## **Advantech AE Technical Sharing Documentation**

| Date     | 2018 / 04 / 10            | SR#              | 1-3419579963                 |
|----------|---------------------------|------------------|------------------------------|
| Category | 🗌 FAQ 📕 SOP               | Related OS       | WIN10 LTSB                   |
| Abstract | How to use diskpart to sh | nrink volume und | er WIN10 LTSB for PPC series |
| Keyword  | diskpart / WIN10 LTSB / s | shrink volume    |                              |
| Related  |                           |                  |                              |
| Product  | PPC series supporting WI  | NTO LI 2B        |                              |

#### Problem Description:

Customers can use the diskpart command to manage the volume under WIN10 LTSB for PPC series.

#### Brief Solution - Step by Step:

By default, Virtual Disk Manager is not included in the image. When you right click the partition to shrink the volume, you will experience the error as below.

| 📅 Disk Managem                               | ient   |                 |              |   |                |  | -                       |          | $\times$   |          |
|--|--|-----------------|--------------|---|----------------|--|-------------------------|----------|------------|----------|
| File Action Vi                               | ew Help  |                 |              |   |                |  |                         |          |            |          |
| 🔶 🄿 📰 🛛 😰                                    | 🗊 🗩 🗙 🗹  | ) 🔒 🍃 🗉         |              |   |                |  |                         |          |            |          |
| Volume                                       | Layout   | Туре            | File System  | Status  | Capacity       | Free Spa                                 | % Free                  |          |            |          |
| System<br>UNO-2484G-674                      | Simple   | Basic<br>Basic  | NTFS<br>NTFS | Healthy (S<br>Healthy (B                                  | 500 MB         | 172 MB<br>39.34 GB                       | 34 %<br>67 %            |          |            |          |
| <b>Disk 0</b><br>Basic<br>59.63 GB<br>Online | <b>System</b><br>500 MB NTFS<br>Healthy (System, | . Active, Prima | 59           | <b>NO-2484G-67</b> 4<br>9.14 GB NTFS<br>lealthy (Boot, Pa | 11111111       | Dump, Primary F                          | Partition)              |          |            |          |
| Unallocated                                  | Primany partition                                |                 | Vi           | irtual Disk Mana  | rvice cannot b | e started, either I<br>:es associated wi | because it is<br>th it. | disabled | or because | ×<br>eit |
| Ghailocated                                  | Finally partition                                |                 |              |   |                |  |                         |          | ОК         |          |

In this case, you can use the included diskpark function to manage the allocation.

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#### <u>Step1</u>

Open a command prompt as administrator and run the following commands in order.

Explanations can be found in green.

| Administrator: Command Prompt   |
|---|
| C:\Users\Administratorxsc config defragsvc start= demand Enables you to start the defragsvc<br>[SC] ChangeServiceConfig SUCCESS |
| C:\Users\Administrator>sc start defragsvc   |
| out how to reallocate files when you shrink the volume  |
| SERVICE_NAME: defragsvc   |
| TYPE : 10 WIN32_OWN_PROCESS<br>STATE : 2 START PENDING  |
| (NOT_STOPPABLE, NOT_PAUSABLE, IGNORES_SHUTDOWN)   |
| WIN32_EXIT_CODE : 0 (0x0)   |
| SERVICE_EXIT_CODE : 0 (0x0)<br>CHECKPOINT : 0x0   |
| WAIT HINT : 0x7d0   |
| PID : 6140  |
| FLAGS :   |
| C:\Users\Administrator>diskpart Allows you to use diskpart function   |
| Microsoft DiskPart version 10.0.14393.0   |
| Copyright (C) 1999-2013 Microsoft Corporation.  |
| On computer: UNO-2484G-674XA  |
| DISKPART> list volume Gets you the volume info  |
| Volume ### Ltr Label Fs Type Size Status Info   |
|   |
| Volume 0 System NTFS Partition 500 MB Healthy System<br>Volume 1 C UNO-2484G-6 NTFS Partition 59 GB Healthy Boot                |
|   |
| DISKPART> select volume 1 Selects the volume you want to shrink from  |
| Volume 1 is the selected volume.  |
|   |
| DISKPART> shrink desired=10240 Set the size you want to create, for ex. 10GB  |
| DiskPart successfully shrunk the volume by: 10 GB Indicates the action is completed   |
| DISKPART> exit  |
| Leaving DiskPart  |
| C:\Users\Administrator>   |

Once seen the last command, enter exit to exit diskpart.

#### <u>Step2</u>

Now you will be able to see a created unallocated partition.

| 📅 Disk Management |   |                   |                  |              |                         | -      | $\times$ |
|-------------------|---|-------------------|------------------|--------------|-------------------------|--------|----------|
| File Action View  | Help                                      |                   |                  |              |                         |        |          |
| -                 | 🗩 🗙 🖸 🔓 🍃                                 | <b>3</b>          |                  |              |                         |        |          |
| Volume            | Layout Type                               | File System       | Status           | Capacity     | Free Spa                | % Free |          |
| 📟 System          | Simple Basic                              | NTFS              | Healthy (S       | 500 MB       | 172 MB                  | 34 %   |          |
| 🛲 UNO-2484G-674x  | Simple Basic                              | NTFS              | Healthy (B       | 49.14 GB     | 29.18 GB                | 59 %   |          |
|                   |   |                   |                  |              |                         |        |          |
|                   |   |                   |                  |              |                         |        |          |
|                   |   |                   |                  |              |                         |        |          |
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|                   |   |                   |                  |              |                         |        |          |
|                   |   |                   |                  |              |                         |        |          |
|                   |   |                   |                  |              |                         |        |          |
|                   |   |                   |                  |              |                         |        |          |
|                   |   |                   |                  |              |                         |        | <br>     |
| - Disk 0          |   |                   |                  |              |                         |        |          |
|                   | stem //////////////////////////////////// | UNO-2484G-674     | xAE (C:)         |              |                         |        |          |
|                   | MB NTFS                                   | 49.14 GB NTFS     | an Eile, Crach D | Drimon U     | 10.00 GB<br>Unallocated |        |          |
| He                | althy (System, Active, F                  | Healthy (Boot, Pa | ge rile, Crash D | ump, Primary | Unanocated              |        |          |

