

UC4-Automic-AE-CLI-Binary-Repository

****Repository of all CLI Binaries (all compiled CLI projects)****

Purpose:

provide a repository of ****Command Line Interface Binaries**** in order to extend the capabilities that the UI currently offers.

Design:

****Each binary takes at least 2 possible flags/options:****

* ****--help****: displays the list of AE Connection Parameters that can be specified (if overriding the parameters contained in connection.config file)

* ****-h****: displays the list of parameters (Mandatory, Optional etc.) required specifically for each binary

Connection Parameters:

****Each binary needs to establish a connection to the Automation Engine. The connection parameters can be set either:****

* directly in the ****connection.config**** file

* via CLI parameters (see ****--help**** option for list of available parameters: ****-L login -W pwd -C client -D department -H hostname**** etc.)

* Note: IF a parameter is specified both in connection.config and via a CLI parameter, the CLI parameter takes precedence.

CONFIGURATION Files:

* ****connection.config****: contains connection parameters. This file is used by all binaries. All the parameters specified in it can be overridden when using any of the binaries. use -help flag to review override parameters.

Safety:

Each binary is designed to be SAFE and comes with a **mandatory COMMIT mechanism**: it will NOT modify / update / delete / create / execute anything **UNLESS** the -commit flag is added as a parameter.

examples:

* OBJECTS_Delete.jar -name "" => will NOT delete any objects, but instead will run a simulation of Objects to be deleted

* OBJECTS_Delete.jar -name "" -commit => will delete ALL objects or ALL types (you should probably never use this command as-is ;)).

* TASKS_Operations.jar -f_name ".*" -f_status ".*aborted.*" -u_restart "" => will NOT restart anything, but instead will run a simulation of Tasks to be restarted

* TASKS_Operations.jar -f_name ".*" -f_status ".*aborted.*" -u_restart "" -commit => will restart ALL Tasks marked Aborted in the Activities Window

Common Active Parameters:

Most binaries have at least 2 sets of parameters available:

* **-f**: Filter Parameters, parameters used to filter only specific objects (ex: -f_type "JOBS" or -f_title "[Mm]y [Tt]itle.") => MOST **f** parameters support Regular Expressions

* **-u**: Update Parameters, parameters used to update various things (ex: -u_process ["192.168.1.123","192.168.1.987"], or -u_title [".+", "My New Title"], or -u_priority 100) => most parameters requiring ["A","B"] as a format will accept Regular Expressions for "A". "B" is the substitute String.

Other information:

All Binaries leverage the Java Atomic API Simplified Framework. Source Code can be found here:
<https://github.com/brendanSapience/UC4-Atomic---Java-API-Framework-Simplified>

All Binaries are self contained, all source code is available (see below), no guarantee is provided.

Compatibility:

- * Requires Java v1.6 minimum.
- * All Binaries compiled with most current version (v11.2) uc4.jar files (meaning it handles new objects like STORAGE, PERIOD, XML VARIABLE etc.)
- * All Binaries (unless indicated) are compatible with AE v9 and up, a version check is automatically performed before each command for safety.
- * It is strongly advised to test thoroughly in NON-PROD environments.

List of Binaries:

OBJECT Specific CLI Binaries:

- * CALE_Update.jar: Update / import CALE Objects from JSON files.
- * AGENTS_Management.jar: Manage Agents from Client 0 (assign to other clients, delete, etc.) (ex: allow all clients to use Agent WIN01 for Execution)
- * CHANGES_Show.jar: Display content of Audit Trail with filters (needs to be activated in Client 0 first)
- * CONN_Update.jar: Update CONN Objects (including RA CONN such as SOAP or REST CONNs)
- * JOBS_RA_Update.jar: Update RA Jobs (SOAP, REST, FTP, etc.)
- * JSCH_Update.jar: Update SCHED Objects
- * LOGIN_Update.jar: Update LOGIN Objects
- * STORAGE_Update.jar: Update STORAGE Objects (only v11.2 and up)
- * TASKS_Operations.jar: Handle Operations on Activities Window (Deactivate all "Completed" tasks, restart aborted JOBS tasks with title matching ".*DEV.*")
- * USER_Update.jar: Update USER Objects
- * VARA_SQL_Update.jar: Update SQL VARA Objects
- * VARA_SQLI_Update.jar: Update SQLI VARA Objects
- * VARA_STATIC_Update.jar: Update STATIC & XML VARA Objects (XML VARA is a subtype of STATIC)

- * VARA_Update.jar: Update General Properties of VARA Objects
- * JOBF_Update.jar: Update JOBF Objects. (ex: change the pattern for Destination File in all JOBF objects at once)
- * JOBP_Update.jar: Update JOBP Objects. (ex: update all task names for all Workflows at once)
- * JOBS_SQL_Update.jar: Update JOBS_SQL Objects (ex: modify the Database Connection name in all JOBS_SQL containing "*SQL1*" in their name)
- * JOBS_Update.jar: Update JOBS Objects (ex: modify the name of a variable in all JOBS containing "*ABC*" in their title)

***** GENERAL CLI Binaries:*****

- * OBJECTS_Delete.jar: Delete Objects of any type. (with regular expressions...)
- * OBJECTS_Create.jar: Create Objects of any type. (ex: create 200 JOBS Objects)
- * OBJECTS_Duplicate.jar: Duplicate Objects of any type. (ex: duplicate all objects matching name "*AB*PROD*" to "*AB*DEV*" at once)
- * OBJECTS_Export_Import.jar: Import & Export Objects and dependencies (v11.2 and up)
- * OBJECTS_Execute.jar: Execute now or schedule later (executable) Objects. (ex: run now all JOBP matching name "*DEV*JOBP*")
- * OBJECTS_Move.jar: Move Objects of any type anywhere (within the same client) (ex: move all objects matching "*PROD*ABC*" to Folder "SANDBOX")
- * OBJECTS_Rename.jar: Rename Objects of any type (ex: rename objects with title matching ".*Legacy.*" from "*ALPHA*" to "*BETA*")
- * UTIL_ClientAudit.jar: Extract an Audit Report on Specific Client Usage (ex: number of active objects defined, etc.)
- * UTIL_EnvironmentAudit.jar: Extract Environment Wide Usage Report (ex: number of clients defined, etc.)