

WHEN YOU NEED TO BE SURE



CyFlex® Release Notes

Release Version 6.3.34 and 7.0.9b

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Overview

This release notes document identifies and describes the updates for CyFlex version 6.3.34 and 7.0.9b. The following link contains Jira issues within this release: [cyflex.6.3.34 and 7.0.9b - Jira Issues](#)

Refer to *Installation Notes* below for install-related considerations.

Installation Notes

[CFBUG-2993](#) – a major bug in gp_test was found within the cyflex.6.3.33 version. If you have cyflex.6.3.33 installed, cyflex.6.3.34 should be installed.

McParts is being replaced by Integrity. The cyflex.6.3.34 version of CyFlex enables test cells to connect to either Integrity or McParts. Test cells must be on a recent CyFlex version to be capable of capturing test cell logbook entries in Integrity. With the cyflex.6.3.32 version of cyflex, the integrity_info.ini file is located within the /specs directory. Changes have been made to locate the integrity_info.ini file within the /usr/local/share/cyflex directory due to the movement of the /specs directory at some locations.

[CFBUG-2806](#) - The 7th field in a logi_specs variable specification was originally used to specify whether or not the history save was active. That feature was eliminated in cyflex.6.x, but the field was still there as "OFF" for every line. Now, I have re-used that field to represent the initial state of the variable. The default was always "OFF", so modification to support the initial value does not change the functionality until the field is changed to ON.

Within the cyflex.6.3.34 version of cyflex, changes have been incorporated to send/receive elogbook entries to/from a central Oracle database. The changes include a new program called elog_event_watch, modification to the elog library to set events that the elog_event_watch program is listening for, and a new dependency to the tclogbook RPM. The tclogbook RPM installs script files that are needed for transferring files to/from the central database and modifications to the usercron task to execute the scripts to transfer elog entries to/from the central database in a timely manner. For now, the capability to send elogbook entries to the central database is getting rolled out at the CTC location. CTC has been supplied instructions of how to integrate configuration changes that are needed on a cyflex system. For systems that the configuration changes have not been made on, additional error messages will be shown in the error log pertaining to events that have been added.

The cyflex.6.3.34 version contains changes to the array variables. It is very important that the specified array values for the sys_start command in the go.scp file are not specified too large. If the array values of the sys_start arguments are specified too large, shared memory areas will not be generated correctly.

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
floger		I	CFBUG-3043	Modification to fix problem to handle array variables and not allocate memory
libtestgp gp_test ck		I	CFBUG-3039	gp_test "trace" files can consume a lot of disk space when there is looping in a test procedure. Recent changes to the methods for tracing have produced some large files and the "cleanup" process needs to be improved. Defaults for cleanup changed from 1000,30,100 to 500,3,10 Also launch cleanup on every "nt" command, and fix bug in line counting for trace files
MsgProtocol		I	CFBUG-3038	MsgProtocol used to support specification of delimiters for ini files as hex numbers, return this functionality.
libstat		B	CFBUG-3037	run_aver stat calculations for start time and integral sums updated
darts_datapoint		B	CFBUG-3036	updated the darts tasks to now have the testid length set to 100

Application, Script, or Library	Install Note Above	Issue Type	Bug Fix Name	Description
ecat_mon		B	CFBUG-3035	Modification to eliminate the need for ecat_mon to be ran twice
gas_prop gas_propNC		B	CFBUG-3030	Removed fuel related properties from being computed in COMBUSTION_AIR
specs.def/logbook_specs.def		I	CFBUG-3022	Modified /cyflex/specs.def/logbook_specs.def file to add explanation of BLANK BLANK if only 4 parameters are wanted in the header section of the elog entry
bid_tables		B	CFBUG-3021	Prevent cord dump by adding check for 0 length string
run_aver		I	CFBUG-3020	Return default behavior to run_aver in which duplicates are blindly included in the average. Add @EXCLUDE_DUPLICATES keyword to turn on the new behavior.
		I	CFBUG-3019	Remove rvar application and all associated source code files
fedSmokeRep		I	CFBUG-3017	Modify the way that Smoke Report program detects the first acceleration
		I	CFBUG-3016	Removed build of driver classic executables that are no longer used
backup_errors		B	CFBUG-3014	Updated backup_errors to reduce the load on CPU and speed
ecat_mon ecat_srvr		B	CFBUG-3013	Modification to stop updating input vars on a failed packet
perf_labels cell.def/perf_labels		I	CFBUG-3012	Display resolution in /cyflex/perf_labels were inappropriate
elog_event_watch libelog.so	Y	NF	CFBUG-3008	elog_event_watch program and changes to use central database for elogbook entries

Application, Script, or Library	Install Note Above	Issue Type	Bug Fix Name	Description
ecat_srvr ecat_mon ai_ecat di_ecat do_ecat		I	CFBUG-3006	ethercat can now use multiple masters
do_specs		B	CFBUG-3005	Update do_specs to not truncate specified spec filename or line length
gp_test ck asam_rcoll asam_ctrl as_specs		I	CFBUG-3003	Support ECMname and registered name of asam3cli in gp_test keyword
gp_test		B	CFBUG-3002	Fixed core dumps when mode is in 'hold' and one of the limits is violated
libocc_get_opt.so msu_set cell_mon		I	CFBUG-3000	cell_mon app issues warning messages if the "state_codes" file isn't present, even for installation where the file is not needed. If msu_pnp is TRUE, and the file is not found, the error messages will be generated.
eng_ctrl_specs eng_ctrl_task user_ctrl_specs user_ctrl_task		B	CFBUG-2998	Fix issue where torque feedback was wrong until the engine control mode was changed and add error checking of variable owner
channel.dat parameter.dat units.dat		I	CFBUG-2997	New *.dat files for 10/27/22
browse.dat channel.dat parameter.dat units.dat		I	CFBUG-2994	New *.dat files for 10/20/22
gp_test ak_cmd	Y	B	CFBUG-2993	gp_test code includes ../inc/Ak.h which contains some large arrays that are not used by gp_test. We will isolate those so only AK apps use them.

