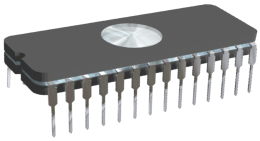
KOBETRON INC.





SI-500 Version 1.0
User Manual

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"Testing Tomorrow's Technology Today"

CONTENTS

INTRODUCTION

The SI-500 is a PC based Validator program designed for use by Regulators and Casino Operators. It will calculate the Kobetron™ signatures of CD ROMs, IDE removable drives, CompactFlash and/or any partitions or files located on these types of media. It can be installed on any Laptop or Desktop running Windows XP, 2000, VISTA, Windows 7 or Windows 8 Operating Systems. Users can download their Jurisdictional Gaming Database file and install it directly into the SI-500. The SI-500 will calculate Kobetron™ signatures; compare them against the installed Jurisdictional Gaming Database, and display the record with matching Kobetron™ signatures for the device or file(s) under test. The SI-500 offers many advanced features including:

- *Support for a complete range of devices including Floppy Disks, CD ROMs, IDE Drives, USB Thumb Drives, CompactFlash™and DiskOnModules™.*
- *Support for all standard partition types (Windows, Linux, Unix, Solaris, recovery etc.) plus Novomatic NOFS partitions and images.*
- *Support for files and folders.*
- *Generates, displays, and compares proprietary Kobetron™ 4, 8, and 40 digit signatures.*
- *Simultaneously calculates and compares an additional 14 non-Kobetron™ signatures to maximize hit rate against the installed Gaming Database.*
- *Browse-able, read-only, encrypted Gaming Database with full search capabilities.*
- *Bit-by-Bit compare of any two files or any device against a binary image file.*
- *Signature compatibility with all existing Kobetron products.*
- *Supports signature look-up from any GI-3000 or GI-4000 w/Serial Link feature installed.*
- *On-line software activation and license transfer and/or removal capabilities.*

SYSTEM REQUIRMENTS

Microsoft Windows XP, 2000, VISTA, 7 or 8
Available CD-ROM drive
Minimum 40 MB or more of free disk space
At least one free PCMCIA slot or USB port

PACKAGE CONTENTS

CompactFlash™ USB 2.0 or 3.0 card reader
CD-ROM containing the SI-500 software
User Manual

INSTALLATION

1. To install the SI-500 software, insert the program CD into your CD-ROM drive. The installation program should automatically launch when the disk is inserted. If for any reason it does not, then simply run “setup.exe” from the installation CD.

2. Unless you want to install into a particular folder, accept all the default settings. This will install the SI-500 program to \Program Files\Kobetron,Inc.\SI-500 on your system drive. Once you have installed your SI-500 program, proceed with the installation of the CompactFlash™ card reader.

3. If you are using the USB CompactFlash™ card reader provided to validate a CompactFlash™ device, insert your CompactFlash™ card into the reader. Then insert the CompactFlash reader into any free USB port on your PC following the instructions provided with the card reader. Drivers for the card reader should already exist in the Windows Operating System and do not need to be installed.

4. If you are using the PCMCIA slot of your laptop to validate a CompactFlash™ device, insert the CompactFlash™ device into the PCMCIA adapter card (not provided). Then plug the PCMCIA adapter into the PCMCIA slot of the PC and you are ready to validate.

CAUTION: Please make sure you follow the proper Windows Operating System procedures for disconnecting the PCMCIA and USB drive prior to unplugging the reader from your PC. Failure to “STOP” the hardware (on Windows Taskbar) prior to removing the PCMCIA adapter from the laptop may cause the SI-500 program to hang or incorrectly read the device under test. If using the USB card reader, you only need to “STOP” the hardware when removing the actual reader from the computer.

SOFTWARE ACTIVATION

Once the software has been installed, it must then be activated. To activate this product, go to the Software Activation Center located at www.kobetron-acen.com and login using your assigned user name and password. Your user name and password label can be found on the original SI-500 installation disk. Please use the on-line help screens to guide you through the login and activation process.

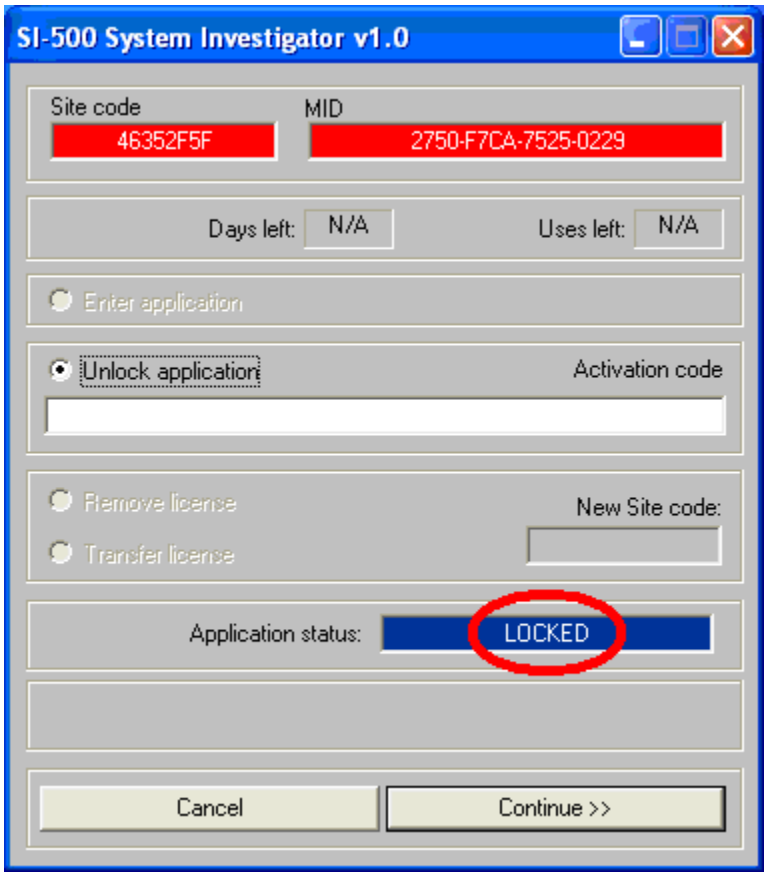


Figure 1

When you run the program for the first time you will see the screen shown in **Figure 1**. Notice that the Application Status block displays **"LOCKED"**. Once you have successfully activated your program, this block will display **"LICENSED"**. After activation, a screen similar to **Figure 1** will appear for 5 seconds every time you start the program. This time delay is to allow the user to activate the Remove License feature if so desired (for details, please login to the Software Activation Center and see "Transferring or Removing a license" using the on-line help instructions).

DATABASE REGISTRATION

After you have successfully installed and activated the SI-500, you will then need to download your Jurisdictional Gaming Database file. Once you have downloaded your Jurisdictional Gaming Database file, it will then need to be installed into the SI-500. To perform this function, start the program and click on the "Database" tab located at the top left of the screen shown in **Figure 2**, then click on "Switch Database". This will open a Select Database window allowing you to select a file. Select the database file you just downloaded and click the "Open" button, shown in **Figure 3**. The first time you install any Jurisdictional Database files, you must register the database file with Kobetron™. If you have not registered the database file, the screen shown in **Figure 4** will appear. It will also open your Outlook Express email program with an automatically generated email already filled-in with the required registration information. Sending this email will notify Kobetron™ of your registration request. This is an additional security measure to ensure that you only have access to the correct Jurisdictional Database files. Once Kobetron™ has verified your registration; you will be given a License Key. Insert this License Key in the License Key box shown in **Figure 4** on the next page and click the "OK" button. This key will unlock the Jurisdictional Database file and allow full usage of the database file by the SI-500 program. Once the Jurisdictional Database has been registered, future downloads of the same Jurisdictional Database file will not require registration. Please note that database registration is tied to each individual PC. Moving the SI-500 program to another PC will require you to go through the same initial database registration process on the new PC.

