

Siard Suite Zip64 tips & tricks

How to use Zip64 to manual unzip and zip extractions

<https://github.com/sfa-siard/Zip64File>

Create a SIARD file (always creates Zip64-format)

```
java -jar "C:\prog\siardsuite\zip64-2.1.80\zip64\lib\zip64.jar" n "-d=D:\_demo-temp\002\in"
"D:\_demo-temp\002\out\sakila_mysql5.6.35_scfc20.03.1583_int_zip64.2.1.80.siard"
```

Unpack a SIARD file (can unpack both Zip32- and Zip64-format)

```
java -jar "C:\prog\siardsuite\zip64-2.1.80\zip64\lib\zip64.jar" x "-d=D:\_demo-temp\001\out"
"D:\_demo-temp\001\in\sakila_mysql5.6.35_scfc20.03.1583_int.siard"
```

List content of a SIARD file (can list from both Zip32- and Zip64-format)

- Will not use the output-folder as the list of content will show in the console window
- So if called by a .bat file it is important to add "pause" at bottom of the .bat file to halt closing of console window

```
java -jar "C:\prog\siardsuite\zip64-2.1.80\zip64\lib\zip64.jar" l "-d=D:\_demo-temp\003\out"
"D:\_demo-temp\003\in\sakila_mysql5.6.35_scfc20.03.1583_int.siard"
```

Preferably: Save console list into a text file (direct console output to file)

```
java -jar "C:\prog\siardsuite\zip64-2.1.80\zip64\lib\zip64.jar" l "-d=D:\_demo-temp\004\out"
"D:\_demo-temp\004\in\sakila_mysql5.6.35_scfc20.03.1583_int.siard" > "D:\_demo-
temp\004\out\sakila_mysql5.6.35_scfc20.03.1583_int_list.txt"
```

Result unpack SIARD-file

Microsoft Windows [Version 10.0.18363.720]

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```
C:\WINDOWS\system32>java -jar "C:\prog\siardsuite\zip64-2.1.80\zip64\lib\zip64.jar" x "-d=D:\_demo-temp\001\out" "D:\_demo-temp\001\in\sakila_mysql5.6.35_scfc20.03.1583_int.siard"
zip64 2.1 - handles ZIP64 archives
```

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```
Extracting from D:\_demo-temp\001\in\sakila_mysql5.6.35_scfc20.03.1583_int.siard ...
extracting D:\_demo-temp\001\out\content\schema0\table0\table0.xml from
content/schema0/table0/table0.xml
extracting D:\_demo-temp\001\out\content\schema0\table0\table0.xsd from
content/schema0/table0/table0.xsd
extracting D:\_demo-temp\001\out\content\schema0\table1\table1.xml from
content/schema0/table1/table1.xml
```

