(#inhmethods) | [Expand AII] (#)

# BackupDataOutput

public class BackupDataOutput extends Object

(https://developer.android.com/reference/java/lang/Object.html)

java.lang.Object (https://developer.android.com/reference/java/lang/Object.html)

→ android.app.backup.BackupDataOutput

(https://developer.android.com/guide/topics/manifest/uses-sdkelement.html#ApiLevels) Summary: Methods (#pubmethods) | Inherited Methods

Provides the structured interface through which a BackupAgent

(https://developer.android.com/reference/android/app/backup/BackupAgent.html) commits information to the backup data set, via its onBackup()

(https://developer.android.com/reference/android/app/backup/BackupAgent.html#onBackup(android.os.ParcelFileDescriptor, android.app.backup.BackupDataOutput, android.os.ParcelFileDescriptor)) method. Data written for backup is presented as a set of "entities," key/value pairs in which each binary data record "value" is named with a string "key."

To commit a data record to the backup transport, the agent's onBackup()

(https://developer.android.com/reference/android/app/backup/BackupAgent.html#onBackup(android.os.ParcelFileDescriptor, android.app.backup.BackupDataOutput, android.os.ParcelFileDescriptor)) method first writes an "entity header" that supplies the key string for the record and the total size of the binary value for the record. After the header has been written, the agent then writes the binary entity value itself. The entity value can be written in multiple chunks if desired, as long as the total count of bytes written matches what was supplied to writeEntityHeader()

(https://developer.android.com/reference/android/app/backup/BackupDataOutput.html #writeEntityHeader(java.lang.String, int)).

Entity key strings are considered to be unique within a given application's backup data set. If a backup agent writes a new entity under an existing key string, its value will replace any previous value in the transport's remote data store. You can remove a record entirely from the remote data set by writing a new entity header using the existing record's key, but supplying a negative dataSize parameter. When you do so, the agent does not need to call writeEntityData(byte[], int)

(https://developer.android.com/reference/android/app/backup/BackupDataOutput.html#writeEntityData(byte[], int)).

#### Example

Here is an example illustrating a way to back up the value of a String variable called mStringToBackUp:

#### See also:

BackupAgent (https://developer.android.com/reference/android/app/backup/BackupAgent.html)

# Summary

Public	Public methods		
long	getQuota (https://developer.android.com/reference/android/app/backup/BackupDataOutput.html#getQuota())() Returns the quota in bytes for the application's current backup operation.		
int	<pre>writeEntityData   (https://developer.android.com/reference/android/app/backup/BackupDataOutput.html#writeEntityData(byte[], int))   (byte[] data, int size) Write a chunk of data under the current entity to the backup transport.</pre>		
int	writeEntityHeader  (https://developer.android.com/reference/android/app/backup/BackupDataOutput.html#writeEntityHeader(java.lang.String, int))(String (https://developer.android.com/reference/java/lang/String.html) key, int dataSize)  Mark the beginning of one record in the backup data stream.		

Inherited methods

(#)From class java.lang.Object (https://developer.android.com/reference/java/lang/Object.html)

### Public methods

### getQuota

 $added\ in\ API\ level\ 26\ (https://developer.android.com/guide/topics/manifest/uses-sdk-element.html \#ApiLevels)$ 

long getQuota ()

Returns the quota in bytes for the application's current backup operation. The value can vary for each operation.

Returns		
long		

#### See also:

 $\tt getQuota() \ (https://developer.android.com/reference/android/app/backup/FullBackupDataOutput.html\#getQuota())$ 

## writeEntityData

Write a chunk of data under the current entity to the backup transport.

Parameters				
data	byte: A raw data buffer to send			
size	int: The number of bytes to be sent in this chunk			
Returns				
int	the number of bytes written			
Throws				
IOException		if the write failed		
(https://developer.android.com/reference/java/io/IOException.html)				

# writeEntityHeader

added in API level 8 (https://developer.android.com/guide/topics/manifest/uses-sdk-element.html#ApiLevels)

Mark the beginning of one record in the backup data stream. This must be called before writeEntityData(byte[], int) (https://developer.android.com/reference/android/app/backup/BackupDataOutput.html#writeEntityData(byte[], int)).

Parameters	Parameters	
key	String: A string key that uniquely identifies the data record within the application. Keys whose first character is $\Box$ or higher are not valid.	
dataSize	int: The size in bytes of this record's data. Passing a dataSize of -1 indicates that the record under this key should be deleted.	

Retur	ns
int	The number of bytes written to the backup stream

Throws		
	IOException	if the write failed
	(https://developer.android.com/reference/java/io/IOException.html)	





