

**Reference – Class Mapping  
and Compile Fixes for  
Upgrading Pentaho**

# HITACHI

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# Contents

- Overview..... 1
- Class Mappings Reference Table ..... 2
- Compile Error Fixes References ..... 8
  - Repository – Compile Error Fixes ..... 8
  - Extensions – Compile Error Fixes ..... 9
  - Extensions – Test Compile Error Fixes ..... 11
  - Core – Compile Error Fixes ..... 12
  - Core – Test Compile Error Fixes ..... 13

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## Overview

This document is intended as a supplemental reference to assist in upgrading to Pentaho 7.0.

Some of the things contained here include a class mappings reference table for Spring Security upgrades and compile error fixes reference tables for repository, extensions, and core compile errors.

The intention of this document is to speak about topics generally; however, these are the specific versions covered here:

Software	Version(s)
Pentaho	upgrading from 6.x to 7.x, then on to 8.0

The [Components Reference](#) in Pentaho Documentation has a complete list of supported software and hardware.

## Class Mappings Reference Table

The information in this reference table covers class mappings from Spring Security 2.0.x Classes to Spring Security 4.1.x Classes to help you through a Spring upgrade, if needed.

Spring Security 2.0.x Class	Spring Security 4.1.x Class
org.springframework.security.context. SecurityContextHolder	org.springframework.security.core.context. SecurityContextHolder
org.springframework.security.Authentication	org.springframework.security.core.Authentication
org.springframework.security.util.FilterChainProxy	org.springframework.security.web.FilterChainProxy
org.springframework.security.providers.anonymous. AnonymousProcessingFilter	org.springframework.security.web.authentication. AnonymousAuthenticationFilter
org.springframework.security.ui.basicauth. BasicProcessingFilter	org.springframework.security.web.authentication.www. BasicAuthenticationFilter
org.springframework.security.ui.basicauth. BasicProcessingFilterEntryPoint	org.springframework.security.web.authentication.www. BasicAuthenticationEntryPoint
org.springframework.security.ui. ExceptionTranslationFilter	org.springframework.security.web.access. ExceptionTranslationFilter
org.springframework.security.ui.webapp. AuthenticationProcessingFilterEntryPoint	org.springframework.security.web.authentication. LoginUrlAuthenticationEntryPoint
org.springframework.security.ui.webapp. AuthenticationProcessingFilter	org.springframework.security.web.authentication. UsernamePasswordAuthenticationFilter
org.springframework.security.context. HttpSessionContextIntegrationFilter	org.springframework.security.web.context. HttpSessionSecurityContextRepository
org.springframework.security.vote.AffirmativeBased	org.springframework.security.access.vote.AffirmativeBased
org.springframework.security.vote.AuthenticatedVoter	org.springframework.security.access.vote.AuthenticatedVoter
org.springframework.security.intercept.web. FilterSecurityInterceptor	org.springframework.security.web.access.intercept. FilterSecurityInterceptor
org.springframework.security.acl.basic.AclObjectIdentity	org.springframework.security.acls.model.ObjectIdentity
org.springframework.security.GrantedAuthority	org.springframework.security.core.GrantedAuthority
org.springframework.security.userdetails.User	org.springframework.security.core.userdetails.User

