



# **CyFlex® Release Notes**

**Release Version 7.0.19**

**Developed by TRP Laboratories**

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## Overview

This release notes document identifies and describes the updates for CyFlex version 7.0.19. The following link contains Jira issues within this release: [cyflex.7.0.19 - Jira Issues](#).

## Installation Notes

### Install and Revert Instructions for the Cyflex Version:

To install the cyflex.7.0.19 CyFlex version, these instructions must be followed:

- 1) Execute: **sudo yum clean all**
- 2) Install the CyFlex 7.0.19 rpm  
Non-Cummins site: **sudo yum install cyflex.7.0.19**  
Cummins site: **sudo yum install cummins-cyflex.7.0.19**
- 3) Install the cyflex\_java rpm  
**sudo yum install cyflex\_java**
- 4) Logout and login to the system to get configuration changes applied

To revert to a previous CyFlex version from the Cyflex 7.0.19 version, these instructions must be followed:

- 1) Execute: `sudo yum remove cyflex_java`
- 2) Execute: `sudo yum remove cyflex-linux-menus`  
**This will remove the cyflex.7.0.19 version RPM**
- 3) If reverting to a cyflex version that contains java (< 7.0.19)
  - a. Execute: `sudo yum install cyflex-linux-menus-2.0.3`
- 4) Execute: `sudo ln -s /cyflex.<version number> /cyflex`
- 5) Execute: `sudo /sbin/ldconfig`
- 6) Execute: `go`
- 7) Execute: `which elog_entry`
  - a. This should point to the `/cyflex/cmds` directory. If not, then an error in the configuration has occurred and a Jira ticket should be submitted

The cyflex\_java rpm:

- 1) Installs a new version of Java

2) Installs the scripts using java that were in /cyflex/cmds into the /opt/cyflex\_java/cmds directory. Additional files are also installed under the /opt/cyflex\_java directory and subdirectories.

[CFBUG-3304](#) - The change entails a new database schema. This means that old errors and old databases will not be readable by the new version of CyFlex (CyFlex 7.0.19 and above). If you want to look at the old errors (CyFlex 7.0.18 and below), you can use the error\_viewer GUI to look at the old errors. The error\_viewer will not be usable for a little bit in this release. We are currently working on an update to the error\_viewer to work with the new schema as well as various other improvements and functionality.

## 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
devcom_mon		I	<a href="#">CFBUG-3168</a>	Improved 2 error messages inside of devcom_mon
libelog		B	<a href="#">CFBUG-3274</a>	Modification to save optional variable values and additional variable values to the database
CyFlex RPM		I	<a href="#">CFBUG-3276</a>	Create symbolic link, /asset, to point to /cyflex if /asset is not already created

Application, Script, or Library	Install Note Above	Issue Type	Bug Fix Name	Description
/cyflex/cmds/WD_popup		I	<a href="#">CFBUG-3280</a>	Replaced kdialog with gnome notification
libasset.so		I	<a href="#">CFBUG-3282</a>	Modification to error message to remove units from being specified in an expression when they should not have been
CyFlex RPM		I	<a href="#">CFBUG-3283</a>	Decoupled scripts that use Java from the CyFlex RPM
events		I	<a href="#">CFBUG-3284</a>	Changed user input event type names to reflect the type of events the user may input to the events application to display the contents of some of the events that are supported
/cyflex/specs.def/usercron		I	<a href="#">CFBUG-3285</a>	Added header information
dc_GenSync		I	<a href="#">CFBUG-3286</a>	Command is now written in one packet rather than multiple packets for a message
floger		B	<a href="#">CFBUG-3289</a>	Modification to exit if the instance being started would be a duplicate instance
gp_test libtestgp.so		I	<a href="#">CFBUG-3290</a>	Modification to eliminate core dump when a diagnostic output file is opened, but has the incorrect permissions/ownership
/cyflex/cell.def/go.scp		I	<a href="#">CFBUG-3291</a>	Modification to include where run_num_mgr and blk_num_mgr should be started in the go.scp script
svar		B	<a href="#">CFBUG-3292</a>	Modification to change the format specifier when displaying integer and integer array variables so that small negative numbers do not get displayed as large positive values
floger dlogger		B	<a href="#">CFBUG-3294</a>	When CSAR names are used without an identifying ECM tag in the @SCAN_LIST of a logger, errors now get displayed for duplicates so that they may be corrected, and the logger may be started
channel.dat parameter.dat units.dat		I	<a href="#">CFBUG-3295</a>	Changed to conversion factors for various units Channel added to channel.dat

