Release Notes Addendum

This addendum provides information about the testing used to verify defects fixed in the IBM® Tivoli Enterprise Console®, Version 3.8 product.

Preface

The following sections provide information about contacting IBM Customer Support and typeface conventions for this document.

Contacting IBM Customer Support

If you have a problem with any Tivoli software product, you can contact IBM Customer Support. See the Tivoli Customer Support Handbook at the following Web site:

www.tivoli.com/support/handbook/

The handbook provides information about how to contact Customer Support, depending on the severity of your problem, and the following information:

• Registration and eligibility
• Telephone numbers and e-mail addresses, depending on the country in which you are located
• What information you should gather before contacting IBM Customer Support

Other Sources of Information

User groups provide software professionals with a forum for communicating ideas, technical expertise, and experiences related to the product. They are located on the Internet and are available using standard news reader programs. These groups are primarily intended for user-to-user communication and are not a replacement for formal support.

If your Internet service provider does not copy all of these newsgroups, they are available directly from the news.software.ibm.com server:

news://news.software.ibm.com/ibm.software.tivoli.enterprise-console

Conventions Used in This Document

This document uses several conventions for special terms and actions, operating system-dependent commands and paths, margin graphics, or icons.

Typeface Conventions

The following typeface conventions are used in this document:

Term

Lowercase and mixed-case commands, command options, and flags that appear within text appear like this, in bold type.

Graphical user interface elements (except for titles of windows and dialogs) and names of keys also appear like this, in bold type.

Italic

Variables, values you must provide, new terms, and words and phrases that are emphasized appear like this, in italic type.
Operating System-dependent Variables and Paths

This document uses the UNIX convention for specifying environment variables and for directory notation.

This document uses the backward slash (\) convention at the end of a line of example text to indicate that the text shown on the following line has wrapped due to the space restrictions of the page. The example should be interpreted as being on one line.

When using the Windows command line, replace $variable with %variable% for environment variables and replace each forward slash (/) with a backslash (\) in directory paths.

Note: If you are using the bash shell on a Windows system, you can use the UNIX conventions.

Accessing Publications Online

Publications in the product libraries are included in PDF or HTML formats, or both, on the product documentation CD. To access the publications using a Web browser, open the infocenter.html file, which is located in the root directory of the product documentation CD.

When IBM publishes an updated version of one or more online or hardcopy publications, they are posted to the Tivoli Information Center. You can access updated publications in the Tivoli Information Center from the following Tivoli Customer Support Web site:

www.tivoli.com/support/documents/

The Tivoli Information Center contains the most recent version of the books in the product library in PDF or HTML formats, or both. Translated documents are also available for some products.

Note: If you print PDF documents on other than letter-sized paper, select the Fit to page check box in the Adobe Acrobat Print dialog (which is available when you click File —> Print) to ensure that the full dimensions of a letter-sized page are printed on the paper that you are using.

About This Release

This addendum includes information about the testing of defects that were fixed in the Version 3.8 release of this product. This list of fixed defects supersedes the list provided with the Version 3.8 release notes.
Defects Fixed

The following defects have been corrected for this release of the IBM Tivoli Enterprise Console product. The defects are listed by APAR or defect number, which precedes the description of each defect. Note that documentation APARs refer to the Version 3.7 manuals.

- IY22996 The tec_dispatch and tec_rule processes do not handle LIST_OF STRING properly when events containing commas and spaces load from cache.
  Verification Procedure: Ran a scenario that previously demonstrated the problem with LIST_OF STRING incorrectly processing quoted strings containing embedded comma and space characters. The scenario completed without errors.

- IY23295 The Information button does not launch Netscape on the Solaris Operating Environment (hereinafter referred to as Solaris).
  Verification Procedure: Successfully launched the Netscape browser by using the Wake_Up_Netscape task.

- IY24391 The $VENDOR variable in the upg_tec_db_370_to_371.sh script is not set correctly.
  Verification Procedure: Verified that the upg_tec_db_370_to_371.sh script runs successfully on the MSSQL Server product.

- IY25651 The Windows event log adapter sometimes generates a Dr. Watson error when an event message attribute is very large.
  Verification Procedure: Sent large messages (1K, 2K, and 4K) by modifying the tecad_win.fmt file and verified that the Windows adapter functions correctly.

- IY26534 After applying 3.7.1-TEC-0008E, the wtdbspace command generates an error message if the ONCONFIG variable is not set.
  Verification Procedure: Tested the wtdbspace command with Informix 9.2, and verified that the command ran correctly.

- IY27890 When forwarding events from one event server to another, the sending event server queues events if the receiving event server loses network connectivity.
  Verification Procedure:
  1. Created rules to forward events to another event server.
  2. Started sending and receiving on both event servers.
  3. Cleared the database on both event servers.
  4. Started a script to generate events.
  5. Watched the events on the sending server until approximately 100 events had been sent.
  6. Stopped the script and verified that all events were received by the receiving server.
  7. Stopped the receiving server and started sending events again from the sending server.

All events were processed without interruption.

- IY28415 Using a variable list instead of an implicit list for a LIST_OF statement with the all_instances or first_instance predicate prevents the rule from compiling.
  Verification Procedure: Verified that a variable name can be used in place of a literal LIST_OF value when using all_instances or first_instance predicates. Also verified that this functions as it did in Tivoli Enterprise Console version 3.6.2.

- IY30752 Missing JAR files from 3.7.1-TEC-FP02 console installation prohibits the console from complying with bulk data transfer.
Verification Procedure: Set the bulk data transfer flag to True and started several consoles from a different system. Then ran the `netstat -a | grep hostname` command from the TMR server. Observed multiple connections from the system with the consoles running and verified that they were not connected to the bulk data transfer port 9401. After applying the fixpack and repeating the `netstat` command, there were multiple connections to port 9401.

- **IY31257** Rules defined with uppercase attribute names do not run.
  Verification Procedure: Created a rule set that contains upper case slot name. It was compiled and loaded. Verified that the upper case slot name instantiated correctly and that the rule actions ran successfully.

- **IY33394** The `wcrtnvgroups` command creates event groups without filters.
  Verification Procedure: The `wcrtnvgroups` command was run, and the specified number of event groups were created. From the Console Configuration window, the new event groups were displayed and contained the correct filter information.