Reference – Class Mapping and Compile Fixes for Upgrading Pentaho

Spring Security 2.0.x Class	Spring Security 4.1.x Class
org.springframework.security.core.AuthenticationServiceException	org.springframework.security.authentication.AuthenticationServiceException
org.springframework.security.AuthenticationServiceException	org.springframework.security.authentication.AuthenticationServiceException
org.springframework.security.AuthorizationServiceException	org.springframework.security.access.AuthorizationServiceException
org.springframework.security.providers.UsernamePasswordAuthenticationToken	org.springframework.security.authentication.UsernamePasswordAuthenticationToken
org.springframework.security.adaptersada.PrincipalSpringSecurityUserToken	org.springframework.security.authentication.UsernamePasswordAuthenticationToken
org.springframework.security.core.GrantedAuthorityImpl	org.springframework.security.core.authority.SimpleGrantedAuthority
org.springframework.security.vote.BasicAclEntryVoter	org.springframework.security.acls.AclEntryVoter
org.springframework.security.vote.AccessDecisionVoter	org.springframework.security.access.AccessDecisionVoter
org.springframework.security.acl.AclEntry	org.springframework.security.acls.model.Acl
org.springframework.security.ConfigAttributeDefinition	Collection<org.springframework.security.access.ConfigAttribute>
org.springframework.security.ConfigAttribute	org.springframework.security.access.ConfigAttribute
org.springframework.security.AuthorizationServiceException	org.springframework.security.access.AuthorizationServiceException
org.springframework.security.afterinvocation.AfterInvocationProvider	org.springframework.security.access.AfterInvocationProvider
org.springframework.security.AccessDeniedException	org.springframework.security.access.AccessDeniedException
org.springframework.security.acl.AclManager	org.springframework.security.acls.model.AclService
org.springframework.security.concurrent.SessionRegistry	org.springframework.security.core.session.SessionRegistry
org.springframework.security.concurrent.SessionInformation	org.springframework.security.core.session.SessionInformation
org.springframework.security.SecurityConfig	org.springframework.security.access.SecurityConfig
org.springframework.security.AuthorizationServiceException	org.springframework.security.access.AuthorizationServiceException
org.springframework.security.providers.encoding.PasswordEncoder	org.springframework.security.authentication.encoding.PasswordEncoder

Spring Security 2.0.x Class	Spring Security 4.1.x Class
org.springframework.security.ui.WebAuthenticationDetails	org.springframework.security.web.authentication.WebAuthenticationDetails
org.springframework.security.providers.dao.DaoAuthenticationProvider	org.springframework.security.authentication.dao.DaoAuthenticationProvider
org.springframework.security.ui.switchuser.SwitchUserGrantedAuthority	org.springframework.security.web.authentication.switchuser.SwitchUserGrantedAuthority
org.springframework.security.vote.AbstractAclVoter	org.springframework.security.access.vote.AbstractAclVoter
org.springframework.security.providers.anonymous.AnonymousAuthenticationToken	org.springframework.security.authentication.AnonymousAuthenticationToken
org.springframework.security.afterinvocation.AfterInvocationProvider	org.springframework.security.access.AfterInvocationProvider
org.springframework.security.AuthenticationManager	org.springframework.security.authentication.AuthenticationManager
org.springframework.security.ui.cas.CasProcessingFilter	org.springframework.security.cas.web.CasAuthenticationFilter
org.springframework.security.ui.rememberme.NullRememberMeServices	org.springframework.security.web.authentication.NullRememberMeServices
org.springframework.security.util.UrlUtils	org.springframework.security.web.util.UrlUtils
org.springframework.security.providers.AuthenticationProvider	org.springframework.security.authentication.AuthenticationProvider
org.springframework.security.userdetails.jdbc.JdbcDaoImpl	org.springframework.security.core.userdetails.jdbc.JdbcDaoImpl
org.springframework.security.BadCredentialsException	org.springframework.security.authentication.BadCredentialsException
org.springframework.security.userdetails.memory.UserAttribute	org.springframework.security.core.userdetails.memory.UserAttribute
org.springframework.security.context.SecurityContext	org.springframework.security.core.context.SecurityContext
org.springframework.security.providers.TestingAuthenticationToken	org.springframework.security.authentication.TestingAuthenticationToken
org.springframework.security.userdetails.ldap.LdapUserDetails	org.springframework.security.ldap.userdetails.LdapUserDetails
org.springframework.security.vote.RoleVoter	org.springframework.security.access.vote.RoleVoter



