	QATCH openQCM Real-Time SW Change Control Document			
Release Version	Date	Author	Description	
v2.6b1	06/18/2023	A. Ross	SWEEP PERFORMANCE: FW: 1.5-7.5ms E2E: 1.5-7.5ms CAL: <2s Initial beta version for the v2.6 branch Updated build information Add traceback if error occurs during Back/Next step Adjust smooth factor after 90s when downsampled Adjust velocities for initial fill region [/2, /1.5, /1] Adjust shear_rate calculation to remove 'n' factor Bug Fix: Read all available bytes from serial replies Stop Temp Control even when locked on app exit Bug Fix: Wait for TEC thread to quit when locking it Switch order of version check during 'identify' cmd Parse serial replies to 'identify' command to confirm Bug Fix: Check for any() data in vector1 to end CAL Add upgrade support for v2.6x builds from Dropbox Move Temp Control stability checks for FW solely Change TEC task update period from 3 to 5 secs Bug Fix: Disable TEC task when changing modes	
v2.6b2	06/23/2023	A. Ross	SWEEP PERFORMANCE: FW: 1.5-7.5ms E2E: 1.5-7.5ms CAL: <2s - Updated build information - Bug Fix: Temp Control task could hang main task - Include v2.5b46 in build for non-LCD hardware	
v2.6b3	07/12/2023	A. Ross	SWEEP PERFORMANCE: FW: 1.5-7.5ms E2E: 1.5-7.5ms CAL: <2s - Updated build information - DevMode file moved to local data (persistent) - Warn if DevMode not enabled in new builds - Deduce smooth factor to 75% of what it was - Load icon made transparent, for disabled view - Analyze mode "Cancel" changed to "Close" - Advanced settings layout modified for usability - First and last dots greyed out in Analyze mode - Added table view to analyze results - Embed Figure 4 and table view in slider view - Allow for custom POIs by user in Advanced - Disable toolbar buttons when Analyze is busy - Removed debug traces from Analyze console - Improve warning and error messages - Add a cubic fit for the normalized plot - Reduce debug during lower mode interp - Add percent error and temperature to output file - Check CRCs of output files, delete duplicates - When downsampling, reduce plotting samples - Add Temp Control timeout after 15 minutes	

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			SWEEP PERFORMANCE:
v2.6b4	07/18/2023	A. Ross	FW: 1.5-7.5ms E2E: 1.5-7.5ms CAL: <2s - Updated build information - Downsample plots to one in every 3 samples - Detect HW errors during FW checks - Bug Fix: Remove expiration date of DevMode - Rescan filesystem each load of Analyze mode - Add and remove runs from list upon file search - Remove debug messaging from file search - Add warnings if a timestamp cannot be parsed - Plot normalized curve fit as position on Figure 1 - Bug Fix: Flip avg viscosity from initial fill data - Bug Fix: Raise PermissionError if port open fails - Bug Fix: Temp set to 0.25 when set to 0.00 - Disable Temp Control timeout if DevMode on - Bug Fix: Temp Control does not stop if port busy - Add ability to define "release" builds in Dropbox - Only offer beta build updates if DevMode is on - Background color yellow on auto-off to read it - Disallow Temp Control if no device is connected - Bug Fix: Stop setting offsets if TEC update fails - Detect when device is open in another program - Disable mode-hopping by default (in Advanced)
v2.6b5	08/24/2023	A. Ross	SWEEP PERFORMANCE: FW: 1.5-7.5ms E2E: 1.5-7.5ms CAL: <2s - Updated build information - Get MEIPASS path from architecture when frozen - Replace 'progressbar' with custom implementation - Handle post-firmware update messaging better - Use 'progress mode' to do firmware progress bar - Pull resource files from MEIPASS path when available - Catch and report exceptions during Analyze runs - Suppress AutoGraph warnings from tensorflow - Use 'progress mode' for software download progress - Use the appropriate bundled splash screen per build
v2.6b6	09/12/2023	A. Ross	SWEEP PERFORMANCE: FW: 1.5-7.5ms E2E: 1.5-7.5ms CAL: <2s - Updated build information - Add 'rev' and 'err' to DEV_INFO in config data - Parse 'rev' from INFO command reply at FW check - Remove 'all_velocity' corrections for distances 2/3/4 - Moved creation of TECTask() in MainWindow init() - Force splitter set during initialization to set UI state - Verify user session is still active/valid once an hour - Add warning to stop run before Temp Control edit