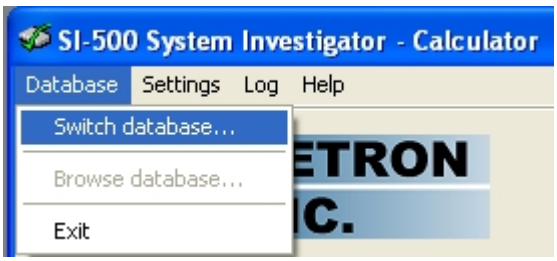


Figure 2

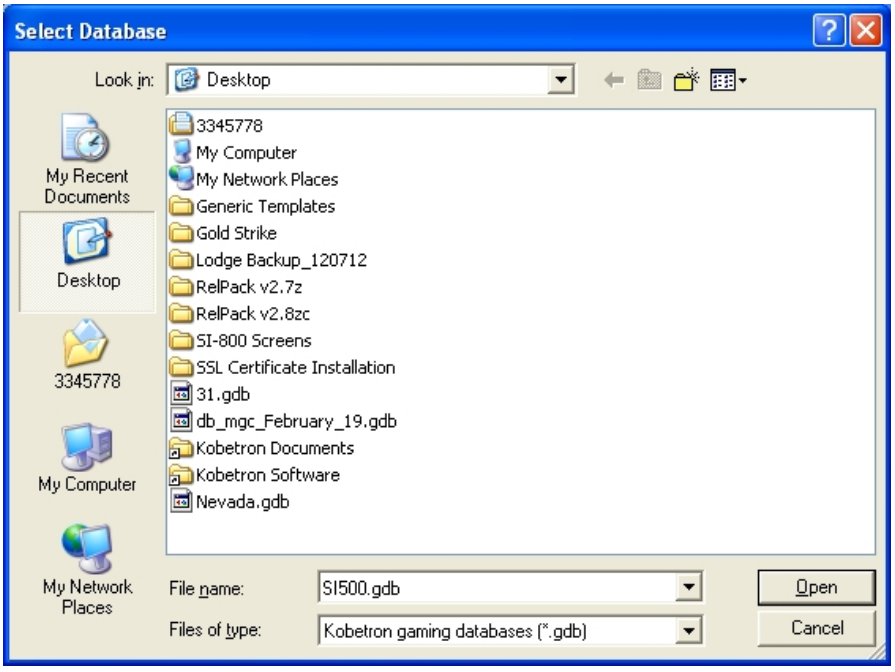


Figure 3

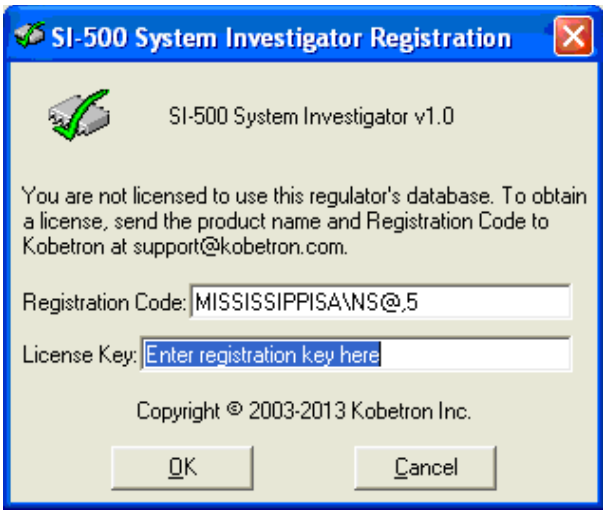


Figure 4

You will also notice that the database file name, location and the CRC value of the database file is displayed at the bottom of the main SI-500 (Calculator) screen shown in **Figure 5**. A quick glance at these fields will ensure that the proper file is installed and that you are using the latest database. After the database file has been downloaded, the CRC signature of the database file can be verified using most archiving programs such as WinZip or PowerArchiver. These programs will usually display the individual CRC signatures of each compressed file depending on the user's configuration. This will verify the integrity of the database file against the one you downloaded. To ensure that the file was not corrupted during the file transfer process, manually check the CRC using your

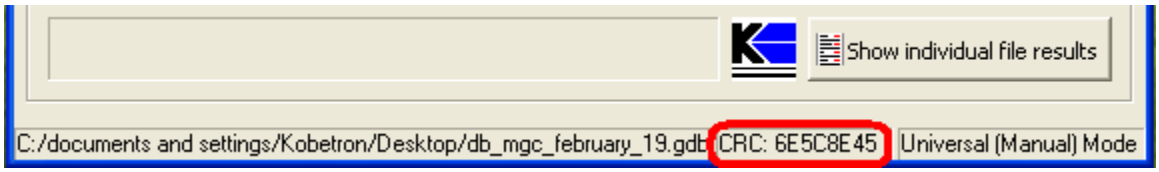


Figure 5

archive program to ensure that it agrees with the file published. An example of this can be seen in **Figure 6**. Most Jurisdictional Database files are updated on a nightly basis. Frequent downloading of your database file is highly recommended to ensure that you are using the latest up-to-date information on the games in your Jurisdiction. In most cases, any changes in game status on any given day will be reflected on the next day's downloaded Jurisdictional Database file. This cannot be guaranteed, however, every effort will be taken to ensure the data provided in the Jurisdictional Database files will be accurate, complete, and up to date with the latest information. If you have any questions regarding the content or accuracy of the jurisdictional database, please contact the appropriate owner of the Jurisdictional Database you are using.

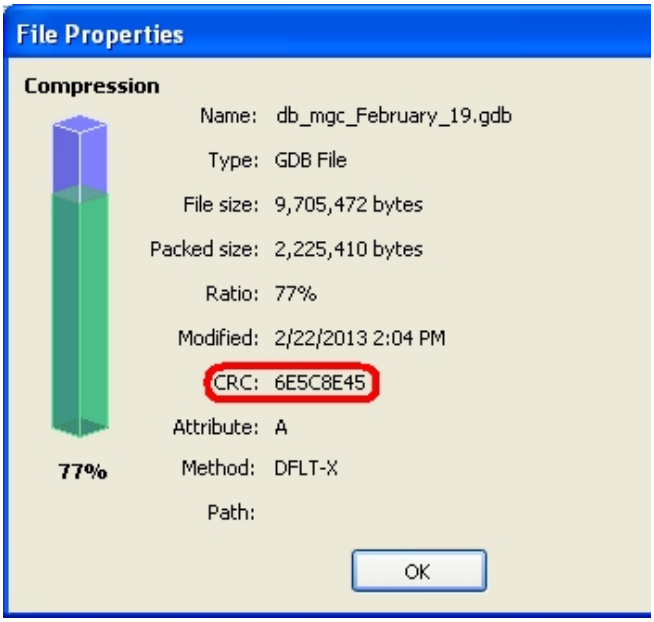


Figure 6

USER OPTIONS MENU

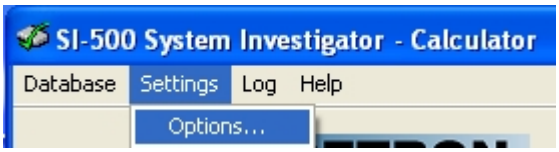


Figure 7

Now that your Jurisdictional Database is installed and unlocked, please review the default settings in the options window and make any desired changes. To display the options window, click on "Settings" then click on "Options" as shown in **Figure 7**. This will open the Options window shown in **Figure 8**. Please note that there are 2 factory enabled settings; *"Warn if Windows fails to report disk lengths reliably (Windows 2000)"* and *"Check the 'Status' of games in non-regulator databases".* These 2 settings should always be left enabled. In the "Display" area, the user can select which **GUI Style** they prefer to use. The user can select their viewing preference from any of the 3 different GUI display modes provided. They can select to view the GUI in either LT-400 v5 mode, SI-500 Alternative mode (RD-700 v2), or SI-500 Standard mode (RD-700 v3), making it easier for users familiar with those previous products. The user can also select what fields are displayed in matching records and in the log by selecting the desired fields in the "**For matching records, display (and log) fields:**" window shown in **Figure 8**. All selected items (highlighted in blue) will be displayed in matching records, as well as in the log (**See Figure 13**). Also located in the "Display" area is the "**Display algorithm list**" option. When this option is selected and the "OK" button is clicked, the user will be asked to close down the application and restart the program as shown in **Figure 9**. When the program is restarted, a list of algorithms will be displayed where the slot machine picture was previously located, as shown in **Figure 10**. The user can then select the desired algorithms they want displayed in the "Results"

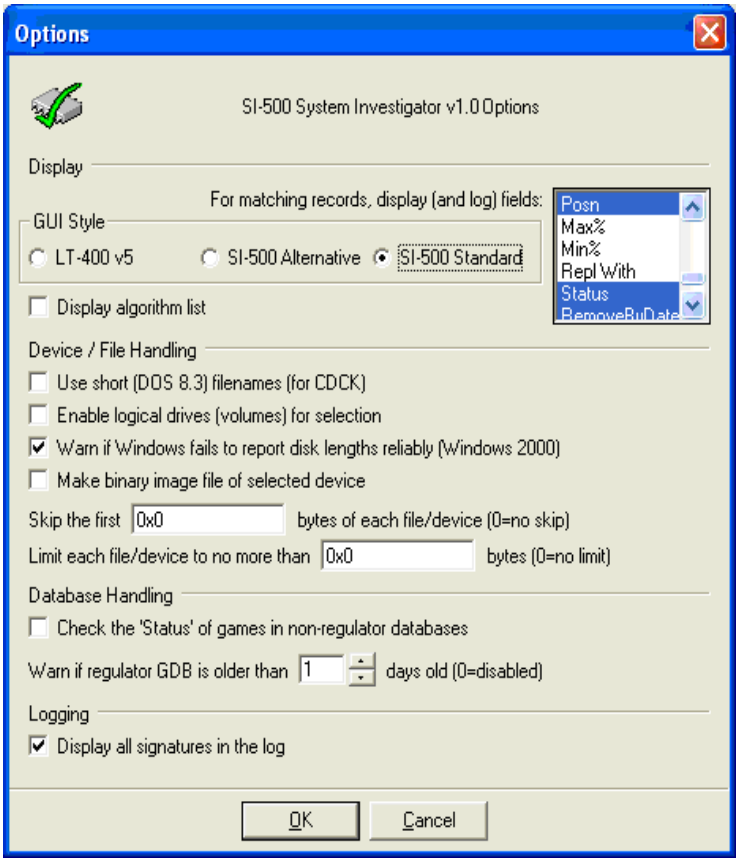


Figure 8

Figure 9

window. Once the selection has been made, it is suggested that you uncheck the Display algorithm list in the “Options” windows and restart the system. This will hide the list and display the original slot machine picture on the main screen of the SI-500. Next, there are 4 user selectable check boxes listed under the “Device/File Handling” section. The first box, “**Use short (DOS 8.3) filenames (for CDCK)**”, should only be checked if you want to calculate a file-by-file signature of files that were originally formatted under the old short (DOS 8.3) format. Under DOS 8.3, all long filename were truncated (i.e. a file named Management Tools.doc would become manage~1.doc), so enabling this feature would allow you to generate the same signature that was originally calculated with CDCK. The next box, “**Enable logical drives (volumes) for selection**” allows you to view and select logical drives (Windows drive letters A: to Z:) from the drop down list of available drives as shown in **Figure 11**. This option should only be checked when the testing of Windows volumes or logical drives is required. An example of this need would be where a game manufacturer has a hard disk with numerous system and non-system files on it. All crucial system files are grouped together in a volume or logical partition. The user can then verify only the required files placed in the volume or logical partition. This minimizes the number of files that need to be tested, hence reducing the overall testing time. The next box, “**Warn if Windows fails to report disk lengths reliably (Windows 2000)”**, will warn the user of potential windows reported disk length problems when using Windows 2000 operating system. This box is checked by default and should always be left checked. The next box in the “Device/File Handling” section is “**Make binary image file of selected device**”. This box should only be checked if the user wants to make a binary image file of a specific device (such as a CompactFlash, CD ROM, memory stick, etc). Once the binary image of a specific device has been created, the user can then perform a Bit-by-Bit compare between the binary image file and the original device it was created from. Please note that binary image files of devices such as CompactFlash will be large in size and can use up valuable disk space. The binary image file created is named SI500_Device.img and can be found in the SI-500 folder. The last option under the Device/File Handling section “**Limit each file/device to no more than __bytes (0=no limit)**” has a default setting of 0. This value should only be changed if the user wants to limit the size of the device under test. Let’s say the user has an 8MB CompactFlash card but only wants to calculate a signature for the first 4MB of the device. By entering a value of 4000000 in this field, the SI-500 will only read and calculate a signature for the first 4MB of the device. This feature can be used to calculate the signature of a binary image file that has been placed on various size devices, and still obtain the same signature. Under the “Database Handling” section, the option “**Warn if databases are older than __ days old**” allows the user to select the number of days allowed between the current date and

