THOROUGHBRED SOFTWARE VERSION 8.9.1
RELEASE NOTES



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INTRODUCTION

Version 8.9.1 is a maintenance 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:

- Introducing TSWebTerm, the new Thoroughbred Web Terminal which replaces T-Connect.
- Introducing TS DataServer for MariaDB. TS DataServer for MySQL has been forked into 2 products.
- Ghost Security: The number of ghost processes is now limited to the user count of the product. The number of ghosts can be changed via a ghost activation program or the -g option of the product's install program.
- Support for OpenSSL 3.4 (Record Encryption 3.4), OpenSSL 3.5 (Record Encryption 3.5), OpenSSL 3.6 (Record Encryption 3.6) and OpenSSL 4.0 (Record Encryption 4.0).
- Security updates.
- Improved memory allocation.
- Code optimization for GCC 14 and 15.

INSTALLATION NOTES VIP AND TBREDCOMM

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

- Setup_Tbcomm_11plus.exe installs TbredComm on Windows 10, Windows 11, Windows Server 2016, Windows Server 2019, Windows Server 2022, and Windows Server 2025.
- Setup_VIP_11plus.exe installs VIP on Windows 10, Windows 11, Windows Server 2016, Windows Server 2019, Windows Server 2022, and Windows Server 2025.

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 8.9.1 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 8.9.1 (05/01/26)
 Feature: Ghost Security
 Feature: Record Encryption 3.5
 Feature: Journaling
 Feature: ODBC Client
 File Version: 8.9.1.0501
Computer: INTEL x86_64
OS Name/Level: Linux 6.12.0

*** 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 8.9.1 (08/25/26)
      File Version: 8.9.1.0825
     Computer: INTEL x86_64   OS Name/Level: Linux 6.12.0
```

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.

8.9.1 ENHANCEMENTS AND CHANGES

Basic Enhancements

General

- Ghost Security … the number of ghost processes is now limited to the user count of the Basic. When the user count exceeds the system ghost limit of 62, the number of ghosts will be limited to 62. The number of ghosts can be changed via activation with ghostact.
- Support for OpenSSL 3.4 (Record Encryption 3.4), OpenSSL 3.5 (Record Encryption 3.5), OpenSSL 3.6 (Record Encryption 3.6) and OpenSSL 4.0 (Record Encryption 4.0).
- Security updates.
- Improved memory allocation.
- Code optimization for GCC 14 and 15.
- DEV line changes for new SQL DataServer … TS DataServer for MariaDB.
- Passwords are now encrypted when being sent to the TS Network DataServer.
- A program's Password is now encrypted when journaling an ENCRYPT.

Windows Only

- Code optimization for Visual Studio 2019.

Basic Changes

General

- A problem journaling an ENCRYPT via the TS Network DataServer has been resolved.
- Problems journaling events after an ENCRYPT have been resolved.
- A problem where multiple XCALL's were returning incorrect data has been resolved.
- A problem causing basic/tbredserv to crash when it cannot connect to a License Manager has been resolved. These changes have also been back-ported into 8.8.3 and 8.9.0.
- A problem preventing basic/tbredserv from releasing from a License Manager has been resolved. These changes have also been back-ported into 8.8.3 and 8.9.0.
- A display problem when DUMPing string variables in a Ghost have been resolved.
- Problems causing Basic to crash when OPENing a LINK have been resolved.
- An error on startup is displayed when an invalid DEV type value is specified in the IPL file.

Windows Only

- Programs now built to be VAPT-compliant.
- Fixed all the SQL DataServer login prompts to match UNIX/Linux.

OPENworkshop Enhancements

General

- Changes to support TSWebTerm

OPENworkshop Changes

- Multiple fixes to CONNECT VIEW for MSORT
- Corrected interactive debugger for variable information when variable over 78 bytes
- Corrected error 41 when trying to generate a list of more than 20 disk when selecting a disk to compile to in Source-IV.

License Manager Enhancements

General

- Security updates.
- Ghost Security … the number of ghost processes is now limited to the user count of the License Manager or WEB License Manager. The number of ghosts can still be changed via activation via tslicact -g or tslicactw -g.
- A verbose mode option, -v, has been added to the Heartbeat utility programs, tslicuhb and tslicuhbw. This option cannot be combined with the daemon option, -d.
- The Heartbeat utility programs will now try to reactivate unmanaged processes with a License Manager.

License Manager Changes

- Problems with the License Managers that were causing the Heartbeat utilities to crash have been resolved. These changes have also been back-ported into 8.8.3 and 8.9.0.
- A problem where the License Managers updated the user/ghost count when releasing an unknown process has been resolved.
- Display issues with tslicadm when a section missing from LICENSE.INI have been resolved.

Data Server Enhancements

TS Network DataServer

General

- Ghost Security … the number of server connections from a ghost is now limited to user count of the TS Network DataServer. When the user count exceeds the system ghost limit of 62, the number of server connections from a ghost will be limited to 62. The number of ghosts can be changed via activation with tsmgract -g.
- Added event logging for TCBSERV data security events.

TS ODBC DataServer

- Added additional error trap logging to help identify corrupt data.

All SQL DataServers

- Added debug width option to set the width of the debug logging file. The default value is 80.

DataServer Changes

TS Network DataServer

- A problem journaling an ENCRYPT has been resolved.
- Problems journaling events after an ENCRYPT have been resolved.
- A problem opening a device ID when TCBSERV data security is configured has been resolved.

TS ODBC DataServer

- A problem that was preventing the Single-Tier driver from connecting has been resolved.

ALL SQL DataServers

- Problems with excess data being returned to basic have been resolved.
- Problems with comments in the product's ini file have been resolved.

TSI Suite Application Enhancements

All Applications

- Programs now built to be VAPT-compliant.

TbredComm

- The maximum value for Queue Size has been increased to 8192 (K).

Workstation Manager

- The maximum value for Queue Size on the TbredComm tab has been increased to 8192 (K).

TSI Suite Application Changes

TbredComm

- Problems with the Queue size have been resolved.