	<code>}</code>
450	409	<code>}</code>
451	410	<code>}</code>
		<code>@@ -457,7 +416,7 @@ private List cRLIssuerSearch(X509CRLStoreSelector</code>
		<code>xselector,</code>
457	416	
458	417	<code>for (int i = 0; i < issuerAttributeNames.length; i++)</code>
459	418	<code>{</code>
460	-	<code>attrValue = parseDN(issuer, issuerAttributeNames[i]);</code>
419	+	<code>attrValue = LDAPUtils.parseDN(issuer,</code>
		<code>issuerAttributeNames[i]);</code>
461	420	<code>list</code>
462	421	<code>.addAll(search(attrNames, "*" + attrValue + "*",</code>
463	422	<code>attrs));</code>
		<code>@@ -485,7 +444,8 @@ private List cRLIssuerSearch(X509CRLStoreSelector</code>
		<code>xselector,</code>
485	444	<code>* directory.</code>
486	445	<code>*/</code>
487	446	<code>private List search(String attributeNames[], String attributeValue,</code>
488	-	<code>String[] attrs) throws StoreException</code>
447	+	<code>String[] attrs)</code>
448	+	<code>throws StoreException</code>
489	449	<code>{</code>
490	450	<code>String filter = null;</code>
491	451	<code>if (attributeNames == null)</code>
		<code>@@ -599,7 +559,8 @@ private Set createCRLs(List list,</code>
		<code>X509CRLStoreSelector xselector)</code>
599	559	<code>}</code>
600	560	

601	561	<code>private Set createCrossCertificatePairs(List list,</code>
602	-	<code>X509CertPairStoreSelector</code>
		<code>xselector) throws StoreException</code>
	562	<code>+ X509CertPairStoreSelector</code>
		<code>xselector)</code>
	563	<code>+ throws StoreException</code>
603	564	<code>{</code>
604	565	<code>Set certPairSet = new HashSet();</code>
605	566	
		<code>@@ -626,7 +587,7 @@ private Set createCrossCertificatePairs(List list,</code>
626	587	<code>pair = new X509CertificatePair(new CertificatePair(</code>
627	588	<code>Certificate</code>
628	589	<code>.getInstance(new ASN1InputStream(</code>
629	-	<code>forward).readObject()),</code>
	590	<code>+ forward).readObject()),</code>
630	591	<code>Certificate</code>
631	592	<code>.getInstance(new ASN1InputStream(</code>
632	593	<code>reverse).readObject())));</code>
		<code>@@ -652,7 +613,8 @@ private Set createCrossCertificatePairs(List list,</code>
652	613	<code>}</code>
653	614	
654	615	<code>private Set createAttributeCertificates(List list,</code>
655	-	<code>X509AttributeCertStoreSelector</code>
		<code>xselector) throws StoreException</code>
	616	<code>+ X509AttributeCertStoreSelector</code>
		<code>xselector)</code>
	617	<code>+ throws StoreException</code>
656	618	<code>{</code>
657	619	<code>Set certSet = new HashSet();</code>
658	620	
		<code>@@ -719,12 +681,14 @@ public Collection</code>
		<code>getAuthorityRevocationLists(X509CRLStoreSelector selector)</code>
719	681	<code>* The attributeCertificateRevocationList holds a list of attribute</code>
720	682	<code>* certificates that have been revoked.</code>
721	683	<code>* </p></code>
	684	<code>+ *</code>
722	685	<code>* @param selector The CRL selector to use to find the CRLs.</code>
723	686	<code>* @return A possible empty collection with CRLs.</code>
724	687	<code>* @throws StoreException</code>
725	688	<code>*/</code>