- **IY33660** Adapters no longer enclose event attributes within single quotation marks.
  Verification Procedure: Using the LogSources file on Windows 2000, events were sent with single quotation marks (') and brackets ([ ]). No parsing errors were generated. A similar scenario was performed on UNIX. Instead of writing to the LogSources file, events were written into the tmp/.tivoli/<FIFO> file.

- **121065** To install a non-TME console on Windows NT®, the correct Java® version must first be installed.
  Verification Procedure: New design in 3.8 now uses Installshield and automatically installs its own Java.

- **123627** If the DBCS string for the `msg` attribute is specified with the text `re:`, filtering will not occur.

- **IY22047** Version 3.7 HPOV adapter fails when 43 events are closed or acknowledged in HPOV.
  Verification Procedure: Verified adapter stays operational when 50+ events are closed or acknowledged in HPOV.

- **IY22170.1** Rule bases do not always copy correctly when the copy is initiated through the Rule Builder GUI.
  Verification Procedure: Verified additional information was added to the IBM Tivoli Enterprise Console Rule Builder’s Guide to ensure that the user makes the proper selections for the preferred results.

- **IY01843** The Rule Builder’s Guide needs to explain what happens when the internal TEC_Notice event “Rule Cache Full: Forced Cleaning” is received.
  Verification Procedure: Verified that the IBM Tivoli Enterprise Console Rule Builder’s Guide now has better definition and description of these particular TEC_Notice events in the Rule Engine Concepts section.

- **IY03520** The upgrade directory is incorrectly listed as /NEW in the User’s Guide. The correct location is /UPGRADE.
  Verification Procedure: Verified the new 3.8 installation guide now correctly points to the /UPGRADE directory for the upgrade images.

- **IY07641** The GUI label in the Edit Adapter GUI for Adapter Configuration Profile is misleading.
  Additional Information: Product is working as designed by putting only the configuration files in this location. We agreed to change the label to **Configuration Directory** to more accurately reflect the purpose of this option.
Verification Procedure: Verified that **Configuration Directory** is properly set and that the adapter distributes properly to the specified paths.

- **IY08645** The `wtdbclear.pl` command takes too long to complete when using it to clear more than 10,000 events.

  Verification Procedure: Ran the `wtdbclear.pl` command and cleared more than 10,000 events in less than a minute.

- **IY13311** The event server queues events when the `CONNECTIONMODE` keyword is set to CO (Connection Oriented) in the `tec_forward.conf` file, and either the sending or receiving event server loses network connectivity.

  Verification Procedure: Four new configuration flags have been introduced that prevent this problem. This problem did not occur after sending events to a server configured to forward events to a second server. The following flags were set in the `.tec_config` file on the forwarding server:

  ```
  getport_timeout_seconds=0
  getport_timeout_seconds_tenths=1
  getport_total_timeout_seconds=0
  getport_total_timeout_seconds_tenths=1
  ```

- **IY14057** When attempting to schedule an ACP distribution, an error is generated when selecting any of the buttons in the Add Scheduled Job window.

  Verification Procedure: A new profile manager and a new profile was created and distributed without any errors.

- **IY14546** The console does not display any indication that the event server has shut down.

  Test Notes: Brought up a Java console, shut down the event server and verified a pop up message is now displayed.

- **IY14631** If the UI Server is not installed on the same system as the event server, the console does not start.

  Verification Procedure: Installed the UI server on a managed node other than the event server. Brought up the Java console with full functionality.

- **IY15475** When the event server is down, any IBM Tivoli Software Distribution events that are sent are not cached.

  Verification Procedure: Halted the event server, generated IBM Tivoli Software Distribution events and restarted the event server and console. Cached events from this product were displayed in the Event Viewer, indicating that the events are caching.

- **IY15799** The `init.tecad_logfile stop` adapter command halts other log file adapters when run from an ACP distribution.

  Verification Procedure: Distributed two adapters, a log file adapter and then a second application log file adapter. Then created a third adapter and distributed with the stop command. The second and third adapters are in their own directories and have the INSTALL_TECADHOME environment variable commented out from the `init.tecad_logfile`. All three adapters worked correctly.

- **IY16090** Unable to assign a filter on the ACL attribute.

  Verification Procedure: Verified that the ACL attribute can be successfully used in a filter. Also used SQL queries to check that a value is in an ACL list.

- **IY17322** Due to an incorrect path in the script, there are incorrect entries in the object database when installing the event console on a managed node using SIS.

  Verification Procedure: Installed a Java console on a managed node using SIS and verified console showed properly in the object database.

- **IY17707** AS/400 message adapter does not start using the STRTECADP recalled from the CLI (PF9) and edited (PF4).
Verification Procedure: Was able to start the message adapter by recalling and editing a previous CLI command.

- IY17813 Event forwarding from 3.6.2 to 3.7 generates extraneous characters, such as the tilde (~), the at sign (@), and the escape character in events. Events consisting of tilde (~) will halt the tec_rule process.

Verification Procedure: Used the task SendEvent to Event Server to send an event from the Version 3.6.2 event server to the Version 3.7.1 event server. Also sent events that had all of the slot values set to a tilde (~) or at symbol (@). This did not stop the tec_rule process.

- IY17964 Incorrect interpretation of %[length]. Instead of "truncate string of any length to 3 characters", this is interpreted as "match ONLY strings of length 3 characters.

Verification Procedure: Tested parsing of FORMAT Logfile_Base.

- IY18135 The troubleticket.sh script does not run without the TME Admin authorization role and the error message does not relay correct error information.

Verification Procedure: Set up a user without TME Admin authorization, and ran the troubleticket.sh script. Ensured that the system correctly informs the user that Admin authority is required.

- IY18278 The postemsg command distorts Japanese characters in the message attribute of the event.

Verification Procedure: Verified that both postemsg and wpostemsg commands with DBCS characters in ja_JP locale function correctly.

- IY18341 The wsetemsg command does not return the appropriate error code when incorrect slot name given.

Verification Procedure: Ran the wsetemsg command with an incorrect slot name and verified the return code.

- IY18504 The scroll bar does not display when adding a filter using the Add SQL button.

Verification Procedure: Tested the Add SQL button and verified that the scroll bar displays correctly.

- IY18758 The tec_ui_server process stops after changing the number of events in the event viewer preferences.

Verification Procedure: From the event viewer menu, used Edit-->Preferences to change the maximum number of events from 1000 to 999. The Java exception no longer occurs.

