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CyFlex® 6.2.15

Release Notes

Overview

This release notes document identifies and describes the updates for CyFlex version 6.2.15.

The following application types are included for this release.

- [General Applications](#)
- [Central Server Applications](#)
- [Java Applications](#)
- [Qt Applications](#)
- [Transient Emission Applications](#)
- [Weighroom Applications](#)

Refer to the sections below for the specific application, script or library updated for this release

Installation Notes

MSU Status Button Widget:

Changes have been made to the MSU Status Button widget to connect to the ACDC database correctly.

When cyflex.6.2.15 is installed, the `msu_status_cidc_acdc` RPM must be installed prior to executing Operator Display. To install the RPM, the following command must be executed:

- `sudo yum install msu_status_cidc_acdc`

When the RPM is installed, the `*.ui` files will be modified to contain the correct database connection information for the ACDC database. The directories that the `*.ui` files are modified in are: `/specs`, `/specs/qt`, `/specs/cmds`, `/esvd_data` and any subdirectories under the `/esvd_data` directory.

ecat_svr, ecat_mon, ecat_ins:

There have been many improvements made to the ethercat drivers. A new spec file with updated changes has been added. Below is a list of changes.

1. ecat_svr and ecat_mon no longer dies if the terminal is closed.
2. ecat_mon spec file now adds a multiplier column to the output variables. Look at the sample ecat_mon to see how this column is used. This is an optional arguments and defaults to 1.0.
3. ecat_mon variables that are created will now become inactive if ecat_mon is killed, released, or core dumped.
4. ecat_mon can now be started as critical. If it is started as critical, and then is killed, it will kill the watchdog and will be displayed within 'ms_diag'.
5. The ethercat drivers will now report a problem if there are communication errors. Previously, the ethercat drivers could not tell if there was a communication error. Now the variables will stop updating variables and error messages will be generated.

A new specification file is attached within Jira Issue CFBUG-1951

Please consult SGS for configuration assistance.

asam3_ctrl:

The usage for asam3_ctrl has changed. **A required CUTY_name argument has been added.**

The previous way to start asam3_ctrl:

asam3_ctrl priority interval [critical]

The following is the way asam3_ctrl must be started is:

asam3_ctrl name priority interval [critical]

Where:

name => is the registered name of the asam3cli instance for this controller – such as asam3_1

priority => the system priority that will be assigned to this process

interval => the process interval assigned to this task. This should be one of the FAS, MED or SLO intervals. The interval value is in milliseconds.

critical => if the task is to be treated as a critical task by the watchdog this argument should be +c. This is an optional argument.

setPAMtestid:

The previous default directory for setPAMtestid to check was /data/PAMdatapoint/hold and has been changed to be /data/pam/PAMdatapoint/hold .

This change occurred when the directories were restructured to accommodate PAM and DARTS. Along with the upcoming changes with darts, a new argument has been added where you can now specify the hold directory to compare the datapoint number for. This new argument was primarily added to make dual entries with PAM and DARTS easier. An example of running the new argument is as follows:

```
setPAMtestid myTestid path=/data/DARTS/PAMdatapoint/hold
```

This would run the command as normal, but using the /data/DARTS/PAMdatapoint/hold directory to compare the datapoint files instead.

This new argument must always be the last argument if it is used with the other optional arguments. Run a man for more details.

Release Candidates

MSU Status Button Widget:

RC-6.2.3 has been created for cyflex.6.2.15. This release candidate version is an improvement to the MSUStatusButton widget and how the widget connects to the database.

To install the release candidate, the following steps should be taken after cyflex.6.2.15 is installed:

- From the command line, execute `showverlist -p`
 - The `showverlist` will display a list of release candidates available with this cyflex version
- Next, the following command should be entered from the command line:
 - `syncfile libcyflexplugin_sql.so.6.2.0 6.2.3`
- When the above `syncfile` command is executed, a backup of the previous library file was saved to the `/cyflex.6.2.15/backup/LIB` directory

General Applications

Issue type key: **NF** = New Feature **B** = Bug **I** = Improvement

Application, Script or Library	Issue Type	Issue Number	Description
channel.dat changes	I	1959	The following channels were added: AT_CW_COS_MEA AT_CW_H2SO4_MEA AT_CW_SF6_MEA CVS_CW_COS_MEA CVS_CW_H2SO4_MEA CVS_CW_SF6_MEA ENG_CW_COS_MEA ENG_CW_H2SO4_MEA ENG_CW_SF6_MEA EXH_CW_COS_MEA EXH_CW_H2SO4_MEA EXH_CW_SF6_MEA MP_CW_COS_MEA MP_CW_H2SO4_MEA MP_CW_SF6_MEA
gp_test 6.2.8	B	1956	Fix synchronization between gp_test launch of devcom_coll and name registration of devcom_coll Fixes problem of launching multiple devcom_coll instances for the same device
channel.dat	I	1955	The following channel was added: EXHBRK_OT_T
libasset.so.6.2.0 6.2.3	I	1954	Add user functions: @latch_bitmap, @bitmap, @reset_bitmap, @set_bitmap_pos_to_val, @set_bitmap_pos, @clr_bitmap_pos

