

## Instructions for creating a CRC SHA256 hash (recommended route, not mandatory)

All required test data samples that the Tenderer wishes to provide must be merged and compressed into a single .zip or .7z file. The open source software 7-Zip ([www.7-zip.org](http://www.7-zip.org)) can be used for this purpose.

Subsequently, the SHA256 hash must be determined. This can be done using 7-Zip via A) the command prompt, or B) the graphical user interface (GUI).

### A) The command prompt

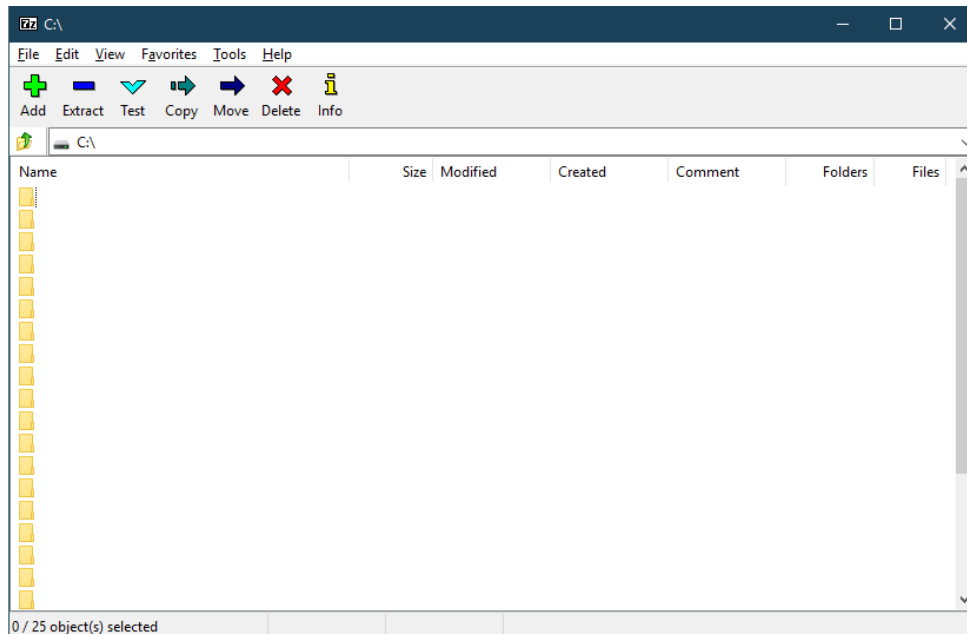
(Windows)

- 1) Open the command prompt, e.g. by:
  - Press the Windows key
  - Type 'cmd'
  - Press Enter
- 2) Type the following command:
  - a. `7z h -scrcsha256 "PATH\TO\YOURFILE"`  
(or, if the above does not work)
  - b. `"PATH\TO\7z.exe" h -scrcsha256 "PATH\TO\YOURFILE"`  
e.g.:  
`"C:\Program Files\7-Zip\7z.exe" h -scrcsha256 "PATH\TO\YOURFILE"`
- 3) Press Enter
- 4) The software will now calculate the hash for your file, which may take a few moments. The hash is a string of 64 characters consisting of the numbers 0 to 9 and the letters a to f.
- 5) Copy the hash and add it to your Tender

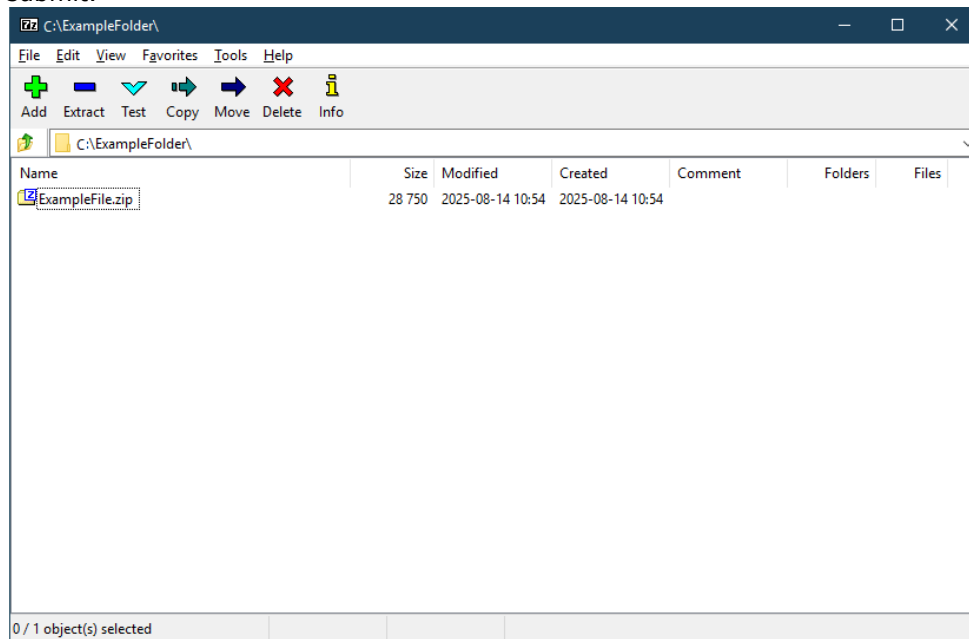
### B) The graphical user interface (GUI)

(Windows)