extracting D:\demo-temp\001\out\content\schema0\table1\table1.xsd from
content/schema0/table1/table1.xsd
extracting D:\demo-temp\001\out\content\schema0\table2\table2.xml from
content/schema0/table2/table2.xml
extracting D:\demo-temp\001\out\content\schema0\table2\table2.xsd from
content/schema0/table2/table2.xsd
extracting D:\demo-temp\001\out\content\schema0\table3\table3.xml from
content/schema0/table3/table3.xml
extracting D:\demo-temp\001\out\content\schema0\table3\table3.xsd from
content/schema0/table3/table3.xsd
extracting D:\demo-temp\001\out\content\schema0\table4\table4.xml from
content/schema0/table4/table4.xml
extracting D:\demo-temp\001\out\content\schema0\table4\table4.xsd from
content/schema0/table4/table4.xsd
extracting D:\demo-temp\001\out\content\schema0\table5\table5.xml from
content/schema0/table5/table5.xml
extracting D:\demo-temp\001\out\content\schema0\table5\table5.xsd from
content/schema0/table5/table5.xsd
extracting D:\demo-temp\001\out\content\schema0\table6\table6.xml from
content/schema0/table6/table6.xml
extracting D:\demo-temp\001\out\content\schema0\table6\table6.xsd from
content/schema0/table6/table6.xsd
extracting D:\demo-temp\001\out\content\schema0\table7\table7.xml from
content/schema0/table7/table7.xml
extracting D:\demo-temp\001\out\content\schema0\table7\table7.xsd from
content/schema0/table7/table7.xsd
extracting D:\demo-temp\001\out\content\schema0\table8\table8.xml from
content/schema0/table8/table8.xml
extracting D:\demo-temp\001\out\content\schema0\table8\table8.xsd from
content/schema0/table8/table8.xsd
extracting D:\demo-temp\001\out\content\schema0\table9\table9.xml from
content/schema0/table9/table9.xml
extracting D:\demo-temp\001\out\content\schema0\table9\table9.xsd from
content/schema0/table9/table9.xsd
extracting D:\demo-temp\001\out\content\schema0\table10\table10.xml from
content/schema0/table10/table10.xml
extracting D:\demo-temp\001\out\content\schema0\table10\lob5\seg0\rec1.bin from
content/schema0/table10/lob5/seg0/rec1.bin
extracting D:\demo-temp\001\out\content\schema0\table10\table10.xsd from
content/schema0/table10/table10.xsd
extracting D:\demo-temp\001\out\content\schema0\table11\table11.xml from
content/schema0/table11/table11.xml
extracting D:\demo-temp\001\out\content\schema0\table11\table11.xsd from
content/schema0/table11/table11.xsd
extracting D:\demo-temp\001\out\content\schema0\table12\table12.xml from
content/schema0/table12/table12.xml
extracting D:\demo-temp\001\out\content\schema0\table12\table12.xsd from
content/schema0/table12/table12.xsd
extracting D:\demo-temp\001\out\content\schema0\table13\table13.xml from
content/schema0/table13/table13.xml
extracting D:\demo-temp\001\out\content\schema0\table13\table13.xsd from
content/schema0/table13/table13.xsd

extracting D:\demo-temp\001\out\content\schema0\table14\table14.xml from
content/schema0/table14/table14.xml
extracting D:\demo-temp\001\out\content\schema0\table14\table14.xsd from
content/schema0/table14/table14.xsd
extracting D:\demo-temp\001\out\content\schema0\table15\table15.xml from
content/schema0/table15/table15.xml
extracting D:\demo-temp\001\out\content\schema0\table15\table15.xsd from
content/schema0/table15/table15.xsd
extracting D:\demo-temp\001\out\header\metadata.xml from header/metadata.xml