Application, Script or Library	Issue Type	Issue Number	Description
ecat_svr 6.2.1 ecat_mon 6.2.1 ecat_ins 6.2.1	I	1951	Various improvements to the ethercat drivers See Installation Notes above for detailed list of improvements
gp_test 6.2.8	I	1950	Added setting the open loop ramping to ON after setting only the end target SEP identified a sequence of processes involving gp_test user control features that could leave open loop ramping OFF when it should be ON
mfc_coll 6.2.1	B	1947	mfc_coll now handles multiple responses properly
channel.dat	I	1939	The following channels were added: HEAD_CLNT_P HEAD_CLNT_T HEAD_OIL_P HEAD_OIL_T Description for PSTN_CLNG_P and PSTN_CLNG_T changed
libelog.so.6.2.0 6.2.1	B	1923	Fixed bug to display the correct elog information for rows with rowid > 65536
ecat_mon	B	1918	ecat_mon now handles 32-bit values and signed integers correctly
channel.dat	NF	1904	The units for the following channels were changed: LEGR_COOLER_EFF LEGR_FRAC LEGR_FRAC_CO2 LEGR_FRAC_TEMP LEGR_FRAC_VE_1L LEGR_PCT_MASS LEGR_PCT_MASS_ESTIMATE LEGR_RATIO LEGR_VLV_PCT

Application, Script or Library	Issue Type	Issue Number	Description
limit 6.2.1 limit_specs 6.2.1	I	1874	Evaluate of a limit_specification limit_value that was an invalid expression did not get counted as an error A limit value expressed as 420psi] instead of 420[psi] produced an error message at runtime, but did not get counted as an error by the limit_specs app
channel.dat	NF	1872	The following channels were added: CMP_OT_CO2 - added several LEGR... ~40 keywords added for LP EGR TOT_EGR_FRAC
asam3ctrl 6.2.1 as_specs 6.2.1 asam3_coll 6.2.3	I	1866	asam3_ctrl now supports multiple CUTY controllers simultaneously and asam3_coll now handles more than 2 std ECMx versions See Installation Notes above
libasset.so.6.2.0 6.2.3	NF	1864	new user function xml_secs created The @xml_secs user function will return the number of seconds since 01/01/1970 for the specified xml date/time string. @xml_secs('2018/06/18T12:00:00Z') returns time_t value
channel.dat	I	1848	The following channels were added: AT_CW_NMNEHC_FTIR_MEA AT_CW_NMNEHC_MEA CVS_CW_NMNEHC_FTIR_MEA CVS_CW_NMNEHC_MEA ENG_CW_NMNEHC_FTIR_MEA ENG_CW_NMNEHC_MEA EXH_CW_NMNEHC_FTIR_MEA EXH_CW_NMNEHC_MEA MP_CW_NMNEHC_FTIR_MEA MP_CW_NMNEHC_MEA

Application, Script or Library	Issue Type	Issue Number	Description
MsgUdpOut 6.2.1	B	1847	MsgUdpOut now starts up properly and waits for the given device name
setPAMtestid	B	1839	setPAMtestid has a new default path and can be given a directory to check See Installation Notes above
channel.dat	I	1822	The following channels were added: RTOA_FUEL_DILUTION RTOA_INSTRUMENT_PA RTOA_INSTRUMENT_T RTOA_OT_PA RTOA_PMP_PA RTOA_PMP_T
browse.dat channel.dat units.dat	I	1814	browse.dat - KV KILOVOLTS moved to VOLTAGE section from SPACE VELOCITY section channel.dat - T_GTIS_SYSTEM_SERIALNUMBER changed to T_GTIS_SYSTEMSERIALNUMBER units.dat - KV changed to 2903 from 7405
browse.dat channel.dat units.dat	I	1807	browse.dat - KV KILOVOLTS - added The following channels were added to channel.dat: AT_C_EMIS_LOC MP_C_EMIS_LOC T_GTIS_SYSTEM_SERIALNUMBER units.dat - KV – added
CanDbc 6.2.2	I	1804	Increased the max number of messages CanDbc can send to 255

