While Data Compass (DC) is being used, you may always meet such circumstance that after the HDD is connected to DC, the WINDOWS will load and scan the partition automatically as an external disk. For those drives with multiple bad sectors, scanning the partition will probably result in the system block or a series of problems like, slow operation system.

In the past, the solution to this problem is closing the read function before connecting HDD so once DC start to operate it can’t read the MBR of the HDD to load the partition. But this solution can only avoid loading the partition when DC start to operate, not able to solve the reloading the partition when meet unstable system. In other words, once there is time out in reading the bad sectors (which occurs in reading some bad sectors), the system will estimate the system as unstable and automatically reload the partition.

There is another solution—hiding the LBA, which ensures that it will not load the partition at any time. But the disadvantage is that it can’t boot the DBR via MBR, in other words, you can’t see the partition when you load the DC. At the same time, hiding some LBA will result in the LBA mismatch. Even though you use fast scan, you can still not go to the accurate partition because of mismatch.

Regarding this particular problem, SalvationDATA upgrade the DCEXP again to add a program to the previous hiding LBA function: when you input the LBA manually (always behind sector 1), the program will automatically hide the LBA(MBR sector) to the OS will not load the partition. Via this additional software, the DCEXP will automatically analyze the hiding LBA, thus load the partition smoothly.

This case study will validate the new function based on this upgrade.

First, properly connect hard disk with DC and start it. After the system detect the new hardware and detected it as HDD Driver, then load the driver. The driver will be installed successfully after a while, the system will began to load the partitions automatically, and scan the file directory.

As the status of this drive is good, the scan will be complete soon. While to some drives with serious defects, there will waist a lot of time or the program will be stuck.

**Start the control panel:**

Any operation will be prohibited at the beginning. Make a comparison for the change of the sector before and after the hidden LBA first, and then switch to "sector view" interface to check the MBR Sector:
View DBR Sector:

From the above two pictures, we can see all the sectors are totally normal. Then hide the first sector and change the LBA into "1", and save:

Switch to the “sector view” interface again to view MBR Sector:
From above, we can see that the MBR Sector has been changed a lot and all the data has been showed as "0":

View DBR Sector:

Also the 63rd sector also has been changed a lot. That is because we have hidden the first sector, the sector which is filled with "0" is the hidden sector and the 63rd sectors now is the former 64th sector; and the DBR sector is presently the 62nd sector.

Now, all these content have been hided, then we click save and program will default this operation. For OS, it will access 0 sector after the device been detected. However, as the present 0 sector actually is previous 1 sector, this entirely sector is 0 and cannot load partition. But with DCEXP's built in program, it is able to analysis all these concealing sector and read out all HDD sector.
Open DCEXP program and load HDD

Partition was loaded smoothly after a few seconds.

It can bring a great deal of convenience for data recovery users by flexibly using hidden sector features and also avoid the annoyance of automatically loading partition.