| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/StartTlsRequest.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
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| [**PREV CLASS**](http://docs.google.com/javax/naming/ldap/SortResponseControl.html)   [**NEXT CLASS**](http://docs.google.com/javax/naming/ldap/StartTlsResponse.html) | [**FRAMES**](http://docs.google.com/index.html?javax/naming/ldap/StartTlsRequest.html)    [**NO FRAMES**](http://docs.google.com/StartTlsRequest.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#2et92p0) | [METHOD](#tyjcwt) | DETAIL: [FIELD](#1t3h5sf) | [CONSTR](#2s8eyo1) | [METHOD](#3rdcrjn) |

## **javax.naming.ldap**

Class StartTlsRequest

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 **javax.naming.ldap.StartTlsRequest**

**All Implemented Interfaces:** [Serializable](http://docs.google.com/java/io/Serializable.html), [ExtendedRequest](http://docs.google.com/javax/naming/ldap/ExtendedRequest.html)

public class **StartTlsRequest**extends [Object](http://docs.google.com/java/lang/Object.html)implements [ExtendedRequest](http://docs.google.com/javax/naming/ldap/ExtendedRequest.html)

This class implements the LDAPv3 Extended Request for StartTLS as defined in [Lightweight Directory Access Protocol (v3): Extension for Transport Layer Security](http://www.ietf.org/rfc/rfc2830.txt) The object identifier for StartTLS is 1.3.6.1.4.1.1466.20037 and no extended request value is defined.

StartTlsRequest/StartTlsResponse are used to establish a TLS connection over the existing LDAP connection associated with the JNDI context on which extendedOperation() is invoked. Typically, a JNDI program uses these classes as follows.

import javax.naming.ldap.\*;  
  
 // Open an LDAP association  
 LdapContext ctx = new InitialLdapContext();  
  
 // Perform a StartTLS extended operation  
 StartTlsResponse tls =  
 (StartTlsResponse) ctx.extendedOperation(new StartTlsRequest());  
  
 // Open a TLS connection (over the existing LDAP association) and get details  
 // of the negotiated TLS session: cipher suite, peer certificate, etc.  
 SSLSession session = tls.negotiate();  
  
 // ... use ctx to perform protected LDAP operations  
  
 // Close the TLS connection (revert back to the underlying LDAP association)  
 tls.close();  
  
 // ... use ctx to perform unprotected LDAP operations  
  
 // Close the LDAP association  
 ctx.close;

**Since:** 1.4 **See Also:**[StartTlsResponse](http://docs.google.com/javax/naming/ldap/StartTlsResponse.html), [Serialized Form](http://docs.google.com/serialized-form.html#javax.naming.ldap.StartTlsRequest)

| **Field Summary** | |
| --- | --- |
| static [String](http://docs.google.com/java/lang/String.html) | [**OID**](http://docs.google.com/javax/naming/ldap/StartTlsRequest.html#OID)            The StartTLS extended request's assigned object identifier is 1.3.6.1.4.1.1466.20037. |

| **Constructor Summary** | |
| --- | --- |
| [**StartTlsRequest**](http://docs.google.com/javax/naming/ldap/StartTlsRequest.html#StartTlsRequest())()            Constructs a StartTLS extended request. |

| **Method Summary** | |
| --- | --- |
| [ExtendedResponse](http://docs.google.com/javax/naming/ldap/ExtendedResponse.html) | [**createExtendedResponse**](http://docs.google.com/javax/naming/ldap/StartTlsRequest.html#createExtendedResponse(java.lang.String,%20byte%5B%5D,%20int,%20int))([String](http://docs.google.com/java/lang/String.html) id, byte[] berValue, int offset, int length)            Creates an extended response object that corresponds to the LDAP StartTLS extended request. |
| byte[] | [**getEncodedValue**](http://docs.google.com/javax/naming/ldap/StartTlsRequest.html#getEncodedValue())()            Retrieves the StartTLS request's ASN.1 BER encoded value. |
| [String](http://docs.google.com/java/lang/String.html) | [**getID**](http://docs.google.com/javax/naming/ldap/StartTlsRequest.html#getID())()            Retrieves the StartTLS request's object identifier string. |

| **Methods inherited from class java.lang.**[**Object**](http://docs.google.com/java/lang/Object.html) |
| --- |
| [clone](http://docs.google.com/java/lang/Object.html#clone()), [equals](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)), [finalize](http://docs.google.com/java/lang/Object.html#finalize()), [getClass](http://docs.google.com/java/lang/Object.html#getClass()), [hashCode](http://docs.google.com/java/lang/Object.html#hashCode()), [notify](http://docs.google.com/java/lang/Object.html#notify()), [notifyAll](http://docs.google.com/java/lang/Object.html#notifyAll()), [toString](http://docs.google.com/java/lang/Object.html#toString()), [wait](http://docs.google.com/java/lang/Object.html#wait()), [wait](http://docs.google.com/java/lang/Object.html#wait(long)), [wait](http://docs.google.com/java/lang/Object.html#wait(long,%20int)) |

| **Field Detail** |
| --- |

### OID

public static final [String](http://docs.google.com/java/lang/String.html) **OID**

