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```

```
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```

```
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com.fasterxml.jackson.databind.ObjectMapper

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1.10 JaxRpc 1.4

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```

```

*/

package org.apache.axis;

import org.apache.axis.components.logger.LogFactory;
import org.apache.axis.utils.Messages;
import org.apache.commons.discovery.ResourceClassIterator;
import org.apache.commons.discovery.ResourceNameDiscover;
import org.apache.commons.discovery.ResourceNameIterator;
import org.apache.commons.discovery.resource.ClassLoaders;
import org.apache.commons.discovery.resource.classes.DiscoverClasses;
import org.apache.commons.discovery.resource.names.DiscoverMappedNames;
import org.apache.commons.discovery.resource.names.DiscoverNamesInAlternateManagedProperties;
import org.apache.commons.discovery.resource.names.DiscoverNamesInManagedProperties;
import org.apache.commons.discovery.resource.names.DiscoverServiceNames;
import org.apache.commons.discovery.resource.names.NameDiscoverers;
import org.apache.commons.discovery.tools.ClassUtils;
import org.apache.commons.discovery.tools.DefaultClassHolder;
import org.apache.commons.discovery.tools.DiscoverClass;
import org.apache.commons.discovery.tools.ManagedProperties;
import org.apache.commons.discovery.tools.PropertiesHolder;
import org.apache.commons.discovery.tools.SPInterface;
import org.apache.commons.logging.Log;

import java.lang.reflect.InvocationTargetException;
import java.security.AccessController;
import java.security.PrivilegedAction;
import java.util.Enumeration;
import java.util.Map;
import java.util.Properties;

/**
 * <p>Configuration properties for AXIS.
 * </p>
 *
 * <p>Manage configuration properties according to a secure
 * scheme similar to that used by classloaders:
 * <ul>
 * <li><code>ClassLoader</code>s are organized in a tree hierarchy.</li>
 * <li>each <code>ClassLoader</code> has a reference
 * to a parent <code>ClassLoader</code>.</li>
 * <li>the root of the tree is the bootstrap <code>ClassLoader</code>er.</li>
 * <li>the youngest decendent is the thread context class loader.</li>
 * <li>properties are bound to a <code>ClassLoader</code> instance
 * <ul>
 * <li><i>non-default</i> properties bound to a parent <code>ClassLoader</code>
 * instance take precedence over all properties of the same name bound

```

```

*   to any decendent.
*   Just to confuse the issue, this is the default case.</li>
*   <li><i>default</i> properties bound to a parent <code>ClassLoader</code>
*   instance may be overridden by (default or non-default) properties of
*   the same name bound to any decendent.
*   </li>
* </ul>
* </li>
* <li>System properties take precedence over all other properties</li>
* </ul>
* </p>
*
* @author Richard A. Sitze
*/
public class AxisProperties {
    /** The <code>Log</code> for all interesting events in this class. */
    protected static Log log =
        LoggerFactory.getLog(AxisProperties.class.getName());

    private static DiscoverNamesInAlternateManagedProperties altNameDiscoverer;
    private static DiscoverMappedNames mappedNames;
    private static NameDiscoverers nameDiscoverer;
    private static ClassLoaders loaders;

    public static void setClassOverrideProperty(Class clazz, String propertyName) {
        getAlternatePropertyNameDiscoverer()
            .addClassToPropertyNameMapping(clazz.getName(), propertyName);
    }

    public static void setClassDefault(Class clazz, String defaultName) {
        getMappedNames().map(clazz.getName(), defaultName);
    }

    public static void setClassDefaults(Class clazz, String[] defaultNames) {
        getMappedNames().map(clazz.getName(), defaultNames);
    }

    public static synchronized ResourceNameDiscover getNameDiscoverer() {
        if (nameDiscoverer == null) {
            nameDiscoverer = new NameDiscoverers();
            nameDiscoverer.addResourceNameDiscover(getAlternatePropertyNameDiscoverer());
            nameDiscoverer.addResourceNameDiscover(new DiscoverNamesInManagedProperties());
            nameDiscoverer.addResourceNameDiscover(new DiscoverServiceNames(getClassLoaders()));
            nameDiscoverer.addResourceNameDiscover(getMappedNames());
        }
        return nameDiscoverer;
    }
}

