



CyFlex® Release Notes

Release Version 7.1.7b

Developed by TRP Laboratories

Table of Contents

Overview	1
Installation Notes	1
Issue Type and Jira Issue Legends.....	1
General Applications.....	2
QT Applications.....	7
Transient Emission Applications.....	8
Weighroom Applications	9
Release Notes for Previous cyflex.6.3 and cyflex.7.0 Versions.....	9

Overview

This release notes document identifies and describes the updates for CyFlex version 7.1.7b. The following link contains Jira issues within this release: [cyflex.7.1.7b - Jira Issues](#)

Refer to Installation Notes below for installation-related considerations.

Installation Notes

To install CyFlex 7.1.7b follow the instructions below:

sudo yum clean all

Cummins Sites:

sudo yum install cummins-cyflex.7.1.7b

Non-Cummins sites:

sudo yum install cyflex.7.1.7b

[CFBUG-3534](#) - hogger has a new debug CLI option:

hogger debug=/path/to/debug.log

Issue Type and Jira Issue Legends

Refer to the following legend for **Issue Type**:

Issue Type Key	Definition
NF	New feature
B	Bug

I	Improvement
---	-------------

X = denotes additional information about change within the **Related Jira Issue**.

General Applications

Application, Script, or Library	Install Note Above	Issue Type	Bug Fix Name	Description
darts_datapoint		B	CFBUG-3383	stat_child now dies if darts_datapoint fails to initialize
clear_error error_mgr error_state_mgr		I	CFBUG-3397	Removed 10 second delay from clear error and error database
get_errs_state		I	CFBUG-3429	Update to errs_state to work with arguments similar to errs
bacnet_srvr		B	CFBUG-3437	Fixed issue preventing the program from working on Oracle Linux 8 systems
libasset		I	CFBUG-3440	Added error message to inform on a missing /data/cell_map_location file
flogger dlogger hogger libloggershared libhyperlogger		B	CFBUG-3483	Fail spec file parsing if a required argument is missing after a keyword

Application, Script, or Library	Install Note Above	Issue Type	Bug Fix Name	Description
compvar evnt_adm device_attr floger		I	CFBUG-3490	Added new keyword for an event timeout
rpm_change_log		I	CFBUG-3511	Program is now deprecated
floger dlogger		B	CFBUG-3513	Modification to add logging of logical array variables
error_state_mgr error_states		I	CFBUG-3514	Fixed issue where a zero size file would be created when errs_state was run
error_state_mgr error_states		I	CFBUG-3514	Fixed issue where the tasks would start another instance if the tasks were called twice instead of checking if a preexisting instance was running
event_adm		B	CFBUG-3518	Fixed issue where program would core dump due to a bug with the event queues
ecat_srvr ecat_mon		I	CFBUG-3518	New command line argument added to specify the amount of errors that must occur before a reconnect is attempted
specs.def/spcl_chans.def		I	CFBUG-3522	Updated header section of file to reflect that REAL variables are only to be specified within the spcl_chans specification file
error_mgr		I	CFBUG-3525	Updated error_mgr to remove possible nuisance error
startup		I	CFBUG-3527	Removed nuisance error for startup task

Application, Script, or Library	Install Note Above	Issue Type	Bug Fix Name	Description
ramp_coll		B	CFBUG-3529	Modification to use current variable value as start target/value if '-' is specified in gp_test file for @RAMP keyword
cmds/verify_testcell_config.sh man/man1/verify_testcell_config.sh.html		I	CFBUG-3532	Updated verify_testcell_config.sh
evnt_rsp		B	CFBUG-3533	evnt_rsp not processing delayed events and spec file updates
libhyperlogger hogger hogger_out	Y	B	CFBUG-3534	Fixed various hogger bugs
test_end_update		I	CFBUG-3535	Add start and end date/time arguments to the program in order to update a subset of data
browse.dat channel.dat parameter.dat units.dat		I	CFBUG-3536	New files from 25 June 2025
list_events man/man1/list_events.htm		I	CFBUG-3538	Changes to correct the output based on options specified - add usage page
list_events man/man1/list_events.htm		I	CFBUG-3538	Changes to correct the output based on options specified - add usage page
devcom_coll		I	CFBUG-3539	Remove nuisance information message
arr_specs garr libasset		B	CFBUG-3540	Fixed stack corruption between the process(es) and library.
arr_specs garr libasset		B	CFBUG-3541	Fixed core dump occurring when gen_labels was run a second time causing the program's stack to be smashed