Spring Security 2.0.x Class	Spring Security 4.1.x Class
org.springframework.security.intercept.method.aopalliance. MethodSecurityInterceptor	org.springframework.security.access.intercept.aopalliance. MethodSecurityInterceptor
org.springframework.security.vote.UnanimousBased	org.springframework.security.access.vote.UnanimousBased
org.springframework.security.afterinvocation. AfterInvocationProviderManager	org.springframework.security.access.intercept. AfterInvocationProviderManager
org.springframework.security.providers.ProviderManager	org.springframework.security.authentication.ProviderManager
org.springframework.security.ui. AuthenticationDetailsSourceImpl	org.springframework.security.authentication. AuthenticationDetailsSourceImpl
org.springframework.security.afterinvocation. BasicAclEntryAfterInvocationCollectionFilter	org.springframework.security.acls.afterinvocation. AclEntryAfterInvocationCollectionFiltering
org.springframework.security.userdetails.memory. InMemoryDaoImpl	org.springframework.security.provisioning. InMemoryUserDetailsManager
org.springframework.security.event.authentication. LoggerListener	org.springframework.security.authentication.event. LoggerListener
org.springframework.security.wrapper. SecurityContextHolderAwareRequestFilter	org.springframework.security.web.servletapi. SecurityContextHolderAwareRequestFilter
org.springframework.security.afterinvocation. BasicAclEntryAfterInvocationProvider	org.springframework.security.acls.afterinvocation. AclEntryAfterInvocationProvider
org.springframework.security.concurrent. SessionRegistryImpl	org.springframework.security.core.session. SessionRegistryImpl
org.springframework.security.userdetails. UserDetailsService	org.springframework.security.core.userdetails. UserDetailsService
org.springframework.security.userdetails. UsernameNotFoundException	org.springframework.security.core.userdetails. UsernameNotFoundException
org.springframework.security.userdetails.UserDetails	org.springframework.security.core.userdetails.UserDetails
org.springframework.security.context. SecurityContextHolderStrategy	org.springframework.security.core.context. SecurityContextHolderStrategy
org.springframework.security.context.SecurityContextImpl	org.springframework.security.core.context. SecurityContextImpl
org.springframework.security.event.authentication. AuthenticationSuccessEvent	org.springframework.security.authentication.event. AuthenticationSuccessEvent
org.springframework.security.ldap.LdapAuthoritiesPopulator	org.springframework.security.ldap.userdetails. LdapAuthoritiesPopulator

Reference – Class Mapping and Compile Fixes for Upgrading Pentaho

Spring Security 2.0.x Class	Spring Security 4.1.x Class
org.springframework.security.userdetails.ldap.LdapUserDetailsMapper	org.springframework.security.ldap.userdetails.LdapUserDetailsMapper
org.springframework.security.userdetails.memory.UserMap	org.springframework.security.core.userdetails.memory.UserMap
org.springframework.security.ldap.populator.DefaultLdapAuthoritiesPopulator	org.springframework.security.ldap.userdetails.DefaultLdapAuthoritiesPopulator
org.springframework.security.userdetails.ldap.LdapUserDetailsService	org.springframework.security.ldap.userdetails.LdapUserDetailsService
org.springframework.security.ldap.LdapUserSearch	org.springframework.security.ldap.search.LdapUserSearch
org.springframework.security.AuthenticationException	org.springframework.security.core.AuthenticationException
org.springframework.security.providers.ldap.LdapAuthenticationProvider	org.springframework.security.ldap.authentication.LdapAuthenticationProvider
org.springframework.security.providers.ldap.LdapAuthenticator	org.springframework.security.ldap.authentication.LdapAuthenticator
org.springframework.security.userdetails.memory.UserMapEditor	org.springframework.security.core.userdetails.memory.UserMapEditor
org.springframework.security.providers.dao.UserCache	org.springframework.security.core.userdetails.UserCache
org.springframework.security.providers.dao.NullUserCache	org.springframework.security.core.userdetails.cache.NullUserCache
org.springframework.security.providers.dao.cache.NullUserCache	org.springframework.security.core.userdetails.cache.NullUserCache
org.springframework.security.userdetails.memory.UserAttributeEditor	org.springframework.security.core.userdetails.memory.UserAttributeEditor
org.springframework.security.ui.logout.LogoutHandler	org.springframework.security.web.authentication.logout.LogoutHandler
org.springframework.security.ui.AuthenticationEntryPoint	org.springframework.security.web.AuthenticationEntryPoint
org.springframework.security.ui.preauth.j2ee.J2eePreAuthenticatedProcessingFilter	org.springframework.security.web.authentication.preauth.j2ee.J2eePreAuthenticatedProcessingFilter
org.springframework.security.ui.preauth.PreAuthenticatedProcessingFilterEntryPoint	org.springframework.security.web.authentication.Http403ForbiddenEntryPoint
org.springframework.security.vote.UnanimousBased	org.springframework.security.access.vote.UnanimousBased
org.springframework.security.providers.encoding.PlaintextPasswordEncoder	org.springframework.security.authentication.encoding.PlaintextPasswordEncoder