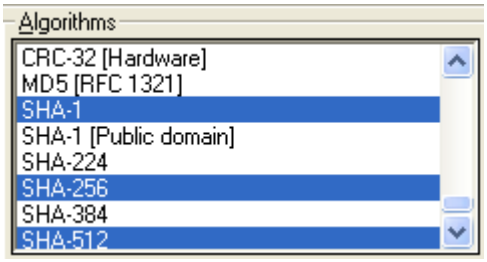


Figure 10

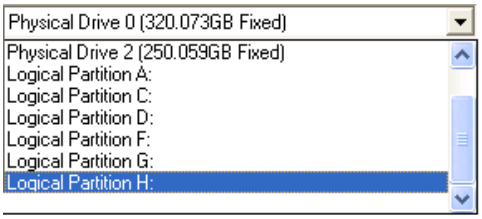


Figure 11

the date of the installed Jurisdictional Database file. When the selected number of days is exceeded, the warning message in **Figure 12** will be displayed. Since most database

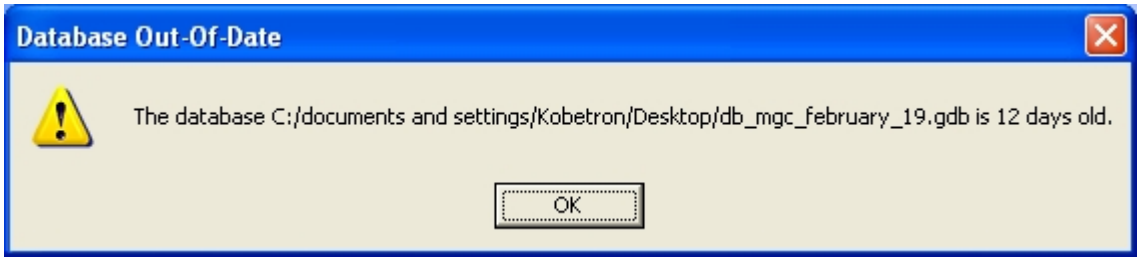
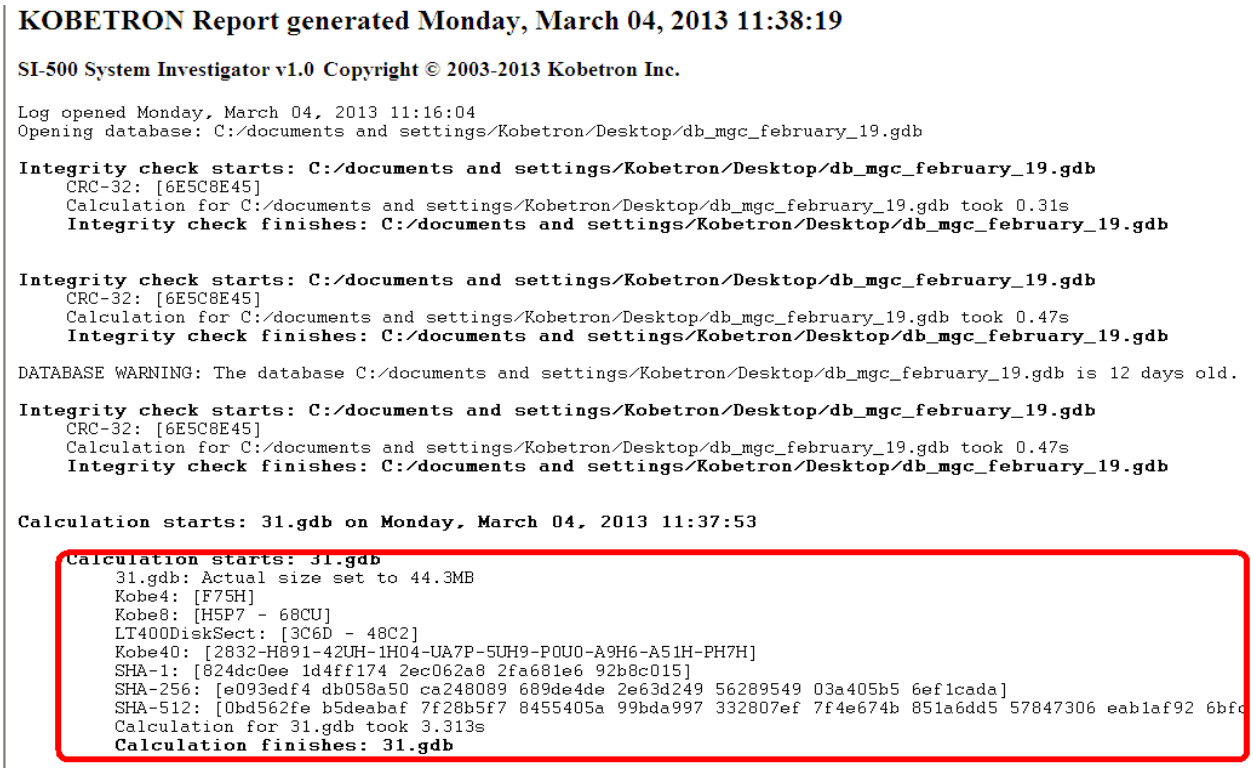


Figure 12

files are updated nightly, the default for this setting is “1” day. The last section in the “Options” window is the “Logging” section. Under the Logging section, there is a check box called “**Display all signatures in the log**”. This check box should only be checked if the user wants to record all signatures automatically calculated by the SI-500 for every device that is checked. Please note that the SI-500 simultaneously calculates 16 different signatures, so all 16 signatures would appear in the log for every device calculated. If this box is unchecked, only the signatures that were selected by the user in **Figure 10** will appear in the log.



KOBETRON Report generated Monday, March 04, 2013 11:38:19

SI-500 System Investigator v1.0 Copyright © 2003-2013 Kobetron Inc.

```
Log opened Monday, March 04, 2013 11:16:04
Opening database: C:/documents and settings/Kobetron/Desktop/db_mgc_february_19.gdb

Integrity check starts: C:/documents and settings/Kobetron/Desktop/db_mgc_february_19.gdb
    CRC-32: [6E5C8E45]
    Calculation for C:/documents and settings/Kobetron/Desktop/db_mgc_february_19.gdb took 0.31s
    Integrity check finishes: C:/documents and settings/Kobetron/Desktop/db_mgc_february_19.gdb


Integrity check starts: C:/documents and settings/Kobetron/Desktop/db_mgc_february_19.gdb
    CRC-32: [6E5C8E45]
    Calculation for C:/documents and settings/Kobetron/Desktop/db_mgc_february_19.gdb took 0.47s
    Integrity check finishes: C:/documents and settings/Kobetron/Desktop/db_mgc_february_19.gdb

DATABASE WARNING: The database C:/documents and settings/Kobetron/Desktop/db_mgc_february_19.gdb is 12 days old.

Integrity check starts: C:/documents and settings/Kobetron/Desktop/db_mgc_february_19.gdb
    CRC-32: [6E5C8E45]
    Calculation for C:/documents and settings/Kobetron/Desktop/db_mgc_february_19.gdb took 0.47s
    Integrity check finishes: C:/documents and settings/Kobetron/Desktop/db_mgc_february_19.gdb


Calculation starts: 31.gdb on Monday, March 04, 2013 11:37:53

    Calculation starts: 31.gdb
        31.gdb: Actual size set to 44.3MB
        Kobe4: [F75H]
        Kobe8: [H5P7 - 68CU]
        LT400DiskSect: [3C6D - 48C2]
        Kobe40: [2832-H891-42UH-1H04-UA7P-5UH9-P0U0-A9H6-A51H-PH7H]
        SHA-1: [824dc0ee 1d4ff174 2ec062a8 2fa681e6 92b8c015]
        SHA-256: [e093edf4 db058a50 ca248089 689de4de 2e63d249 56289549 03a405b5 6ef1cada]
        SHA-512: [0bd562fe b5deabaf 7f28b5f7 8455405a 99bda997 332807ef 7f4e674b 851a6dd5 57847306 eab1af92 6bfc
        Calculation for 31.gdb took 3.313s
        Calculation finishes: 31.gdb
```

Figure 13

Please note that all fields selected in the “**For matching records, display (and log) fields:**” located in the Options window will be displayed in the log. An example of this can be seen in the highlighted red box shown below in **Figure 13.**

VALIDATION METHODS

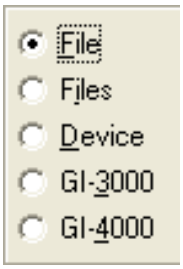


Figure 14

The SI-500 can calculate signatures on a variety of media types using any of five (5) available methods. The user can select any of the following methods in **Figure 14**: File, Files, Device (including partitions), GI-3000 or GI-4000. If you want to calculate a Kobetron™ signature on a single file, select the "**File**" radio button shown in **Figure 14**. Clicking on the "Browse" button will open up the "Select file to Validate" window shown in **Figure 15**. Select the desired file and click the "Open" button (if you cannot see the files please see the "Filing Systems" section of this manual). The file you selected will be displayed in the "Filename" box as shown in **Figure 16**. Now that the desired file has been selected, you're ready to start. You can either click on the "Calculate" button or the "Validate" button shown in **Figure 17**. If you select "Calculate", the signatures will be calculated and the results will be displayed in the "Results" window of the SI-500. If you select "Validate", the signatures will be calculated then compared against the installed database for a match. If a match is found, all records matching the calculated signatures will be displayed. In addition, these signatures will also be displayed in the "Results" window of the SI-500 for quick reference by the user. If no matching signatures are found in the database, the user will be alerted that no match was found. These and other database related topics will be discussed later in Database Functions section of this user manual.