- IY19497 After minimizing the event viewer from the console bar graph, the event viewer is not maximized when returned to view.

Verification Procedure: Started the event viewer for eventgroup1. Minimized the Event Viewer. Clicked again on the Summary chart graph for eventgroup1 and the viewer was restored.

- IY20202 The cr_tec_db.sh script fails if the server ID field of the RIM object is not set.

Verification Procedure: Attempted to manually create an Oracle RIM object without the Server ID set. Ensured that the system correctly halts the script and informs the user that the "Server ID" is required.

- IY20879 The graphical rule builder runs out of memory and terminates when the rule base is overloaded. For example, this occurs when 5 rule bases are created with 30 rules each.

Verification Procedure: Created 10 rules sets of 30 rules each, and the rule builder did not exhibit the memory error.
• IY20979.1 Version 3.7 TMF_SELF and WD_DISPLAY environment variables are not working properly.
  Verification Procedure: The TMF_SELF variable is no longer used for trouble ticketing. Verified that the WD_DISPLAY variable is now properly set when the trouble ticket item is selected on the Java console menu.

• IY21007.1 When using `wmigcon` with different administrator and console names, the administrator name gets changed to that of the console
  Verification Procedure: Created user myUser and assigned it to the console myConsole on the IBM Tivoli Enterprise Console, Version 3.6.2. Upgraded to Version 3.8 and ran the `wmigcon` command. It was possible to login to the console myConsole with the user myUser.

• IY21084 Distributing the 3.7 OS/2 adapter adds extra carriage returns to text files.
  Verification Procedure: Verified the OS/2 adapter distributed without adding extra carriage returns.

• IY21383.1 The `drop_duplicate_event` predicate fails.
  Verification Procedure: Tested with the above rule loaded and verified that the TEC_Notice events were dropped as expected.

• IY21582 Current refresh times make it difficult to select hosts for running the task. User gets half way through setting up the task and the host gets deselected upon the refresh.
  Verification Procedure: Verified that the host stays selected even when the refresh occurs so the user can complete their task.

• IY21910 The year is not pulled from the Alert Adapter with the CDS file on AS400. Events arrive with only month, day, and time.
  Verification Procedure: Verified events are now sent with the year.

• IY21944 The `NWGENCDS.NLM` file is missing from a standard installation.
  Verification Procedure: Verified that the nwgencls.nlm file was included in image and functioned properly on NetWare 5.1.

• IY22058 The `wrb -cprb` command does not maintain the `.load_classes` file properly if there is an entry between the `root.baroc` and `tec.baroc` file.
  Additional information: For example, the order of the following files changes.
  Original order:
  `root.baroc`
  `custom.baroc`
  `tec.baroc`

  Changed order:
  `root.baroc`
  `tec.baroc`
  `custom.baroc`

  Verification Procedure: Created a rule base with BAROC files like above. Copied the rule base into a new rule base and verified that the order in the `.load_classes` file remained the same.

• IY22140 The eif_ep_engine process core dumps when clearing cached events after a network or Tivoli Management Framework server failure.
  Verification Procedure: Used the customer rule set that caused problem. Verified events were cached, dumped and cleared successfully.

• IY22158 Adapter file created for process number is not deleted when the adapter is stopped.
Verification Procedure: Installed an adapter using the process to install a non-TME adapter on OS/2 found in the IBM Tivoli Enterprise Console Adapter’s Guide. Checked that the file with process number was created. Stopped the adapter, and verified that the file was deleted.

- IY22170 Rule bases do not always copy correctly when the copy is initiated through the graphical rule builder.
  Verification Procedure: Copied a rule set using the GUI and verified that it was identical to the source.

- IY22406 Acknowledge slot not filled in if admin name has space (such as John Doe) when event is acknowledged.
  Verification Procedure: Verified slot name is properly set when the administrator name has a space in it.

- IY22704 When the Severity column is removed from the event console, the visible events are not colored according to severity.
  Verification Procedure: Verified that the user cannot remove the Severity column from the Event Viewer display.

- IY23065 The tec_dispatch process sporadically ends with an exit code of 211.
  Verification Procedure: Generated tens of thousands of events, and the tec_dispatch process never generated an error code of 211.

- IY23102 The documentation needs to reflect user restrictions for non-root users when creating a new rule base.
  Verification Procedure: Verified in documentation that these restrictions are defined.

- IY23442 The Time Received column in the console only allows ascending sorting.
  Verification Procedure: Sent events and brought up a console. From the Preferences menu, selected to sort the events in the ALL Event section in ascending order on Time received slot. Verified that the events in the all events were sorted correctly. Changed the sort on the time received slot to descending from the Preferences menu and then verified that the events were sorted correctly. Performed the same test on the working events.

- IY23766 The check_threshold template always fails.
  Verification Procedure: Created a rule using the check_threshold predicate, sent events to exceed threshold and verified action.

- IY23919 The Windows NT event log adapter generates a Dr. Watson error when sending security log events.
  Verification Procedure: Used the tecad nt adapter to receive over 20000 Windows event log events. Tested the wtdumprl command and stopped and restarted the event server. No errors occurred.

- IY23939 Changing decimal settings from a period (.) to a comma (,) on Windows NT prohibits the creation of new event groups.
  Verification Procedure: Changed decimal symbol period(,) to a comma (,) and created an event group with new symbol. Restarted console and the event group with the decimal displayed correctly.

- IY23941 The console does not retain column width or location changes after applying 3.7.1-TEC-0015E.
  Verification Procedure: Verified that width and location of columns in the console can be changed and saved.

- IY24011 The re_split_event_id predicate causes event server to abruptly halt.
  Verification Procedure: Configured an event server to forward to a second server. This second server had a rule loaded that used the re_split_event_id predicate.
Sent an event to the first event server, which forwarded the event to the second server. The second server continued to run without errors.

- **IY24129** Filtering on the AS400 adapter does not work properly.
  Verification Procedure: Verified that FilterMode=IN and FilterMode=OUT function as designed and are properly documented in the *IBM Tivoli Enterprise Console Version 3.7.1 Adapter’s Guide*.

