

THOROUGHBRED SOFTWARE VERSION 8.9.0 RELEASE NOTES



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INTRODUCTION

Version 8.9.0 is an enhancement release based on comments and suggestions we have received from the Thoroughbred community; both through the Thoroughbred mail-list forum and our support department.

Some highlights are:

- Thoroughbred 8.9.0 products are no longer compatible with previous versions due to changes in TS Network DataServer.
- Support for: OpenSSL 3.0 (Record Encryption 3.0)
OpenSSL 3.1 (Record Encryption 3.1)
OpenSSL 3.2 (Record Encryption 3.2)
OpenSSL 3.3 (Record Encryption 3.3)
- Support for 128-character files names.
- Input and output format data with JSON strings has been added to the TFF() function via the 'JI' and 'JO' options.
- DUMPing of a string value will use the device width to determine the number of characters to DUMP per line. A COLUMNS= parameter has been added to override the device width when computing the number of characters to DUMP per line.
- Support for foreign characters in CVT() options 32, 1024 and 4096.
- Support for foreign characters when DUMPing string values.
- Support for MySQL 8.0 and MariaDB 10 and 11.
- Default Record Encryption for the Windows BASIC has been changed to 3.0.
- Improved identification strings.
- Files for loading and starting Thoroughbred programs as a service are now included in the master files.
- The 64-bit version of the Report-IV to PDF driver is now included in all Linux masters.
- New WEB License Manager that provides more deployment flexibility to better support Virtual Machines, Linux Containers, and Hosting solutions.

INSTALLATION NOTES VIP AND TBREDCOMM

When installing TbredComm or VIP select the appropriate setup.exe.

- Setup_Tbcomm_7plus.exe installs TbredComm on Windows 10, Windows 11, Server 2016, Server 2019 and Server 2022.
- Setup_VIP_7plus.exe installs VIP on Windows 10, Windows 11, Server 2016, Server 2019 and Server 2022.

The above setups will first determine if any Microsoft pre-requisites are required on the target system. If they are you will be prompted to install them. This is required. When this phase of the installation is complete, the Thoroughbred TbredComm or VIP installation will automatically run.

Important Note: When installing VIP on Windows 10 and Windows 11, the workstation will need to be rebooted after the installation has completed. This one-time reboot is only required when connected to a local Basic, it is not required if connecting through TbredComm.

There is only one install package for TS Environment™ for Windows, it is not platform dependent.

There is only one install package for TS Network Basic with DataServer™, it is not platform dependent.

Please refer to the appropriate 8.9.0 manual for detailed installation instructions. Note: The installation instructions have not changed for 8.9.0. These are available for viewing and download from our website: [Reference Manuals](#)

REPORTING PROBLEMS

When reporting problems please be sure to include the file version and the enhancement/problem reference number where applicable.

The Basic's file version can be accessed using the DUMP VERSION directive. From Basic Console Mode type in DUMP VERSION and press the Enter key:

```
READY
>DUMP VERSION

Thoroughbred BASIC CLIENT Level 8.9.0 (06/27/24)
Feature: Record Encryption 1.1
Feature: Journaling
Feature: ODBC Client
File Version: 8.9.0.0627
Computer: INTEL x86_64
OS Name/Level: Linux 5.10.0

*** END OF DUMP
```

The Basic's or other Thoroughbred product's file version can be accessed using the whattb command. From O/S command line:

```
user@system:/opt/tbred/basic$ whattb basic
Thoroughbred BASIC CLIENT Level 8.9.0 (06/27/24)
File Version: 8.9.0.0627
Computer: INTEL x86_64 OS Name/Level: Linux 5.10.0
```

The OPENworkshop and Dictionary-IV version number and release date are available from the Version Manager on the System Administration Menu. To verify the build date of a specific program simply list line 10 of the program.

The VIP (client), TbredComm™, TS ReportServer™ and Gateway for Windows™ build numbers should be verified at the executable level. Please do not use the VIP Version manager. To verify individual executables, open the Tsi\Bin folder. Let the mouse hover over the executable and a tip window will display containing the full file version. Or right mouse click on an executable, select 'Properties', then select the 'Version' tab.