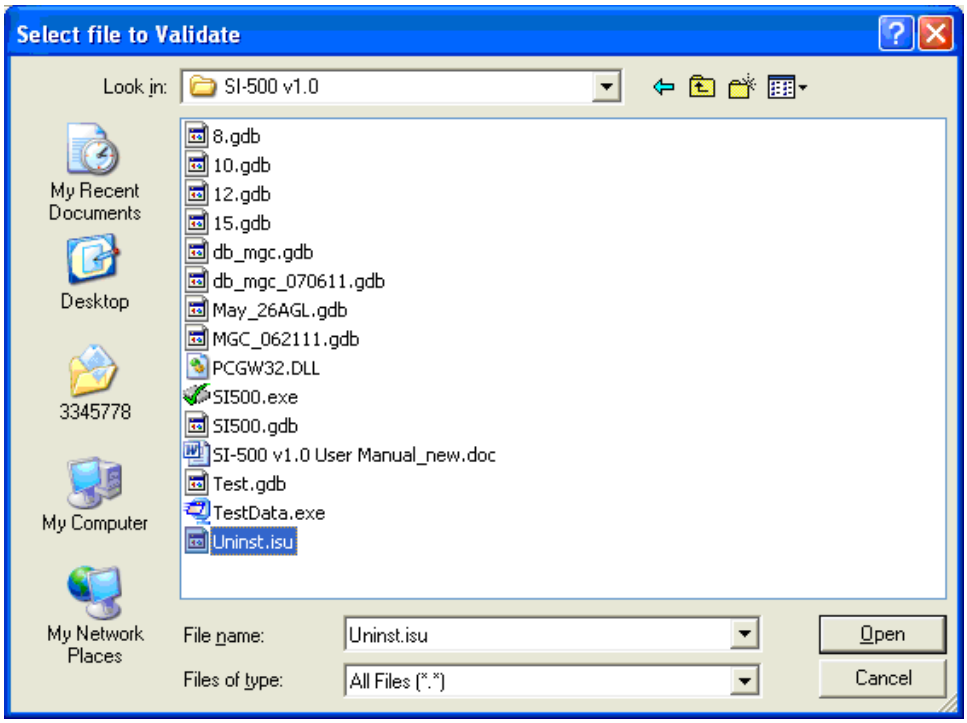


Figure 15

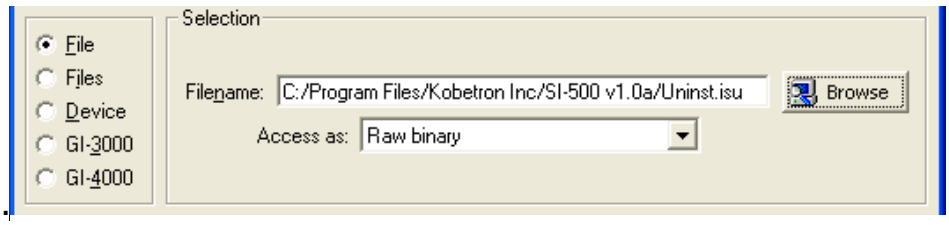


Figure 16

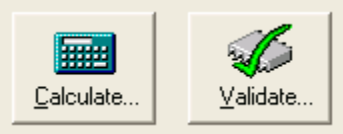


Figure 17

If you want to calculate the signature of multiple files or an entire folder, select the "**Files**" radio button as shown in **Figure 18**. You must then select either "in folder" or "in and below folder" from the drop down box in the "Selection" window shown in **Figure 18**. If you want to calculate a signature of all files within a given directory, select "in folder". If you want to calculate a signature on all files and sub-directories located under a given folder, select "in and below folder". Click on the "Folder" button and select the desired folder. The data source has now been selected and you are ready to proceed to the next step. Depending on which function you want, you can either click on the "Calculate" or "Validate" button as you previously did with the "File" method. If you click on "Calculate", the combined signature will be displayed in the Results window. If you click on "Validate", the combined signature of all files will be displayed in the "Results" window, and all records with matching signatures will be displayed. Please note that when the "Files" radio button is selected, the SI-500 will calculate the signature of each file within the selected folder(s), but only the combined signature of all files will be used to compare against the installed Jurisdictional Database for a match. Each file's individual signature can be displayed by clicking on the "Show individual file results" button shown in **Figure 19**. This will open the

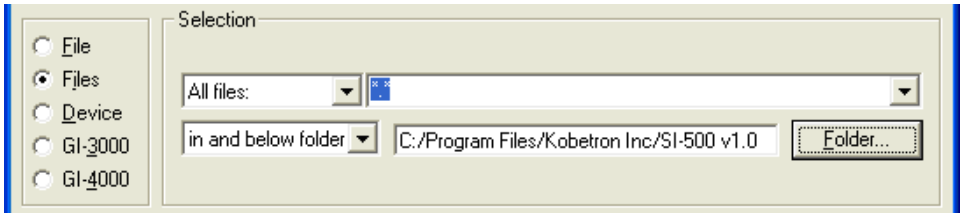
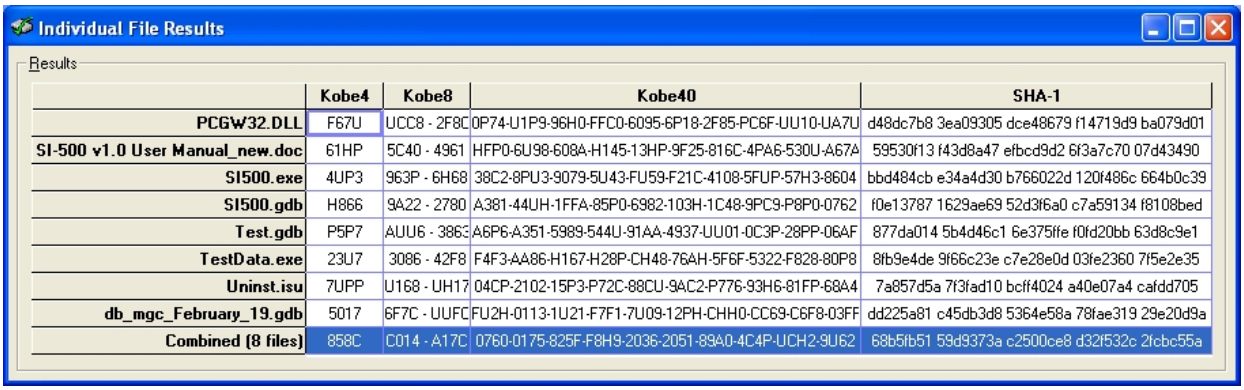


Figure 18

Figure 19



	Kobe4	Kobe8	Kobe40	SHA-1
PCGW32.DLL	F67U	UCC8 - 2F8C	0P74-U1P9-96H0-FFC0-6095-6P18-2F85-PC6F-UU10-UA7U	d48dc7b8 3ea09305 dce48679 f14719d9 ba079d01
SI-500 v1.0 User Manual_new.doc	61HP	5C40 - 4961	HFP0-6U98-608A-H145-13HP-9F25-816C-4PA6-530U-A67A	59530f13 f43d8a47 efbcd9d2 6f3a7c70 07d43490
SI500.exe	4UP3	963P - 6H68	38C2-8PU3-9079-5U43-FU59-F21C-4108-5FUP-57H3-8604	bbd484cb e34a4d30 b766022d 120f486c 664b0c39
SI500.gdb	H866	9A22 - 2780	A381-44UH-1FFA-85P0-6982-103H-1C48-9PC9-P8P0-0762	f0e13787 1629ae69 52d3f6a0 c7a59134 f8108bed
Test.gdb	P5P7	AUU6 - 3863	A6P6-A351-5989-544U-91AA-4937-UU01-0C3P-28PP-06AF	877da014 5b4d46c1 6e375ffe f0fd20bb 63d8c9e1
TestData.exe	23U7	3086 - 42F8	F4F3-AA86-H167-H28P-CH48-76AH-5F6F-5322-F828-80P8	8fb9e4de 9f66c23e c7e28e0d 03fe2360 7f5e2e35
Uninst.isu	7UPP	U168 - UH17	04CP-2102-15P3-P72C-88CU-9AC2-P776-93H6-81FP-68A4	7a857d5a 7f3fad10 bcff4024 a40e07a4 cafdd705
db_mgc_February_19.gdb	5017	6F7C - UUFC	FU2H-0113-1U21-F7F1-7U09-12PH-CHH0-CC69-C6F8-03FF	dd225a81 c45db3d8 5364e58a 78fae319 29e20d9a
Combined (8 files)	858C	C014 - A17C	0760-0175-825F-F8H9-2036-2051-89A0-4C4P-UCH2-9U62	68b5fb51 59d9373a c2500ce8 d32f532c 2fcbc55a

Figure 20

"Individual File Results" window shown in **Figure 20** and display all selected signature types for each file in the selected folder(s). The combined signature of all files is also displayed at the bottom of the screen. Closing this screen will take you back to the main screen of SI-500. The next method is used if you want to calculate the signature of a device such as a CompactFlash™, DiskOnModule, IDE drive, CD/DVD ROM, or a

partition on any one of these utilizing a low level “Sector-by-Sector” read of the data. To use this method, select the “**Device**” radio button as shown in **Figure 21** and click on the “Scan for devices” button. This will force your computer to search for all available drives connected to it. Wait a few seconds, and then click on the ▼ to view a dropdown list of available drives and partitions, as shown in **Figure 22**. To check the whole drive, select the desired physical drive. CompactFlash cards will usually be labeled as “Physical Drive 1 (Removable)”. To check a partition, select the desired partition from the drop-down list - partitions are numbered from 1 upwards, and the type of partition is displayed along with the size (**Figure 22** shows the choice of a 256.639MB Native Linux partition). If you are validating a Novomatic NOFS partition, select the “Novomatic NOFS” option that will appear in the “Access as:” drop-down box as shown in **Figure 23**. Depending on which function you want, you can either click on the “Calculate” or “Validate” button as previously described with other methods. The last method available is the GI-3000 or GI-4000 method. In this method, the GI-3000/4000 is used for calculating the signature of storage devices like EPROMs, FLASH, SIMMs and EEPROM’s, supported by the GI-3000/4000 Gaming Investigator. To utilize this method, you must have a GI-3000/4000 with the GI-3400 Serial Link feature installed. Connect a 9-pin female to 9-pin female RS-232 cable (straight through and not a Null Modem) from the serial port of your Laptop to the serial port of the GI-3000/4000. If your Laptop does not have a serial port, you can also use a USB to Serial converter cable. Once your cable

