Overview

Installation Notes

General Applications

Central Server Applications

CyFlex® 6.2.17 Release Notes

Overview

This release notes document identifies and describes the updates for CyFlex version 6.2.17.

The following application types are included for this release.

- General Applications
- Central Server Applications

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

Installation Notes

gp_test – CFBUG-2251

A critical bug in "gp_test" has been uncovered by staff at CTCC. This bug has existed for many years since the introduction of the "immediate" mode timeout which is specified by a negative timeout value such as "-1[sec]". The negative timeout means that the test mode has no countdown clock and the mode actions will be executed as fast as the CPU can execute them before proceeding to the next mode (usually less than 1[ms]).

When "gp_test" is in the process of executing this "immediate" mode, it will not respond to some of the events that are specified in @GLOBAL_EVENTS, @REGISTERED_EVENTS, @UNIVERSAL_EVENTS, and @UNIVERSAL_REGISTERED_EVENTS. Exceptions to this are the events transmitted by the "adv", "idle", "hold", "release", "suspend", and "gp_stop" commands. However, other events such as the commonly used "abort_limit" and "emergency" events will be ignored during this very short time window.

If the test procedure contains a few "immediate" modes in a loop that takes several seconds or minutes to execute, the probability of missing one of these critical events will be extremely small. This is why the bug has not been discovered before now. However, if the test procedure contains a loop that consists of modes that are all specified as "immediate", then gp_test will be guaranteed to miss one of these events if it occurs during the execution of that loop.

This issue should only be of concern for procedures which have specifications that attach to events such as "abort_limit" and "emergency". This is usually only the "test" instance of "gp_test". Other instances which manage auxiliary systems such as smoke meters, etc.,

generally don't connect to "abort_limit" or "emergency", so the use of "immediate" modes won't cause an issue.

BOTTOM LINE:

1) If you have test procedures which manage the engine and contain some "immediate" modes, there is a slight risk of missing a critical event such as "abort_limit" or "emergency".
2) If you have test procedures which contain loops consisting entirely of a sequence of "immediate" modes, these critical events will be missed while executing those loops.

asam3_ctrl – CFBUG-2023

When launched asam3_ctrl will send commands to CUTY.

By setting the variable "asam3ctrl_suspend" to TRUE, the communications will be suspended. Setting it to FALSE will reactivate communications.

svar asam3ctrl_suspend ON   (to suspend)

svar asam3ctrl_suspend OFF   (activate)

General Applications

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

X = denotes additional information about change within corresponding Jira Issue

Application, Script or Library	Issue Type	Bug Fix Name	Description
gp_test 6.2.9	B	2252	gp_test missed "abort_limit" and "emergency" in an "immediate" mode See Installation Notes above
start_cold_soak_period	NF	2250	Program added per Ryan Lauer This app will set the Cold_Soak MSU state to ON and then OFF after a specified period
segment_logr	I	2248	Modification to handle a log file that had a large number of variables Increased the maximum line length and the maximum number of files
subsonic 6.2.3	I	2240	Allow subsonic task to use Cd > 1 modified subsonic to allow Cd up to 2.0
create_var 6.2.1	I	2235	Increase the event queue size for transition events from 1 to 10
libelog.so.6.2.0 6.2.2	B	2233	Fixed dived by zero error in elog library when 0 log entries are returned
asam3_ctrl 6.2.1	NF	2023	asam3_ctrl can now be suspended/activated by setting/resetting the variable ASAM3CTRL_SUSPEND

Central Server Applications

Application, Script or Library	Issue Type	Bug Fix Name	Description
libelog.so.6.2.0 6.2.2 libJNI.so.6.2.0 6.2.1 connsrvr 6.2.3 libconnsrvr.so.6.2.0 6.2.1 libconnsrvr_msu.so.6.2.0 6.2.1 libasset.so.6.2.0 6.2.5	B	2232	Fixed number of places where character buffers were not null terminated

CyberApps Applications

Application, Script or Library	Issue Type	Bug Fix Name	Description
cyberwizard 6.2.1 CyberServer 6.2.1 caComponent 6.2.1 caGet 6.2.0 caLoad 6.2.1 caStop 6.2.1 CyberColl 6.2.1	NF	2247	Functionality added to define new/additional components for CyberApps and cyberwizard for Hybrid