Application, Script or Library	Issue Type	Issue Number	Description
push_link 6.2.1	I	1803	push_link will now split large variable lists into smaller lists of <40 variables.
add_water 6.2.1	I	1797	add_water will perform proper calculations for base_comp
libasset.so.6.2.0 6.2.3	NF	1778	logical_transition() was locking the variable lock every time causing performance issues.
alias_labels 6.2.1 datapoint 6.2.5	B	1642	alias_labels would occasionally cause core dump of stat_child due to invalid alias structure
wait_for_event 6.2.0	NF	1612	create an application that a user can place in a script to pause and wait for an event This command will allow the user to pause a script until a particular event is received wait_for_event <event_name> [timeout in seconds]
ao_transfer 6.2.1 comp_perf 6.2.1 run_aver 6.2.2 var_transfer 6.2.1 cell_mon 6.2.2 unico_dynlink_stream 6.2.1 unico_modbus_srv 6.2.1	I	1538	increasing the reconfiguration timeout values The reconfiguration of controls takes over a minute and several apps have a reconfiguration timeout that is very short. We need to increase this so that we don't get false reports or watchdog events
libasset.so.6.2.0 6.2.3 eng_specs 6.2.1	B	1519	eng_specs core dumped when trying to create a variable that already existed Additional error checking was added when creating a variable and in reporting it in eng_specs

Central Server Applications

Application, Script or Library	Issue Type	Issue Number	Description
ongadata 6.2.5	I	1942	Updated usage for argument changes to ongadata
ongadata 6.2.5	NF	1919	ongadata now uses a new mount method to transfer files There is a new way for ongadata to recovers data from the GC. It can now use a samba mount system to read the new files. Once the samba mount has been done, there is a new keyword in the spec file called @MOUNT_DIRECTORY followed by the mounted directory. ongadata will now pull new files from this mount directory rather than through FTP.
ongadata 6.2.5	B	1812	ongadata will now attempt to reconnect after a connection issue
all_sites_info 6.2.1	I	1734	sort by CyFlex Version added to the all_sites_info report

Java Applications

Application, Script or Library	Issue Type	Issue Number	Description
trace_tree.jar 6.2.1	I	1952	Enhancements to Cyrius Equipment Search Minor updates to GUI program to add a column to a table and to allow the user the ability to save or export the content of the table to excel.
/cyflex/specfilegui/ExternalDataManager.jar /cyflex/specfilegui.3rdparty/SocketServer.jar /cyflex/specfilegui.3rdparty/hopper_utilities.jar	NF	1776	Update PAM Data Loading for C-2-C As part of the Cummins data center changes (C-2-C) the PAM loading process needed to be updated. A new data loading process, PAM SSL is

Application, Script or Library	Issue Type	Issue Number	Description
/cyflex/cmds/start_pam_ssl_loading, stop_pam_ssl_loading, extdatman.cummins.pamssl /specs/extdatman.cummins.pamssl			now available. Both the old and the new data loading processes are available since it may be awhile before the C-2-C work has a production socket server running. Like the old data loading, a configuration file is required. A sample is in /cyflex/specs.def/samples/extdatman.cummins.pamssl. When running this at a test cell or a central node, this file must be installed under /specs.

Qt Applications

Application, Script or Library	Issue Type	Issue Number	Description
libcyflexplugin_sql.so.6.2.0 6.2.2	I	1961	MSU Status widget connects to the acdc database
libcyflexplugin_sql.so.6.2.0 RC-6.2.4	I	1944	Fixed problem with MSU Status button connecting to the database properly
libcyflexplugin.so.6.2.0 6.2.5	B	1938	Displaying alias labels is the default for widgets within runqtui
tcal_util 6.2.8	I	1733	re-instate the warning message pop-up that *.tbl does not agree with *.save

Transient Emission Applications

Application, Script or Library	Issue Type	Issue Number	Description
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esvd_star5.raw 6.2.1 esvd_star5.b09 6.2.1	I	1823	<p>esvd_star5.b09 had leak check arguments updated</p> <p>When using @PM_LEAK_TEST_VALIDATION, it only requires 5 arguments, but the code was never updated to go past an error, and said it required 6 or 7 arguments. Now if you have something like the PM_LEAK_TEST_VALIDATION below, you will no longer encounter the error.</p> <pre>@PM_LEAK_TEST_VALIDATION PM_SAMPLE_TRAIN MPS 0.30 % 2017-08-04T05:46:28</pre>
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Weighroom Applications

Application, Script or Library	Issue Type	Issue Number	Description
wtrm_qt 6.2.4	B	1940	set the FILTERWEIGHING.expiration_date = current date when assigning a second filter to reference set
wtrm_repos_mgr 6.2.4	B	1836	add dbase_disconnect call when no CVS data found when building repository manager data file
wtrm_qt 6.2.4	B	1741	Force required number of sample filter readings to be ini file value if the calculated value is less than ini value