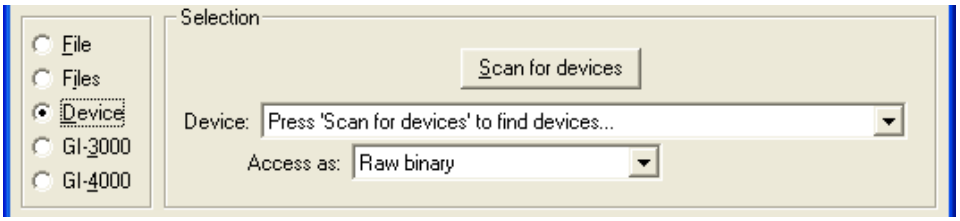


Figure 21

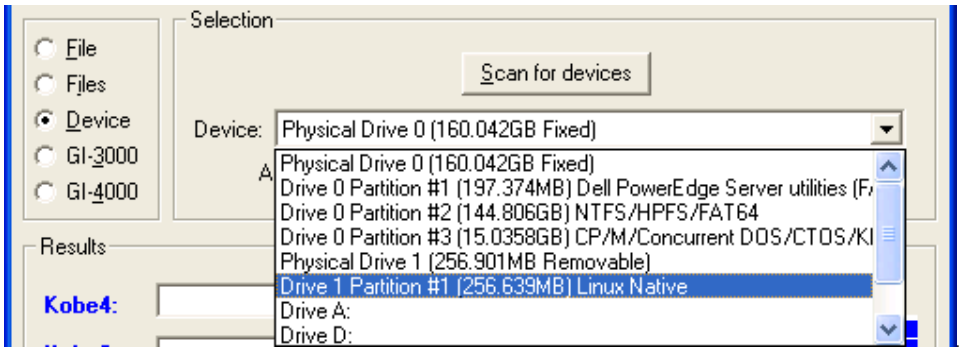


Figure 22

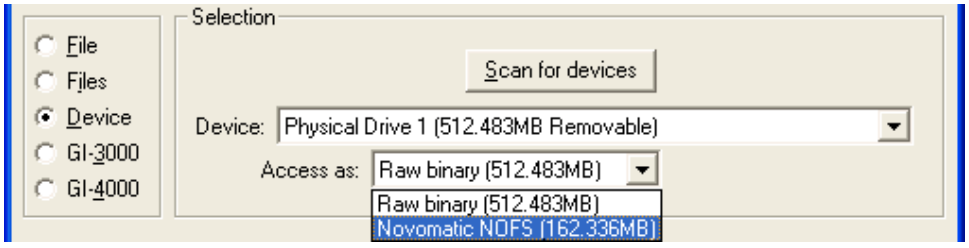


Figure 23

is installed, select the "**GI-3000**" or "**GI-4000**" radio button as shown in **Figure 24**. Make sure that you have the proper Communication Port selected. On most computers, this will default to "Com1" as shown in **Figure 24**. If there are no problems with your port settings, the status bar will display "**Idle**". Once you have connected the GI-3000/4000 to the Laptop and have selected the GI-3000 or GI-4000 method, turn on your GI-3000/4000 and insert the device you want to verify. Follow normal GI-3000/4000 procedures for verifying a device. When the GI-3000/4000 has completed the validation process, it will automatically send the signature(s) you selected on the GI-3000/4000 (i.e. STD-4, EXT-8, EXT-40 or EXT-8 & 40) over to the Laptop and compare them against the installed Jurisdictional Database. If your serial connection is good and your Communications Port is properly configured, your status window should display "**Live**", as shown in **Figure 25**, when the GI-3000/4000 signature is sent to the SI-500. If a match is found, the corresponding record(s) will be displayed in the database screen of the SI-500. If no match is found, the user will be alerted that no match was found. These and other database features will be covered later in this manual. To verify another device, simply remove and insert a new device into the GI-3000 or GI-4000 and follow the normal GI-3000/4000 validation procedures.

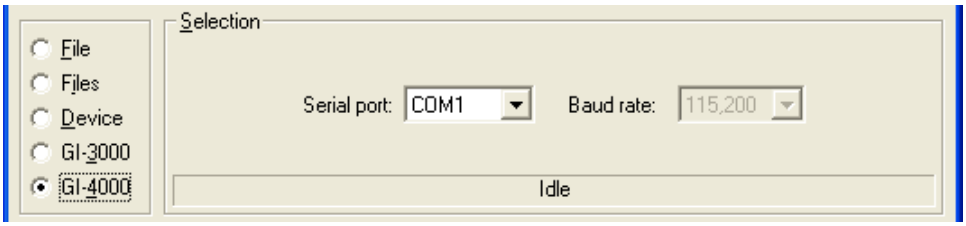


Figure 24

Figure 25

<u>CAUTION:</u> Please make sure you follow the proper Windows Operating System procedures for disconnecting the PCMCIA and USB drive prior to unplugging the reader from your PC. Failure to "STOP" the hardware (on Windows Taskbar) prior to removing the PCMCIA adapter from the laptop may cause the SI-500 program to hang or incorrectly read the device under test. If using the USB card reader, you only need to "STOP" the hardware when removing the actual reader from the computer.

VALIDATION RESULTS

When the SI-500 completes any of the five (5) validation methods described in the previous chapter, the calculated signatures will be displayed in the “Results” window as seen here in **Figure 26**. The signatures will only remain on the screen until the next request for a “Validate” or Calculate” is initiated. If you are going to read two (2) devices, the signatures of the first device will be displayed in the “Results” until the calculation of the second device is started. The “Results” window will then be cleared and the signatures of the second device will be displayed once the calculation has been completed. Please note that when using the “Files” method of validation, the displayed results in the “Individual File Results” window shown in **Figure 20** will also be cleared the next time a “Calculate” or “Validate” request is initiated. The SI-500 also maintains a complete log of all events and signatures during every session. Please note that the signatures displayed in the log are determined by the signature types the user has selected in the “Algorithms List” and whether or not the “Display all signatures in the log” box has been checked in the “Options” window. To view the log, click on “Log”, then “Show log” as shown in **Figure 27**. This will open the Log Window located at the bottom of the main SI-500 screen shown in **Figure 28**. To visually browse through the log, click on the ▲ or ▼ scroll bar located to the right of the log. When you are finished viewing the contents of the log and want to hide the log

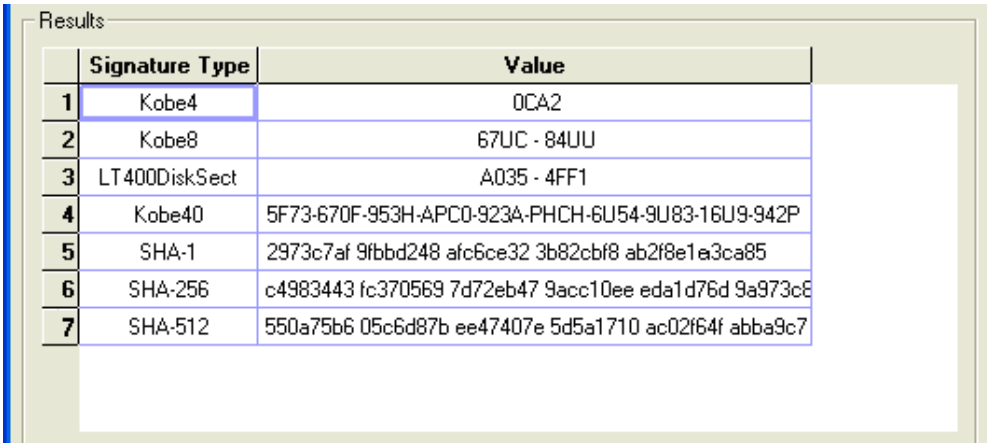


Figure 26

Figure 27

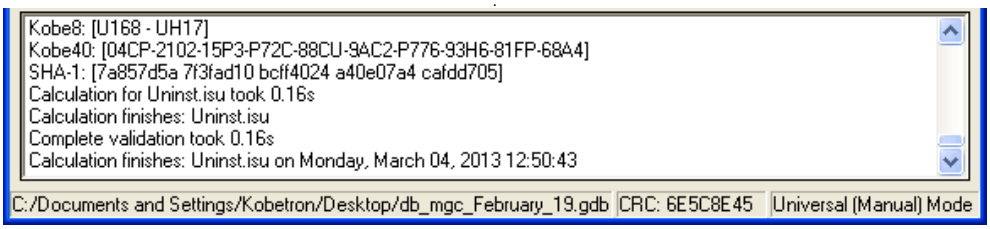


Figure 28

again, simply click on “Log” then “Hide log” and the log window will disappear. You can also save the log by clicking on “Log”, then “Save log”. This will open the “Select Filename for Log” window shown in **Figure 29**. Select the desired file name and location then click on the “Save” button. This will save your log in an HTML format as shown in **Figure 30**. The “Save log” feature can be used to provide users with a hard copy record of all their validation activity. This could be useful in providing a paper trail for future reference if so desired. The activity log can be manually cleared by clicking on “Log”, then “Clear log”. This will clear the current log and start a new session. When you are finished viewing the log, click on “Log”, then “Hide log”. This will hide the activity log window and return you to the normal viewing mode.

