Antivirus Knoppix bootable CD with read/write access to NTFS volumes

Case Study

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Task Description

We were contacted by a large customer to integrate our NTFS for Linux driver into the special antivirus bootable CD based on Knoppix. It enabled the ability to boot from this special CD and check for and repair viruses on NTFS partitions. Additionally the data streams from NTFS located files can be read and checked for the virus content.

Solution

We faced two tasks:

- Integration of NTFS for Linux driver into bootable CD based on Knoppix;
- Implementing support of the alternate data streams for NTFS partitions.

NTFS for Knoppix

The main part of this task didn't represent anything in particular for us as we have been already developing our own Linux Bootable Recovery CD with the pre-installed NTFS for Linux driver for one year. It just was another Linux distribution that was added to our assets.

NTFS Streams Support

By that moment our driver had not supported NTFS streams. The driver was updated for supporting this NTFS feature. It took us about two weeks to implement this new functionality.

Results

The customer obtained suitable, secure and portable check/repair solution – bootable CD based on Knoppix that enabled to check for and repair viruses on NTFS partitions without booting Windows that can be infected. Additionally, alternate data streams of files on NTFS partitions can be read and checked for virus contents.

New functionality was implemented into NTFS for Linux driver – NTFS alternate data streams.