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#### <u>Step3</u>

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Not we will activate the created partition for use.

C:\Users\Administrator>diskpart Microsoft DiskPart version 10.0.14393.0 Copyright (C) 1999-2013 Microsoft Corporation. On computer: UNO-2484G-674XA DISKPART> list disk Disk ### Status Size Free Dyn Gpt Disk 0 Online 59 GB 10 GB DISKPART> select disk 0 Perform similar tasks in step2 and select disk again Disk 0 is now the selected disk. DISKPART> create partition primary size=10240 DiskPart succeeded in creating the specified partition. **DISKPART>** list partition Get the partition info Partition ### Type **Offset** Primary Partition 1 500 MB 1024 KB Partition 2 Primary 49 GB 501 MB Partition 3 Primary 10 GB 49 GB DISKPART> select partition 3 Select the unallocated partition Partition 3 is now the selected partition. DISKPART> format fs=ntfs quick Quick format to NTFS 100 percent completed DiskPart successfully formatted the volume. DISKPART> assign Assign a letter to the partition DiskPart successfully assigned the drive letter or mount point. DISKPART> active Activate the partition DiskPart marked the current partition as active. DISKPART> exit Leaving DiskPart... Users\Administrator

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### <u>Step4</u>

Once exit the diskpart from command line, you should a usable partition created.

| ew               |  |                       |                     |                                   |              |                    |                 |             |  |
|------------------|--|-----------------------|---------------------|-----------------------------------|--------------|--------------------|-----------------|-------------|--|
|                  | Help   |                       |                     |                                   |              |                    |                 |             |  |
| ÞE               | 🗩 🗙 🗹 🛙  |                       |                     |                                   |              |                    |                 |             |  |
|                  |  | уре                   | File System         | Status                            | Capacity     | Free Spa           | % Free          |             |  |
|                  |  | Basic                 | NTFS                | Healthy (A                        |              | 9.97 GB            | 100 %           |             |  |
|                  |  | Basic<br>Basic        | NTFS<br>NTFS        | Healthy (S<br>Healthy (B          | 500 MB       | 172 MB<br>29.18 GB | 34 %<br>59 %    |             |  |
|                  | Simple D   | asic                  | NIIS                | Treating (b                       | 43.14 00     | 23.10 00           | 33 76           |             |  |
|                  |  |                       |                     |                                   |              |                    |                 |             |  |
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|                  |  |                       |                     |                                   |              |                    |                 |             |  |
|                  |  |                       |                     |                                   |              |                    |                 |             |  |
|                  |  |                       |                     |                                   |              |                    |                 |             |  |
|                  | tem  |                       | UNO-2484G-67        | 4xAE (C:)                         |              | (D:)               |                 |             |  |
| 500              | MB NTFS  | .                     | 49.14 GB NTFS       |                                   | D :          | 10.00 GB NT        |                 | Dentition 1 |  |
| le               | althy (System, Pr  | imary                 | Healthy (Boot, Pa   | age File, Crash Du                | ump, Primary | Healthy (Act       | ive, Primary    | Partition)  |  |
| im               | ary partition  |                       |                     |                                   |              | <u> </u>           |                 |             |  |
| <sup>o</sup> rim | ary partition  |                       |                     |                                   |              |                    | ,               |             |  |
| dina.            |  | This PC               |                     |                                   |              |                    | ,               |             |  |
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| Fi               | e Comput<br>→ ✓ ↑ [<br>↓ Quick access<br>Desktop<br>↓ Downloads                                | er \<br>> T<br>5<br>% | his PC<br>~ Folders |                                   |              |                    | Docur           | nents       |  |
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| Fil              | e Comput<br>→ ✓ ↑ [<br>↓ Quick access<br>Desktop<br>↓ Downloads                                | er \<br>> T<br>5<br>% | his PC              |                                   |              |                    | Docur<br>Pictur |             |  |
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| Fil<br>←         | e Comput<br>→ ✓ ↑<br>↓ Quick access<br>Desktop<br>↓ Downloads<br>≧ Documents<br>► Pictures     | s ver v               | his PC              | Desktop<br>Music                  |              |                    | Pictur          |             |  |
| Fil ←            | e Comput<br>→ ✓ ↑<br>Quick access<br>Desktop<br>Documents<br>Documents<br>Pictures<br>OneDrive | s ver v               | his PC              | Desktop<br>Music<br>and drives (2 | xAE (C:)     |                    | Pictur<br>Local | es          |  |

diskpart-related

https://technet.microsoft.com/zh-tw/library/cc731894(v=ws.11).aspx https://www.disk-partition.com/diskpart/shrink-volume-4125.html