Cloning Windows® 7, 8, and 10 with Legacy Logicube® Duplicators

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1.0 Introduction

This document provides guidelines on how drives with Windows 7, Windows 8/8.1, and Windows 10 can be cloned using the following legacy Logicube drive duplicators:

- Echo Plus™

- OmniClone™ 2Xi, 5Xi, 10Xi

- OmniSAS™

- SuperSonix®

- ZClone™

1.1 Cloning to Smaller Capacity Drives

Target drives should be at least the same capacity or larger than the Master drive. Specifically, each Target drive must have the same number of sectors (or Logical Block Addresses/LBAs) or a larger number of sectors or LBAs than the Master.

If the Master drive is larger in capacity than any Target drive, it is still possible to clone the drive, but there are some adjustments that will need to be made to the Master drive. The following applies to any Operating System:

- The total partition sizes on the Master drive need to be adjusted to be less than the capacity/size of the smallest Target drive.

- The partitions on the Master drive need to be adjusted so that the free/unallocated space is at the end of the drive.

> It is highly recommended to make a backup copy of the Master drive by performing a Mirror copy of the drive to make sure there is an exact duplicate backup of the Master drive before changing partition sizes and positions.
>
> Logicube cannot provide support on how to re-size, shrink, or move partitions. There are several articles and software/utilities/tools available on the internet on how to re-size, shrink, or move partitions.
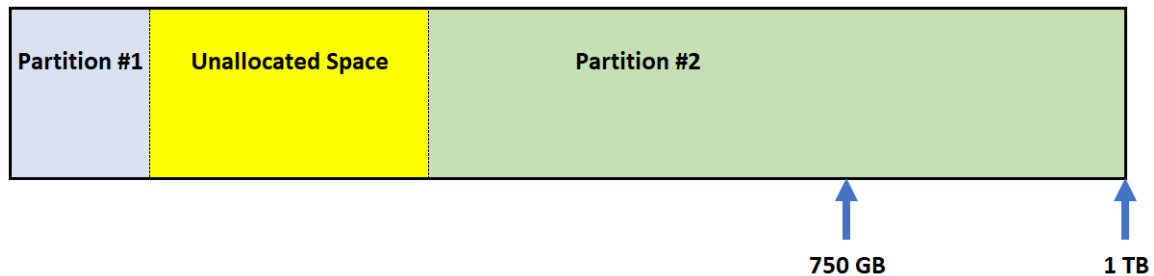
Sample original drive (1 TB drive):

Partition #1	Partition #2

1 TB

Sample of a properly adjusted drive (from a 1 TB drive to fit a 750 GB drive):

Partition #1	Partition #2	Unallocated Space

750 GB   1 TB

Sample of an adjusted drive that will not work (from a 1 TB drive to fit a 750 GB drive):

Partition #1	Unallocated Space	Partition #2

750 GB   1 TB

Once the partitions have been adjusted to properly fit the Target drive, it can be cloned using any of the cloning methods. Depending on the Operating System, cloning method, and Logicube device used, there may be limitations to cloning the drive. See *Section 1.4* for limitations based on the cloning method, drive capacities, and Logicube Device being used.

1.2   Partitioning Schemes

There are two common partitioning schemes currently being used for Windows 7, Windows 8/8.1, and Windows 10: MBR and GPT. Both partitioning schemes are supported with the Logicube products listed in this document.

MBR (Master Boot Record) – An older partitioning scheme.

GPT (GUID Partition Table) – A newer partitioning scheme.

1.3   Cloning Methods

Different cloning methods are available on each of the Logicube products listed at the beginning of this document. Please refer to the respective User's Manual of your Logicube device for complete instructions on how to use each cloning method.

1.3.1 Mirror Copy Method

All the Logicube products listed at the beginning of this document have the Mirror Copy method and will support the cloning of any Operating System using this method. Mirror Copy method performs a bit-for-bit copy of the Master drive, producing an exact duplicate of that drive.