- **IY24367** Generating a CDS file from an FMT file containing an incorrect `printf` statement causes the adapter to core dump.
  Verification Procedure: Located a line in the `tecad.fmt` file that looked similar to `msg=PRINTF("error %s", SV1)` and removed the $V1. Then, tried to generate a new CDS file with the `win_gencds` command (for Windows), or `logfile_gencds` (for AIX), and verified that an appropriate error message was displayed.

- **IY24397** When events are sent via the FIFO file, the Solaris adapter exhibits a small memory leak after applying 3.7.1-TEC-0001.
  Verification Procedure: A long run test was performed over the course of three days. During this time, an event was sent every second. The log file adapter virtual memory grew to 105KB instead of the 8MB it previously grew to.

- **IY24606** When the sorting criteria in the event viewer is modified and saved after applying 3.7.1-TEC-0001, the `tec_ui_server` process stops.
  Verification Procedure: From the Viewer menu selected Edit--> Preferences and then the Working Queue. Changed one of the columns to sort in ascending order and clicked OK. No errors with the `tec_ui_server` process occurred.

- **IY24673** The console severity colors are not retained after restarting the console.
  Verification Procedure: Verified that all severity colors were correct after restarting the event server.

- **IY24718** The `tec_config` process exhibits a memory leak and improperly stops.
  Verification Procedure: The `tec_config` process ended successfully after the console was stopped. The console did not exhibit the memory leak.

- **IY24812** DBCS characters in events from Windows NT and Windows 2000 appear distorted on the event server.
  Verification Procedure: Verified that both the `postemsg` and `wpostemsg` commands functioned properly in a ja_JP locale with DBCS on Windows. Also verified that events sent from a non-TME adapter were successfully sent. All events arrived as expected and without distortion.

- **IY24964** Event console runs out of memory when performing administrative actions over a long period of time.
  Verification Procedure: Ran a script to continually send events to the Event Server and configured several automated tasks. Allowed the system to operate over an extended period of time and ensured that the `tec_console` process did not continue to leak memory.

- **IY24976** Events containing a number sign (#) do not load into the event cache after restarting the event server. Thus, duplicate rules do not function.
  Verification Procedure: Used the customer’s rule set that exhibited this problem. Verified that the events were cached and dumped successfully.

- **IY25043** A customer generated test event sent to the Windows NT system log caused the Windows NT event log adapter to generate a Dr. Watson error.
  Verification Procedure: This problem was caused by an error in the pre-filter logic. The Windows NT adapter was extensively tested using pre-filters.

- **IY25047** The console does not function if the Severity and Status columns are not listed in the current column list.
Verification Procedure: Verified that the Severity and Status columns can be removed from the list of columns to display and that the event viewer starts as expected.

- IY25072 Events fail to parse correctly in the tec_reception process after the UTF-8 conversion.
  Verification Procedure: This APAR is a place holder for an investigation into the UTF8 conversion functionality. To maintain consistency between this document and the Tivoli patch tracking tool, the APAR has been listed.

- IY25074 The console takes too much time to display when more than ten task libraries are loaded.
  Verification Procedure: Loaded 20 task libraries and launched the console. The console displayed as expected within 30-40 seconds.

- IY25101 With Informix 9.2/Framework 3.7.x and 3.7.1-TEC, the wt commands do not function.
  Verification Procedure: Tested the wt commands in a similar TME 3.7.1 environment with Informix 9.2, and all commands functioned as expected.

- IY25149 The options available in the .tec_config file need to be documented.
  Verification Procedure: Verified an appendix has now been added to the reference manual that explains the parameters in question.

- IY25233 The sending event server queues events when attempting to forward events to another (receiving) event server when the receiving event server is down.
  Verification Procedure: Configured an event server to forward events to another event server. The receiving event server was shut down and the forwarding event server continued to properly process and forward events and cache events.

- IY25243 The tec_console -e event_group_name does not function as documented.
  Verification Procedure: Verified that the tec_console -e event_group_name command works correctly.

- IY25372 Changing event filters and deleting and recreating a console causes options to revert to original console.
  Verification Procedure: Created a console and had it filter for specific events. Started the console and then stopped the console. Deleted the console and then recreated it with the same name. Added a filter for different events. This filter remained and did not revert.

- IY25381 The NO_UTF8_CONVERSION=NO option distorted characters in events sent with the wpostemsg command.
  Verification Procedure: Verified the wpostemsg command works correctly when using the NO_UTF8_CONVERSION=NO flag.

- IY25766 Consoles on both Tivoli and non-Tivoli machines perform actions slowly in the Event Viewer during the initial start.
  Verification Procedure: Used default rule base and generated 5000 events. It took significantly less time for the console to start.

- IY25922 The ACPEP-EP dependency set included some endpoint DLL files which should be distributed by Tivoli Management Framework.
  Verification Procedure: Tested the ACP profile distribution to all supported endpoints.

  Verification Procedure: Successfully tested AS/400 Filtering with the asterisk (*) wild card character.
• IY26103 The scope of the variable in Prolog passes beyond the rule in which the variable instantiates.
  Verification Procedure: A sample rule that illustrates this problem was tested and verified that the variable’s scope is now working correctly.

• IY26241 With rule base targets, the files with .conf extensions that are required for the re_send_event_conf predicate do not copy to the .rbtarget TEC_RULES directory. Thus, the predicate fails.
  Verification Procedure: A new option has been implemented to allow importing of data information. We verified the wrb -imptgtdata command properly imports the configuration files into the correct .rbtargets directory.

• IY26281 The Information button does not always load the correct URL path.
  Verification Procedure: The event viewer Information button was verified to be working correctly, with the exception of running the console on Windows NT. See the Known Defects, Limitations and Workarounds section of the IBM Tivoli Enterprise Console Release Notes, Version 3.8 for additional information about this defect.

• IY26332 During an event storm, the tec_* processes appear to stop functioning, and the number of PROCESSED and QUEUED events stop, even though the tec_* processes are still running.
  Verification Procedure: Created several events storms to verify that tec_gateway did not stop processing or go into a loop.

• IY26465 Using the ATTR_SEQUENCE predicate in a create event sequence rule, then using first related event, the expected relation is not correctly returned.
  Verification Procedure: Created a rule containing an attribute sequence. Sent events fitting the attribute sequence rule and ensured that they were correctly correlated according to the rule.

