

HI★TRACK 4

Database Manager

Overview

HITRACK 4's Database Manager is a small utility providing several essential features. This document explains the tool and its features.

Note that all features (except simple backups) should be used under the direction of the HITRACK Help Desk.

Footprint

The Database Manager (*HiTrack_4_Database_Manager.exe*) is a Microsoft .NET 2.0 Windows Forms Application. It does not run as a service and only runs when executed by a user. It communicates with SQL Server instances using the credentials of the user account currently logged in to Windows (Windows Authentication).

The Database Manager:

- Does not write or change files outside of its current running directory.

- Does not communicate with any remote processes.

- Does not stop or start any Windows Services except for SQL Server if it is used to install an instance of SQL Server.

- Does not write or change values in the Windows Registry unless the Database Manager is used to install an instance of SQL Server.

- Does not require permanent installation – the files for the tool can be safely deleted if they are no longer needed

Aside from the .NET Framework, the Database Manager has the following dependent files:

- HiTrack_4_Database_Toolkit.dll

- HiTrack_4_BL.dll

- Ionic.Zip.dll

Features

New HITRACK 4 Database Setup

The Database Manager must be used to initialize a new HITRACK 4 database. This includes users who will be converting their HITRACK 3.5 data.

The Database Manager is designed to install SQL Server 2008 Express if an existing SQL Server instance is not detected. If another SQL Server instance is detected, the Database Manager will

ask if you would like to either use an existing instance to host a HITRACK database, or install a new instance.

After an instance is selected or installed the Database Manager prompts the user for an initial Facility name and Protocol and new HITRACK administrator username and password.

Database Backup and Restore

These functions provide users the ability to back up and restore their database without using Microsoft's SQL server management software or T-SQL commands. The backup files from this tool are compressed and optionally encrypted with ZIP compression.

Database Schema Update

Database schema update is a required process that must be done when updating HITRACK to a newer revision, for example, 4.4.0 to 4.5.0. The Update function will update the HITRACK database schema and static data definitions to match the requirements of the new version. The Update function will also run automatically if you use the Database Manager to restore a HITRACK backup database from a previous version.

Advanced Features

Other database features, such as attaching database files, detaching database files, SQL Server database login creation and index maintenance can also be done using the Database Manager tool.

Demonstration Database Setup

The Database Manager provides an easy way for first time users to review demonstration data.

Workarounds

Installation Restrictions

The Database Manager does not have to be installed using the HITRACK 4 installer package. The tool and its related DLLs can be copied temporarily to the database server and used as long as the .NET Framework 2.0 is installed. These files can be removed after use.

Execution Restrictions

One of the following alternatives can be utilized if it is necessary to install a new database or update the database schema, but the Database Manager cannot be run on the server:

1. Temporarily install an SQL Server Express edition on a non-production computer, process the data and then restore the "resulting" database on to the desired server computer. To do this, make sure that the non-production version of SQL Server matches the target server computers version.
2. Arrange with the HITRACK Help Desk to process the data and then provide the new install or updated schema backup file using Secure FTP.

Please contact the HITRACK Help Desk to discuss other approaches.