Reference – Class Mapping and Compile Fixes for Upgrading Pentaho

Spring Security 2.0.x Class	Spring Security 4.1.x Class
org.springframework.security.providers.anonymous. AnonymousAuthenticationProvider	org.springframework.security.authentication. AnonymousAuthenticationProvider
org.springframework.security.ui.logout.LogoutFilter	org.springframework.security.web.authentication.logout. LogoutFilter
org.springframework.security.ui.logout. SecurityContextLogoutHandler	org.springframework.security.web.authentication.logout. SecurityContextLogoutHandler
org.springframework.security.wrapper. SecurityContextHolderAwareRequestWrapper	org.springframework.security.web.servletapi. SecurityContextHolderAwareRequestWrapper
org.springframework.security.ui.AccessDeniedHandlerImpl	org.springframework.security.web.access. AccessDeniedHandlerImpl
org.springframework.security.providers.ldap. authenticator.BindAuthenticator	org.springframework.security.ldap.authentication. BindAuthenticator
org.springframework.security.util.FilterToBeanProxy	org.springframework.web.filter.DelegatingFilterProxy
org.springframework.security.ui.savedrequest.SavedRequest	org.springframework.security.web.savedrequest.SavedRequest
org.springframework.security.providers.encoding. Md5PasswordEncoder	org.springframework.security.authentication.encoding. Md5PasswordEncoder
org.springframework.security.ui.cas. CasProcessingFilterEntryPoint	org.springframework.security.cas.web. CasAuthenticationEntryPoint
org.springframework.security.userdetails.ldap. UserDetailsContextMapper	org.springframework.security.ldap.userdetails. UserDetailsContextMapper
org.springframework.security.providers.dao.cache. EhCacheBasedUserCache	org.springframework.security.core.userdetails.cache. EhCacheBasedUserCache
org.springframework.extensions.jcr.support. ListSessionHolderProviderManager	org.pentaho.platform.repository2.unified.jcr.sejcr. JackrabbitListSessionHolderProviderManager
org.springframework.security.acl.AclEntry	org.pentaho.platform.api.engine.IAclEntry
org.springframework.security.acl.basic.BasicAclEntry	org.pentaho.platform.api.engine.IPentahoBasicAclEntry
org.springframework.security.acl.basic. AbstractBasicAclEntry	org.pentaho.platform.engine.security.acls. PentahoAbstractBasicAclEntry
org.springframework.security.acl.basic. GrantedAuthorityEffectiveAclsResolver	org.pentaho.platform.engine.security.acls. PentahoGrantedAuthorityEffectiveAclsResolver

## Compile Error Fixes References

Here is a list of common compilation error messages that you may receive, as well as where to find them and changes needed to fix them.

- [Repository – Compile Error Fixes](#)
- [Extensions – Compile Error Fixes](#)
- [Extensions – Test Compile Error Fixes](#)
- [Core – Compile Error Fixes](#)
- [Core – Test Compile Error Fixes](#)

### Repository – Compile Error Fixes

Class	Code lines	Change from	Change to
DefaultUnifiedRepositoryBase	307, 308	authorities	Arrays.asList( authorities )
DefaultUnifiedRepositoryBase	324, 326	repositoryAdminAuthorities	Arrays.asList( repositoryAdminAuthorities )
MockUnifiedRepository	1315	GrantedAuthority[ ]	Collection<? extends GrantedAuthority>
BackingRepositoryLifecycleManager AuthenticationSuccessListenerTest	191	GrantedAuthority[ ]	Collection<? extends GrantedAuthority>
UserRoleDaoUserDetailsServiceTest	91 to 108	userFromService.getAuthorities ( ) [X].getAuthority( )	userFromService.getAuthorities( ).toArray( ) [X]