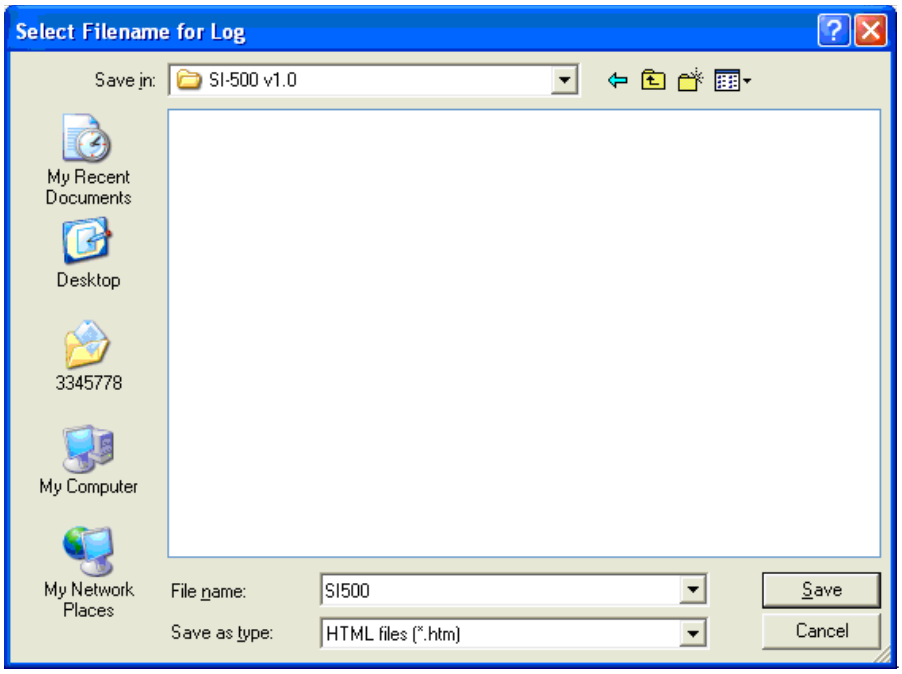


Figure 29

KOBETRON Report generated Monday, March 04, 2013 11:38:19

SI-500 System Investigator v1.0 Copyright © 2003-2013 Kobetron Inc.

```
Log opened Monday, March 04, 2013 11:16:04
Opening database: C:/documents and settings/Kobetron/Desktop/db_mgc_february_19.gdb

Integrity check starts: C:/documents and settings/Kobetron/Desktop/db_mgc_february_19.gdb
     CRC-32: [6E5C8E45]
     Calculation for C:/documents and settings/Kobetron/Desktop/db_mgc_february_19.gdb took 0.31s
     Integrity check finishes: C:/documents and settings/Kobetron/Desktop/db_mgc_february_19.gdb


Integrity check starts: C:/documents and settings/Kobetron/Desktop/db_mgc_february_19.gdb
     CRC-32: [6E5C8E45]
     Calculation for C:/documents and settings/Kobetron/Desktop/db_mgc_february_19.gdb took 0.47s
     Integrity check finishes: C:/documents and settings/Kobetron/Desktop/db_mgc_february_19.gdb

DATABASE WARNING: The database C:/documents and settings/Kobetron/Desktop/db_mgc_february_19.gdb is 12 days old.

Integrity check starts: C:/documents and settings/Kobetron/Desktop/db_mgc_february_19.gdb
     CRC-32: [6E5C8E45]
     Calculation for C:/documents and settings/Kobetron/Desktop/db_mgc_february_19.gdb took 0.47s
     Integrity check finishes: C:/documents and settings/Kobetron/Desktop/db_mgc_february_19.gdb


Calculation starts: 31.gdb on Monday, March 04, 2013 11:37:53

     Calculation starts: 31.gdb
          31.gdb: Actual size set to 44.3MB
          Kobe4: [F75H]
          Kobe8: [H5P7 - 68CU]
          LT400DiskSect: [3C6D - 48C2]
          Kobe40: [2832-H891-42UH-1H04-UA7P-5UH9-P0U0-A9H6-A51H-PH7H]
          SHA-1: [824dc0ee 1d4ff174 2ec062a8 2fa681e6 92b8c015]
          SHA-256: [e093edf4 db058a50 ca248089 689de4de 2e63d249 56289549 03a405b5 6ef1cada]
          SHA-512: [0bd562fe b5deabaf 7f28b5f7 8455405a 99bda997 332807ef 7f4e674b 851a6dd5 57847306 eab1af92 6bfc
          Calculation for 31.gdb took 3.313s
          Calculation finishes: 31.gdb
```

Figure 30

VERIFICATION PROCESS

Once you have selected the desired validation technique and have connected the required hardware for the method selected, click either the “Calculate” or “Validate” button. If you click the “Calculate” button, the user selected signatures will be calculated and displayed in the “Results” window. No comparison will be made against the installed Jurisdictional Database for a match. If you click the “Validate” button, the SI-500 will simultaneously calculate 16 different predefined signatures. It will then search the entire Jurisdictional Database and display all records containing any of the matching 16 signatures. When a match is found, the window shown in **Figure 31** will be displayed. Every line in this window represents a different record. In the example shown

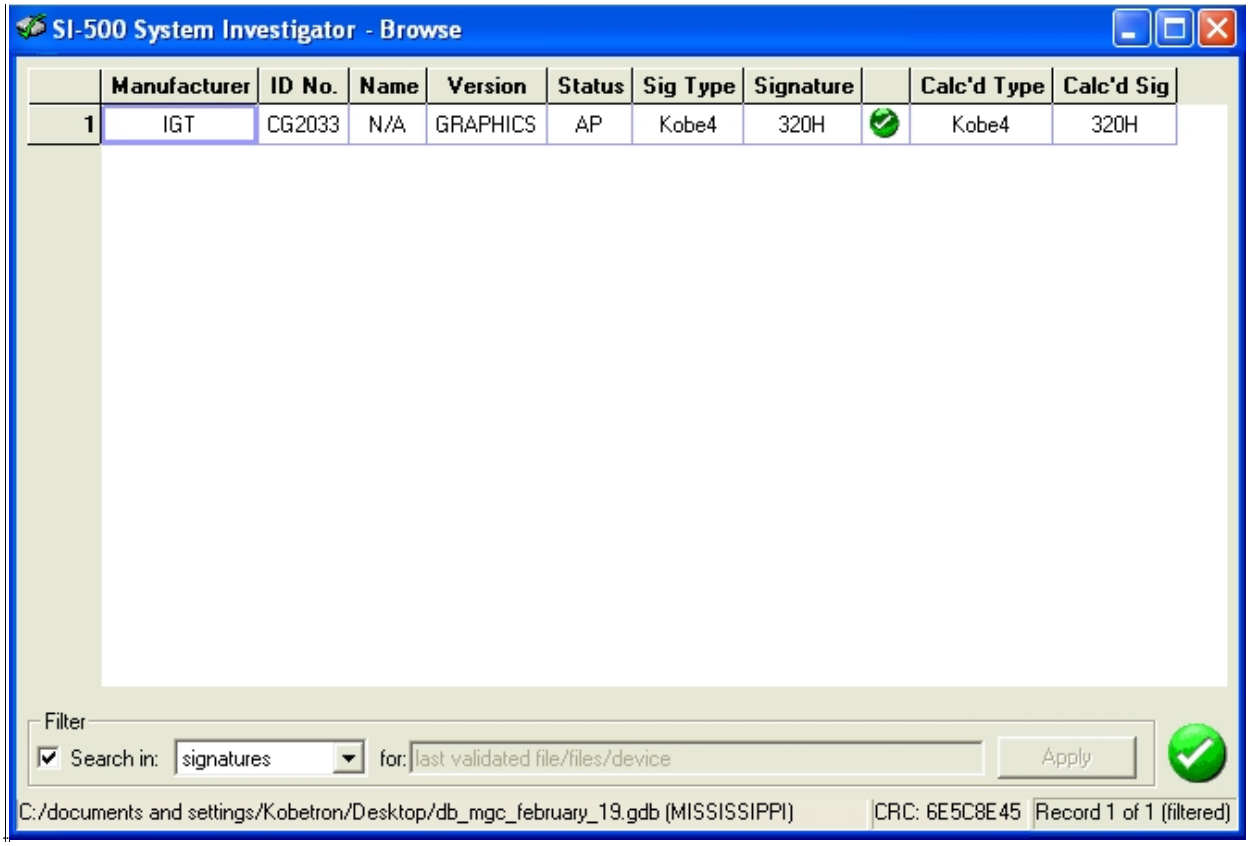


Figure 31

above, there was only one matching record found, hence there is only one line. This window displays the fields selected under the “**For matching records, display (and log) fields:**” of the Options menu shown in **Figure 8** on page 8. Also displayed are the Calculated Signature and Signature Type that matched in the Jurisdictional Database. A *Green Check Mark* indicates that the game is a “Perfect Match” and that the Jurisdictional status is either “**AP**” (Approved) or “**TR**” (Transferred). This is the ideal result that you would like to see every time a gaming device is “Validated”; only one record found, with a status of AP or TR and a *Green Check Mark* next to the record. Unfortunately, there will be instances where the SI-500 will return search results with

multiple records and different status types. An example of the various result scenarios can be seen in **Figure 32**. In the below example, there were a total of 6 records with matching signatures found; 2 with a status of “AP” (Approved), 1 with a status of “WD” (Withdrawn) and 1 with a status of “OB” (Obsolete). You will notice that the 2 the records with the status of “AP” also have a *Green Check Mark* next to the signature. This indicates the calculated signature matched the database signature and the status was either “AP” or “TR”. The other 4 records have a *Yellow Dash* next to the signature. The *Yellow Dash* indicates the matching record may be incomplete, inaccurate or the game status may not be Approved or Transferred. Anytime a record with a *Yellow Dash*