Application, Script, or Library	Install Note Above	Issue Type	Bug Fix Name	Description
ai_modbus_tcp ai_modbus_serial modbus_strm_tcp modbus_strm_serial		I	CFBUG-3542	Updated modbus drivers to have more consistent initialization timing
gp_test eng_ctrl_task libeng_ctrl		B	CFBUG-3543	Ramping engine control throttle could stick in place when the ramp command passed through certain values. This has been corrected.
libasset error_state_mgr evnt_rsp gmodbus gmodbus_child		I	CFBUG-3544	repeat evnt_rsp errors have been converted to state errors
th eng_ctrl_task libeng_ctrl gp_test		B	CFBUG-3545	th events were getting interrupted by other events and causing undefined behavior. th now uses a single atomic event to prevent this.
compvar		I	CFBUG-3547	Change to reduce CPU usage from compvar when variables are missing
libasset.so		B	CFBUG-3548	Replaced obsolete function causing applications to be blocked with better alternative
sin, task_qry watchdog_qry.sh specfile_qry.sh		I	CFBUG-3549	Update scripts to use local time when querying cyflexsystem/systemlog.db and update sin script to handle pid with more integer places.
candbc_set		I	CFBUG-3551	Added check to candbc_set to make sure an interval is specified
libasset.so		B	CFBUG-3553	Add missing library links to resolve errors relating to undefined function calls

Application, Script, or Library	Install Note Above	Issue Type	Bug Fix Name	Description
connsrvr libconnsrvr.so libeog.so csdump web_sm_server libJNI.so		NF	CFBUG-3555	Updates to support web-services and improve stability
gen_labels		B	CFBUG-3557	Fixed issue that occurred when duplicates were encountered, the second line used for calculation was read as a new variable causing parsing errors
libasset.so libtask_monitor.so tranMove		B	CFBUG-3558	Fixed tranMan core dumping as a result of a buffer underflow
setDARTStestid		I	CFBUG-3559	Updated default path for setDARTStestid
error_states		I	CFBUG-3560	The program now closes files correctly
tranMove		B	CFBUG-3564	Fixed a problem with file handling, tranMove was attempting to close the file twice when it received an error and was unable find the file to transfer.
libJNI.so web_sm_server connsrvr		B	CFBUG-3566	Fixed issue where readElog was freezing or failing to read log entries multiple times in row.
libasset.so ai_specs init_ai_counters ai_transfer		B	CFBUG-3567	Fixed issues identified by code analysis

Application, Script, or Library	Install Note Above	Issue Type	Bug Fix Name	Description
multi_lb_ctrl		I	CFBUG-3568	Updated to use the new config method

QT Applications

Application, Script, or Library	Install Note Above	Issue Type	Bug Fix Name	Description
LibQt5cyflexplugin.so		B	CFBUG-3492	Modification made to a few widgets to prevent pressing the space bar from pressing the button or toggling the switch
LibQt5cyflexplugin.so		B	CFBUG-3494	Modification to the cmxstring widget to default the background color = white and the text color = white within the value box when the widget is used
newtest_qt		B	CFBUG-3497	Modification to get the dialog boxes of the program to appear when application is started
cyberwizard		I	CFBUG-3526	Fixed problem with guis core dumping if ssh'd in without the -X or -Y specified - fixed problem to set RemoteDisplay flag if ssh'd in and -X and -Y are specified
runqtui cyberwizard qtstripchart qthistoryplot qtxyplot qtloggerplot tcal_util quick_display dloggereditor qtCyflexMaintLog secure_vrbl_chg abate_cal_viewer abate_log_viewer abate_ec_viewer		B	CFBUG-3528	Fixed problem with guis core dumping if ssh'd in without the -X or -Y specified - fixed problem to set RemoteDisplay flag if ssh'd in and -X and -Y are specified

Application, Script, or Library	Install Note Above	Issue Type	Bug Fix Name	Description
Maximo Operator Display widget		I	CFBUG-3537	Eliminated the Maximo Work Order operator display widget

Transient Emission Applications

Application, Script, or Library	Install Note Above	Issue Type	Bug Fix Name	Description
set_composition		B	CFBUG-3442	Several modifications to allow event name instead of interval argument, allow statistical variables is spec file, and add units compatibility check on specified variables
ecg.12 tca.12		B	CFBUG-3512	Increased resolution of data from TCA (to narrow the window of vulnerability and to comply with 1065) and changed ECG code to match the original pseudocode to fully close the window of vulnerability.
run_num_mgr.10c blk_num_mgr.10c		B	CFBUG-3520	Fixed issue that prevented run_num_mgr.10c from failing to find variables after it had found them once. Also, add retries to setting events for up to 3 attempts.
set_eng_specs12		I	CFBUG-3524	Add additional error messages when a tri_specs.dat keyword is missing, and the eng_specs hat variables cannot be set
specs.def/gen_labels.engspecs		B	CFBUG-3530	Add new file to specs.def directory that contains hat variables needed for esvd processes
mk_ecm_files12 write_ecm_specs12 tri_specs libtri_nface12.so		B	CFBUG-3552	Fixed several problems with saving data to tri specs array variables

Weighroom Applications

Application, Script, or Library	Install Note Above	Issue Type	Bug Fix Name	Description
test_end_update		I	CFBUG-3535	Add start and end date/time arguments to the program in order to update a subset of data
libwtrm.so		B	CFBUG-3556	Fixed bug in log_error_wtrm function when handling variable number of arguments

[Release Notes for Previous cyflex.6.3 and cyflex.7.0 Versions](#)