• IY26995 first_instance and all_instances are not returning superclass events
  Verification Procedure: Verified that the first_instance and all_instance predicates return superclass events. Testing with the following:

```prolog
all_instances(event: _dup_event of_class _dup_class
where [
  status: outside ['CLOSED']
], _event - 3600 - 3600
```

This returns all events including superclass events

• IY27045 The SNMP adapter documentation does not contain information regarding the NetWare SNMP traps.
  Verification Procedure: Additional information for SNMP adapter is now available. This information will be included in IBM Tivoli Enterprise Console, Version 3.8 Adapter’s Guide.

**Note:** Consult the tecad_snmp.baroc file for information regarding generic traps as well as NetWare, Cisco, and Cabletron traps.

• IY27154 Environment variables are different for scripts run from the console and a rule.
  Additional Information: For example, the environment variable used in a rule will be classmate and in the GUI will be CLASS_NAME
  Verification Procedure: Tested running the TroubleTicket.sh and nvsynch.sh scripts from the console and from a rule. The environment variables are now set the same.

• IY27194 After the wiseqmsg command fails, the RIM_Oracle_Agent process does not end.
Verification Procedure: Ran multiple `wlsemsg` commands with unusable consoles. All RIM processes were closed after the completion of these commands.

- IY27198 The `global_exists` predicate does not locate global variables as it should.
  Verification Procedure: Created a rule that contains the `set_global_var` predicate. Used `global_exists` predicate in same rule to close an event if it exits.

- IY27199 The `saveGlobals` predicate does not successfully write all variables to a file.
  Verification Procedure: Used `saveGlobals` to write variables to a file. Checked the file to verify the variables were correctly written.

- IY27500 Enabling single port bulk data transfer causes intermittent errors when using the `wrb` command.
  Verification Procedure: This fix requires Tivoli Management Framework 3.7.1 patches 003 and 008 to be installed. After the patches were installed, restarted the `oserv`. The `wrb` command works correctly with the `single_port_bdt` flag set to `TRUE`.

- IY27504 `tecad_snmp` halts after it receives malformed trap.
  Verification Procedure: Multiple malformed traps were sent to the adapter as part of SNMP CERT testing and the adapter did not stop.

- IY27537 The FMT file incorrectly matches events containing an SQLSTATE statement.
  Verification Procedure: A `logfile.fmt` file was generated with the following:
  
  \[
  \text{FORMAT } \%s \%s \%s \%s \%s \%s \%s \%s \%s \%s \%s SQL Error: \%s\% SQL State: \%s
  \]
  
  The adapter was then started with LogSources pointing to a file with the following entry:
  
  "ICMPLSG ICMDEFINEPRIVGROUP 0388 01/21 14:19:34.438 "
  "ICMADMIN #1 #21141831267 SQL Error: SQL0954C Not enough \n  "storage in the application heap to process the statement. SQLSTATE=57011 SQL State: SQLSTAT 57011: Virtual storage \n  "or database resource is not available." The first \%* matched correctly with:
  "SQL0954C Not enough storage is available in the \n  "application heap to process the statement. SQLSTATE=57011."

- IY27585 When using the `wconsole` command, user names and passwords have to be supplied with the command.
  Verification Procedure: Verified a new feature where the `wconsole` command now allows passwords to be specified using stdin.

- IY27591 The `wmigcon` command incorrectly migrates event group filter pattern matching from 3.6.
  Verification Procedure: See the note about `wmigcon` in the Notes section of the Fixpack 3 readme file.

- IY27780 The `wsetemsg` command does not set NULL when two double quotation marks (""") or two single quotation marks ("""") are placed after the equal sign. A blank must appear between the double quotation marks.
  Verification Procedure: Ran the `wsetemsg` command with several different values for the `msg` slot (such as "abc", "", """"). Ensured that the attribute value was set appropriately.

- IY28071 During start up, if the event server unexpectedly shuts down, the `oserv` process restarts, or an automated task is running, the console does not show any events in the Priority view or Summary view.
Verification Procedure: Forced a database server shutdown, and forced the oserv process to shut down and restart while running automated tasks. Verified that the console displayed events in both the Priority and Summary views.

- IY28074 When event status changes to closed or acknowledged in one console, the status is not updated in other open consoles.
  Verification Procedure: Closed and acknowledged events in one console and the status was updated automatically on both consoles without an event reload. Verified that the event being closed is the most recent in the Event Viewer, and it is closed prior to the first refresh.
- IY28310 The `wrb` command does not catch data type syntax errors in the BAROC file.
  Verification Procedure: Used the `wrb` command to compile a rule set which used a data type of `string` instead of `STRING`. The compiler successfully flagged the error.
- IY28404 Using the following line in a BAROC file and issuing the `wrb -imprbclass` command generates an error: `descendant: LIST_OF STRING, default = []`;
  Verification Procedure: Successfully compiled and ran rules and BAROC files using `LIST_OF STRING, default=[a,b,c]` syntax. Verified that the default values were set properly during rule processing.
- IY28434 Create operator fails on the console, after applying 3.7.1-TEC-0001, when a task name contains an exclamation point (!) or a space.
  Verification Procedure: Created a task with an exclamation point (!) in the name and one with a space in the name. Verified that after restarting the console you can still create operators.
- IY28443 Create operator fails on the console when a task name contains a hyphen (-) or a space after applying patch 3.7.1-TEC-0001.
  Verification Procedure: Created a task with a hyphen(-) in the name and one with a space in the name. Verified that after restarting the console you are still able to create operators.
- IY28972 The UI server unexpectedly halts when modifying a large (more than 40) number of events.
  Verification Procedure: Modified more than 40 events in the console, and the UI server continued to function as expected.
- IY29083 Problems with the run time environment on, Microsoft Windows (NT and 2000), causes small block errors.
  Verification Procedure: The tecad_nt and tecad_win adapters sent events to the event server, without causing the small block errors.
- IY29086 Rules criteria matching fails when comparing a whole number in an attribute defined as a string.
  Verification Procedure: Added a rule which contained a matching criteria of `sub_source:equals '0'` and verified that it compiled and ran correctly.
- IY29143 The pidproc function does not work correctly in `init.tecad_logfile` and returns nothing. Trying to stop the adapter using this command fails.
  Verification Procedure: Verified that the log file adapter could be properly stopped using `init.tecad_logfile stop`.
- IY29222 Logfile Format Editor does not display Japanese characters correctly.
  Verification Procedure: Verified all characters displayed correctly for the Logfile Format Editor in our Japanese environment.
- IY29351 The Windows event log adapter generates a Dr. Watson error during an event storm of 400 or more events.
Verification Procedure: Created an event storm and verified that the Windows adapter continues to function correctly.