Application, Script, or Library	Install Note Above	Issue Type	Bug Fix Name	Description
svar		B	<a href="#">CFBUG-3297</a>	Enabled changing display format of a CyFlex INTEGER variable from decimal to hexadecimal
svar		B	<a href="#">CFBUG-3299</a>	Fixed print statement generated by svar for when an invalid value was being assigned to logical variables and when an invalid label was used.
user_ctrl_task		B	<a href="#">CFBUG-3300</a>	Prevent core dump when user_ctrl_task is called with an incorrect number of arguments
/cyflex/specs.def/usercron.CVS		I	<a href="#">CFBUG-3302</a>	Added section headers to the file
caParameter caPause caRestart caRun caStop caWarp caApplication caComponent caGet caLoad		I	<a href="#">CFBUG-3303</a>	Changed cyberapps command programs to allow ident to work on them
error_mgr error_state_mgr errs errs_state backup_errors	Y	NF	<a href="#">CFBUG-3304</a>	Update schema for error manager databases
modbus_slave		B	<a href="#">CFBUG-3305</a>	Fixed to properly send DI and DO's and to correctly handle endianness of packets to be big endian instead of mid-little endian.
libmbusmaster.a gmodbus modbus driver		B	<a href="#">CFBUG-3306</a>	Modbus 3rdparty library will now bit swap correctly for big endianness
libAK_CAI2.so.7.0.0 AkTCPCAI2 AkTestIntCAI2 AkTestInt_FTIR		B	<a href="#">CFBUG-3308</a>	Updated to correctly process the '#' symbol

Application, Script, or Library	Install Note Above	Issue Type	Bug Fix Name	Description
AkMonDataCAI2 AkMonCAI2 AkUDPCA12				
ai_modbus_tcp ai_modbus_serial		B	<a href="#">CFBUG-3310</a>	AI modbus driver will now apply gain correctly
user_ctrl_task		B	<a href="#">CFBUG-3311</a>	Fixed user_ctrl_task having the _CM variable go to zero and ramp back to the target after user_ctrl_specs is rerun and the user_ctrl_specs spec file specifies the user control loop to be in open loop mode
gmodbus		I	<a href="#">CFBUG-3312</a>	@REG_NAME documented in spec def file for gmodbus instances.
alternator_torq		NF	<a href="#">CFBUG-3313</a>	Created new application
modbus_slave		B	<a href="#">CFBUG-3316</a>	Fixed modbus_slave from core dumping when there was an incorrect spec file for modbus_slave bool channels
release_snap_stats		B	<a href="#">CFBUG-3317</a>	Fixed problem that was causing release_snap_stats to core dump
clear_error error_manager errs		B	<a href="#">CFBUG-3318</a>	Updated error manager to remove entries based on sie
asam3cli		B	<a href="#">CFBUG-3323</a>	Increased buffer size from 10k to 36k to handle long CSAR variable names and put check in to prevent overflow of those buffers.
dspec_qt5_conv runqtui libcyflex_plugins.so		NF	<a href="#">CFBUG-3324</a>	Updated Operator Display to feature flexUI with runqtui



## Transient Emission Applications

Application, Script, or Library	Install Note Above	Issue Type	Bug Fix Name	Description
star_pream.12		B	<a href="#">CFBUG-3281</a>	Modification to allow tpid and config argument values to be longer than 30 characters

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