1.3.2 Clever Copy Method

All the Logicube products listed at the beginning of this document have the Clever Copy method (an additional option for the OmniClone Xi) and will support the cloning of any Operating System using this method. Clever Copy copies only the sectors with data from the Master drive.

1.3.3 Selective Partitions Method

Selective Partition Copy method allows you to specify how each partition is going to be copied (Mirror or Clever) and is available only on the following products:

- OmniClone Xi (an additional software option)
- OmniSAS
- SuperSonix

1.4 Echo Plus Cloning Limitations

The Echo Plus has two cloning methods available and has the following limitations:

1.4.1 Mirror Copy Limitations

- The Target drives should be the same capacity or larger. If the Target drive is smaller in capacity, please see *Section 1.1*.

1.4.2 Clever Copy Limitations

- Windows 7, 8/8.1, or 10 is not supported with Clever Copy. Use Mirror Copy method.

1.5 OmniClone 2Xi/5Xi/10Xi Cloning Limitations

The OmniClone Xi series has three cloning methods available and has the following limitations:

1.5.1 Mirror Copy Limitations

- The Target drives should be the same capacity or larger. If the Target drive is smaller in capacity, please see *Section 1.1*.

- Set the percentage setting to clone the proper percentage of the drive (for example, if the Target drive is 750 GB and the Master is 1 TB, clone no more than 75% of the drive).

> If the partitions are not adjusted and the percentage setting is not set, the cloning task may start, but will not copy any data past the capacity of the Target drive.

1.5.2 Clever Copy Limitations (available as an option)

- The Master drive must use the MBR partitioning scheme.

- The Master drive must contain no more than 3 partitions.

- The Operating System partition must be the last partition on the drive.

- The Target drives should be the same capacity or larger. If the Target drive is smaller in capacity, please see *Section 1.1*.

- Windows 8, 8.1, and 10 were released after the last OmniClone Xi software was released and although not officially supported, may work when using Clever Copy. If Clever Copy does not work, try the Selective Partitions method or Mirror Copy.

1.5.3 Selective Partitions Limitations (available as an option)

- The Master drive must use the MBR partitioning scheme.

- The Master drive must contain no more than 3 partitions.

- The Operating System partition must be the last partition on the drive.

- The Target drives should be the same capacity or larger. If the Target drive is smaller in capacity, please see *Section 1.1*.

- All System Restore, Recovery, and OEM partitions should set to Mirror and the Operating Partition (last partition on the list) should be set to Clever.

- Windows 8, 8.1, and 10 were released after the last OmniClone Xi software was released and although not officially supported, may work when using Selective Partitions. If Selective Partitions does not work, use Mirror Copy.

1.6 OmniSAS Cloning Limitations

The OmniSAS has three cloning methods available and has the following limitations:

1.6.1 Mirror Copy Limitations

- The Target drives should be the same capacity or larger. If the Target drive is smaller in capacity, please see **_Section 1.1_**.

- Set the percentage setting to clone the proper percentage of the drive (for example, if the Target drive is 750 GB and the Master is 1 TB, clone no more than 75% of the drive).

> _i_   If the partitions are not adjusted and the percentage setting is not set, the cloning task may start, but will not copy any data past the capacity of the Target drive.

1.6.2 Clever Copy Limitations

- Windows 7, 8/8.1, or 10 is not supported with Clever Copy on the OmniSAS. Use Mirror Copy.

1.6.3 Selective Partitions Limitations

- The Windows 7, 8/8.1, or 10 is not supported with Selective Partitions on the OmniSAS. Use Mirror Copy.

1.7 SuperSonix Limitations

The SuperSonix has three cloning methods available and has the following limitations:

1.7.1 Mirror Copy Limitations

- The Target drives should be the same capacity or larger. If the Target drive is smaller in capacity, please see **_Section 1.1_**.

- Set the percentage setting to clone the proper percentage of the drive (for example, if the Target drive is 750 GB and the Master is 1 TB, clone no more than 75% of the drive).

> _i_   If the partitions are not adjusted and the percentage setting is not set, the cloning task may start, but will not copy any data past the capacity of the Target drive.

