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TRIPhighway

Release notes

Version 3.5-14
UNIX and Windows



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Introduction

About this Document

This document details the version 3.5-14 of TRIPhighway for all supported platforms.

Supported Platforms

TRIPhighway can be installed on the following platforms:

- Windows (x86-64) 10, Server 2016, Server 2019
- Linux (x86-64) on version 9.x of RedHat Enterprise Linux
- Oracle Solaris (SPARC) version 11.4

TRIP Product Requirements

The Linux version of TRIPhighway requires TRIPsystem 8.3.

The Windows and Solaris versions of TRIPhighway require TRIPsystem 8.1 or TRIPsystem 7.2.

Documentation

TRIPhighway documentation is available in a separately downloadable ZIP archive



Questions and Answers

This section contains answers to some commonly asked questions for TRIPhighway.

How do I get <tripform>, \${tripform} to work?

\${TRIPFORM} outputs the current record only and can be used following a <TRIPRIS> tag or inside a loop of type <TRIPLOOP ris>.

<TRIPFORM> outputs the complete search set. It cannot be used together with <TRIPRIS> or inside a loop.

How do I get the TRIP output format filter <if-changed(fieldname)> to work?

The output format filter <if-changed> is used to control output of a box so that it is output when a specified field is changed in the output stream. This filter will work in TRIPhighway only together with the tag \${TRIPFORM}.

Can I delete the files in the cache directory?

The cache directory for TRIPhighway, specified in the thw.conf file, will contain lots of files after some time. These files are temporary and are used to store information needed by TRIPhighway when processing the search result, e.g. for showing records from the search set or for navigating. As TRIPhighway cannot tell when a search request is no longer needed, it cannot delete these files.

You should set up a job that deletes all files older than a certain period of time in order to keep the number of files as low as possible. Depending on the system load, number of TRIPhighway users and requests, the time period that the files will stay must be decided. In most cases it is sufficient to delete all files older than 12 hours.



Change History

The change history lists corrected issues and new features in latest-first order.

Required Linux version set to RHEL9 [TRIP-5886]

(Changed in 3.5-14)

The Linux build of TRIPhighway now targets RedHat Enterprise Linux 9 and requires TRIPsystem 8.3. The Windows and Solaris builds are unaffected.

Retrieving data from FUZZ search not handled properly [TRIP-5522]

(Changed in 3.5-13)

The retrieval of records from a search made using the FUZZ command was not properly handled. This issue would typically manifest as some records incorrectly being reported as deleted when viewing the search result.

Long field names adaptation [TRIP-5256]

(Changed in 3.5-12)

Partial adaptation for long field names as supported by TRIPsystem 8.1. This change makes it possible to use long field names without risking system stability.

TRIPhighway adapted to Solaris 11.3 [TRIP-5092]

(Changed in 3.5-11)

TRIPhighway is now supported on SPARC Solaris 11.3.

Invalid info when referencing previous search [TRIP-219]

(Changed in 3.5-10)

Referencing a previous search can sometimes incorrectly return wrong or missing information. The problem was caused by an incorrect handling of timestamps in cache file names and lack of PATH_INFO usage.

Added "teaser" output using enhanced KWIC option [HWY-55]

(Added in 3.5-9)

Added "teaser" output using the enhanced KWIC option in TRIPsystem .

A "teaser", i.e. a condensed version of a field content is output using the `${fieldname.Tn}`

where the n argument should specify the maximum size. This is done using the KWIC (Keyword-In-Context) feature provided by the TRIPapi function `TdbGetFocus()`.

E.g. `${myfieldname.T666}` will output up to 666 characters of the field myfieldname, focusing on



search hits and truncating long sentences. Skipped sentences (or subfields) are marked by ellipses (...).

This feature requires TRIPsystem v7.0-2 or later, otherwise the result will be incorrect.

Incorrect data sent when setup problem was found [HWY-54]

(Changed in 3.5-8)

Whenever TRIPhighway detected an error in the setup of the system, an incorrectly formatted 404 message was sent, causing a "bad header" response from the web server.

User login template was not picked up correctly [HWY-53]

(Changed in 3.5-7)

The user login template (login.thw) was not picked up from the application directory.

A User Login screen template file (login.thw) can be located either in an application directory or in the configuration directory (which is the default). The application directory was previously not searched for this file.

Unicode handling enabled [HWY-52]

(Added in 3.5-6)

To set up TRIPhighway for Unicode do the following:

- 1) Make sure that either the web server specifies UTF-8 for everything sent or insert META tags in each TRIPhighway html template.
- 2) Insert the line "encoding UTF8" in the TRIPhighway configuration file thw.conf. TRIPhighway takes the following values for the "encoding" variable in thw.conf:

LA1, LA2, LA3, UTF8, GBK, EUC, SJIS

The default is LA1, so any other encoding must be specified.

Spec. output format with the \${TRIPFORM} var [HWY-51]

(Added in 3.5-6)

The TRIPhighway variable \${TRIPFORM}, used for formatted output of a single record can now take the name of an output format.

The new syntax is: \${TRIPFORM[.format_name]}

No HTML status code in error msg response [B1379]

(Changed in 3.5-5)

Error message responses did not contain a proper HTML status code. Error messages from TRIPhighway should return a HTML status code of 404 to tell web robots not to index such HTML pages.



TRIPhighway XSS vulnerability [B1352]

(Changed in 3.5-4)

The default error message method in TRIPhighway was not XSS (Cross Site Scripting) safe; the search command was returned to the browser without being entified.

