

*** Before using attention fact**

root partition(/) must be placed on one physical disk.

(software raid is not supported.)

root partition(/) and /boot partition is only backedup.

Tested linux type : redhat(ext3), fedora, ubuntu, centos

*** REVIVE works in the following order:**

1. In case of executing on BIOS(USB Booting)

- a. Plug a USB device to a computer.
- b. Turn on the computer
- c. Boot from the USB device.
 : Refer to <http://recoveryos.com/bios.html>
 : Contact to PC's manufacturer or refer to **Boot from a USB device section.**
- d. Select either Back-up or recovery depending on REVIVE menu.
- e. The computer will be automatically turned off upon completion of the job.

*** Boot from a USB device.**

All USB devices herein such as a USB storage device, a USB HDD, a USB disk, etc. are considered as the same USB device. The below mentioned LG XTIC is a USB device used as a sample for REVIVE. Therefore, select an appropriate model name instead of LG XTIC upon your device.

1. Using a quick booting

Turn on computer and immediately press a quick booting key (i.e. F12, ESC, ...) to select a booting device from the list. Choose a USB storage device or USB model name (i.e. LG XTIC) and press Enter. A quick booting menu statement will appear on the top or bottom area of the screen when the computer is turning on, i.e. "F12 = Boot menu" or "Press F11 key to run Boot Menu". A booting menu key may vary upon a manufacturer or by main board models.

Example)

- Dell series : F12 -> Usb Storage Device -> Enter
- Dell inspiron series : ESC -> USB Storage -> Enter
- SAMSUNG : ESC -> USB HDD : LG XTIC -> Enter
- LG : F11 -> LG XTIC(USB disk) -> Enter
- HP : F9 -> LG XTIC(USB disk) -> Enter
- TG(AVERATEC) : F11 -> USB:(LG XTIC) -> Enter
- Asus : F8 -> USB:(LG XTIC) -> Enter
- MSI : F11 -> USB HDD -> Enter
- GIGABYTE : F12 -> Hard Disk -> USB HDD0(LG XTIC) -> Enter

2. Using a BIOS configuration

Such keys as Del, F2, or F10 are generally used for a BIOS configuration.

(Refer to the section 4.3 How to boot from a USB device.)

Read a user's PC guide about a main board or go on to <http://itsoul.org/download.html> and refer to BIOS boot sequence guide from manufacturer instructions regarding each PC or BIOS.

3. Requesting to PC's manufacturer

Ask a customer service of pc's manufacturer, i.e. "How can I boot computer from a USB device?"

*** Main terms**

About Hard disks:

Sda, sdb, sdc, ... , etc. represents a physical hard disk.

Since these hard disks are named by serial numbers, the order may vary.

Sda1, sda2, sda5, sdb1, sdc1, ..., etc., called as a partition appears when the system formats a hard disk for use.

-Does not support multi OS.

-The filesystem format of the storage disk should be NTFS or ext3.

*** Simple use of REVIVE**

| Back up my computer | |
|--------------------------------|---|
| 1. Booting | Boot from a USB device (Refer to CMOS Setup boot sequence of the PC) |
| 2. Back up | Select 1. Backup from the menu |
| 3. Automatic turn off computer | Automatically turn off computer upon completing a back up. |
| Restore my computer | |
| 1 Booting | Boot from a USB device |
| 2. Recovery | Select 2. Recovery from the menu |
| 3. Automatic turn off computer | Automatically turn off computer upon completing a recovery. |
| Recovery on new hard disk | |
| 1. Booting | Boot from a USB device |
| 2. Advanced menu | Select 3. Advanced menu from the menu |
| 3. Recovery on new hard disk | Select 1. Recovery on new hard disk from the menu |
| 4. Automatic turn off computer | Automatically turn off computer upon completing a recovery. |

(Table 1) Simple manual on how to use REVIVE

■ Backup: (Boot from a USB) -> 1 (Backup) -> Select the designated partition number -> back up completed.

■ Recovery: (Boot from a USB) -> 2 -> recovery completed.

■ Recovery BOOT: (Boot from a USB) -> 3 -> 3 -> recovery completed.

■ Revoery on new harddisk: (Boot from a USB) -> 3 -> 1 -> Select the designated disk number -> recovery completed.

Contents

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Recovery for Linux system in progress.
Elapsed time: 0:0:30

Recovery for Linux system in progress on new harddisk.
Elapsed time: 0:10:44
Recovery completed successfully.
System will be powered off in 5 seconds.

(Fig 11) Recovery screen

2-2. Recovery MBR

Select #2 from (2. Advanced menu) to restore MBR section. This is to restore all the information on the hard disk by restoring partition within seconds when the system fails i.e. partition information of the MBR section is damaged by virus or others.

Recovery for Linux MBR in progress.
Elapsed time: 0:00:20
Recovery completed successfully.
System will be powered off in 5 seconds.

(Fig 13) Recovery MBR

2-3. Recovery BOOT

Select #3 from (2. Advanced menu) to restore Boot section. This is to restore all the information on the hard disk when the booting process fails due to a user's mistakes or boot partition or related file error.

Recovery for Linux GRUB in progress.
Elapsed time: 0:01:44
Recovery completed successfully.
System will be powered off in 5 seconds.

(Fig 14) Recovery BOOT

2-4. Low level format of system disk

Initializes all data in the hard disk containing C:# drive making them impossible to be restored.

