| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/PagedResultsControl.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*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/javax/naming/ldap/ManageReferralControl.html)   [**NEXT CLASS**](http://docs.google.com/javax/naming/ldap/PagedResultsResponseControl.html) | [**FRAMES**](http://docs.google.com/index.html?javax/naming/ldap/PagedResultsControl.html)    [**NO FRAMES**](http://docs.google.com/PagedResultsControl.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#3dy6vkm) | [METHOD](#4d34og8) | DETAIL: [FIELD](#17dp8vu) | [CONSTR](#26in1rg) | METHOD |

## **javax.naming.ldap**

Class PagedResultsControl

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

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

public final class **PagedResultsControl**extends [BasicControl](http://docs.google.com/javax/naming/ldap/BasicControl.html)

Requests that the results of a search operation be returned by the LDAP server in batches of a specified size. The requestor controls the rate at which batches are returned by the rate at which it invokes search operations.

The following code sample shows how the class may be used:

// Open an LDAP association  
 LdapContext ctx = new InitialLdapContext();  
  
 // Activate paged results  
 int pageSize = 20; // 20 entries per page  
 byte[] cookie = null;  
 int total;  
 ctx.setRequestControls(new Control[]{   
 new PagedResultsControl(pageSize, Control.CRITICAL) });  
  
 do {  
 // Perform the search  
 NamingEnumeration results =  
 ctx.search("", "(objectclass=\*)", new SearchControls());  
  
 // Iterate over a batch of search results  
 while (results != null && results.hasMore()) {  
 // Display an entry  
 SearchResult entry = (SearchResult)results.next();  
 System.out.println(entry.getName());  
 System.out.println(entry.getAttributes());  
  
 // Handle the entry's response controls (if any)  
 if (entry instanceof HasControls) {  
 // ((HasControls)entry).getControls();  
 }  
 }  
 // Examine the paged results control response   
 Control[] controls = ctx.getResponseControls();  
 if (controls != null) {  
 for (int i = 0; i < controls.length; i++) {  
 if (controls[i] instanceof PagedResultsResponseControl) {  
 PagedResultsResponseControl prrc =  
 (PagedResultsResponseControl)controls[i];  
 total = prrc.getResultSize();  
 cookie = prrc.getCookie();  
 } else {  
 // Handle other response controls (if any)  
 }  
 }  
 }  
  
 // Re-activate paged results  
 ctx.setRequestControls(new Control[]{  
 new PagedResultsControl(pageSize, cookie, Control.CRITICAL) });  
 } while (cookie != null);  
  
 // Close the LDAP association  
 ctx.close();  
 ...

This class implements the LDAPv3 Control for paged-results as defined in [RFC 2696](http://www.ietf.org/rfc/rfc2696.txt). The control's value has the following ASN.1 definition:

realSearchControlValue ::= SEQUENCE {  
 size INTEGER (0..maxInt),  
 -- requested page size from client  
 -- result set size estimate from server  
 cookie OCTET STRING  
 }

**Since:** 1.5 **See Also:**[PagedResultsResponseControl](http://docs.google.com/javax/naming/ldap/PagedResultsResponseControl.html), [Serialized Form](http://docs.google.com/serialized-form.html#javax.naming.ldap.PagedResultsControl)

| **Field Summary** | |
| --- | --- |
| static [String](http://docs.google.com/java/lang/String.html) | [**OID**](http://docs.google.com/javax/naming/ldap/PagedResultsControl.html#OID)            The paged-results control's assigned object identifier is 1.2.840.113556.1.4.319. |

| **Fields inherited from class javax.naming.ldap.**[**BasicControl**](http://docs.google.com/javax/naming/ldap/BasicControl.html) |
| --- |
| [criticality](http://docs.google.com/javax/naming/ldap/BasicControl.html#criticality), [id](http://docs.google.com/javax/naming/ldap/BasicControl.html#id), [value](http://docs.google.com/javax/naming/ldap/BasicControl.html#value) |

| **Fields inherited from interface javax.naming.ldap.**[**Control**](http://docs.google.com/javax/naming/ldap/Control.html) |
| --- |
| [CRITICAL](http://docs.google.com/javax/naming/ldap/Control.html#CRITICAL), [NONCRITICAL](http://docs.google.com/javax/naming/ldap/Control.html#NONCRITICAL) |

| **Constructor Summary** | |
| --- | --- |
| [**PagedResultsControl**](http://docs.google.com/javax/naming/ldap/PagedResultsControl.html#PagedResultsControl(int,%20boolean))(int pageSize, boolean criticality)            Constructs a control to set the number of entries to be returned per page of results. |
| [**PagedResultsControl**](http://docs.google.com/javax/naming/ldap/PagedResultsControl.html#PagedResultsControl(int,%20byte%5B%5D,%20boolean))(int pageSize, byte[] cookie, boolean criticality)            Constructs a control to set the number of entries to be returned per page of results. |

| **Method Summary** | |
| --- | --- |

| **Methods inherited from class javax.naming.ldap.**[**BasicControl**](http://docs.google.com/javax/naming/ldap/BasicControl.html) |
| --- |
| [getEncodedValue](http://docs.google.com/javax/naming/ldap/BasicControl.html#getEncodedValue()), [getID](http://docs.google.com/javax/naming/ldap/BasicControl.html#getID()), [isCritical](http://docs.google.com/javax/naming/ldap/BasicControl.html#isCritical()) |

| **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 paged-results control's assigned object identifier is 1.2.840.113556.1.4.319.

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

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

### PagedResultsControl

public **PagedResultsControl**(int pageSize,  
 boolean criticality)  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

Constructs a control to set the number of entries to be returned per page of results.

**Parameters:**pageSize - The number of entries to return in a page.criticality - If true then the server must honor the control and return search results as indicated by pageSize or refuse to perform the search. If false, then the server need not honor the control. **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - If an error was encountered while encoding the supplied arguments into a control.

### PagedResultsControl

public **PagedResultsControl**(int pageSize,  
 byte[] cookie,  
 boolean criticality)  
 throws [IOException](http://docs.google.com/java/io/IOException.html)

Constructs a control to set the number of entries to be returned per page of results. The cookie is provided by the server and may be obtained from the paged-results response control.

A sequence of paged-results can be abandoned by setting the pageSize to zero and setting the cookie to the last cookie received from the server.

**Parameters:**pageSize - The number of entries to return in a page.cookie - A possibly null server-generated cookie.criticality - If true then the server must honor the control and return search results as indicated by pageSize or refuse to perform the search. If false, then the server need not honor the control. **Throws:** [IOException](http://docs.google.com/java/io/IOException.html) - If an error was encountered while encoding the supplied arguments into a control.

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/PagedResultsControl.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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[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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