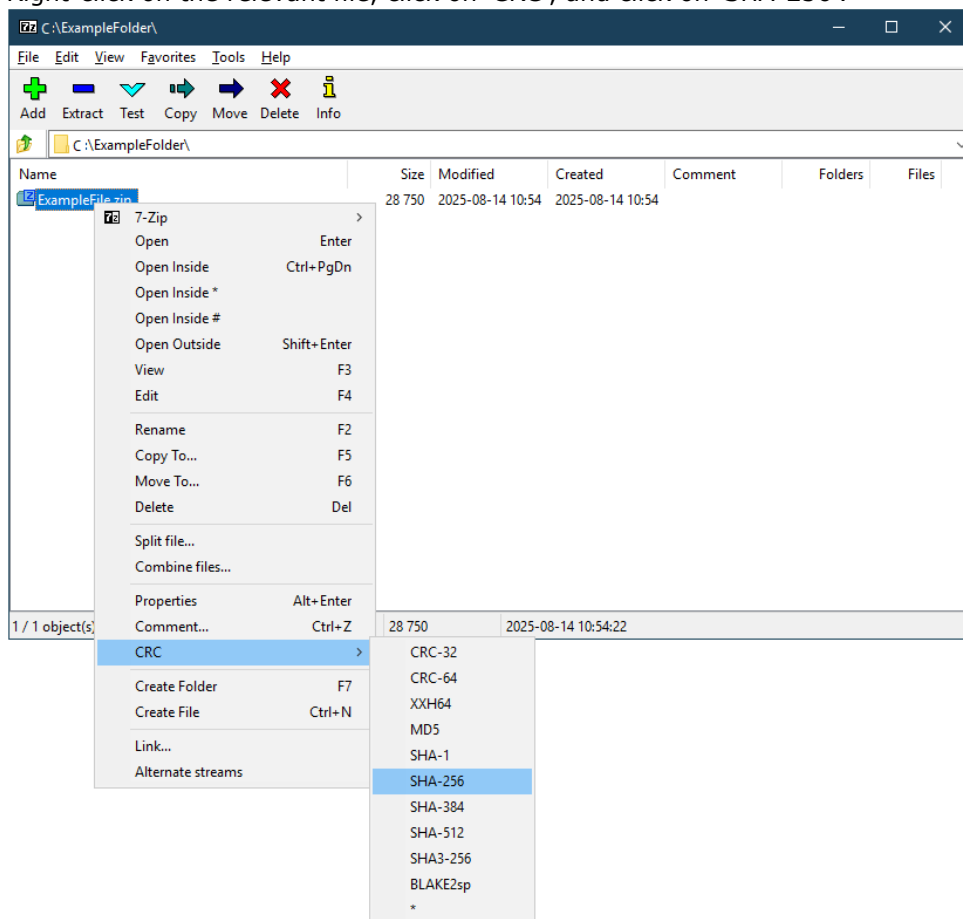
- 1) Open 7-Zip (also '7-Zip File Manager')



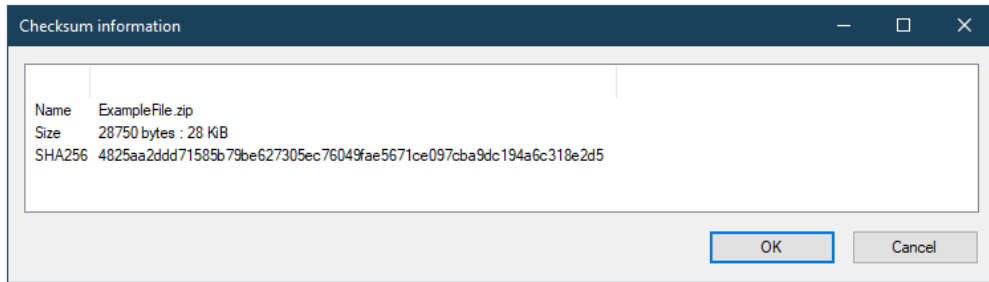
- 2) Navigate to the folder containing the .zip or .7z file you created earlier that you wish to submit.



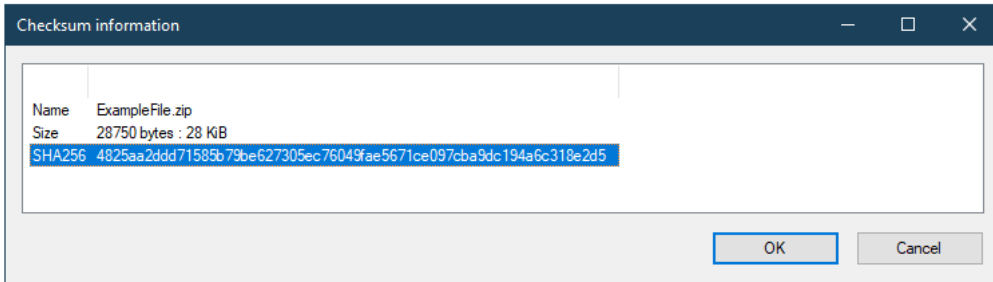
- 3) Right-click on the relevant file, click on 'CRC', and click on 'SHA-256'.



- 4) A new screen will appear showing the checksum.



- 5) Click on the SHA256 hash so that it turns blue.



- 6) Press Ctrl-C to copy the hash to your clipboard.
- 7) Paste the hash into (the price list of) your tender document that you submit via TenderNed.

Please note: the .zip or .7z file does not need to be password-protected. If the Tenderer chooses to encrypt the file with a password, the password must be clearly stated in the tender text accompanying the Tender.