726	689		<code>public Collection</code>	<code>getAttributeCertificateRevocationLists(</code>
727	-		<code>X509CRLStoreSelector selector)</code>	<code>throws StoreException</code>
690	+		<code>X509CRLStoreSelector selector)</code>	
691	+		<code>throws StoreException</code>	
728	692		<code>{</code>	
729	693		<code>String[] attrs =</code>	<code>splitString(params</code>
730	694		<code>.getAttributeCertificateRevocationListAttribute());</code>	
↕			<code>@@ -754,12 +718,14 @@</code>	<code>public Collection</code>
↕			<code>getAttributeCertificateRevocationLists(</code>	
754	718		<code>* The attributeAuthorityList holds a list of AA certificates that have</code>	<code>been</code>
755	719		<code>* revoked.</code>	
756	720		<code>* </p></code>	
721	+		<code>*</code>	
757	722		<code>* @param selector</code>	<code>The CRL selector to use to find the CRLs.</code>
758	723		<code>* @return</code>	<code>A possible empty collection with CRLs</code>
759	724		<code>* @throws</code>	<code>StoreException</code>
760	725		<code>*/</code>	
761	726		<code>public Collection</code>	<code>getAttributeAuthorityRevocationLists(</code>
762	-		<code>X509CRLStoreSelector selector)</code>	<code>throws StoreException</code>
727	+		<code>X509CRLStoreSelector selector)</code>	
728	+		<code>throws StoreException</code>	
763	729		<code>{</code>	
764	730		<code>String[] attrs =</code>	<code>splitString(params.getAttributeAuthorityRevocationListAttribute());</code>
765	731		<code>String attrNames[] =</code>	<code>splitString(params</code>
↕			<code>@@ -789,7 +755,8 @@</code>	<code>public Collection</code>
↕			<code>getAttributeAuthorityRevocationLists(</code>	
789	755		<code>* @throws</code>	<code>StoreException</code>
790	756		<code>*/</code>	
791	757		<code>public Collection</code>	<code>getCrossCertificatePairs(</code>
792	-		<code>X509CertPairStoreSelector selector)</code>	<code>throws StoreException</code>
758	+		<code>X509CertPairStoreSelector selector)</code>	
759	+		<code>throws StoreException</code>	
793	760		<code>{</code>	
794	761		<code>String[] attrs =</code>	<code>splitString(params.getCrossCertificateAttribute());</code>
795	762		<code>String attrNames[] =</code>	<code>splitString(params.getLdapCrossCertificateAttributeName());</code>
↕			<code>@@ -850,6 +817,7 @@</code>	<code>public Collection</code>
↕			<code>getUserCertificates(X509CertStoreSelector selector)</code>	

850	817	* <p>
851	818	* The aCertificate holds the privileges of an attribute authority.
852	819	* </p>
820	+	*
853	821	* @param selector The selector to find the attribute certificates.
854	822	* @return A possible empty collection with attribute certificates.
855	823	* @throws StoreException
⌵		@@ -82,12 +850,14 @@ public Collection getAACertificates(X509AttributeCertStoreSelector selector)
882	850	* authority and holds a description of the privilege and its delegation
883	851	* rules.
884	852	* </p>
853	+	*
885	854	* @param selector The selector to find the attribute certificates.
886	855	* @return A possible empty collection with attribute certificates.
887	856	* @throws StoreException
888	857	*/
889	858	public Collection getAttributeDescriptorCertificates(890 - X509AttributeCertStoreSelector selector) throws StoreException
859	+	X509AttributeCertStoreSelector selector)
860	+	throws StoreException
891	861	{
892	862	String[] attrs = splitString(params.getAttributeDescriptorCertificateAttribute());
893	863	String attrNames[] = splitString(params
⌵		@@ -916,6 +886,7 @@ public Collection getAttributeDescriptorCertificates(⌶
916	886	* store self-issued certificates (if any) and certificates issued to this
917	887	* CA by CAs in the same realm as this CA.
918	888	* </p>
889	+	*
919	890	* @param selector The selector to find the certificates.
920	891	* @return A possible empty collection with certificates.
921	892	* @throws StoreException
⌵		@@ -948,7 +919,8 @@ public Collection ⌶ getCACertificates(X509CertStoreSelector selector)
948	919	* @throws StoreException
949	920	*/
950	921	public Collection getDeltaCertificateRevocationLists(⌶

951	-	X509CRLStoreSelector selector) throws StoreException
922	+	X509CRLStoreSelector selector)
923	+	throws StoreException
952	924	{
953	925	String[] attrs = splitString(params.getDeltaRevocationListAttribute());
954	926	String attrNames[] = splitString(params.getLdapDeltaRevocationListAttributeName());
		@@ -973,12 +945,14 @@ public Collection getDeltaCertificateRevocationLists(
973	945	* <p>
974	946	* The attributeCertificateAttribute holds the privileges of a user
975	947	* </p>
948	+	*
976	949	* @param selector The selector to find the attribute certificates.
977	950	* @return A possible empty collection with attribute certificates.
978	951	* @throws StoreException
979	952	*/
980	953	public Collection getAttributeCertificateAttributes(
981	-	X509AttributeCertStoreSelector selector) throws StoreException
954	+	X509AttributeCertStoreSelector selector)
955	+	throws StoreException
982	956	{
983	957	String[] attrs = splitString(params.getAttributeCertificateAttributeAttribute());
984	958	String attrNames[] = splitString(params
		@@ -1007,7 +981,8 @@ public Collection getAttributeCertificateAttributes(
1007	981	* @throws StoreException
1008	982	*/
1009	983	public Collection getCertificateRevocationLists(
1010	-	X509CRLStoreSelector selector) throws StoreException
984	+	X509CRLStoreSelector selector)
985	+	throws StoreException
1011	986	{
1012	987	String[] attrs = splitString(params.getCertificateRevocationListAttribute());
1013	988	String attrNames[] = splitString(params

Comments 0



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