SW Changes

v2.6b7	09/17/2023	A. Ross	SWEEP PERFORMANCE: FW: 1.5-7.5ms E2E: 1.5-7.5ms CAL: <2s - Updated build information - Support for setting both TEMP_CAL factors in FW - Verify checksum from launch.bat for EXE builds - Cache set cal values in SW (once, not per device)
v2.6b8	09/25/2023	A. Ross	SWEEP PERFORMANCE: FW: 1.5-7.5ms E2E: 1.5-7.5ms CAL: <2s - Updated build information - Analyze table shows light red when too few points - Create CAL output file during Analyze in DevMode - Detect voltage error when Temp Control starts - Improvments to updater to detect bundle type - Ask user to ignore voltage errors if running old HW - BUG FIX: Batch number cannot be changed
v2.6b9	10/03/2023	A. Ross	SWEEP PERFORMANCE: FW: 1.5-7.5ms E2E: 1.5-7.5ms CAL: <2s - Updated build information - BUG FIX: Conflicting DEVINFO stales init/cal - Check for and resolve any conflicting device infos - Generate CAL file output when Analyze in DEVMODE - CAL file output messaging is INFO level (not red text) - Detect conflicted DEVINFO on port connect/change

			SWEEP PERFORMANCE:
v2.6b10	10/10/2023	A. Ross	FW: 1.5-7.5ms E2E: 1.5-7.5ms CAL: <2s - Updated build information - FlasherX.log should be in logged_data folder in EXE - Find resource files relative to working path in EXE - Allow return of ALL params for given BATCH number - Keep track of step direction during Analyze points - Sort points of interest when opening Advanced view - Treat unused markers on right of plot as missing - After Step 2 sort all poi markers by timestamp - Move next marker ahead of last one if out-of-order - Skip over Steps that are for "unused" markers - Do not process skipped points on marker move - Store all found batch params in the audit XML file - Always apply 'CA_offset' regardless of input type - Add axes markers to Figure 1 top plot for readability - Remove debug traces from Figure 1 top plot PDF - Modify calculation of 15MHz high shear datapoint - Update resource files to v3, 2023-10-10 - Support update checks for resource files - Retain build type "_py" vs "_exe" in folder name - BUG FIX: Pull auto calculated values when editing - Highlight manual parameter entries in Run Info - Show a "reset" button for manual Run Info entries - Default contact angle for non-water solvents is 55 - Require audit signature if batch number now found - Indicate batch 'found' bool in audit XML file - Warn if save or close Run Info with bad batch num - Update SW unbundled version to Python 3.10.11
v2.6b11	10/11/2023	A. Ross	SWEEP PERFORMANCE: FW: 1.5-7.5ms E2E: 1.5-7.5ms CAL: <2s - Updated build information - BUG FIX: High-shear calculation off when 'bad' points - Support flexible array formatting in params lookup file - Use 'all_times' to keep point index order when 'bad' - Refer to 'all_times' instead of 'times' to reference IDX - BUG FIX: Update resource files (see flexible format) - Catch errors extracting resources, still check server - BUG FIX: Download SW zips relative to install folder - Do not extract SW zips relative to working directory - Suppress "Checking entries" warning in Run Info

v2.6b12	10/31/2023	A. Ross	SWEEP PERFORMANCE: FW: 1.5-7.5ms E2E: 1.5-7.5ms CAL: <2s - Updated build information and resources - Support for updating multiplex devices - Show progress bar during FW updates - Set 'ethernet_speed' to 3ms for multiplexing - Support multiplex plotting within Worker class - Calibration class uses a single ParserProcess - Support multiple data streams within Serial - Support for multiple plots within MainWindow - Add Multiplex section to Advanced Settings - Pre-query device info for unknown ports at boot - Show progress bar during SW updates - Specify minimumSize of main layout windows - BUG FIX: Auto sign-out failed to revert to login - Add advanced setting "Auto-detect channel count" - Do not print duplicate log messages to console - Refactor get_web_info() to start_download() - NOTE: Multiplex devices are not fully supported
v2.6b13	11/03/2023	A. Ross	SWEEP PERFORMANCE: FW: 1.5-7.5ms E2E: 1.5-7.5ms CAL: <2s - Updated build information and resources - Additional support structures added for multiplex - Firmware update support for multiplex devices - Indicate "Checking device firmware version" at end - Remove 20% and 40% initial fill points from results - Add 30% error bars to high shear rate calculations - Retain 20% and 40% in the calibration output file - Calibration only supports single device for now*** - Serial adds initial support for multiplex file writes - BUG FIX: Ignoring voltage issues stops FW task - BUG FIX: Do not ask user for FW updates on boot - BUG FIX: Indicate session expired on auto logout - Modify Temp Control slider range from 8 - 40 C - NOTE: Multiplex devices are not fully supported