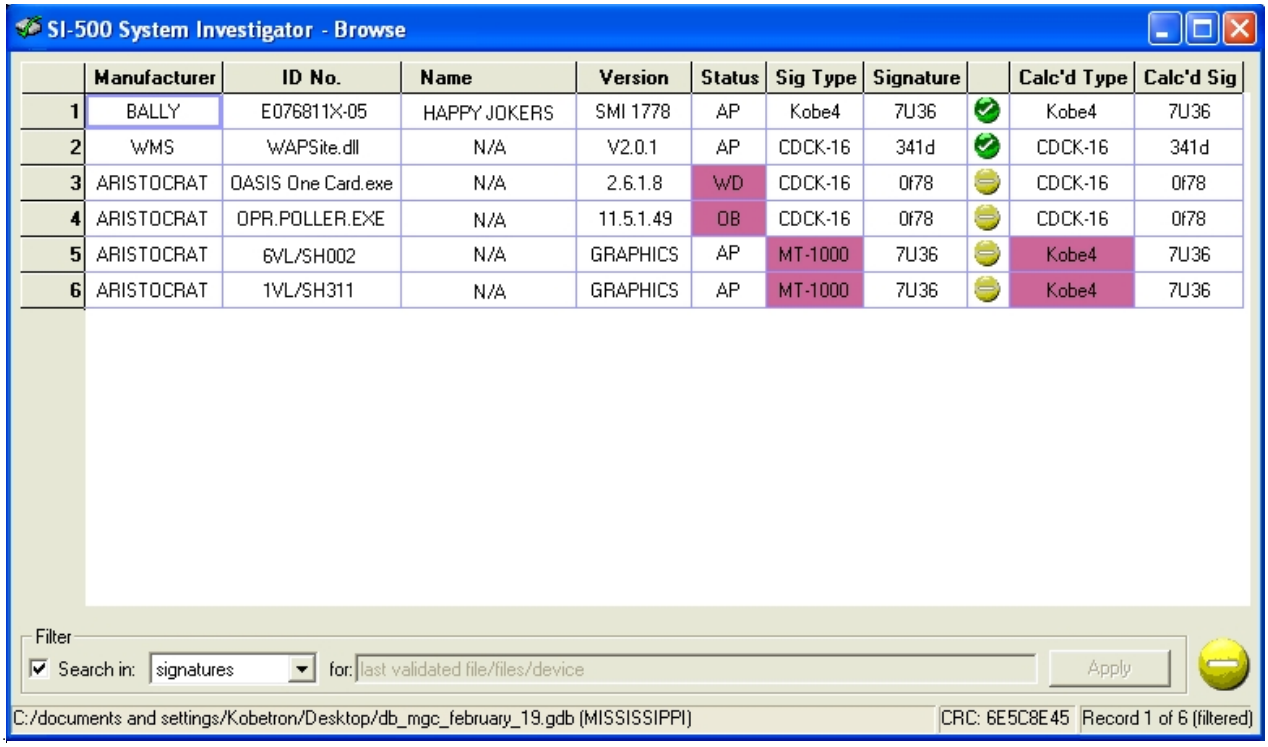


Figure 32

appears, the field that generated the cautionary *Yellow Dash* will be highlighted in Red. In the first 2 *Yellow Dash* records shown above, the status field has a problem; 1 record has a status of “WD” (Withdrawn) and the other record has a status of “OB” (Obsolete). No other fields were highlighted in either of these records, indicating that all other data in the records was accurate. In the last 2 *Yellow Dash* records, the “Signature Type” in the SI-500 database record and the “Calculated Signature Type” do no match. A close review of these 2 records will show that both the database record signature and the calculated signature are identical, and that the game “Status” is “AP” (Approved). The reason these 2 records have a *Yellow Dash* instead of a *Green Check Mark* is because the signature types do not match. This is probably because someone has entered the Kobe4 signature in the wrong database field when the record was created. This signature should have been entered in the Kobe4 field, not the MT-1000 field. ***“Additional information on any record can be seen by double clicking on the desired record”***.

Double clicking on the first record in the example used in **Figure 32** on the previous page will open the "Matching Record" window and display detailed information about the Bally "Happy Jokers" record as shown in **Figure 33**. All pertinent information about the game record will be displayed on the left side of the screen. All signatures associated

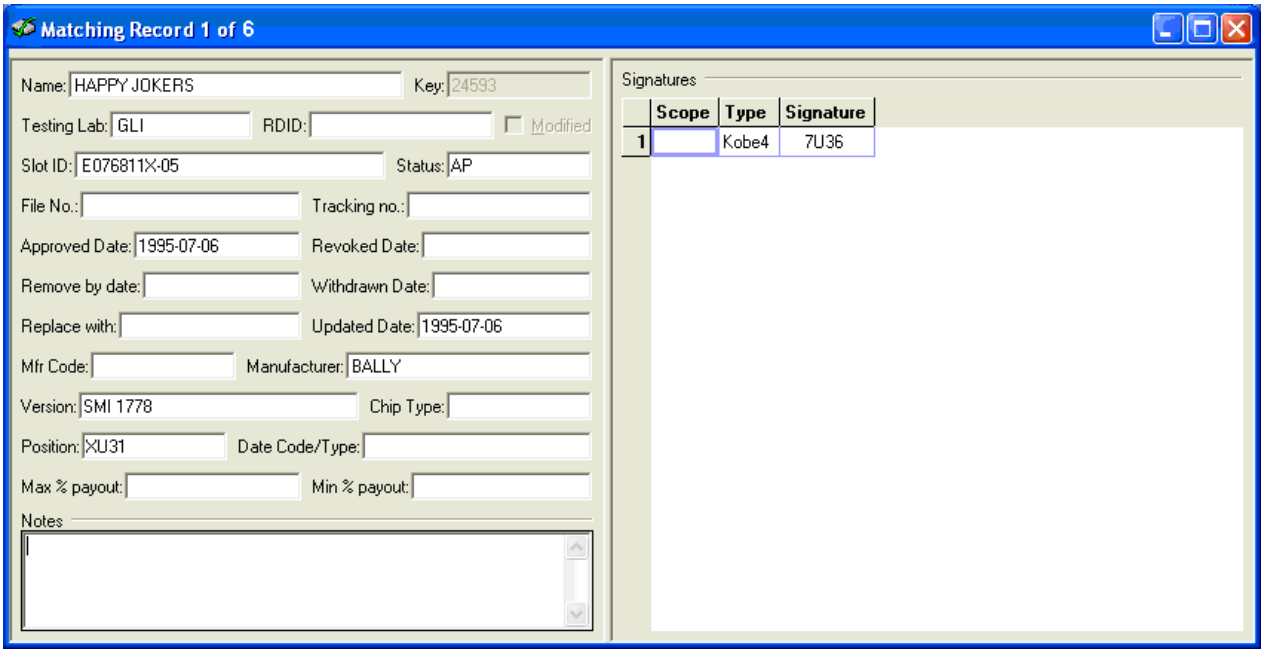


Figure 33

with this record will be displayed on the right side of the screen. To close this screen and return to the previous screen, click on the Red X located in the top right corner of the screen. So far, we have discussed records with a *Green Check Mark* and records with a *Yellow Dash*. The last possible result when using the "Validate" function is when no matching record is found. When this occurs, the warning window shown in **Figure 34** will appear and a warning sound will be generated by the computer. This condition indicates that the SI-500 could not find a matching signature in the Jurisdiction Database for the device under test. If this occurs, the user should first verify that the device under test actually resides in the database. This can be done by searching the database for the Game ID. "Searching" and "Browsing" the database will be discussed in the next chapter. If the game resides in the database, check the record to see what the signatures should be. If the SI-500 is calculating different signatures then listed in the game record, the user should further investigate to eliminate the possibility of a defective device or tampering with the data. If no determination can be made, the user should contact the appropriate owner of the Jurisdictional Database for further instructions.

Figure 34

SEARCHING AND BROWSING THE DATABASE

The SI-500 has full search capabilities that will allow the user to search or browse the installed Jurisdictional Database on any field or for any specific record (s) desired. To search the database, click on "Database" then on "Browse database" as shown in **Figure 35**. This will open the "Browse" window shown in **Figure 36**. Once the "Browse" window is open, place a check mark (√) in the "Filter" Box. This will activate the "Search in" and "for" windows, and also enable the "Apply" button located at the bottom of the "Browse" window. To select the desired field to search in, click on the ▼ on the right side of the "Search in" window. Select the desired field and then enter the data you want to search for in the "for" field. **Figure 37** shows an example of what the screen would look like if you were searching for all records with the name "TOP GUN". Once

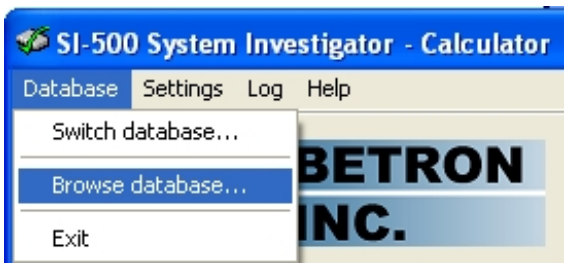


Figure 35

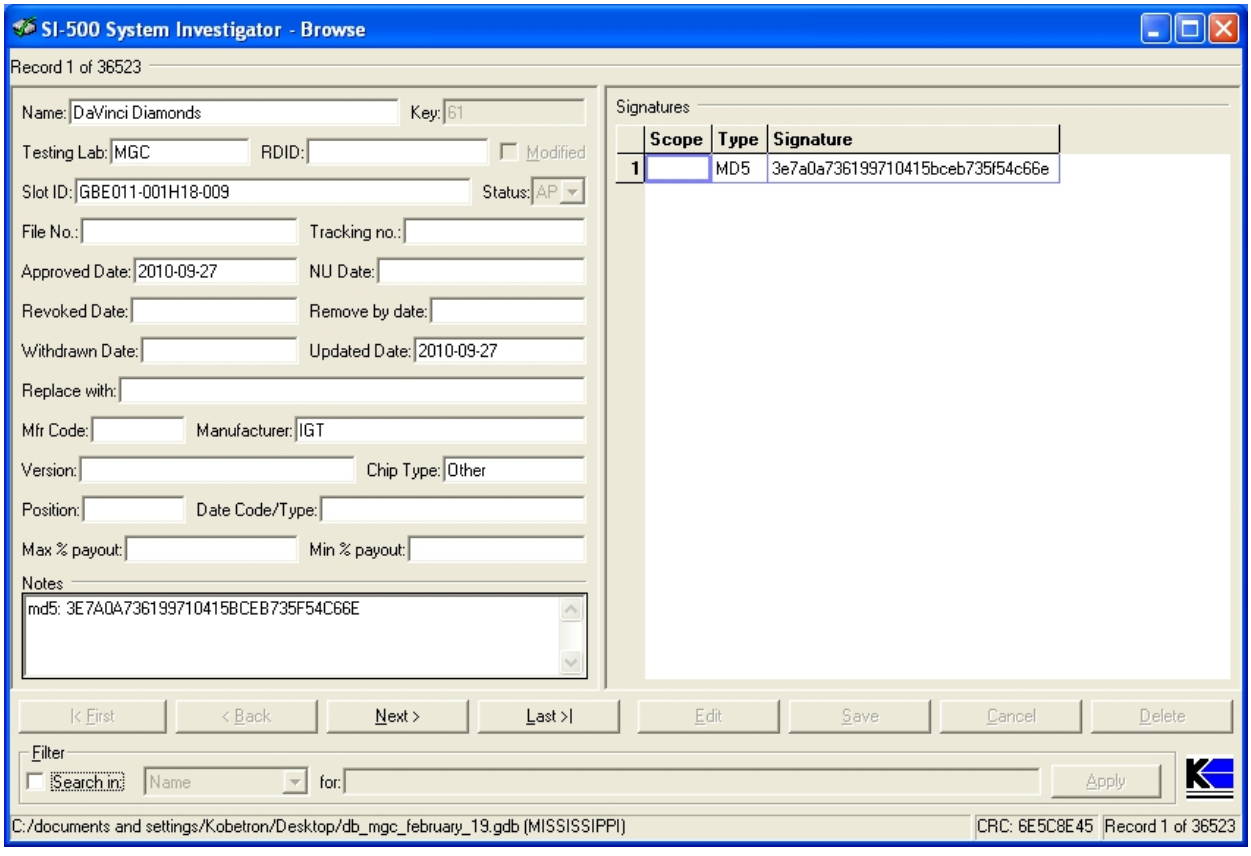


Figure 36

you have selected the desired field and have entered the data you want to search for in the appropriate field, click on the "Apply" button. The SI-500 will search the entire installed Jurisdictional Database for whatever data you have selected. It will then

display all records that match your selection criterion as shown in **Figure 38.** If multiple records are found, the user can browse through the records by double clicking on the