1.7.2 Clever Copy Limitations

- The Master drive must use the MBR partitioning scheme.

- The Master drive must contain no more than 3 partitions.

- The Operating System partition must be the last partition on the drive.

- The Target drives should be the same capacity or larger. If the Target drive is smaller in capacity, please see *Section 1.1*.

- Windows 10 was released after the last SuperSonix software was released and although not officially supported, may work when using Clever Copy. If Clever Copy does not work, try Selective Partitions or Mirror Copy.

1.7.3 Selective Partitions Limitations

- The Master drive must use the MBR partitioning scheme.

- The Master drive must contain no more than 3 partitions.

- The Operating System partition must be the last partition on the drive.

- The Target drives should be the same capacity or larger. If the Target drive is smaller in capacity, please see *Section 1.1*.

- All System Restore, Recovery, and OEM partitions should set to Mirror and the Operating Partition (last partition on the list) should be set to Clever.

- Windows 10 was released after the last SuperSonix software was released and although not officially supported, may work when using Selective Partitions. If Selective Partitions does not work, use Mirror Copy.

1.8 ZClone Limitations

The ZClone has two cloning methods available and has the following limitations:

1.8.1 Mirror Copy Limitations

- The Target drives should be the same capacity or larger. If the Target drive is smaller in capacity, please see *Section 1.1*.

- Set the percentage setting to clone the proper percentage of the drive (for example, if the Target drive is 750 GB and the Master is 1 TB, clone no more than 75% of the drive).

1.8.2   Clever Copy Limitations

- All System Restore, Recovery, and OEM partitions should not be expanded.

- The Target drives should be the same capacity or larger. If the Target drive is smaller in capacity, please see **Section 1.1**.

- Windows 10 was released after the last ZClone software was released and although not officially supported, may work when using Clever Copy. If Clever Copy does not work, use Mirror Copy.

1.9   Look-Up Charts - Introduction

Here are two quick look-up charts for Windows 7, 8/8.1, and 10. The first chart is for Master drives with the MBR partitioning scheme (maximum capacity is 2TB). The second chart is for Master drives with the GPT partitioning scheme.

The following chart is for Windows 7, 8/8.1, and 10 with the MBR partitioning scheme:

Product	Minimum Software Requirement	Mirror Copy	Clever Copy	Selective Partitions
Echo Plus	2.5	Yes See **Section 1.4.1** for limitations	No	N/A
OmniClone 2Xi/5Xi/10Xi	1.7RC59	Yes See **Section 1.5.1** for limitations	Yes See **Section 1.5.2** for limitations	Yes. See **Section 1.5.3** for limitations
OmniSAS	4.08	Yes See **Section 1.6.1** for limitations	No	No
SuperSonix	1.83RC49	Yes See **Section 1.7.1** for limitations	Yes See **Section 1.7.2** for limitations	Yes See **Section 1.7.3** for limitations
ZClone	1.06RC11	Yes See **Section 1.8.1** for limitations	Yes See **Section 1.8.2** for limitations	N/A

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The following chart is for Windows 7, 8/8.1, 10 with the GPT partitioning scheme:

Product	Minimum Software Requirement	Mirror Copy	Clever Copy	Selective Partitions
Echo Plus	2.5	Yes See *Section 1.4.1* for limitations	No	N/A
OmniClone 2Xi/5Xi/10Xi	1.7RC59	Yes See *Section 1.5.1* for limitations	No	No
OmniSAS	4.08	Yes See *Section 1.6.1* for limitations	No	No
SuperSonix	1.83RC49	Yes See *Section 1.7.1* for limitations	No	No
ZClone	1.06RC11	Yes See *Section 1.8.1* for limitations	Yes See *Section 1.8.2* for limitations	N/A

Technical Support Information

For further assistance please contact

Logicube Technical Support at: (+1) 818 700 8488 7am-5pm PST, M-F

(excluding US legal holidays)

or by email to **techsupport@logicube.com**

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