MD DATA File System Check

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Introduction

In a formatted MD DATA disc, management information for directories and files is stored in the specific area. MDFSCHK is an utility to check logical conformance of this file management information.

When the system is terminated without standard shutdown procedure due to unexpected power down for instance, management information on the disc may be out of order.   If you continue using such a inconsistent disc, the influence may spread over other normal file information to be invalid.   In order to avoid this kind of problem, you can check validity of file management information on an MD DATA disc with this utility.   You can not check file contents (data in the file) with this utility. This utility functions only with Sony MD DATA drive for any MD DATA media.

To select a drive

   This utility searches for all Sony MD DATA drive(s) connected to the system at the beginning.   The first drive found is shown in "Drive" box.   To select another MD DATA drive connected to the system,   click on a button at the right end of "Drive" box and select the drive in a drop-down list box.

To start checking

  Confirm that the disc to be checked is loaded in the drive.   Be sure that any other application or utility is not opening nor accessing the disc.   Click on the   "START" button to execute the checking operation.   During the operation, any other application can not access to the MD DATA drive.   The progress of the operation is indicated by a bar graph.

To abort checking

   The "CLOSE" button alters to "CANCEL" button during the checking operation. To abort the checking operation, click on the "CANCEL" button.
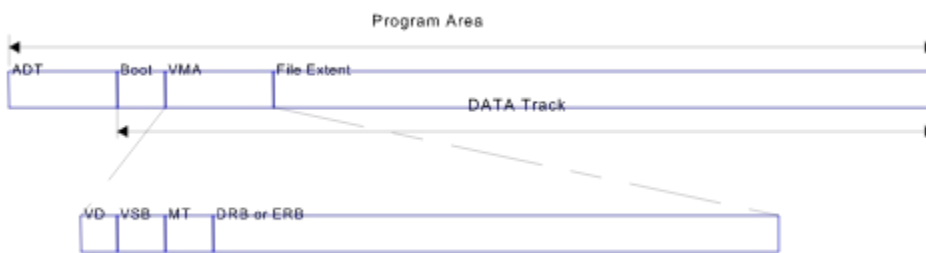
To close this utility

Click on the "CLOSE" button to terminate this utility.

What is MD DATA File System

MD DATA is a format based on an Audio Mini Disc format adding Volume/File management specification for handling data file to be a general digital data media. The MD DATA format is usable for a computer storage device by defining it as an exclusive file system appropriate for the following requirements.

 - The management strategy of volume and file structure which is optimized
   for MD DATA device hardware.
 - Use of non-computer applications such as consumer electronic products.
 - A file system which is independent of OS or PC platform.

Logical Structure of MD DATA disc

Program Area   The whole recordable area available for user on a disc.
    DATA Track   The area handled by MD DATA File System.
    ADT   Alternative data track for defect management.
    Boot   Boot area (not used).
    VMA   Volume Management Area.
    File Extent Data of a file content.
    VD   Volume Descriptor
    VSB   Volume Space Bitmap.
    MT   Management Table for VMA.
    DRB, ERB   The area for recording name, file, linkage and other
                 information of each file.

The MDFSCHK utility checks logical consistency of VMA on an MD DATA disc. File contents (data in the file) are not checked by this utility.