			SWEEP PERFORMANCE:
			FW: 1.5-7.5ms E2E: 1.5-7.5ms CAL: <2s
v2.6b14	11/10/2023	A. Ross	 Updated build information and resources Only indicate SW update as successful on last one Modified Surface Tension calculation in Analyze Modified initial samples drop as max of 5 or (y / 30) Removed 1.1*DENSITY*300 limitation from Analyze BUG FIX: Error may occur when generating CAL file Treat exception on port open as a failure in Serial BUG FIX: Do not show "up-to-date" if user says no Query temp offsets when setting advanced configs Look for KeyStore dynamically for update queries BUG FIX: Show set temp offsets, never "0" (if set) On session expiration, persist error message on UI NOTE: Multiplex devices are not fully supported
			SWEEP PERFORMANCE: FW: 1.5-7.5ms E2E: 1.5-7.5ms CAL: <2s
v2.6b15	11/28/2023	A. Ross	- Updated build information and resources - Get Device returns the most recently modified PID - Primary put into bootloader when updating PID devs - Max speed 20ms/sample when running in multi-mode - Allow for graceful thread close, only terminate if need - Several Analyze bugs fixed causing analyze failures - Calibration refactored to support multiple serial devs - Add support for read_all() to the Device processor - Add support for read_until() to the Device processor - Refactor Serial.py to support multiple serial devices - Allow for multiple Run Info windows after multi run - Prevent 'config' folder stagnation on PID change - Force re-write DEV_INFO file on change of PID - Send a 'MULTI INIT 0' to refresh LCD on PID change - Get age of calibration returns the oldest age for multi - Concentration supports float text format, not just ints - BUG FIX: Some "auto" values are shown as "manual" - NOTE: Multiplex devices are FULLY SUPPORTED
v2.6b16	12/12/2023	A. Ross	SWEEP PERFORMANCE: FW: 1.5-7.5ms E2E: 1.5-7.5ms CAL: <2s - Updated build information and resources - Improved parsing of "INFO" cmd on update check - Variable MAX SPEED parameters for single vs multi - Log USB serial number only on get_source_ports() - BUG FIX: Analyze can throw error if len(visc) is off - Improved parsing of initialization data streams - Indicate on LCD Initialize result: PASS/ERROR/FAIL - Log USB serial number only on query new dev info - Clear MSGBOX on LCD when user clicks "Reset" - BUG FIX: Updating _py installs creates nested dir - Added support for plate configuration on multiplex

			SWEEP PERFORMANCE:
v2.6b17	12/19/2023	A. Ross	- Updated build information and resources - Update from using Python 3.10.11 to 3.11.7 - Refactor code to align with Python 3.11 syntax - Initialize sweep runs from 2.5MHz to 17.5MHz - Initialize results only expects to find 2 peaks now - Resend STREAM on multi if device does not start - Correctly log ambient temperature on multi runs - Clear MSGBOX on primary device only for multi - Reconstruct curve for multi runs with common X - Reduce plot printing for multi devices for speed - Queue TEC state during multi runs to update UI - Process serial bytes one line at a time, not 1 byte - Silently ignore serial lines that do not start with "Q" - Remove debug log about stopping serial streams - Refactor to allow mode hopping with 2 modes only - Disable Plate Configuration button during runs - Only print temperature data from primary device - Make Plate Configuration button a square on UI
v2.6b18	01/05/2024	A. Ross	SWEEP PERFORMANCE: FW: 1.5-7.5ms E2E: 1.5-7.5ms CAL: <2s - Updated build information and resources - BUG FIX: Multiplex COM detection can get stuck - Base overtone frequency changed from 50 to 25 - BUG FIX: Multiplex only measures 1st mode - Report PID when logging found device config - PY launcher creates symbolic link for logged data
v2.6b19	01/15/2024	A. Ross	SWEEP PERFORMANCE: FW: 1.5-7.5ms E2E: 1.5-7.5ms CAL: <2s - Updated build information and resources - BUG FIX: Multiplex devices sent wrong frequencies - Auto-detect delimeter of batch params resource file - Apply polynomial correction to initial fill when t > 1s - Calibration and Serial passed wrong index for multi - Multi hopping missing base overtones per cycle - Batch params delimeter changed from tab to comma - Combine amplitude plots during multi measurements