extracting D:\demo-temp\001\out\header\metadata.xsd from header/metadata.xsd
36 matching file entries extracted.

Result create SIARD-file

```
C:\WINDOWS\system32>java -jar "C:\prog\siardsuite\zip64-2.1.80\zip64\lib\zip64.jar" n "-  
d=D:\demo-temp\002\in" "D:\demo-  
temp\002\out\sakila_mysql5.6.35_scfc20.03.1583_int_zip64.2.1.80.siard"  
zip64 2.1 - handles ZIP64 archives  
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```

Injecting into D:\demo-temp\002\out\sakila_mysql5.6.35_scfc20.03.1583_int_zip64.2.1.80.siard ...
inserting content/
inserting content/schema0/
inserting content/schema0/table0/
inserting content/schema0/table0/table0.xml
inserting content/schema0/table0/table0.xsd
inserting content/schema0/table1/
inserting content/schema0/table1/table1.xml
inserting content/schema0/table1/table1.xsd
inserting content/schema0/table10/
inserting content/schema0/table10/lob5/
inserting content/schema0/table10/lob5/seg0/
inserting content/schema0/table10/lob5/seg0/rec1.bin
inserting content/schema0/table10/table10.xml
inserting content/schema0/table10/table10.xsd
inserting content/schema0/table11/
inserting content/schema0/table11/table11.xml
inserting content/schema0/table11/table11.xsd
inserting content/schema0/table12/
inserting content/schema0/table12/table12.xml
inserting content/schema0/table12/table12.xsd
inserting content/schema0/table13/
inserting content/schema0/table13/table13.xml
inserting content/schema0/table13/table13.xsd
inserting content/schema0/table14/
inserting content/schema0/table14/table14.xml
inserting content/schema0/table14/table14.xsd
inserting content/schema0/table15/

inserting content/schema0/table15/table15.xml
inserting content/schema0/table15/table15.xsd
inserting content/schema0/table2/
inserting content/schema0/table2/table2.xml
inserting content/schema0/table2/table2.xsd
inserting content/schema0/table3/
inserting content/schema0/table3/table3.xml
inserting content/schema0/table3/table3.xsd
inserting content/schema0/table4/
inserting content/schema0/table4/table4.xml
inserting content/schema0/table4/table4.xsd
inserting content/schema0/table5/
inserting content/schema0/table5/table5.xml
inserting content/schema0/table5/table5.xsd
inserting content/schema0/table6/
inserting content/schema0/table6/table6.xml
inserting content/schema0/table6/table6.xsd
inserting content/schema0/table7/
inserting content/schema0/table7/table7.xml
inserting content/schema0/table7/table7.xsd
inserting content/schema0/table8/
inserting content/schema0/table8/table8.xml
inserting content/schema0/table8/table8.xsd
inserting content/schema0/table9/
inserting content/schema0/table9/table9.xml
inserting content/schema0/table9/table9.xsd
inserting header/
inserting header/metadata.xml
inserting header/metadata.xsd
inserting header/siardversion/
inserting header/siardversion/2.1/
58 matching file entries injected.

List content of a SIARD-file (saved list to textfile)

Microsoft Windows [Version 10.0.18363.720]

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```
C:\WINDOWS\system32>java -jar "C:\prog\siardsuite\zip64-2.1.80\zip64\lib\zip64.jar" I "-  
d=D:\_demo-temp\004\out" "D:\_demo-temp\004\in\sakila_mysql5.6.35_scfc20.03.1583_int.siard"  
> "D:\_demo-temp\004\out\sakila_mysql5.6.35_scfc20.03.1583_int_list.txt"
```