8.9.0 ENHANCEMENTS AND CHANGES

Basic Enhancements

General

- Support for:
OpenSSL 3.0 (Record Encryption 3.0), OpenSSL 3.1 (Record Encryption 3.1),
OpenSSL 3.2 (Record Encryption 3.2) and OpenSSL 3.3 (Record Encryption 3.3).
- Support for 128-character file names.
- Improved identification strings.
- Input and output format data with JSON strings has been added to the TFF() function via the 'JI' and 'JO' options.
- PRM XCALLHELPSIZE changes the XCALL heap buffer size in K. 4-64. Default is 12.
- A Control-B from a TSRemote user now goes to console mode. (BSCA 883 0011)
- Added a "LICENSE.INI is missing" message for license managed basic.
- Added a warning message if the License Manager Heartbeat process cannot be detected when starting a license managed basic.
- DUMPing of a string value will use the device width to determine the number of characters to DUMP per line. A COLUMNS= parameter has been added to override the device width when computing the number of characters to DUMP per line.
- DUMPing of a string value will display foreign characters using #IDSV.LANGUAGE-SUFFIX to determine the language. The foreign characters displayed are the extended ASCII codes based on the Windows-1252-character set.
- DUMP ENCRYPTION displays the encryption information for the running basic, including the record encryption level and whether or not it is enabled.
- DUMP TCB now displays the SME/TCB Switch values when enabled in basic and the SME master switch is on.
- CVT() options 32 (convert lowercase to uppercase), 1024 (remove all characters that are not spaces, tabs or alphanumerics) and 4096 (convert uppercase to lowercase) will now process foreign characters using #IDSV.LANGUAGE-SUFFIX to determine the language code. The foreign characters processed are the extended ASCII codes based on the Windows-1252-character set.
- XFD() strings for options 0, 3 and 4 now report when a file has been OPENed with OPT="REVERSED". Please refer to the Language Reference R-Z manual for the location of this flag.
- TCB(30) returns the variable name entry mode. A 0 will be returned for LONGVAR, the default, and a 1 will be returned for SHORTVAR.
- DUMP TCB now displays the TCB(30) value.
- Web Basic: Files for loading and starting Thoroughbred Web Basic as a service are now included in the master file.

Windows Only

- Programs now built using Microsoft Visual Studio 2019.
- Web Basic: A problem causing an erroneous “too many users running basic” error has been resolved.

Basic Changes

General

- A problem listing a statement containing “LET STR\$=STR(%FORMAT.DATA-NAME(1)) will no longer generate an ERR=30.
- A problem where basic RELEASEs after a non-window terminal is resized has been resolved.
- A problem where DUMP VERSION caused basic to crash has been resolved.
- I/O problems with date type 7 and a 4-digit year have been resolved.
- A problem where basic crashes when the SERVER.MAP file exceeds 36 entries has been resolved.
- Problems processing 20-character data names in a variable length DNE list in XML option of TFF() have been resolved.
- A problem where an ERR=33 is returned by the URL encoding option of TFF() when the encoded string is the maximum string size has been resolved.
- An ERR=46 is now returned when the Base64 encoding option when the encoded string would exceed the maximum string size.
- DCM() now generates multiple packets when the length of the string being compressed exceeds 32,767 characters.
- A problem in DIM() creating a string of the maximum string size has been resolved.
- A problem LISTing a statement with DIM() where the fill character is a null string has been resolved.
- A problem with EXECUTE, OPT=”LOCAL” that was generating an ERR=20 or an endless ERR=30 loop on EXIT has been resolved.
- A problem where a corrupt format was causing Basic to crash when using the ATR() function has been resolved. An ERR=169 will now be returned.
- Problems reconnecting to a Basic/Tbredserv process with TSRemote after the TSRemote process was killed with a signal other than 9 (i.e. SIGKILL) have been resolved.

Windows Only

- Default Record Encryption has been changed to 3.0.
- A problem processing text field data from VIP4 has been resolved.
- Security problems when running Tbredserv have been resolved.

