



CyFlex® Release Notes

Release Version 7.0.28 and 7.1.10b

Developed by TRP Laboratories

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Overview

This release notes document identifies and describes the updates for CyFlex versions 7.0.28 and 7.1.10b. The following link contains Jira issues within this release: [cyflex 7.0.28 and 7.1.10b - Jira Issues](#)

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

Installation Notes

To install the 7.0.28 or 7.1.10b cyflex version, follow the instructions below:

1) Install rpm for 7.0.28

Execute: `sudo yum clean all`

Non-Cummins site: `sudo yum install cyflex.7.0.28`

Cummins site: `sudo yum install cummins-cyflex.7.0.28`

OR

1) Install rpm for 7.1.10b

Execute: `sudo yum clean all`

Non-Cummins site: `sudo yum install cyflex.7.1.10b`

Cummins site: `sudo yum install cummins-cyflex.7.1.10b`

To revert to a previous version assuming it was not removed manually, follow the instructions below:

1) Execute: `slay_stuff`

2) Execute: `sudo unlink /cyflex`

3) Execute: `sudo ln -s /cyflex.<version number> /cyflex`

4) Execute: `sudo /sbin/ldconfig`

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
fdump ra_specs rave_specs dumpit specs.def/SEP/specs/stat_spe cs.ss_pm specs.def/descriptions/ra_spec s.def specs.def/gp_std/mid_range/bl owby/ra_specs.blowby specs.def/pnp/ra_specs.los specs.def/ra_specs.def specs.def/ra_specs_fifo.def specs.def/rave_specs.def		I	CFBUG-3576	Changed the label of the CV member of statistical variables from coeff_of_variance to coeff_of_variation
svar		B	CFBUG-3577	Modification to not set an integer variable to 0 when a computed expression is used as the value

Application, Script, or Library	Install Note Above	Issue Type	Bug Fix Name	Description
cell.def/perf_labels.README cell.def/cell_special perf_labels		B/I	CFBUG-3584	Update files in cell.def for perf_labels and cell_special - code change to create transition events in section where transition events are within the default perf_labels files
libasset.so		B	CFBUG-3597	Modification to write errors to stderr by default and write errors to stdout if the LOG_TO_STDOUT environment is specified
libasset.so garr		B	CFBUG-3598	Modification to not print contents of array variable if the specified index is invalid
gp_test nt libtestgp.so		B	CFBUG-3599	Update to create the new test and release events sooner, preventing failures on rapid starts
specs.def/do_specs.def specs.def/inpt_specs.def specs.def/descriptions/do_specs.def specs.def/descriptions/inpt_specs.def scheduler libasset.so		I	CFBUG-3604	Modification to add the associated functional description code within error messages - update .def files to include valid functional descriptions
comp_ctrl		I	CFBUG-3605	Program is now deprecated
eng_ctrl_specs		I	CFBUG-3606	Modification to remove the hard coding of the ctl_spd and ctl_torq variables and replace with the variables within the perf_labels/cell_special file for the Speed and Torque feedback variables
cf_scales		I	CFBUG-3608	Modification to remove using the ctl_spd variable label and value and use the specified ENGINE_SPEED variable label and value from ENGINE PERFORMANCE data

Application, Script, or Library	Install Note Above	Issue Type	Bug Fix Name	Description
addwater cfv_1065 critical_flow lfe subsonic vcone_flow gasfl volef volef2 fa_total		I	CFBUG-3609	Updated several flow tasks to use new config shared memory
user_ctrl_specs		NF	CFBUG-3611	Modification to add additional error messages if the number of specified data elements within the spec file is not as expected
libocc_get_opt.so		B	CFBUG-3612	Modification to not truncate the Unknown engine group
gmodbus_child		I	CFBUG-3615	Prevent gmodbus core dumps on exit
eng_ctrl_specs		NF	CFBUG-3617	Modification to add additional error messages if the number of specified data elements within the spec file is not as expected
libasset.so libunits.so		B	CFBUG-3618	Fixed rounding errors with integer variables when computed expressions are used
init_emission		I	CFBUG-3619	Program has been deprecated
dumpit fdump		I	CFBUG-3620	Remove odor components if composition variable is not of type ODOR*
dumpit fdump		I	CFBUG-3621	Removed printing of component molar mass values and fraction aromatics, olefins, and saturates for composition variables
fdump dumpit		I	CFBUG-3622	Add column headings to composition variables and changed format for Total of Fractions to 6g