List content of a SIARD-file (saved list in console window, works if not too many SIARD-elements)

Microsoft Windows [Version 10.0.18363.720]

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```
C:\WINDOWS\system32>java -jar "C:\prog\siardsuite\zip64-2.1.80\zip64\lib\zip64.jar" I "-  
d=D:\_demo-temp\003\out" "D:\_demo-temp\003\in\sakila_mysql5.6.35_scfc20.03.1583_int.siard"
```

zip64 2.1 - handles ZIP64 archives

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Listing file entries in D:_demo-temp\003\in\sakila_mysql5.6.35_scfc20.03.1583_int.siard ...

content/schema0/table0/table0.xml - ZIP32 entry

Date : 2020.03.13 00:14:58

Size : 2 896 239

Compressed size: 272 023

Crc : 0x0e73353d

content/schema0/table0/table0.xsd - ZIP32 entry

Date : 2020.03.13 00:14:58

Size : 4 442

Compressed size: 1 188

Crc : 0xa7f9e6d6

content/schema0/table1/table1.xml - ZIP32 entry

Date : 2020.03.13 00:14:58

Size : 3 264 098

Compressed size: 329 426

Crc : 0xbf1fa0a0

content/schema0/table1/table1.xsd - ZIP32 entry

Date : 2020.03.13 00:15:00

Size : 4 429

Compressed size: 1 177

Crc : 0x20b24e25

content/schema0/table2/table2.xml - ZIP32 entry

Date : 2020.03.13 00:15:00

Size : 479 856

Compressed size: 18 452

Crc : 0x0a76a4bb

content/schema0/table2/table2.xsd - ZIP32 entry

Date : 2020.03.13 00:15:00

Size : 4 273

Compressed size: 1 162

Crc : 0x3ce80c3b

content/schema0/table3/table3.xml - ZIP32 entry

Date : 2020.03.13 00:15:00

Size : 167 415

Compressed size: 28 229

Crc : 0x958bd3c4

content/schema0/table3/table3.xsd - ZIP32 entry

Date : 2020.03.13 00:15:00

Size : 4 235
Compressed size: 1 158
Crc : 0xea3066cb

content/schema0/table4/table4.xml - ZIP32 entry

Date : 2020.03.13 00:15:00
Size : 88 765
Compressed size: 4 437
Crc : 0x269e45ad

content/schema0/table4/table4.xsd - ZIP32 entry

Date : 2020.03.13 00:15:00
Size : 4 230
Compressed size: 1 162
Crc : 0x70d1ea08

content/schema0/table5/table5.xml - ZIP32 entry

Date : 2020.03.13 00:15:00
Size : 488 554
Compressed size: 21 997
Crc : 0x7cb515aa

content/schema0/table5/table5.xsd - ZIP32 entry

Date : 2020.03.13 00:15:00
Size : 4 227
Compressed size: 1 159
Crc : 0xecdf30d0

content/schema0/table6/table6.xml - ZIP32 entry

Date : 2020.03.13 00:15:00
Size : 368 968
Compressed size: 41 178
Crc : 0xa320dc9c

content/schema0/table6/table6.xsd - ZIP32 entry

Date : 2020.03.13 00:15:00
Size : 4 774
Compressed size: 1 221
Crc : 0x914f0096

content/schema0/table7/table7.xml - ZIP32 entry

Date : 2020.03.13 00:15:00
Size : 993
Compressed size: 370
Crc : 0x077527a4

content/schema0/table7/table7.xsd - ZIP32 entry

Date : 2020.03.13 00:15:00
Size : 4 224
Compressed size: 1 158
Crc : 0x21370aeb

content/schema0/table8/table8.xml - ZIP32 entry

Date : 2020.03.13 00:15:00
Size : 145 039
Compressed size: 13 803
Crc : 0x94914816

content/schema0/table8/table8.xsd - ZIP32 entry

Date : 2020.03.13 00:15:00
Size : 4 534
Compressed size: 1 192
Crc : 0xd6a69cc1

content/schema0/table9/table9.xml - ZIP32 entry

Date : 2020.03.13 00:15:00
Size : 638
Compressed size: 322
Crc : 0x1da7cb16

content/schema0/table9/table9.xsd - ZIP32 entry

Date : 2020.03.13 00:15:00
Size : 4 269
Compressed size: 1 158
Crc : 0xdca949d3

content/schema0/table10/table10.xml - ZIP32 entry

Date : 2020.03.13 00:15:00
Size : 1 021
Compressed size: 513
Crc : 0xd0c29ba4

content/schema0/table10/lob5/seg0/rec1.bin - ZIP32 entry

Date : 2020.03.13 00:15:00
Size : 36 365
Compressed size: 36 300
Crc : 0xe8d1036d

content/schema0/table10/table10.xsd - ZIP32 entry

Date : 2020.03.13 00:15:00
Size : 4 636
Compressed size: 1 205
Crc : 0x27673d3b

content/schema0/table11/table11.xml - ZIP32 entry

Date : 2020.03.13 00:15:00
Size : 1 914
Compressed size: 459
Crc : 0x3ac62b4a

content/schema0/table11/table11.xsd - ZIP32 entry

Date : 2020.03.13 00:15:00
Size : 4 225
Compressed size: 1 157

Crc : 0x407f2c4c

content/schema0/table12/table12.xml - ZIP32 entry

Date : 2020.03.13 00:15:00

Size : 120 827

Compressed size: 23 832

Crc : 0x2ca203b2

content/schema0/table12/table12.xsd - ZIP32 entry

Date : 2020.03.13 00:15:00

Size : 4 483

Compressed size: 1 181

Crc : 0xd7c68f65

content/schema0/table13/table13.xml - ZIP32 entry

Date : 2020.03.13 00:15:00

Size : 66 598

Compressed size: 7 145

Crc : 0x411a06ad

content/schema0/table13/table13.xsd - ZIP32 entry

Date : 2020.03.13 00:15:00

Size : 4 268

Compressed size: 1 159

Crc : 0xad77d6c4

content/schema0/table14/table14.xml - ZIP32 entry

Date : 2020.03.13 00:15:00

Size : 10 793

Compressed size: 1 384

Crc : 0x6a8ecfa9

content/schema0/table14/table14.xsd - ZIP32 entry

Date : 2020.03.13 00:15:00

Size : 4 224

Compressed size: 1 158

Crc : 0x41df102e

content/schema0/table15/table15.xml - ZIP32 entry

Date : 2020.03.13 00:15:00

Size : 22 641

Compressed size: 2 630

Crc : 0x7dea55f1