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			SWEEP PERFORMANCE: FW: 1.5-7.5ms
v2.6b20	01/23/2024	A. Ross	- Updated build information and resources - Prevent selection of uninitialized devices - Add ability to tune PID controller in Constants.py - Correctly set icon on Plate Configuration window - Skip non-existent folders when exporting runs - Add error when looking up device info post run - Check for and remove calibration file in config root - Send TUNE parameters to device on TEC start - Parse new line in TEMP reply with PID parameters - Add new warning text with PID tuning parameters
			SWEEP PERFORMANCE:
			FW: 1.5-7.5ms
v2.6b21	02/06/2024	A. Ross	- Updated build information and resources - Retuned PID parameters in Constants.py
			Tiotalica Fib paramotors in Constants.py
			SWEEP PERFORMANCE:
			FW: 1.5-7.5ms
v2.6b22	02/13/2024	A. Ross	 Updated build information and resources Added Analyze params to Constants.py to model Added improved Al data modeling to Analyze Auto-calculate POIs and jump to Summary Allow user to "Modify" POIs to manually edit Add Band-Aid #2 to drop more initial fill points Comment out lines referencing "disabled" icons Add icon 'modify.png' for use in Analyze mode Add model 'ModelData.py' for use in Analyze
			SWEEP PERFORMANCE:
v2.6b23	02/21/2024	A. Ross	FW: 1.5-7.5ms E2E: 1.5-7.5ms CAL: <2s - Updated build information and resources - Revised 'avg_in', 'step_size', 'track_width_db' - Changes to ModelData to improve point placement - Increase difference factor to 2.0 all of the time - Run model after Step 1 and Step 2 of Analyze - Added 'MM231106_W7' to batch parameters v11
			SWEEP PERFORMANCE:
v2.6b24	02/22/2024	A. Ross	FW: 1.5-7.5ms E2E: 1.5-7.5ms CAL: <2s - Updated build information and resources - BUG FIX: Model data not processing long runs >90s - BUG FIX: New points not applying if model fails

v2.6b25 v2.6b26	02/26/2024	A. Ross	SWEEP PERFORMANCE: FW: 1.5-7.5ms E2E: 1.5-7.5ms CAL: <2s - Updated build information and resources - BUG FIX: Analyze not asking for secondary audits - BUG FIX: Analyze errors if output or CAL file fails - BUG FIX: Clear marker flags on Back button press - BUG FIX: Do not do smoothing if too few fill points SWEEP PERFORMANCE: FW: 1.5-7.5ms E2E: 1.5-7.5ms CAL: <2s - Updated build information and resources - BUG FIX: Improve model detection of end-of-fill - BUG FIX: Ignore model partial fill if given stop point
v2.6b27	03/01/2024	A. Ross	- BUG FIX: Trust ch1 more than 80% fill point if 'bad' SWEEP PERFORMANCE: FW: 1.5-7.5ms E2E: 1.5-7.5ms CAL: <2s - Updated build information and resources - Revert step_size and track_width_db - BUG FIX: Exit point selection is too early
v2.6r27	03/05/2024	A. Ross	SWEEP PERFORMANCE: FW: 1.5-7.5ms E2E: 1.5-7.5ms CAL: <2s - Updated build information and resources - Release candidate build equivalent of v2.6b27 - BUG FIX: Patch issue with install path of updates
v2.6b28	03/13/2024	A. Ross	SWEEP PERFORMANCE: FW: 1.5-7.5ms E2E: 1.5-7.5ms CAL: <2s - Updated build information and resources - Extend developer mode expiration to 90 days - Modified Surface Tension and Contact Angle formulas - Band-Aid #2: Change thresholds to 15% and 40% - Increase decimal resolution of Surfactant to 5 - Prevent scientific notation in XML for small numbers
v2.6r28	03/13/2024	A. Ross	SWEEP PERFORMANCE: FW: 1.5-7.5ms E2E: 1.5-7.5ms CAL: <2s - Updated build information and resources - Release candidate build equivalent of v2.6b28
v2.6b29	03/19/2024	A. Ross	SWEEP PERFORMANCE: FW: 1.5-7.5ms E2E: 1.5-7.5ms CAL: <2s - Updated build information and resources - Added option: Only ADMIN can update SW/FW - BUG FIX: Never offer B-build to R-build EXE - BUG FIX: R-build gets 'stuck' on run if no device