- IY29353 Special characters that are known to cause problems with the event server need to be documented.
  Verification Procedure: In the documentation, Ctrl-A and Ctrl-B characters are noted as characters that cannot be sent in event data. Also listed in the documentation is that the escape sequences \001 and \002 that can be sent instead.

- IY29406 The NT/WIN2K short cut for tec_console.cmd does not work correctly when there are spaces in the path name and the nowindows option is specified.
  Verification Procedure: Verified that the tec_console.cmd shortcut properly started the event console when the file was located in c:\tec console\tec_console.cmd.

- IY29506 The Rule Builder's Guide does not include the time filter in the correlation rule example.
  Verification Procedure: Example was verified to now be correct in the Rule Builders Guide.

- IY29651 During an event storm on systems using the DB2 database, the tec_dispatch process generates an error and events are no longer processed.
  Verification Procedure: Thousands of events were sent, the server was recycled, thousands more events were sent, the process was repeated and the problem was no longer encountered.

- IY29701 The ui_server trace2 stops the tec_ui_server with "OSERV NOT RUNNING ERROR"
  Verification Procedure: Turned on tracing for the ui_server and started the server and console. The problem was not observed.

- IY29820 The Rule Builder's Guide incorrectly lists the fclose operation in a separate action block. The fclose and fopen operations must be in the same block.
  Verification Procedure: Verified the Rule Builder Guide now is correct as follows:

```
action:write_predicates:
    fopen(_fp,'maint_mode.pro ',w),
    flisting(_fp,'unix_hosts ')
    fclose(_fp)
),
```

- IY29889 The non-TME log file adapter does not start on AIX 5.1 systems.
  Verification Procedure: Verified the non-TME log file adapter starts properly on AIX 5.1 systems.

- IY29922 Adapters configured to send events to the gateway, cache events when the event server shuts down. Once the event server restarts, events continue to cache.
  Verification Procedure: Verified documentation now directs users to source the lcf_env before trying to send events which prevents problem.

- IY29937 When a console filter contains a long SQL filter statement, all event groups are removed and new event groups cannot be created.
  Verification Procedure: Verified that when the selected SQL script is longer than required, it displays an error message. It also prohibits such long scripts to be saved, avoiding future errors.

- IY29944 Java console:- Change of filter name not saved until console is restarted
Verification Procedure: Created a filter for an event group. Changed the name of the filter and verified the change was dynamically updated and did not need to recycle the console for the change to take effect.

- IY30173 The `tecadwins.exe` program exhibits a memory leak after applying 3.7.1-TEC-0017E and 3.7.1-TEC-FP02.
  Verification Procedure: A Windows Performance alert was configured to send one alert per second to the Windows application log. This caused the tecadwins adapter to send a 1KB event to the event server every second. The test was run overnight to allow the virtual memory size of the adapter to grow to the designed maximum of 16K events, in this case 16K*1KB = 16M, plus 2MB for the adapter initial virtual size. Therefore, the unbounded memory leak reported by this APAR was fixed. Note that the max event size is 4KB, thus the potential max virtual size is 64M beyond the initial 2M virtual size.

- IY30318 The Event Viewer takes about 20-30 seconds to close. The `Preferences` menu (`Edit -> Preferences`) does not function after restarting the Event Viewer.
  Verification Procedure: Closed the Event Viewer then reopened the console and the `Edit -> Preferences` menu was operating correctly. Verified both by closing the Event Viewer as well as the console.

- IY30405 The IBM Tivoli Enterprise Console does not properly handle dollar sign ($) in event slots. Verification Procedure: Verified that the dollar sign ($) is properly handled. It must be escaped with a backslash (\) or it gets treated as an environment variable. When tested with:

  ```
  wpostemsg -m "ABC\$ABC" adapter_host="ABC\$ABC" EVENT EVENT
  ```

  the `wtdumpml` command showed the values as ABC$ABC

- IY30458 Events containing custom slot values with either punctuation or date and time do not get populated into rules cache at start up.
  Verification Procedure: Sent an event with custom_msg with a semicolon (;) character and custom_date fields, and recycled the server. Printed out the cache, and the event with the custom attributes was in the cache.

- IY30587 Every line of a LogSources file is sent with the addition of a new line, after applying patch 3.7.1-TEC-0017E.
  Verification Procedure: Log file adapters were installed and the FMT files were modified to accept every entry in the log source files. When 100 events were sent, the Event Viewer displayed 100 events. When the 101st event was sent, the event count in the Event Viewer was 101, as expected.

- IY30618 The `wrb` command will not compile a timer rule if the all_instances or first_instance predicates where clause contains a custom attribute and a `within[ ]` statement.
  Verification Procedure: Used a sample rule that has an all_instance or first_instance predicate and a custom attribute. Also verified proper behavior for a superclass with subclasses that do not have the custom attribute defined. In this case, the following warning from the compiler is expected:

  ```
  "EC03136W Attribute filter 'cut_slot': attribute
   is not always defined for instance of EVENT"
  ```

- IY30659 LIST_OF STRING attributes are not loaded from the database correctly after applying patch 3.7.1-TEC-FP02. This causes event correlation problems.
  Verification Procedure: Created an event class containing LIST_OF STRING with default = ["This is a", "Test to see if it works"]. Then sent an event with nothing in the slot so that the default value would be used. The `wtdumpml` command showed the event with the empty slot, but the `wtdumper -d` command displayed the correct strings with no extra commas in them.
- IY30668 Events selected in the console become deselected after the console automatically refreshes.
  Verification Procedure: The refresh interval was set to 5 seconds. An event was selected and it was not deselected by subsequent refresh intervals.

- IY30672 A timer_rule with an exec_task action fails to run.
  Verification Procedure: Created a new log_default.rls that tests changes in how action clauses in timerRule and changeRule are parsed. This rule verifies that the action label is not expanded into an action and that the timer rule does not fail on the action label.