content/schema0/table15/table15.xsd - ZIP32 entry

Date : 2020.03.13 00:15:00

Size : 4 268

Compressed size: 1 159

Crc : 0x73c84fe6

header/metadata.xml - ZIP32 entry

Date : 2020.03.13 00:15:02

Size : 31 869
Compressed size: 2 707
Crc : 0x32a13032

header/metadata.xsd - ZIP32 entry

Date : 2020.03.13 00:15:02
Size : 33 887
Compressed size: 5 072
Crc : 0x85783ea4

header/siardversion/2.1/ - ZIP32 entry

Date : 2020.03.13 00:15:02
Size : 0
Crc : 0x00000000

36 matching file entries found.

C:\WINDOWS\system32>

Zip64 v2.1.80

Usage

Zip64File implements a command-line *zip64* as well as an API for programmers. The use of the API is documented in the developer's manual and in the javadoc documentation. Here we describe the use of the command-line *zip64*.

zip64 is started by running *zip64.cmd* (for Windows) or *zip64.sh* (for LINUX) or explicitly starting it using the appropriate JAVA executable.

zip64.cmd <arguments>,
zip64.sh <arguments>, or
`java -jar <zip64path>/lib/zip64.jar <arguments>`

where <zip64path> refers to the installation folder of *Zip64File* and <arguments> refers to the following arguments that can be specified on the command-line:

<command> options <zipfile> files...

Command

The command defines the basic operation executed by *zip64*. It must be one of the following:

- n**
for inject overwrites and existing archive or creates a new archive, adding the files,
- x**
for extract extracts the files from the archive, or
- l**
for list lists the files in the archive.

If the first argument is not one of these commands, then **l** is assumed as a default.

Options

If *zip64* is called with the special option **-h** a short explanation of the usage is displayed and all other arguments are ignored.

Otherwise the following options can be used:

option	cmd	meaning
-d:<ziproot>	n, x	external directory relative to which the files will be injected or extracted default: current folder
-c	n	if present, content will be compressed default: uncompressed storage (ZIP64 file is just used as a container)
-r	n, x	if present, the target files will be replaced/overwritten without warning default: processing skips existing file entries and lists them on <i>stderr</i> .
-q	n, x	quiet, do not display output on <i>stdout</i> default: listing on <i>stdout</i>
-z:<comment>	n	adds a comment to the ZIP file

zipfile

Archive file in ZIP format. On input this can be either in ZIP32 or in ZIP64 format. The *zip64* utility will only write archives in the ZIP64 format, even if the content could be stored in ZIP32 format.

files ...

One or more names of files or @ followed by the name of a plain text file containing the names of files to be injected or extracted. (The text file will be read with the JAVA default character set which can be changed by specifying the JVM parameter `file.encoding` on the command line.)

Each filename (on the command line or in the file list) can contain the wildcard characters `?`, `*` or `**`. The `?` indicates a single character at this position in the name. The `*` indicates any number of characters in a file or folder name. It occurs at most once in a file or folder name. `**` indicates any number of characters including the folder separator. It occurs at most once in the full file name. If the *file...* argument is missing, `**` is assumed as a default.

N.B.: Unfortunately the command line is parsed in a half-hearted way by the shell or by JAVA.

Therefore you cannot enter a file template starting with `„**“`. You have to avoid the situation by starting the file name template with another character or use the file name list.

Also you need to be careful not to start a file name with `„/“` on the Windows platform. On this platform `„/“` is treated as a variant of `„-“` and introduces command-line options.

Examples

```
java -jar "C:\Programme\Enter AG\zip64-1.0\lib\zip64.jar" n "-d=C:\Dokumente und  
Einstellungen\Hartwig\Eigene Dateien\SourceFolder" "C:\Dokumente und  
Einstellungen\Hartwig\Eigene Dateien\Test.zip"
```

recursively packs all files in *SourceFolder* into *test.zip* retaining the path name relative to the source folder in the ZIP file. If *test.zip* already existed, the new content is added, unless its name collides with an existing file entry.

```
java -jar "C:\Programme\Enter AG\zip64-1.0\lib\zip64.jar" x "-d=C:\Dokumente und  
Einstellungen\Hartwig\Eigene Dateien\TargetFolder" "C:\Dokumente und  
Einstellungen\Hartwig\Eigene Dateien\Test.zip"
```

recursively extracts all content of *test.zip* into the *TargetFolder*. Existing files in the target folder are not overwritten.

If the two examples are executed one after the other where initially the file *test.zip* did not exist and the target folder was empty, then the target folder ends up with the same content as the source folder.