

# ecflow release 5.1.0

## Bug

- [\[ECFLOW-534\]](#) - server: log hostname for ecflow\_client users commands (protocol change)
- [\[ECFLOW-631\]](#) - server: allow suite clock to be synced for use before why command (protocol change)
- [\[ECFLOW-1451\]](#) - ecflowUI: ecflow 5 GUI pings the ecflow 4.0 servers. Caused operational issues.
- [\[ECFLOW-1461\]](#) - ecFlowUI: repeat date with one date should not start with ... in tree view
- [\[ECFLOW-1470\]](#) - server: add proper error string in reply when a version 5 client tries to connect to a 4 server
- [\[ECFLOW-1510\]](#) - server: status change time reported in info panel is wrong
- [\[ECFLOW-1513\]](#) - ecFlowUI: client command errors are not shown in popup
- [\[ECFLOW-1546\]](#) - ecFlowUI: edited repeat is not updated automatically in tree view

## New Feature

- [\[ECFLOW-1454\]](#) - Last day of the month in cron expression

## Task

- [\[ECFLOW-899\]](#) - doc: Update confluence about new features for 5.0.0 release
- [\[ECFLOW-900\]](#) - ecflowui: Update zombie panel with additional column for explanation
- [\[ECFLOW-901\]](#) - ecflowui: The why command should be preceded by sync\_local(true/\*sync\_clock\*/)
- [\[ECFLOW-920\]](#) - server: Add migrate/restore autoarchive/autorestore to reduce server memory load(protocol change)
- [\[ECFLOW-923\]](#) - client: convert use of ecf::Flag::MIGRATED -> ecf::Flag::HIDDEN
- [\[ECFLOW-930\]](#) - server: allow arbitrary attributes
- [\[ECFLOW-931\]](#) - ecflowui: Remove hide/show menu options related to Flag::MIGRATED
- [\[ECFLOW-932\]](#) - ecflowui: Add menu/commands to support archive/restore
- [\[ECFLOW-933\]](#) - client: current way of splitting strings for parsing is very slow
- [\[ECFLOW-934\]](#) - installation: Upgrade to latest boost
- [\[ECFLOW-939\]](#) - server: replace boost serialisation in the check pt file with the defs file
- [\[ECFLOW-1483\]](#) - remove unused clock option startStopWithServer
- [\[ECFLOW-1484\]](#) - What happens to scheduled tasks when Ecflow is not running?
- [\[ECFLOW-1487\]](#) - ecflowUI: Info panel for inlimit does not show -s or -n option

## Improvement

- [\[ECFLOW-501\]](#) - server: queue attribute (protocol change)
- [\[ECFLOW-675\]](#) - eliminate usage of std::auto\_ptr
- [\[ECFLOW-829\]](#) - refactor class attributes to improve packing, more cache friendly
- [\[ECFLOW-878\]](#) - server: family inlimit (protocol change)
- [\[ECFLOW-881\]](#) - installation: Test the latest boost 1.68
- [\[ECFLOW-883\]](#) - server: refactor SSyncCmd, since Servers will always return a Defs (protocol change)
- [\[ECFLOW-885\]](#) - server: integrate password functionality for 5.0.0(protocol change)
- [\[ECFLOW-886\]](#) - tests: Update tests to avoid old migration workarounds
- [\[ECFLOW-887\]](#) - server: ecflow should return how a zombie arose.(i.e. pid mismatch, password mismatch, etc)(protocol change)
- [\[ECFLOW-973\]](#) - client: remove use of ECF\_NODE
- [\[ECFLOW-974\]](#) - server: Investigate alternative to boost serialisation
- [\[ECFLOW-1009\]](#) - server: allow non-blocking query for state,dstate,repeat,event,meter, variable,trigger
- [\[ECFLOW-1059\]](#) - client: make the parsing of defs file format fault tolerant
- [\[ECFLOW-1060\]](#) - server: uses the defs format for wire transfer, when loading the whole defs
- [\[ECFLOW-1064\]](#) - server: Use defs file format in place of boost for client->server.
- [\[ECFLOW-1065\]](#) - server: Replace command wire format with json. (replace boost for client->server)
- [\[ECFLOW-1144\]](#) - ecFlowUI: authentication should allow specifying a user and a password
- [\[ECFLOW-1157\]](#) - server: Update queue attribute to support error handling
- [\[ECFLOW-1178\]](#) - client: allow inline scripts for testing and python
- [\[ECFLOW-1179\]](#) - server: investigate template library in addition ecflow pre-processing directives
- [\[ECFLOW-1180\]](#) - gui: remove ecflowview from the build/test in Jamfile and cmake
- [\[ECFLOW-1245\]](#) - server: when job creation takes too long , create a flag to notify the user
- [\[ECFLOW-1259\]](#) - overload protection, burst prevention
- [\[ECFLOW-1272\]](#) - server: take advantage of c++11/c++14 features to improve performance
- [\[ECFLOW-1308\]](#) - replace boost::string\_ref with boost::string\_view
- [\[ECFLOW-1317\]](#) - optimise client server interaction for ecflow\_ui, reduce latency
- [\[ECFLOW-1320\]](#) - installation: build both python 2.7 and 3.0 boost libs
- [\[ECFLOW-1329\]](#) - server: modernize c++ , by using clang-tidy
- [\[ECFLOW-1336\]](#) - server: The zombie attribute should record the ecflow\_client host
- [\[ECFLOW-1355\]](#) - Update log readers to take into account changes in log file format
- [\[ECFLOW-1372\]](#) - ecflowUi: Should use ClientInvoker::set\_auto\_sync() to avoid calling sync\_local
- [\[ECFLOW-1457\]](#) - server: run encryption on password on client and server
- [\[ECFLOW-1474\]](#) - use std::regex instead of boost regex
- [\[ECFLOW-1489\]](#) - Extend query command to include labels
- [\[ECFLOW-1490\]](#) - Possibility to mix ssl and non ssl servers in ecflow\_ui
- [\[ECFLOW-1526\]](#) - server: Allow specifying initial value of an Event
- [\[ECFLOW-1527\]](#) - Create Repeat type for iterating through an arbitrary list of dates and which understands date arithmetics

- [\[ECFLOW-1537\]](#) - date attribute validity
- [\[ECFLOW-1538\]](#) - task/family reordering, based on runtime
- [\[ECFLOW-1549\]](#) - client: allow simple reporting of server definition statistics
- [\[ECFLOW-1552\]](#) - installation: Build with latest boost/1.71 , python3 and cmake/3.15.0