- IY30726 The troubleticket.sh script is not being passed TroubleTicket for $1
  Verification Procedure: Added the following lines to TroubleTicket.sh:
  ```
  exec > /tmp/TT.out
  echo "0 is $0"
  echo "1 is $1"
  Generate a TroubleTicket through the console.
  cat /tmp/TT.out and we find "1 is TroubleTicket"
  ```

- IY30830 Installing the 3.7.1 UI Server and the fix pack 3.7.1-TEC-FP02 UI Server component with SIS 3.7 in the same step fails.
  Verification Procedure: Used SIS to install Version 3.7.1 and fixpack 3 at the same instance in one step. Install was successful and the console started successfully.

- IY30907 The wsetesmg command allows user to set an event from CLOSED to ACK
  Verification Procedure: Verified that an event cannot be moved from CLOSED to ACK unless a force option is specified.

- IY31123 Removing a host from the Current Hosts dialog box of the Task Execution window in the console generates a Java exception and the host is not removed.
  Verification Procedure: Target host was assigned in the Task Execution window and then unassigned multiple times with no Java exception.

- IY31139 Extra events are sent by the Windows NT event log adapter, when polling a log file specified by the LogSources option.
  Verification Procedure: Verified that the Windows NT log adapter does not generate an extra event when an entry is written to the log source file.

- IY31146 The troubleticket.sh script does not run with error ECO2041E for a user with sufficient roles (user, RIM_UPDATE, RIM_VIEW).
  Verification Procedure: Verified that the troubleticket.sh can be run as a user with the listed roles.

- IY31248 Columns in the console event viewer do not sort correctly with customer rule base loaded.
  Verification Procedure: Compiled and loaded the customer rule base that exhibits the problem. Restarted the event server and sent several NT_Base class events, each time changing the origin. Started a console, added the origin column to the view and sorted in ascending order. The events were reloaded, and sent new NT_Base class events from different origins. The origin field displayed correctly in all events, and the columns remain sorted correctly.

- IY31269 Rules using the exec_program predicate do not pass variables to shell scripts, after applying fix pack 3.7.1-TEC-FP02.
  Verification Procedure: Ran a rule action with exec_program(_event,’/tmp/run’,’%os’ ‘%os’ ‘%os’, _msg,’testing’,_host,’NO’) that demonstrates the problem. When this fix was applied, a rules trace shows the arguments pass correctly.
• IY31325 Rules with uppercase attribute names do not compile after applying fix pack 3.7.1-TEC-FP02.
Verification Procedure: Used BAROC files and rules that demonstrates the problem. These compiled as expected, and only generated the following warning message, which can be ignored:
"EC03136W Attribute filter 'cut_slot':attribute is not always defined for \ instance of EVENT"

• IY31411 The pattern, %$*, in the tecad_logfile.fmt file does not pattern match against a blank message field.
Verification Procedure: Created a logfile.fmt file with the following entry, and generated the CDS file:

```
FORMAT EVENT %s;star;%s*;%s*;%s*;%s*;%s+msg $1"
```

The adapter was started with log sources pointing to a file with entries containing empty strings in all %$* (star modifier) positions. Each entry matched correctly.

• IY31418 The wtdbclear -e -p FALSE -t 0 command fails to run and returns an error.
Verification Procedure: Verified the wtdbclear -e -p FALSE -t 0 command ran correctly.

• IY31517 After applying fix pack 3.7.1-TEC-FP02, the FMT files are incorrectly distributed to the adapters.
Verification Procedure: Verified all ACF FMT files get distributed to the correct language directory.

• IY31695 The Rule Builder’s Guide incorrectly states a file name requirement in the wrb command example.
Verification Procedure: Verified documentation now contains the proper command: `wrb -delbrule rule_set rule_base`

• IY31703 Defects In LIBTEC lib causing a leak in the number of handles.
Verification Procedure: Tested with the ceiftme.exe sample adapter. On the first put event, the number of handles increased from 20 to 25, and then dropped back to 23. Each subsequent put event, increased the number of handles back to 25, before dropping back to 23. So no handles were being leaked.

• IY31813 Invalid warning: When compiling a rules base, and you are using first_instance and you instantiate a slot that is not defined by the class EVENT, you receive the following error: EC03136W Attribute filter "probe": attribute is not always defined for instances of EVENT.
Verification Procedure: Tested with a rule base that had the following in one the rules:

```
first_instance(event: _old_event of_class 'Su_Failure'
    where [ to_user: equals 'root'],
    _old_event - 600 - 600)
```

Compiled and did not receive any messages.

• IY31847 A log file adapter sends all events in a log source file when the files last update time is modified but the file size remains the same.
Verification Procedure: Verified that changing the last update time of a log source file causes events to be sent again if the following configuration keyword has been introduced: NewLogBasedOn=ctime. See the Notes section in the Fixpack 3 readme file for more detail.

• IY31869 DBCS characters embedded in events sent from a TME source become distorted at the event server.
Verification Procedure: The flag NO_UTF8_CONVERSION=YES was added to the configuration file of the adapter. This flag ensures that double byte conversion does not take place in the EIF, since events are already converted to UTF8 to properly compare with the format file. This is for both TME and non-TME adapters. To verify the solution, events from both TME and non-TME adapters were sent to the event server. All events were received correctly. The output of the gateway cache was also checked to verify that it was in UTF8 instead of local encoding.

- IY31895 There is insufficient information for non-TME multiple adapter configurations in the IBM Tivoli Enterprise Console Adapters Guide.

Verification Procedure: Verified the Adapters Guide now better explains the usage of LCF_WORK_DIR, LCF_LIB_DIR and LCF_DAT_DIR.

- IY31911 After applying fix pack 3.7.1-TEC-FP02, Tier 2 adapters have limited functionality.

Verification Procedure: Distributed appropriate adapters to all Tier 2 endpoints. For a Linux gateway, the following patches were installed on the gateway:
- 3.6.1-TMF-0034
- 3.6.1-TMF-0062
- 3.7-TMF-0044 (supersedes 0021)

- IY31979 The ServerLocation option in the tec_gateway.conf file is ignored if the ServerLocation option in the log file configuration file is blank.

Verification Procedure: Set the ServerLocation in the tecad_logfile.conf file to be blank. Then set the ServerLocation in tec_gateway.conf file to an event server. Verified the events were received at the designated event server.

- IY32005 Adding enumeration for severity or status to a BAROC file adds blank white boxes to the console.

Verification Procedure: Verified that the new boxes are added but were able to change the color of these boxes to preferred colors through the console configuration GUI by selecting Console --> Preferences.

