



CyFlex® Release Notes

Release Version 7.0.17

Developed by TRP Laboratories

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Overview

This release notes document identifies and describes the updates for CyFlex version 7.0.17. The following link contains Jira issues within this release: [cyflex.7.0.17 - Jira Issues](#)

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

Installation Notes

[CFBUG-3183](#) - @BACKGROUND_PRIORITY

The @BACKGROUND_PRIORITY is a new gp_test keyword that supports computed command strings - the command string may be a computed expression, a literal string(constant), or the label of an Cyflex variable. This form supports a priority value used to set the priority of the task started in the background.

Priority value information:

- Linux systems use a priority system with 40 priorities, ranging from -20 (highest priority) to 19 (lowest priority). If a real-time priority is needed, the priority argument within the spec file should be a positive number. For example, if 14 is specified as the priority within the spec file, the spawned task will have a real time priority of -14.
- If the specified priority is less than or equal to 0, the spawned task will have a non-real time priority of 20

Note that most command strings as used previously are literal strings and should be enclosed in single quotes.

[CFBUG-3225](#)

By default, CSAR variable names in floger output file will not use double quote encapsulation. New options are added to force double quote encapsulation. When using CSAR labels add a 'q' suffix to the keyword option to use double quotes around variable names.

[CFBUG-3233](#)

The following changes have been made:

- fixed the column headings of ms_diag to line up better with the output
- fixed the noncritical task from causing a segmentation fault if not enough arguments were specified
- modified the noncritical task to accept an 'all' argument instead of the individual interval arguments (See usage for noncritical task)
 - if **all** is specified as the last argument, all of the intervals for the specified Registered_name will be changed to non-critical
 - if a task name is specified with the last argument of all, the user will be prompted to determine if the critical instance of the specified task name should be changed to non-critical
- modified the compvar program to:
 - determine if any of the intervals for the specified registered name instance of compvar are still critical

- if no intervals are critical, release and exit
- if there are still critical intervals, the specified registered name instance of compvar is not released and exited

[CFBUG-3260](#)

There have been 6 new arguments added and can be added in any order at the end of the serial arguments or tcp arguments.

The first argument is 'noerr'. This will cause certain errors to not be generated when there are some errors detected and will not cause the task to re-connect to the device.

The next argument is 'dos'. This argument makes sure that all coil write calls are made individually instead of batching them if possible. This is necessary for some device that do not handle the batching well.

The next 4 arguments are for extra debugging. They are 'aid', 'aod', 'did', and 'dod'. These stand for AI debugging, AO debugging, DI debugging, and DO debugging. These can be used together or separately, but these output to the console, so using more than 1 at a time may not be advisable. These arguments should only be used when investigating issues.

example usage:

```
modbus_srvr_tcp 24 127.0.0.1:34567:l 10.0.0.1:502:b dis ais dos aid noerr &
```

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-3103	Added a new argument for darts_datapoint to display missing variables
/cyflex/specs.def/gp/gp_template libqnxos libtestgp gp_test ck	Y	NF	CFBUG-3183	Add @BACKGROUND_PRIORITY keyword to gp_test to allow processes started in the background to set the priority of the task
gmodbus_child errc		I	CFBUG-3197	Added error code descriptions that are more informative for several gmodbus related errors
/cyflex/cell.def/ai_attr.ecat.def /cyflex/cell.def/di_attr.ecat.def /cyflex/cell.def/do_attr.ecat.def /cyflex/specs.def/init_beckhoff_module.def		I	CFBUG-3207	Added .def files for running ethercat through transfer layer
tcal_util allcells5 sevenday ytd_report		I	CFBUG-3209	Replace mpack with mail
ongadata		B	CFBUG-3216	Increase stack limit to prevent stack overflow
CanDbc		I	CFBUG-3217	Modification to default to 10ms
ao_eblox		I	CFBUG-3218	Update to use the gain even on a forced write
cvar		B	CFBUG-3219	Modification to make LOGI events transient
CanDbc		I	CFBUG-3220	Update to use bigger size if there is something with more than 32 bits

Application, Script, or Library	Install Note Above	Issue Type	Bug Fix Name	Description
Cyflex script files		I	CFBUG-3221	Modifications to change @sgs.com to @trplabs.com within /cyflex directories
errc		I	CFBUG-3222	Modification to prevent information sections within errors.h from printing in output
run_aver		B	CFBUG-3223	Initial value changed
floger libfcsar /cyflex/specs.def/logr_spec.def libloggershared		B	CFBUG-3225	Add optional double quotes for csar names to output file
libloggershared floger dlogger		B	CFBUG-3226	Adjust number of scans for floger/dlogger
libasset mfc_coll		B	CFBUG-3229	Fix added to eliminate errors in create_var
dlogger libloggershared		B	CFBUG-3231	Add CSAR keywords into dlogger
compvar ms_diag noncritical		I	CFBUG-3233	Modification to release formerly critical instance of compvar
/cyflex/cell.def/go.scp		I	CFBUG-3255	Add reference to ao_specs execution
user_ctrl_task		B	CFBUG-3256	Fixed integral term reset logic

Application, Script, or Library	Install Note Above	Issue Type	Bug Fix Name	Description
libmbusmaster.a unico_modbus_srv gmodbus gmodbus_child ai_modbus_tcp ai_modbus_serial ao_modbus_serial ao_modbus_tcp di_modbus_tcp di_modbus_serial do_modbus_tcp do_modbus_serial modbus_srvr_tcp modbus_strm_tcp modbus_srvr_serial modbus_strm_serial		I	CFBUG-3258	Made updates to modbus library in Cyflex 7 to have different calls for some devices
modbus_srvr_tcp modbus_strm_tcp modbus_srvr_serial modbus_strm serial		I	CFBUG-3260	Added new arguments to ignore communication errors and to not trigger a reconnect and more debug options
update_composition ongadata set_composition MEDOR_set		B	CFBUG-3265	Size of event adjusted in 64bit systems to match the message being received from a 32bit system

QT Applications

Application, Script, or Library	Install Note Above	Issue Type	Bug Fix Name	Description
libqt5cyflexplugins_sql		B	CFBUG-3247	Add check for /ram/msu and /ram/maximo before attempting to remove them for msu_status_buttons widget

Application, Script, or Library	Install Note Above	Issue Type	Bug Fix Name	Description
cyberwizard		B	CFBUG-3254	Modification to successfully die when running a slay_stuff

Transient Emission Applications

Application, Script, or Library	Install Note Above	Issue Type	Bug Fix Name	Description
tri_specs		I	CFBUG-3213	Removed generation of 7 specified string array variables
esvd_star5.12 esvd_star5.10c esvd_pre_star5.12 esvd_pre_star5.10c esvd_star5_12.raw esvd_star5_10c.raw		B	CFBUG-3227	Fixed numerous problems with the star5 programs
libtri_nface12 libstar5_12 libasset esvd_star5.12 esvd_star5_12.raw		I	CFBUG-3263	Modification to allow larger logger file variable name lines to be read

Weighroom Applications

Application, Script, or Library	Install Note Above	Issue Type	Bug Fix Name	Description
wtrm_barcode_qt		B	CFBUG-3208	Increase the puck_id length from 6 to 10 to eliminate memory from getting overwritten

Cyber Applications

Application, Script, or Library	Install Note Above	Issue Type	Bug Fix Name	Description
CyberServer		B	CFBUG-3257 CFBUG-3259	Modifications to prevent core dump and allow larger component files to be loaded Modification to allow caLoad to load hybridAMT model

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