			SWEEP PERFORMANCE:
v2.6r29	03/19/2024	A. Ross	FW: 1.5-7.5ms E2E: 1.5-7.5ms CAL: <2s - Updated build information and resources - Release candidate build equivalent of v2.6b29
v2.6b30	04/09/2024	A. Ross	SWEEP PERFORMANCE: FW: 1.5-7.5ms E2E: 1.5-7.5ms CAL: <2s - Updated build information and resources - Add "hid" module to project requirements - Renamed icon "analyze.png" to "advanced.png" - Added icon "user.png" - Remove strict dependency on "tensorflow" for Al - Add support for HID-compliant serial devices - Use ModelData() to determine good/bad runs - Rename "Info" button to "Run Info" in Analyze - Change "Analyze" icon from gear to start button - Add user icon and name to right side of toolbar - Change "Advanced settings" from text to button - Add support for Help Tutorials in docked sidebar - BUG FIX: Analyze fails if run length ~90 secs - Show relevant Help Tutorials based on app state - BUG FIX: Baseline coefficients are wrong (multi) - Search for HID devices when scanning USB ports - Indicate "Press start then apply drop" to user - Add "View Tutorials" to Help dropdown menu - BUG FIX: Software update check was freezing UI - Add filesystem configuration checks at startup - Add tutorial configuration logic at startup - Indicate "Drop applied!" in SW during measure - Do not preload "tensorflow" unless it is needed - BUG FIX: Cannot reliably clear PID to FF once set - Add ability to show tutorials on application start - Refactor "app_publiser" to "app_publisher" - Show error details if setting active device fails - Add support for using TyUpdater for FW updates
v2.6b31	04/11/2024	A. Ross	SWEEP PERFORMANCE: FW: 1.5-7.5ms E2E: 1.5-7.5ms CAL: <2s - Updated build information and resources - BUG FIX: SW freezes on run with Temp Control on - BUG FIX: FW update "fails" on COM->HID update - BUG FIX: Hide popup window made by tyUpdater - Report friendly name when doing "Identify" calls - Detect and reassign port if it changes after update - Always use HID 'write_timeout' to avoid app hang - Only close HID port if it was previously opened - Check and open HID port if written to while closed - If using "no" timeout, set it to a max of 15 seconds - If port switches from COM to HID, close serial port - NOTE: Downgrade 'scipy' module to 1.12.0 (buggy)

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			SWEEP PERFORMANCE: FW: 1.5-7.5ms
v2.6b32	04/18/2024	A. Ross	 - Updated build information and resources - BUG FIX: Hide console flashes on app boot - BUG FIX: Runs near 90 secs still cause error - If Analyze load fails, allow manual point selection
			SWEEP PERFORMANCE: FW: 1.5-7.5ms E2E: 1.5-7.5ms CAL: <2s
v2.6b33	05/13/2024	A. Ross	- Updated build information and resources - New Dropbox keystore to allow file uploads - Remove 'platform' dependency from mainWindow - BUG FIX: Error during filesystem configuration - Check for 'targets.csv' when doing SW updates - Add 'subprocess' as global import in mainWindow
			SWEEP PERFORMANCE:
v2.6r33	05/13/2024	A. Ross	- Updated build information and resources - Remove strict dependency on "tensorflow" for Al - Add support for HID-compliant serial devices - Use ModelData() to determine good/bad runs - Add user icon and name to right side of toolbar - Add support for Help Tutorials in docked sidebar - BUG FIX: Analyze fails if run length ∼90 secs - Search for HID devices when scanning USB ports - Indicate "Press start then apply drop" to user - BUG FIX: Software update check was freezing UI - Add filesystem configuration checks at startup - Indicate "Drop applied!" in SW during measure - Refactor "app_publiser" to "app_publisher" - Add support for using TyUpdater for FW updates - Report friendly name when doing "Identify" calls - If Analyze load fails, allow manual point selection - Check for 'targets.csv' when doing SW updates
v2.6b34	05/17/2024	A. Ross	SWEEP PERFORMANCE: FW: 1.5-7.5ms E2E: 1.5-7.5ms CAL: <2s - Updated build information and resources - Add Factory Restore Defaults - Add Global AppSettings - Add "Apply Drop Now" to Plot UI - Add "Calibrating" and "Press Stop" to Plot UI - Remember which Plots are enabled in View menu - Remove unused 'targets' from 'build' in updater - Don't offer dev_mode B-builds an R-build update - Always clear plot status message on stop - Check both frequency and dissipation y_range