- IY32294 The Windows Event Log Adapter does not read some events properly if they contain embedded parameters.

Additional Information: The following event shows that %5 is passed as part of the event:

### EVENT ###
NT_Base;hostname=ko2000;origin=69.160.66.101;category=0;
eventType=Error;sid=N/A;sub_source=Netlogon;id=5722;
msg='The session setup from the computer T6360F02
failed to authenticate. The name of the account referenced in the security database is T6360F02$.
The following error occurred: %5'; date='Jun 07 15:31:15 2002';
sub_origin=ko2000;END

### END EVENT ###
PROCESSED

Verification Procedure: Set up the same test used to generate this same event and verified that now the event looks as follows:

### EVENT ###
NT_Base;hostname=ko2000;origin=69.160.66.101;category=0;
eventType=Error;sid=N/A;sub_source=Netlogon;id=5722;
msg='The session setup from the computer T6360F02
failed to authenticate. The name of the account referenced in the security database is T6360F02$.
The following error occurred: Access is denied.'; date='Jul 13 11:21:25
The event server appears to stay in an unresponsive state when receiving a large quantity of events (an event storm).

Verification Procedure: Compiled and loaded a customer rule base that exhibited the event sever deadlock condition. Then set up a script to send events via postemsg to the event server that would trigger one of the rules in the rule base. Then shut down the event server and cleared the database and let the scripts (which had running on four different machines) run and let each one buffer 5000+ events for a total of 20 000 events. Then started the event server and sent one more message from each machine to clear out all of the buffered events. Verified that cached events got processed and all subsequent events continue to get processed. This test was repeated on all supported operating systems.

The wpostemsg command does not function in an endpoint environment after applying fix pack 3.7.1-TEC-FP02.

Verification Procedure: Sourced LCF environment then ran the wpostemsg command. Verified that the event messages are displayed on event viewer.


Verification Procedure: Verified that the new Adapters guide contain correct entries.

Adapters do not match events in log files on systems using the Japanese language.

Verification Procedure: Used the wsetlang -o -l ja_JP command to set the oserv language variable. Used odadmin environ get to verify oserv LANG and LC_ALL variables were set. Set the following options in tecad_logfile.conf file:

```sh
NO_UTF8_CONVERSION=YES
LogSources=/tmp/test.log
```

and verified that Logfile_Base class was not filtered (verified that it was commented out). Then added the following to /etc/Tivoli/tecad/etc/ja/tecad_logfile.fmt file:

```sh
FORMAT Logfile_Test FOLLOWS Logfile_Base
%t %s %s UPS Kanji_chars
sub_source Kanji_chars -temp $4
msg PRINTF("UPS Kanji_chars %s",temp)
END
```

Regenerated this format file and ran a two line script that did the following:

```sh
logger UPS Kanji_chars UPS Kanji_chars
echo Oct 15 19:00:01 c3po root: Kanji_chars \
UPS Kanji_chars >> /tmp/test.log
```

Compared the contents of /tmp/test.log with the output from the wtdumprl command to ensure that the Kanji characters appeared in both places.

The console does not function through a network address translation (NAT) firewall.

Verification Procedure: Ensured proper steps and information was added to IBM Tivoli Enterprise Console, Version 3.8 Release Notes to allow proper operation in a NAT environment.

All events are not cached when the event server is shut down.
Verification Procedure: Verified that this behavior is properly documented; this is working as designed.

- **IY32961** When a custom event slot is modified, each modification puts another set of double quotation marks around the value.

Verification Procedure: Compiled a rule base with tracing on and loaded the rule base. Ran the quote_test.sh script that modifies custom event slots. Checked that the following was true:
  - The slot data stays the same.
  - The slot values switch back and forth between my_slot1 and my_slot2.
  - The rule fired appropriately in the rules.trace file.
  - The cache output in /tmp/cache.out exists for the two slots, my_slot1 and my_slot2.
  - The slot values stored in the database are correct.

- **IY32983** Event of_class outside a specified class still causes rule to fire

  Additional Information: For example, using the following rule:

  ```
  rule: new_rule: {
    event: _event of_class outside 'Logfile_Base'
    where _msg: _msg ,
    reception_action: (commit_action
      )
  }
  ```

  and then sending wpostemsg -m testing Logfile_Base EVENT, causes the rule to fire.

  Verification Procedure: Turned on tracing with the above rule loaded and verified that the rule no longer fires.

- **IY33086** The install_wtdbclear_stproc.sh script does not run in environments other than local C, thus the stored Procedure for the wtdbclear command do not install for all locales.

Verification Procedure: Ran the install_wtdbclear_stproc.sh script with the locale set to ja. The command ran without error, and the stored procedure operation was successful.

- **IY33453** The rule compiler changes cause warnings and errors to occur when compiling

  Verification Procedure: Verified that the documentation explains the tighter checking of rule bases. This more restrictive checking allows the compiler to catch problems that can not be caught using earlier versions of the compiler.

- **IY33567** The tec_rule process ends after the process size reaches the maximum allowable process size, as defined in the system where the process is running.

  Verification Procedure: Ran a long run test over 3 days, sending 1 event per second. The virtual memory size for the tec_rule process only grew to 28KB, compared to the original 256MB.

- **IY33710** After applying patch 3.7.1-TEC-0026E, the exec_program predicate with the following options causes the event server to end: WATCH_STATUS=NO and a long message in the msg attribute.

  Verification Procedure: Using the supplied customer rule base, test script, and the script called by exec_program, the problem was no longer present.

- **IY33777** Incorrect output from the exec_program predicate prevents the Tivoli Business Systems Manager, Version 1.5, from receiving events from the IBM Tivoli Distributed Monitoring product, after applying patch 3.7.1-TEC-0022E.
Verification Procedure: Created the file test.sh, containing the following:

```
echo $0 $* $# ?? /tmp/test.log
```

Then a rule was created to call exec_program_local and exec_program. The initial calls appear as follows:

```
exec_program_local('localprog',_event,'/tmp/test.sh',','',\ 'NO')
exec_program(_event,'/tmp/test.sh','',\ 'NO')
```

Prior to the fix, the output appeared as: /tmp/test.sh 1 (Meaning a null argument was passed) After the fix, the output appeared as: /tmp/test/sh 0

Arguments were then passed to this script and the value $# was replaced by the actual items printed after the script name.
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