

New issue

Jump to bottom

memory out of bounds read in update_read_icon_info #6010

Closed hac425xxx opened this issue on Mar 31, 2020 · 2 comments

Labels fixed-waiting-test
Milestone 2.0.0

hac425xxx commented on Mar 31, 2020

version

<https://github.com/FreeRDP/FreeRDP/blob/9ef1e81c559bb19d613b4da2d68908ea5d7f9259/libfreerdp/core/window.c#L187>

vuln code

update_read_icon_info first read iconInfo->cbColorTable, iconInfo->cbBitsMask and iconInfo->cbBitsColor from the wStream,

```
static BOOL update_read_icon_info(wStream* s, ICON_INFO* iconInfo)
{
    .....
    Stream_Read_UINT16(s, iconInfo->cbColorTable); /* cbColorTable (2 bytes) */
    break;
}
//
Stream_Read_UINT16(s, iconInfo->cbBitsMask); /* cbBitsMask (2 bytes) */
Stream_Read_UINT16(s, iconInfo->cbBitsColor); /* cbBitsColor (2 bytes) */
```

And then it check cbBitsMask and cbBitsColor

```
if (Stream_GetRemainingLength(s) < iconInfo->cbBitsMask + iconInfo->cbBitsColor)
    return FALSE;
```

Then it could call Stream_Read to read data from s, size is cbBitsMask+cbColorTable+cbBitsColor

```
.....
.....
Stream_Read(s, iconInfo->bitsMask, iconInfo->cbBitsMask);
.....
.....
Stream_Read(s, iconInfo->colorTable, iconInfo->cbColorTable);
.....
.....
Stream_Read(s, iconInfo->bitsColor, iconInfo->cbBitsColor);
.....
```

so when cbBitsMask+cbBitsColor < Stream_GetRemainingLength(s) and cbBitsMask+cbColorTable+cbBitsColor > Stream_GetRemainingLength(s) , it could lead memory out of bounds read

akallabeth added this to the 2.0.0 milestone on Mar 31, 2020

akallabeth added a commit to akallabeth/FreeRDP that referenced this issue on Apr 2, 2020

Fix FreeRDP#6010: Check length in read_icon_info

1237662

akallabeth added the fixed-waiting-test label on Apr 2, 2020

nfedera closed this as completed in 6b2bc41 on Apr 6, 2020

bmiklantz mentioned this issue on May 6, 2020

could you please request some cve for issue 6005~6013 #6027

Closed

carnil commented on May 8, 2020

CVE-2020-11042 was assigned for this issue.

tcillum-rh commented on May 14, 2020

@akallabeth @hac425xxx Does this function accept untrusted input (icon metadata packet) from anywhere or only from an established RDP connection? Trying to assess impact. Thanks.

Assignees

No one assigned

Labels

fixed-waiting-test

Projects

None yet

Milestone

2.0.0

Development

No branches or pull requests

4 participants