v2.6b35	05/21/2024	A. Ross	SWEEP PERFORMANCE: FW: 1.5-7.5ms E2E: 1.5-7.5ms CAL: <2s - Updated build information and resources - Add temp adjusted factor to CA in Analyze - Track "run finished" during measurements - Compare plot limits to baseline deltas - Show "waiting on other channels" until ALL done
v2.6r35	05/13/2024	A. Ross	SWEEP PERFORMANCE: FW: 1.5-7.5ms E2E: 1.5-7.5ms CAL: <2s - Updated build information and resources - Add Factory Restore Defaults - Add Global AppSettings - Add "Apply Drop Now" to Plot UI - Add "Calibrating" and "Press Stop" to Plot UI - Remember which Plots are enabled in View menu - Remove unused 'targets' from 'build' in updater - Don't offer dev_mode B-builds an R-build update - Always clear plot status message on stop - Check both frequency and dissipation y_range - Add temp adjusted factor to CA in Analyze - Track "run finished" during measurements - Compare plot limits to baseline deltas - Show "waiting on other channels" until ALL done
v2.6b36	05/23/2024	A. Ross	SWEEP PERFORMANCE: FW: 1.5-7.5ms E2E: 1.5-7.5ms CAL: <2s - Updated build information and resources - Reducing the fill region cut-off from 0.15-0.4 to 0.1 - The correction for viscous materials is disabled - Breakout 'default_diff_factor' to constants.py - Revert 15MHZ high-shear viscosity calculation
v2.6r36	05/23/2024	A. Ross	SWEEP PERFORMANCE: FW: 1.5-7.5ms E2E: 1.5-7.5ms CAL: <2s - Updated build information and resources - Reducing the fill region cut-off from 0.15-0.4 to 0.1 - The correction for viscous materials is disabled - Breakout 'default_diff_factor' to constants.py - Revert 15MHZ high-shear viscosity calculation

			CWEED DEDECODMANCE.
			SWEEP PERFORMANCE: FW: 1.5-7.5ms
v2.6b37	05/27/2024	A. Ross	 Updated build information and resources BUG: Resolve requirements while honoring any constraints put on other module dependencies Reduce CA offsets for protein formulations to from 7 and 5 to 5 and 3, respectively BUG: SW updates not working in SW v2.6r36_exe due to improper version of 'requests' module for'dropbox' API to work (constraint not honored) Remove "Press Stop" from Plots UI until improved BUG: Only call to '_dbx_connection' if it exists BUG: Set a default value to 'res_download' if none Update UUIP in targets database if it has changed BUG: Only launch EXE after an update if the checksum verification passes Show expected checksum while calculating actual Remove inaccurate text from EXE launcher script Offer to update local Python environment after updating requirements file
v2.6r37	05/27/2024	A. Ross	SWEEP PERFORMANCE: FW: 1.5-7.5ms E2E: 1.5-7.5ms CAL: <2s - Updated build information and resources - BUG: Resolve requirements while honoring any constraints put on other module dependencies - Reduce CA offsets for protein formulations to from 7 and 5 to 5 and 3, respectively - BUG: SW updates not working in SW v2.6r36_exe due to improper version of 'requests' module for'dropbox' API to work (constraint not honored) - Remove "Press Stop" from Plots UI until improved - BUG: Only call to '_dbx_connection' if it exists - BUG: Set a default value to 'res_download' if none - Update UUIP in targets database if it has changed - BUG: Only launch EXE after an update if the checksum verification passes - Show expected checksum while calculating actual - Remove inaccurate text from EXE launcher script - Offer to update local Python environment after updating requirements file