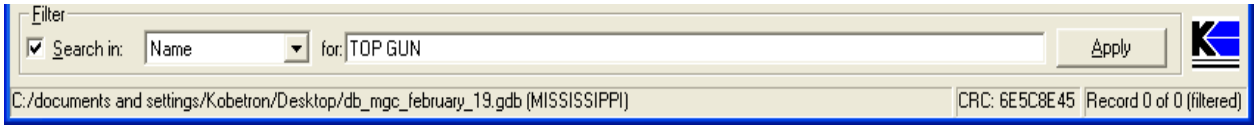


Figure 37

desired record. In the example used, there were a total of 5 records found with the Game Name of “Top Gun”. Double clicking on any of these 5 records will display

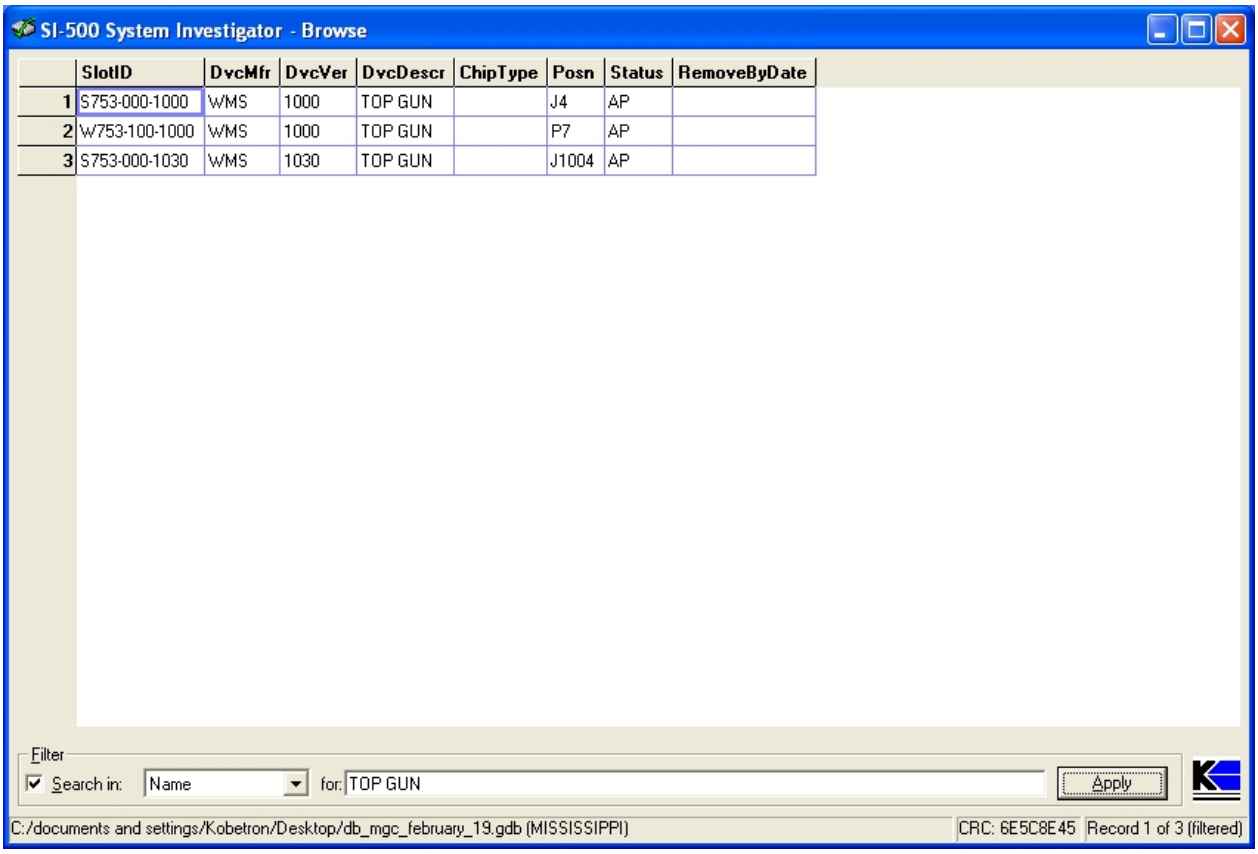


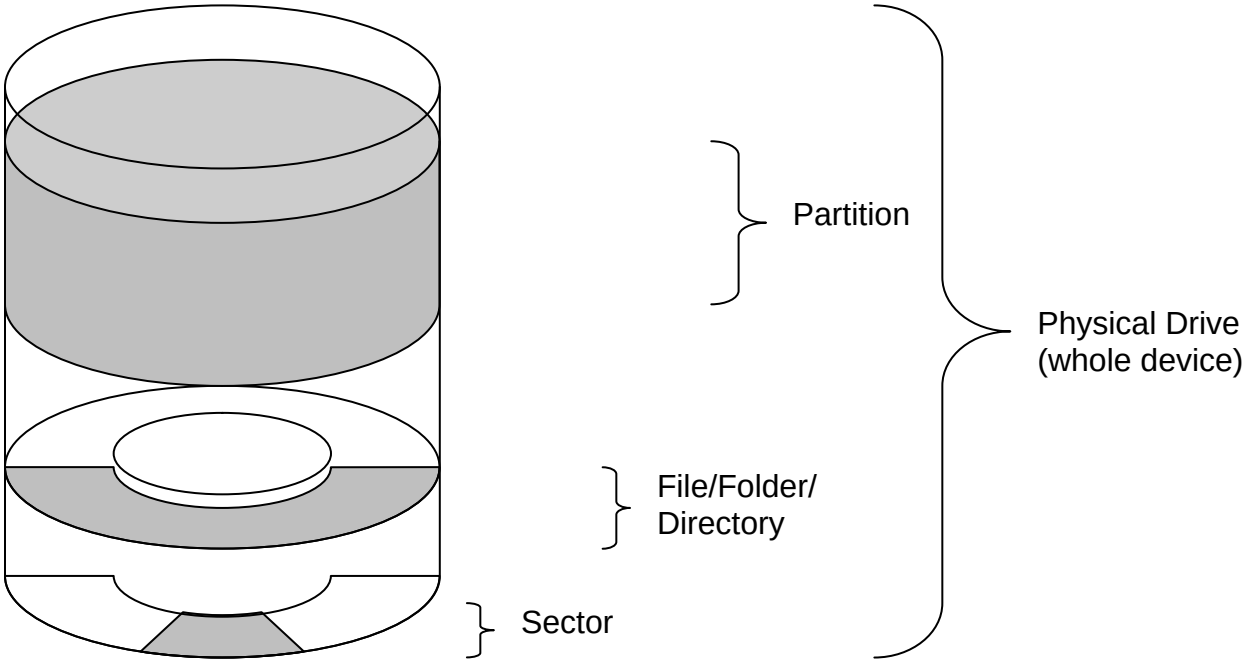
Figure 38

detailed information in a split screen similar to that shown in **Figure 33** of the previous chapter. If the SI-500 does not find a match, a pop-up window will appear to inform the user that no match was found. An audible alarm will also be generated by the computer. An example of this screen is shown in **Figure 39**. Click on the “OK” button to close this window and resume your search operation. To “Browse” the database, follow the same procedure as you did with “Search”, except do not place a check mark (√) in the “Filter” Box. Click on the “Next>” and “<Back” buttons to view the individual records.

Figure 39

FILING SYSTEMS

A device (such as a CompactFlash™, DiskOnModule™, IDE drive, or CD/DVD ROM) usually contains its data organized as follows:



- If you want to validate *the whole Physical Device* use the 'Device' option in the section "Validation Methods" and choose the whole Physical Drive. It *does not matter* how the drive is partitioned, which filing systems are used, or which operating system the drive is normally used with.

- If you want to validate a *partition* then use the 'Device' option in the section "Validation Methods" and select the partition. It *does not matter* how the partition is formatted, or which operating system it is normally used with.

- If you want to validate a *file or folder* (directory) then the operating system you are using must be able to read the files and folders. Once the files are available to browse in your operating system then use the 'File' or 'Files' option in the section "Validation Methods". See example on next page:

Filing System	Windows	Linux
FAT, FAT12, FAT16, FAT32	Already supported	Already supported
NTFS	Already supported	Already supported
Linux Ext2fs & Ext3fs	Try **http://www.fs-driver.org/**, or **http://sourceforge.net/projects/ext2fsd**	Already supported
Linux Reiser	Try ReiserFS from **http://rfsd.sf.net/**	Already supported
Novomatic NOFS	Use 'Device' option - you cannot select individual files	As Windows

Please note that downloaded drivers are not necessarily proven or reliable and you should take care when using them. For other filing systems under Windows you should search for an *"installable file system driver"* for Windows. Alternatively, contact Kobetron™ for details of our Linux version of the SI-500.

If you have any questions or comments, please call:

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