Response and disconnect took too long time [B1112]

(Changed in 3.5-3)

The response to a request and the disconnect were too slow (Windows only).

Erroneous lines in thw.conf are shown as is [B0851]

(Changed in 3.5-2 and 3.1-9)

If one line in thw.conf happens to contain a minor typing error, the whole line is shown in an error message. This is a sever error if the typo is located in a line containing login credentials.

Text field summarization [R1034]

(Added in 3.5-1)

TRIPhighway now provides a mechanism to use the TRIP5 feature Text Summarization by introducing a new attribute to the \${TRIPFIELD} variable. See TRIPhighway Reference Guide for details.

TRIPview2 integration providing hit highlight [R1035]

(Added in 3.5-1)

TRIPhighway is now able to communicate with TRIPview2 and to provide hit highlighting. See TRIPhighway Reference Guide for details.

Querying a db without access rights causes a crash [B0983]

(Changed in 3.1-18)

Querying a database without access rights causes a crash if it's not listed in thw.conf.

Hilite with \${TRIPFORM} tag in a loop can lose hits [B0981]

(Changed in 3.1-17)

Using hilite, showing many hits with a loop around the \${TRIPFORM} tag could result in all records NOT being shown.

Use the \${SNHTML} tag if sort max is reached [R0970]

(Added in 3.1-16)

TRIPhighway should use the \${SNHTML} tag if the defined sort max is reached.



For details please refer to the TRIPhighway Reference Guide, specially the new <TRIPIF> elements SORTMAX and SYNTAX.

TRIPhighway might crash if accessed via an old URL [B0956]

(Changed in 3.1-15)

TRIPhighway might crash if not accessed via a recent URL.

NB! Files created in the TRIPhighway cache directory will now get unique names while before they were reused on a regular basis (which was the main cause of the problem). This means that it now is of vital importance that the files in the cache directory are removed regularly as they otherwise will fill up the disk space available.

THW debug option and TRIP error messages [R0953]

(Added in 3.1-14)

Security issues: THW debug option and TRIP error messages can now be changed.

1. The TRIPhighway tag \${DEBUG} can be disabled
2. Message level and related message texts can be set in thw.conf

For details please refer to the TRIPhighway installation guide.

TRIPhighway not xss-safe [B0952]

(Changed in 3.1-13)

Use of the TRIPhighway tag \${FINDSTR} is not xss-safe. (xss = cross-site scripting)

Directory specifications cannot contain spaces [B0950]

(Changed in 3.1-12 and 3.1-13)

Directory specifications in a TRIPhighway application cannot contain spaces.

Security hole when using \${HTML} [B0916]

(Changed in 3.1-11)

The TRIPhighway tag \${HTML} can be misused to view any O/S read accessible file on the web server by tampering with the path. This has now been stopped by disallowing any backwards references in the file path.

Cannot use the FUZZ command [R0913]

(Added in 3.1-10)

In order to use the "FUZZ" search command instead of the default "FIND", the already existing TRIPhighway tag \${FORD} now takes another value, "FUZZ". Set this value and Trip will search using "FUZZ", which enables web style searching and possibility to sort the search result based on rank.



RPATH to libraries missing in thw executable [B0912]

(Changed in 3.1-10)

RPATH to libstdc++.so.5 and libgcc_s.so.1 was missing in thw executable. This problem was only seen on Sun-Solaris systems.

Individual TRIPhighway access causes large thw.conf [R0855]

(Added in 3.1-9)

If database access is given individually to clients via the usage of IP address, user name and password in the thw.conf file, this might lead to very large configuration files if each client is given access to many databases.

It is now possible to give a list of databases together with an IP address as shown in the example below:

```
base x thwdir /apache/htdocs/x
```

```
base y thwdir /apache/htdocs/y
```

```
base z thwdir /apache/htdocs/z
```

```
base x,y,z address 111.222.*.* tripusername password
```

Missing “http://” in database makes links fail [R0852]

(Added in 3.1-9)

If a database has fields containing URLs without a preceding “http://” these will not work as links when used with the standard TRIPhighway tag \${field_name}. A new attribute has been added that will add “http://” if it is missing. Use \${field_name.H} to signal a possibly incomplete URL value.

Failure when opening a cluster without access [B0757]

(Changed in 3.1-9)

Opening a database cluster without access to any of the databases makes TRIPhighway exit instead of showing a login screen.

Failure when opening a cluster with limited access [B0758]

(Changed in 3.1-9)

Opening a database cluster with access only to some of the databases makes TRIPhighway process the available databases and does not trigger a login screen.

Failure when using navigation tags [B0848]

(Changed in 3.1-9)

If the TRIPhighway tags \${SAVEHTML}, \${FROMURL.2} and \${FROMURL.1} are used, there might be a problem with an incorrectly empty temporary cache file with the extension “urs”.



Failure with temporary cluster and single hit [B0858]

(Changed in 3.1-9)

Opening a temporary database cluster where the lists of databases exceed 50 characters will result in an incorrect error message or a crash. In some cases the problem happens only if there is also just one hit of a CCL query.

Possible failure with clusters of different databases [B0861]

(Changed in 3.1-9)

If a database cluster contains databases with slightly different designs, so that field names are not the same in all of them, TRIPhighway might list a complete database instead of a single record if these conditions are met:

- 1) A CCL search contains a reference to a field not present in all databases as well as valid search terms for that database.
- 2) The search is shown using <TRIPLOOP RIS>
- 3) Highlight of hits are turned on
- 4) Records are shown using \${TRIPFORM}, which uses an output format to show a single record.