```

```

public static ResourceClassIterator getResourceClassIterator(Class spi) {
    ResourceNameIterator it = getNameDiscoverer().findResourceNames(spi.getName());
    return new DiscoverClasses(loaders).findResourceClasses(it);
}

private static synchronized ClassLoaders getClassLoaders() {
    if (loaders == null) {
        loaders = ClassLoaders.getAppLoaders(AxisProperties.class, null, true);
    }
    return loaders;
}

private static synchronized DiscoverMappedNames getMappedNames() {
    if (mappedNames == null) {
        mappedNames = new DiscoverMappedNames();
    }
    return mappedNames;
}

private static synchronized DiscoverNamesInAlternateManagedProperties getAlternatePropertyNameDiscoverer()
{
    if (altNameDiscoverer == null) {
        altNameDiscoverer = new DiscoverNamesInAlternateManagedProperties();
    }

    return altNameDiscoverer;
}

/**
 * Create a new instance of a service provider class.
 *
 * !WARNING!
 * SECURITY issue.
 *
 * See bug 11874
 *
 * The solution to both is to move doPrivilege UP within AXIS to a
 * class that is either private (cannot be reached by code outside
 * AXIS) or that represents a secure public interface...
 *
 * This is going to require analysis and (probably) rearchitecting.
 * So, I'm taking the easy way out until we are at a point
 * where we can reasonably rearchitect for security.
 *
 * @param spiClass the service provider class to instantiate
 * @return a new instance of this class
 */

```

```

public static Object newInstance(Class spiClass)
{
    return newInstance(spiClass, null, null);
}

public static Object newInstance(final Class spiClass,
                                final Class constructorParamTypes[],
                                final Object constructorParams[]) {
    return AccessController.doPrivileged(
        new PrivilegedAction() {
            public Object run() {
                ResourceClassIterator services = getResourceClassIterator(spiClass);

                Object obj = null;
                while (obj == null && services.hasNext()) {
                    Class service = services.nextResourceClass().loadClass();

                    /* service == null
                     * if class resource wasn't loadable
                     */
                    if (service != null) {
                        /* OK, class loaded.. attempt to instantiate it.
                         */
                        try {
                            ClassUtils.verifyAncestry(spiClass, service);
                            obj = ClassUtils.newInstance(service, constructorParamTypes, constructorParams);
                        } catch (InvocationTargetException e) {
                            if (e.getTargetException() instanceof java.lang.NoClassDefFoundError) {
                                log.debug(Messages.getMessage("exception00"), e);
                            } else {
                                log.warn(Messages.getMessage("exception00"), e);
                            }
                        } catch (Exception e) {
                            log.warn(Messages.getMessage("exception00"), e);
                        }
                    }
                }

                return obj;
            }
        });
}

/**
 * Get value for property bound to the current thread context class loader.
 *
 * @param propertyName property name.

```

```

* @return property value if found, otherwise default.
*/
public static String getProperty(String propertyName) {
    return ManagedProperties.getProperty(propertyName);
}

/**
* Get value for property bound to the current thread context class loader.
* If not found, then return default.
*
* @param propertyName property name.
* @param dephault default value.
* @return property value if found, otherwise default.
*/
public static String getProperty(String propertyName, String dephault) {
    return ManagedProperties.getProperty(propertyName, dephault);
}

/**
* Set value for property bound to the current thread context class loader.
* @param propertyName property name
* @param value property value (non-default) If null, remove the property.
*/
public static void setProperty(String propertyName, String value) {
    ManagedProperties.setProperty(propertyName, value);
}

/**
* Set value for property bound to the current thread context class loader.
* @param propertyName property name
* @param value property value. If null, remove the property.
* @param isDefault determines if property is default or not.
*     A non-default property cannot be overridden.
*     A default property can be overridden by a property
*     (default or non-default) of the same name bound to
*     a decendent class loader.
*/
public static void setProperty(String propertyName, String value, boolean isDefault) {
    ManagedProperties.setProperty(propertyName, value, isDefault);
}

/**
* Set property values for <code>Properties</code> bound to the
* current thread context class loader.
*
* @param newProperties name/value pairs to be bound
*/
public static void setProperties(Map newProperties) {