## Extensions – Compile Error Fixes

Class	Code lines	Change from	Change to
NoOpLdapAuthoritiesPopulator	41	GrantedAuthority[]	Collection<? extends GrantedAuthority>
PentahoBasicProcessingFilter	60	<pre>public void doFilterHttp( HttpServletRequest request, HttpServletResponse response, FilterChain chain ) throws IOException, ServletException {</pre>	<pre>public void doFilter( ServletRequest servletRequest, ServletResponse servletResponse, FilterChain chain ) throws IOException, ServletException { HttpServletRequest request = ( HttpServletRequest ) servletRequest; HttpServletResponse response = ( HttpServletResponse ) servletResponse;</pre>
PentahoBasicProcessingFilter	121	super.doFilterHttp	super.doFilter
RequestParamerAuthenticationFilter	158	response	(HttpServletResponse) response
RequestParamerFilterEntryPoint	50	commence( final ServletRequest request, final ServletResponse response	commence( final HttpServletRequest request, final HttpServletResponse response
MondrianAbstractPlatformUserRoleMapper	156	authentication. getAuthorities()	authentication.getAuthorities().toArray( new GrantedAuthority[]{} )
NotFoundUserDetails	39	GrantedAuthority[]	Collection<? extends GrantedAuthority>
JdbcUserRoleListService	235	user.getAuthorities(). length	user.getAuthorities().toArray().length
DefaultLdapAuthenticationProvider	61	protected GrantedAuthority[] loadUserAuthorities	protected Collection<? extends GrantedAuthority> loadUserAuthorities
DefaultLdapAuthenticationProvider	62	super.loadUserAuthorities( userData, username, password )	super.loadUserAuthorities( userData, username, password ).toArray( new GrantedAuthority[]{} )
DefaultLdapAuthenticationProvider	71	return authorities	return Arrays.asList( authorities )

Class	Code lines	Change from	Change to
UnionizingLdapAuthoritiesPopulator	52	<pre>public GrantedAuthority[] getGrantedAuthorities( final DirContextOperations userData, final String username ) { Set&lt;GrantedAuthority&gt; allAuthorities = new HashSet&lt;GrantedAuthority&gt;(); for ( LdapAuthoritiesPopulator populator : populators ) { GrantedAuthority[] auths = populator.getGrantedAuthorities( userData, username ); if ( ( null != auths ) &amp;&amp; ( auths.length &gt; 0 ) ) { allAuthorities.addAll( Arrays.asList( auths ) ); } } return allAuthorities.toArray( new GrantedAuthority[0] ); }</pre>	<pre>public Collection&lt;? extends GrantedAuthority&gt; getGrantedAuthorities( final DirContextOperations userData, final String username ) { Set&lt;GrantedAuthority&gt; allAuthorities = new HashSet&lt;GrantedAuthority&gt;(); for ( LdapAuthoritiesPopulator populator : populators ) { Collection&lt;? extends GrantedAuthority&gt; auths = populator.getGrantedAuthorities( userData, username ); if ( ( null != auths ) &amp;&amp; ( auths.size() &gt; 0 ) ) { allAuthorities.addAll( auths ); } } return Arrays.asList( allAuthorities.toArray( new GrantedAuthority[]{} ) ); }</pre>
InMemoryUserRoleListService	105	Arrays.asList( user.getAuthorities() )	Arrays.asList( user.getAuthorities().toArray( new GrantedAuthority[]{} ) );
DefaultLdapUserRoleListService	153	Arrays.asList( user.getAuthorities() )	Arrays.asList( user.getAuthorities().toArray( new GrantedAuthority[]{} ) );
UserRoleListEnhancedUserMap	66	user.getAuthorities()	user.getAuthorities().toArray( new GrantedAuthority[]{} );
SpringSecurityLoginModule	166	authentication.getAuthorities()	authentication.getAuthorities().toArray( new GrantedAuthority[]{} )
ProxyTrustingFilter	225	HttpSessionContextIntegrationFilter. SPRING_SECURITY_CONTEXT_KEY	HttpSessionSecurityContextRepository.S SPRING_SECURITY_CONTEXT_KEY
SystemRefreshResource	(multiple)	SecurityHelper.getInstance(). isPentahoAdministrator( pentahoSession )	canAdminister()
WebTemplateHelper	99	SecurityHelper.getInstance(). isPentahoAdministrator( pentahoSession )	canAdminister()
UserConsoleService	23	SecurityHelper.getInstance(). isPentahoAdministrator( pentahoSession )	SystemUtils.canAdminister()
SchedulerService	294	SecurityHelper.getInstance(). isPentahoAdministrator( pentahoSession )	canAdminister( getSession() )