OPENworkshop Enhancements

General

- Added the ability to auto assign TbredComm slave printing mode based on printer table defined inside OPENworkshop. Printer IDs assigned to printer tables starting with STN will automatically be set to Standard mode. Printer IDs assigned to any other printer table will automatically be set to Pass-through mode.
- Allow for multiple T-Connect terminal Tables. MAC browsers require a different terminal table to work. Updated T-Connect functionality as long as the table starts with TCONN.
- If mouse aware is turned on in TbredComm, selecting console mode from the main OPENworkshop menu will turn mouse aware off.
- Allows debugger Local Formats option to work with Basic 8.9.0.

OPENworkshop Changes

Changes

- **Error Handling**
Corrected Restrict Error Debug field in installation record so a setting of N allows you access to the debugger menu.
- **Audit Report 4GLE AUDIT 0001**
Corrected before and after values in IDOL-IV Audit Report.
- **Screens 4GLE SRSC 0002**
Corrected existing field list to only add mandatory fields to existing list.
- **Views 4GLE CVIE 0413**
View with defined start and end range that has short keys (keys ending with 1 or more nulls) no longer get an error 47 in procedure SELSRT1.
- **Views 4GLE CVIE 0410 through 0412**
Multiple issues with reverse mode.
- **Views**
Fixed empty record level security setting.
- **Views 4GL LKUP 0033**
Fixed error 42 with LOOKUP VIEW with filter defined in format.
- **Report to Excel**
Fixed issue where file is not created with an extension.
- **Screen 4GLE CSCR 0198**
Fixed busy record issue on CISAM file with CONNECT SCREEN.
- **Report-IV to PDF 4GLE PDFC 0076**
Fixed where #OOFPDF1.LINES-PER-PAGE not being honored.
- **VIP/Report Server VIP4 MISC 0320**
Added 5-byte message size. Prevents VIP crash when message size is over 9,999.

License Manager Enhancements

General

- New product: The WEB License Manager.
- A new utility program, tslicadm, to display License Managers, Basic processes, WEB Basic processes and user and ghost counts and limits.
- Logging has been enhanced to differentiate output from the License Manager and the WEB License Manager.
- The processing of a Heartbeat can now be logged in LICENSE.LOG by starting the License Manager or WEB License Manager with the -l option.
- Files for loading and starting the License Manager and WEB License Manager as a service are now included in the master file.

License Manager Changes

- Sections have been added to the LICENSE.INI file. The [BASIC] section is used by Basic and the License Manager. The [TBREDSERV] section is used by the WEB Basic and the WEB License Manager.
- Problems with the License Manager Heartbeat program have been resolved.
- A problem with logging has been resolved. Logging will only be enabled if the LICENSE.LOG file exists.
- A problem starting the License Manager that reports “manager already active” has been resolved.

Data Server Enhancements

TS Network DataServer

General

- Files can now be OPENed with the SEP=, FSEP= and REVERSED options. Please note that a compatible version of Thoroughbred Basic/Web Basic must be used when connecting to the TS Network DataServer.
- Files for loading and starting Thoroughbred Network DataServer as a service are now included in the master file.

TS ODBC DataServer

- Files for loading and starting Thoroughbred ODBC DataServer as a service are now included in the master file.

TS DataServer for MySQL

- Enhancements to support MySQL 8.0 and MariaDB 10 and 11.
- A default tmysql.ini file is now included in the master file.
- A configuration file, tmysql.cnf, used to modify the MySQL/MariaDB server settings is now included in the master file.
- Files for loading and starting Thoroughbred DataServer for MySQL as a service are now included in the master file.

TS DataServer for Oracle

- A default tsor.ini file is now included in the master file.
- Files for loading and starting Thoroughbred DataServer for Oracle as a service are now included in the master file.

DataServer Changes

TS DataServer for MS SQL Server

- Settings have been moved out of the Windows registry into TSI.ini and can be managed by TBConfig.exe.

All Applications Enhancements

- Programs now built using Microsoft Visual Studio 2019.
- The WeOnlyDo dll's used by TbredComm and other VIP Suite programs have been upgraded.

TBKeyGen

- Added support to generate ECDSA keys.

All Applications Changes

VIP

- Problems processing a format with a large number of data elements has been resolved.