The StartTLS extended request's assigned object identifier is 1.3.6.1.4.1.1466.20037.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.naming.ldap.StartTlsRequest.OID)

| **Constructor Detail** |
| --- |

### StartTlsRequest

public **StartTlsRequest**()

Constructs a StartTLS extended request.

| **Method Detail** |
| --- |

### getID

public [String](http://docs.google.com/java/lang/String.html) **getID**()

Retrieves the StartTLS request's object identifier string.

**Specified by:**[getID](http://docs.google.com/javax/naming/ldap/ExtendedRequest.html#getID()) in interface [ExtendedRequest](http://docs.google.com/javax/naming/ldap/ExtendedRequest.html) **Returns:**The object identifier string, "1.3.6.1.4.1.1466.20037".

### getEncodedValue

public byte[] **getEncodedValue**()

Retrieves the StartTLS request's ASN.1 BER encoded value. Since the request has no defined value, null is always returned.

**Specified by:**[getEncodedValue](http://docs.google.com/javax/naming/ldap/ExtendedRequest.html#getEncodedValue()) in interface [ExtendedRequest](http://docs.google.com/javax/naming/ldap/ExtendedRequest.html) **Returns:**The null value.

### createExtendedResponse

public [ExtendedResponse](http://docs.google.com/javax/naming/ldap/ExtendedResponse.html) **createExtendedResponse**([String](http://docs.google.com/java/lang/String.html) id,  
 byte[] berValue,  
 int offset,  
 int length)  
 throws [NamingException](http://docs.google.com/javax/naming/NamingException.html)

Creates an extended response object that corresponds to the LDAP StartTLS extended request.

The result must be a concrete subclass of StartTlsResponse and must have a public zero-argument constructor.

This method locates the implementation class by locating configuration files that have the name:

META-INF/services/javax.naming.ldap.StartTlsResponseThe configuration files and their corresponding implementation classes must be accessible to the calling thread's context class loader.

Each configuration file should contain a list of fully-qualified class names, one per line. Space and tab characters surrounding each name, as well as blank lines, are ignored. The comment character is '#' (0x23); on each line all characters following the first comment character are ignored. The file must be encoded in UTF-8.

This method will return an instance of the first implementation class that it is able to load and instantiate successfully from the list of class names collected from the configuration files. This method uses the calling thread's context classloader to find the configuration files and to load the implementation class.

If no class can be found in this way, this method will use an implementation-specific way to locate an implementation. If none is found, a NamingException is thrown.

**Specified by:**[createExtendedResponse](http://docs.google.com/javax/naming/ldap/ExtendedRequest.html#createExtendedResponse(java.lang.String,%20byte%5B%5D,%20int,%20int)) in interface [ExtendedRequest](http://docs.google.com/javax/naming/ldap/ExtendedRequest.html) **Parameters:**id - The object identifier of the extended response. Its value must be "1.3.6.1.4.1.1466.20037" or null. Both values are equivalent.berValue - The possibly null ASN.1 BER encoded value of the extended response. This is the raw BER bytes including the tag and length of the response value. It does not include the response OID. Its value is ignored because a Start TLS response is not expected to contain any response value.offset - The starting position in berValue of the bytes to use. Its value is ignored because a Start TLS response is not expected to contain any response value.length - The number of bytes in berValue to use. Its value is ignored because a Start TLS response is not expected to contain any response value. **Returns:**The StartTLS extended response object. **Throws:** [NamingException](http://docs.google.com/javax/naming/NamingException.html) - If a naming exception was encountered while creating the StartTLS extended response object.**See Also:**[ExtendedResponse](http://docs.google.com/javax/naming/ldap/ExtendedResponse.html)

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[Submit a bug or feature](http://bugs.sun.com/services/bugreport/index.jsp)

For further API reference and developer documentation, see [Java SE Developer Documentation](http://docs.google.com/webnotes/devdocs-vs-specs.html). That documentation contains more detailed, developer-targeted descriptions, with conceptual overviews, definitions of terms, workarounds, and working code examples.

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