## Extensions – Test Compile Error Fixes

Class	Code lines	Change from	Change to
AbstractSpringSecurityAuth	165,227	providerManager.doAuthentication( auth )	providerManager.authenticate( auth )
AbstractSpringSecurityAuth	288	GrantedAuthority[]	Collection<? extends GrantedAuthority>
AbstractSpringSecurityAuth	288	authorities	Arrays.asList( authorities )
FileResourceTest	741, 743, 778, 804	new User( repositoryAdminUsername, password, true, true, true, true, repositoryAdminAuthorities )	new User( repositoryAdminUsername, password, true, true, true, true, Arrays.asList( repositoryAdminAuthorities))
FileResourceTest	760,786	new UsernamePasswordAuthenticationToken ( userDetails, password, authorities )	new UsernamePasswordAuthenticationToken( userDetails, password, Arrays.asList ( authorities ) )
MetadataRepositoryLifecycleManagerTest	337,375,401	new User( repositoryAdminUsername, password, true, true, true, true, repositoryAdminAuthorities )	new User( repositoryAdminUsername, password, true, true, true, true, Arrays.asList( repositoryAdminAuthorities))
UserRoleDaoTest	341,367	new User( repositoryAdminUsername, password, true, true, true, true, repositoryAdminAuthorities )	new User( repositoryAdminUsername, password, true, true, true, true, Arrays.asList( repositoryAdminAuthorities ) )
UserRoleDaoTest	343,369	new UsernamePasswordAuthenticationToken ( userDetails, password, authorities )	new UsernamePasswordAuthenticationToken( userDetails, password, Arrays.asList ( authorities ) )
UserRoleDaoEncodeTest	341,369	new User( repositoryAdminUsername, password, true, true, true, true, repositoryAdminAuthorities )	new User( repositoryAdminUsername, password, true, true, true, true, Arrays.asList( repositoryAdminAuthorities ) )
JdbcUserRoleListServiceTests	241	new User( repositoryAdminUsername, password, true, true, true, true, repositoryAdminAuthorities )	new User( repositoryAdminUsername, password, true, true, true, true, Arrays.asList( repositoryAdminAuthorities ) )
JdbcUserRoleListServiceTests	243	new UsernamePasswordAuthenticationToken ( userDetails, password, authorities )	new UsernamePasswordAuthenticationToken( userDetails, password, Arrays.asList ( authorities ) )

Class	Code lines	Change from	Change to
UserRoleMapperTest	136	auth.getAuthorities()	auth.getAuthorities().toArray( new GrantedAuthority[]{} )

## Core – Compile Error Fixes

Class	Code lines	Change from	Change to
StandaloneSpringPentaho ObjectFactory	77	( there was no code lines , it will	appCtx.refresh();
PentahoSystem	86	private static final String securityContextHolderStrategy = "org.pentaho.platform.engine.security .PentahoSecurityContextHolderStrat egy";	private static final String securityContextHolderStrategy = SecurityContextHolder.MODE_INHERITABLE THREADLOCAL;
PentahoAuthentication SuccessListener	69	if ( event instanceof AuthenticationSuccessEvent ) {	if ( event instanceof AuthenticationSuccessEvent    event instanceof InteractiveAuthenticationSuccessEvent ) {



## Core – Test Compile Error Fixes

Class	Code lines	Change from	Change to
PentahoSubstringRoleVoter	110	<pre>public boolean voteGenericTest( GrantedAuthority[] authorities, String[] strConfArr, int expectedResult ) { Authentication authentication = new PrincipalSpringSecurityUserToken( StringUtils.EMPTY, StringUtils.EMPTY, StringUtils.EMPTY, authorities, null ); ConfigAttributeDefinition config = new ConfigAttributeDefinition( strConfArr ); return expectedResult == pentahoSubstringRoleVoter.vote( authentication, new Object(), config ); }</pre>	<pre>public boolean voteGenericTest( GrantedAuthority[] authorities, String[] strConfArr, int expectedResult ) { Authentication authentication = new UsernamePasswordAuthenticationToken( StringUtils.EMPTY, StringUtils.EMPTY, Arrays.asList( authorities ) ); Collection&lt;ConfigAttribute&gt; configAttributes = new ArrayList&lt;ConfigAttribute&gt;(); for( final String strConf : strConfArr ){ configAttributes.add( new ConfigAttribute() { @Override public String getAttribute() { return strConf; } } ); } return expectedResult == pentahoSubstringRoleVoter.vote( authentication, new Object(), configAttributes ); }</pre>
SecurityHelperTest	91	GrantedAuthority[]	Collection<? extends GrantedAuthority>
StandaloneSpringPentahoObjectFactoryTest	234	(there were no code lines; it will be an addition)	appCtx.refresh();