Application, Script, or Library	Install Note Above	Issue Type	Bug Fix Name	Description
libasset.so gp_test		B	CFBUG-2990	Prevent gp_test from using all the memory after the MEMLOCK limit is set to unlimited.
ecat_mon		I	CFBUG-2989	Increased the reconfiguration timeout to 300 seconds
libasset.so		NF	CFBUG-2988	rh_to_vp is now an active user function
emcon_comm		B	CFBUG-2987	Updated emcon_comm for how it sets variables
trv		B	CFBUG-2984	Fixed problem to handle parameter within the trv_specs file not found in the datapoint file
libtestgp.so		I	CFBUG-2981	Calculated ramp rate in USER loop can be wrong
parameter.dat channel.dat units.dat		I	CFBUG-2980	New *.dat files from 9/6/22
cell.def/ai_attr_modbus.opto22 cell.def/ao_attr_modbus.opto22 cell.def/di_attr_modbus.opto22 cell.def/do_attr_modbus.opto22 cell.def/go.scp		I	CFBUG-2979	Updated .def files to include modbus through the attr layer information - the cell.def/go.scp file was modified to include using the new eng_ctrl_task and user_ctrl_task
modbus_strm_tcp modbus_strm_serial		B	CFBUG-2978	Updated modbus driver to have correct timers
fr_collect		I	CFBUG-2976	When using EXTERNAL_SYNC for fuel readings, the @FUEL_READING_SYNC feature didn't work
libasset.so		I	CFBUG-2971	Modification to not report reconfig error for array variables which contain a ? in label
		I	CFBUG-2969	Deprecate the "pio_error_mgr" application

Application, Script, or Library	Install Note Above	Issue Type	Bug Fix Name	Description
libasset.so		I	CFBUG-2940	Remove REAL_VARIABLES in expr.c to avoid shared memory locking issues
libarrays.so.6.3.0 arrays garr		I	CFBUG-2928	Modified to print array starting at index 1 if a dash ("-") is specified as the only enum label for index 0
eng_specs specs.def/engine_specs.def		I	CFBUG-2889	Add "eng_typ" variable to specify whether engine is 2-cycle or 4-cyflex
sys_start libasset.so logi_specs gp_test		I	CFBUG-2806	Allow the initial value of a variable in /cyflex/logi_specs to be specified as ON/OFF
libasset.so.6.3.0		B	CFBUG-2802	Fixed problem with evaluation of string array variables using integer array variables for index failed
set_color		NF	CFBUG-592	A new command has been added to modify display colors of real/logical/integer/string/array variables

Java Applications

Application, Script, or Library	Install Note Above	Issue Type	Bug Fix Name	Description
IDEM report program		B	CFBUG-2986	Update IDEM report gui to resolve incorrect calculations

QT Applications

Application, Script, or Library	Install Note Above	Issue Type	Bug Fix Name	Description
tcal_util		I	CFBUG-2809	Modified to remove need for the mua_instance_names file and to use the default none values for all mua instance name values

Transient Emission Applications

Application, Script, or Library	Install Note Above	Issue Type	Bug Fix Name	Description
ecg		I	CFBUG-3041	Modification to allow redefining idle for a ref cycle format 1 file and add additional error message if a -1 time value line is not followed by a 0 time value line
all esvd12 programs		NF	CFBUG-3023	Modify TRI.12 programs to allow accessory load to be entered as power or torque.
tri_specs		I	CFBUG-3018	Add the capability for different units for each member of a TRI array variable
tri_specs		I	CFBUG-3010	Allow processing of tri_specs.dat if an unknown keyword is found rather than aborting.
tca.10c tca.12		B	CFBUG-3004	Modification to tca.10c and tca.12 to write the speed and torque columns in the rpm and lb_ft units of the star3_12.tca file and *3 section of the composite file - not the units in the logger file
tri_specs make_tri_arrays libtri_nface12.so.6.3.0 all esvd12 programs specs.def/arr_specs.def		I	CFBUG-2999	Develop a program that can create one array variable for each TRI keyword
write_ecm_specs12		I	CFBUG-2985	Modified code to write over 80 characters for the ecm_config and ecm_calibration filenames

Application, Script, or Library	Install Note Above	Issue Type	Bug Fix Name	Description
esvd_star5.12		I	CFBUG-2983	Change to omit *5 line 1 if TEST_CYCLE_CODE is not specified for an activity
esvd_star5.12		I	CFBUG-2977	Add star8 optional argument to add capability to append the star8 file to the composite file

Weighroom Applications

Application, Script, or Library	Install Note Above	Issue Type	Bug Fix Name	Description
wtrm_repos_mgr		I	CFBUG-3028	Eliminate code to check the specified site - add -l argument to signify the local directory is specified in spec file

Release Notes for Previous cyflex.6.3 Versions

CyFlex 6.3.33 and 7.0.8b	CyFlex 6.3.27	CyFlex 6.3.23
CyFlex 6.3.32	CyFlex 6.3.26	CyFlex 6.3.21
CyFlex 6.3.29	CyFlex 6.3.25	CyFlex 6.3.19 - Initial Release
CyFlex 6.3.28	CyFlex 6.3.24	