```



```

    ManagedProperties.setProperties(newProperties);
}

/**
 * Set property values for <code>Properties</code> bound to the
 * current thread context class loader.
 *
 * @param newProperties name/value pairs to be bound
 * @param isDefault determines if properties are default or not.
 *     A non-default property cannot be overridden.
 *     A default property can be overridden by a property
 *     (default or non-default) of the same name bound to
 *     a decendent class loader.
 */
public static void setProperties(Map newProperties, boolean isDefault) {
    ManagedProperties.setProperties(newProperties, isDefault);
}

public static Enumeration propertyNames() {
    return ManagedProperties.propertyNames();
}

/**
 * This is an expensive operation.
 *
 * @return Returns a <code>java.util.Properties</code> instance
 * that is equivalent to the current state of the scoped
 * properties, in that getProperty() will return the same value.
 * However, this is a copy, so setProperty on the
 * returned value will not effect the scoped properties.
 */
public static Properties getProperties() {
    return ManagedProperties.getProperties();
}

public static Object newInstance(Class spiClass, Class defaultClass)
{
    return newInstance(new SPIInterface(spiClass), new DefaultClassHolder(defaultClass));
}

/**
 * !WARNING!
 * SECURITY issue.
 *
 * See bug 11874

```

```

*
* The solution to both is to move doPrivilege UP within AXIS to a
* class that is either private (cannot be reached by code outside
* AXIS) or that represents a secure public interface...
*
* This is going to require analysis and (probably) rearchitecting.
* So, I'm taking taking the easy way out until we are at a point
* where we can reasonably rearchitect for security.
*/
private static Object newInstance(final SPIInterface spi,
                                final DefaultClassHolder defaultClass)
{
    return AccessController.doPrivileged(
        new PrivilegedAction() {
            public Object run() {
                try {
                    return DiscoverClass.newInstance(null,
                                                    spi,
                                                    (PropertiesHolder)null,
                                                    defaultClass);
                } catch (Exception e) {
                    log.error(Messages.getMessage("exception00"), e);
                }
                return null;
            }
        });
}
}

```

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Mark Murphy <[markm at tyrell.com](mailto:markm@tyrell.com)> has contributed performance
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Michael Davey <[michael.davey at coderae.org](mailto:michael.davey@coderae.org)> fixed some documentation and
added a missing int substitute(...) method to Perl5Util.

Harald Kuhn <[harald at ontopia.net](mailto:harald@ontopia.net)> updated
MatchActionProcessor.processMatches() to accommodate character encodings.

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1.22 slf4j-api 1.5.2

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 */
```

```
package org.slf4j;
```

```
/**
 * <code>ILoggerFactory</code> instances manufacture { @link Logger }
 * instances by name.
 *
 * <p>Most users retrieve { @link Logger } instances through the static
 * { @link LoggerFactory#getLogger(String) } method. An instance of of this
 * interface is bound internally with { @link LoggerFactory } class at
 * compile time.
 *
 * @author Ceki G&uuml;lc&uuml;;
 */
public interface ILoggerFactory {

    /**
     * Return an appropriate { @link Logger } instance as specified by the
     * <code>name</code> parameter.
     */
}
```

```

* <p>If the name parameter is equal to {@link Logger#ROOT_LOGGER_NAME}, that is
* the string value "ROOT" (case insensitive), then the root logger of the
* underlying logging system is returned.
*
* <p>Null-valued name arguments are considered invalid.
*
* <p>Certain extremely simple logging systems, e.g. NOP, may always
* return the same logger instance regardless of the requested name.
*
* @param name the name of the Logger to return
*/
public Logger getLogger(String name);
}

```

1.23 slf4j-log4j12 1.7.16

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