Application, Script, or Library	Install Note Above	Issue Type	Bug Fix Name	Description
nt		B	CFBUG-3624	Fixed gp_test event name truncation causing attaching issues
svar		B	CFBUG-3625	Fixed problem setting array variables
specs.def/set_comp.MEDOR		I	CFBUG-3627	Example specification file added
burn_emis		I	CFBUG-3628	Made change to reference the correct executable name by changing the task name define
update_composition		B	CFBUG-3629	Implement fix to eliminate core dump when creating the time value for updating the NG_update_date and NG_update_time FR string variable
burn_emis specs.def/properties/emis_specs.def		B	CFBUG-3630	Eliminate false errors generated when UREA, LNG1-3, CERT and PROPANE fuel_types are processed - update emis_specs.def file
newtest		B	CFBUG-3631	Modifications to handle newline characters properly
set_composition		I	CFBUG-3632	Modification to allow the NM, OM, HM and CM components to be updated
gp_test		I	CFBUG-3633	Restore option for @PARAMETERS using strings to work properly
ecat_svr		I	CFBUG-3634	Updated to allow the user to specify how many errors before a reconnect
slay		B	CFBUG-3635	Modification to handle slaying of executables when started with /asset/bin specified within the full path - For instance, background task keyword in gp_test using /asset/bin/[cyflex_program_name]
specs.def/logr_template specs.def/logr_specs.def specs.def/dlogger_specs.def		B	CFBUG-3642	Fixed files to reference the correct name of the keyword for @LOG_DIGITAL_DESCRIPTION

Application, Script, or Library	Install Note Above	Issue Type	Bug Fix Name	Description
floger		I	CFBUG-3644	Updated floger to use new library for timing
gvar gval gvals svar garr		B	CFBUG-3645	Several modifications for the different programs - see description in Jira
browse.dat channel.dat parameter.dat units.dat		B	CFBUG-3647	New *.dat files from 03/09/2026
asam3_specs		I	CFBUG-3648	Update to have a new autaname generation for asam3_specs
libasset.so		B	CFBUG-3649	Removed delay that was added to set critical
arr_specs		B	CFBUG-3650	Fixed multiple problems - see description in Jira
sarr		B	CFBUG-3651	Fixed problem to handle computed expression input properly with and without spaces
floger dlogger hogger		B	CFBUG-3653	Modification to ensure the value specified after @FIFO_POST_TRIGGER_SCANS is numerical
libtestgp.so gp_test		B	CFBUG-3654	Updated gp_test to handle the old format for register name
select_type select_vpi select_group select_model libocc.so evnt_info		B	CFBUG-3655	Modification to prevent core dump or programs from hanging

Application, Script, or Library	Install Note Above	Issue Type	Bug Fix Name	Description
gval		B	CFBUG-3656	Removed extra new line character from print line for integer variables
floger		B	CFBUG-3658	Updated timer to handle FIFO active flag
state_mon		B	CFBUG-3659	Fixed stack smashing issue in 7.1
eng_specs		B	CFBUG-3660	Add GENSET_MODEL and PRIMARY_CONTACT to Engine String Constants in order to set/create genset_model and primary_contact variables from eng_specs
browse.dat channel.dat parameter.dat units.dat		I	CFBUG-3666	New *.dat files from 04/06/26

Transient Emission Applications

Application, Script, or Library	Install Note Above	Issue Type	Bug Fix Name	Description
set_eng_specs12 ecg_header.12 ecg.12		I	CFBUG-3430	Remove legacy tri_specs.dat keywords
star2_7.b09 star2_7.12		I	CFBUG-3616	Modification to no longer write the FLUID_* keywords to the *2 section since EDA defaults already accomplish the same thing
tri_specs		I	CFBUG-3636	Replace ^ with __ (two underscores) suffix in array variable names created from the tri_specs program
libtri_nface12.so		B	CFBUG-3641	Fixed problem with only 2 channels getting removed when more have been specified within the spec file as part of the changes for CFBUG-3602

Application, Script, or Library	Install Note Above	Issue Type	Bug Fix Name	Description
libesvd_nface10c.so libtri_nface12.so		B	CFBUG-3646	Modification to confirm that the channel name line within the logr file does not contain numerical values to prevent core dump
tri_logr_spec.12 mk_ecm_files12 write_ecm_specs12 libtri_nface12.so tri_specs esvd_star5.12 esvd_star_5.raw all programs that use the library calls and data structures		I	CFBUG-3652	Changes to handle CSAR variables in multiple processes and additional changes were made
all tri programs because the change was done in a header file		B	CFBUG-3657	Changed DEPARTMENT_NUM from integer to string

Weighroom Applications

Application, Script, or Library	Install Note Above	Issue Type	Bug Fix Name	Description
wtrm_qt cmds/wtrm_get_samp_fil_weights cmds/wtrm_sndSampWeightFile specs.def/wtrm_specs.ini		NF	CFBUG-3640	Modification to execute a script file after the final weights of a sample filter has been taken to generate and email sample filter weight file

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