Data leaking through a used computer has become one of the biggest security issues in personal information. Use this command when throwing a used computer away so as to make impossible to restore old data for security reason.

2-5. Low level format of system disk

Initializes all data in the entire hard disk of computer making them impossible to be restored.

2-6. Low level format of system disk

Initializes all data in a USB hard disk connected to a computer making them impossible to be restored. More secure when throwing a used computer away.

2-7. Exit(Power off)

Select #4 to finish the program and turn off computer.

2-8. Return main menu

Select #5 to return to the main menu.

3. Error codes

| Error code | Description |
|------------|---|
| 3 | Cannot find a partition of the system hard disk for back-up. Check if a corresponding OS is installed on the system for back up. |
| 5 | Integrity test is to be conducted on the back-up zip file. Back up the files again if this error occurs. |
| 8 | This error may occur when extracting the compress file to restore the back-up images. Check bad sectors on the designated hard disk for back up. If the same error occurs more than 2 times, replace a new hard disk. |
| 9-1, 9-2 | Files are damaged during the compression due to bad sectors on the system partition or the backup storing area or connection cable defects. If the same error keeps occurring, please contact to our office. |
| 13 | Storage spaces on a USB device are not sufficient for the back-up image. Reduce the size of the hard disk for back-up, or buy a larger capacity USB device. |
| 14 | Does not support multi OS. |

4. Notes

REVIVE is designed to always exclude REVIVE folder of the system disk for back up. Therefore, moving files which are not needed for back up would be helpful to reduce the image size and performance time for back up.

4.1 Reducing a hard disk size for back up

1) Create REVIVE folder on /.

2) Move (not Copy, but Cut and Paste) files in large sizes such as movie files, zip files, image files, etc. which are not needed for back up to REVIVE folder.

3) Start REVIVE program.

4.2 Notes for replacing a new hard disk

The same model and same size of a hard disk is recommended for replacing, if needed. You can not use the entire size of a hard disk larger than the old one.

* Do not use a hard disk of which size is smaller than the old one

4.3 Running time and Backup capacity

1) Backup and recovery time

- 15GB : around 40 -80 minutes

2) 8GB USB : Backup capacity is around 15GB.

16GB USB : Backup capacity is around 30GB.

5. License policy

| Product types | Back-up | Restore |
|--------------------|--|--|
| Household | 1 PC (unlimited back-up) | 1 PC |
| Group(corporation) | 1 PC (unlimited back-up) | Determined separately |
| Server | 1 Server (unlimited back-up times) | Determined separately |
| customized | Customized capacity upon requesting | Customized capacity upon requesting |

6. Warranty

Product warranty

- ITSoul warrants this product to be free from defects in material and workmanship and agrees to remedy any such defect as stated below.
- Please contact ITSoul or dealers for requesting product repairs.
- Detail information about rewards or repairs will be informed within 7 days from the request and the damage rewards will be addressed within 14 days from the informed date.

| | | | |
|--------------------------|--|-------------|------------|
| Product name: | REVIVE | Model name: | REVIVE-WIN |
| Date purchased: | (yyyy/mm/dd) | SERIAL NO. | |
| Place purchased: | | Price: | |
| Customer service center: | EXPO officetel 1-cha #806, 381 Mannyeon-dong, Seo-ku, Taejun city Email: support@itsoul.co.kr , Tel: +82 (0)42-364-4537 | | |

Free service

If the product has problems, we offer free service within warranty period (1 year from the purchase)

| Problems | | Coverage | |
|---|--|------------------------|--|
| | | Within warranty | After warranty |
| 1. Within 10 days from the purchase of merchandise, functional and/or performance errors occurs while using a product in normal circumstance and needs substantial repairs 2. Can not use a product due to the failure in compatibility with computers.. | | Exchange or Refund | |
| Within a month from the purchase of merchandise, functional and/or performance errors occurs while using a product in normal circumstance and needs substantial repairs | | Exchange | |
| Repair available | Products fails more than 3 times because of the same issue | Free of charge service | Service in charge |
| | Products fails 4 th times because of the same issue | Exchange or refund | Service in charge |
| Repair unavailable | Repair is unavailable (with repair parts) | Exchange or refund | Exchange after taking depreciation deductions |
| | Repair is unavailable (without repair parts) | Exchange or refund | Exchange after taking depreciation deductions and adding 10% |

Service in charge

If the product fails due to Mother Nature or by mistakes of the users, or forservice requested for product without failure, we offer the service in charge. Read the manual carefully for more information.

| | |
|--|---|
| When more explanation on product features is required or adjustment for products without disassemble requested | Free of charge for the 1 st request Service charge from a 2 nd request |
| When products need to be reassembled in accordance with relocation or move | Service charge from the 1 st request |

Warranty exceptions

We are only liable for exchange or repair for products and not responsible for the following cases regarding products

1. Other loss or damages relating to the products, i.e. loss due to the inconvenience of using products, loss by using products, time loss, potential loss on trade opportunities, credit loss, data loss, software loss, alternative equipment costs, potential damages of trade relationship, claim by the 3rd party, or other commercial loss, even if the product had potential for such loss and/or damages.
2. Other loss by accident
3. Claims requesting from the 3rd party to the user

* As warranty statement is not reissued, keep it in safe.