
Manatee v1.27

Release Notes v1.27

Sirenia

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New modules

- HID module with support for low-level keyboard and mouse interaction (#905, #903, #856, #853, #751)
- MQ module (#640)
- Manatee module for controlling the lifecycle of Manatee itself (#622)
- HL7 module for parsing and manipulating HL7 (hats-and-pipes) formatted content (#536)

Features for existing modules

Cron

- The Cron module has (via #888)
- increased precision (1s)
- better performance
- does not allow overlapping flow executions

Html

- `Html.table` function for formatting tables for easier use in flows (#871, #865)
- `Html` module now has `querySelector` and `querySelectorAll` functions (#858)

Db

- `Db.exec` can now use sql-parameters (#869)
- Db now supports Oracle and PostgreSQL databases (#666, #641)
- Fix for long to int conversion in `Db.query` (#973)

Fs

- `Fs.sync` function to synchronise two directories (#768, #749)
- `Fs.ls` now include directories (#747)

Debug

- `Debug.break` function to break flow only if FlowTracer is enabled for easier debugging (#763)

Env

- `Env.userGroups` property now returns a list of the AD groups to which the current user belongs (#725)

Wait

- `Wait.forField` now also takes a `polling` argument which lets users decided how often the driven app should be polled (#717)
- `Wait.forClick` and `Wait.forRightClick` has been added to allow waiting for a user to click a given field (#284)
- `wait.forLock` to wait for a shared lock. This can be used to synchronise access to shared resource across flows (#815)

Flow

- `Flow.run` now has an option for selecting in which session to run the flow (#698)

MQ

- MQ module now has support for sending and receiving messages (#692)

Window

- `Window.close` has been added to close a given window (#689)
- Window module errors are now converted so they can be caught within flows (#683)

Settings

- Settings now supports reading and writing Manatee global settings (#622)

Process

- Reading from process std-out or -err can now be done synchronously (#746)

Misc features

- Include flow name in arguments for flow in `Inputs['eu.sirenia']Id.Action.Name'` (#947)
- Add support for manually clearing disk cache (and restarting) (#776)
- More configuration options for CMR connection (#723)
- Support for running flows when asked by Cuesta (#740)
- Support for hiding apps and flows when so configured in Cuesta (#724)
- Support for supplying extra stats inside a running flow for DDOI purposes (#910, #846)
- Support for *embedded Chromium* app (#673)

Changes for drivers

- Native driver now supports access to embedded IE instances (#870, #866, #867, #862, #857, #830)
- Native driver can now select a tab in a tab control using the `.select` command (#939)
- Add support for the `!` (`includeHidden`) operator in native paths (#861)
- Faster and more stable java attachment by remembering last good set of params for starting app (#785)
- Support for starting Chrome in kiosk and incognito modes (#743)
- Support for printing from embedded IE app (#742)
- Better handling of newlines in table headers for java apps (#715)
- IE driver now supports the `inspect` command (#583)
- IE driver can now launch in a new tab or a new window (#358)

Changes for services

Mail

- The Mail service now supports connecting to Microsoft Exchange servers (#851)
- Support for sending and reading mails with html bodies (#804)
- Access to reading and writing read/unread state of mails in flows (#803)

MQ

- MQ is a new service for interacting with AMQP compatible message queues (#640)

Triggers

- New trigger for running flows when a user clicks an element (button etc) in an application (#948)
- Fix for issues with Hotkey trigger triggering too readily (#798)
- All triggers can now easily be disabled/enabled (#702)
- Service triggers now update themselves in real time when the service configuration is changed in cuesta (#664)

Fields

- `editcell`, `clickcell` etc now supports indices as well as search texts (#933)
- Java applications now support the `highlight` function for fields (#915)
- Fields defined via screenshot can now use exact matched position instead of trying to resolve to an actual field (#902)
- Native app now supports "contains" via wildcards e.g. `*foo*` (#835)
- Native fields can now be cached to support (drastically) faster resolution (#825)
- Manatee now generates better and more precise paths for the Cuesta field-finder functionality (#568, #545)
- `App.focusedField` now provides field level access to the currently focused control in the application (#917)
- Field paths can now contain `;` and `:` and still work (#672)
- Added `bounds()` method to get location and size of field (#901)
- Added path directive as another alternative for difficult to reach UI elements (#607)

Dialogs

- Html input dialog not behaving as normal input dialog wrt button handling and throwing of errors on cancel (#937)
- Fix issue with overwriting of values for multi-text input was given as a function (#894)
- Disable manual input in DATE input (#946,)
- Resumable input forms - the state of an unfinished form can now be used to bootstrap a new input form (#855)
- Missing icons in LISTOF dialog inputs (#826)
- Fix for LISTOF using radio-buttons all belonging to the same group (#675)
- Fix alignment of RADIO and CHECKBOX inputs (#762)
- Html input dialog now uses `maxDialogWidth` property when set (#738)
- Only the first `dependsOn` is evaluated - not anymore (#734)
- Add some missing `i18n` strings for dialogs (#711)
- Fix datepicker formatting date using "en-US" locale always (#710)
- Add support for cancelling a dialog **without** throwing an exception (#682)
- More reliable dependency evaluation (#676)
- Dialog background colors can now be set when showing a dialog (#660)

Context management

- Fix issue with input conversion when no value for a given subject was available (#930)
- Fix issue with cross-session context action invocations where actions destined for one session inadvertently was run in another (similar) session (#926)
- Fix blocking `PublishChangesDecision` (#880, #868)
- Improve performance for pruning of sessions (#924, #898)
- Support for external `ContextParticipants` (#923, #916, #879, #877, #875, #874, #805, #791, #789, #788, #706, #694, #655)
- Implemented performance tracker for external `ContextParticipant` invocations (#912, #883, #779)
- Fix issue with some subjects being ignored in multi-subject transactions (#900)
- `grpc` host-name for external connections is now configurable (was previously hardcoded to `localhost`) (#864)
- State flows can now be mandatory which means that we will automatically make sure that applications whose mandatory states are not available will not be allowed to start/run (#790)
- Support for applications which either has no GET or SET state flow making their state read- or write-only (#787)
- The full shared state is now made available to flows (#761)

Performance improvements

- Support for pre-compilation of flows which increase performance for large flows (#882, #792, #769, #765)
- Increased speed and reliability with which applications are discovered and will attach (#956, #844, #729, #727, #605)
- Configuration updates can now be buffered for non-developer machines which will decrease the delay with which changes to flows etc are pushed to Manatees (for enterprise setups where the number of Manatees is large, >5000) (#958)
- Faster startup when no connection to CMR can be made (#934, #922, #735)
- Decreased memory and CPU utilization (#878, #839, #834)
- Faster remote loading of resources for branding/i18n (#801)
- Re-use gRPC connection if possible (#722)
- Much faster trigger invocations (#714)
- Fix problems with reduced mouse cursor responsiveness (#842)

Fixes

- Anchors defined in one app could be matched in another (#943)
- Java host app crashes due to erroneous handling of accessibility features (#941, #838)
- Better connection options for embedded java apps (#828)
- Menu and field-finder not shown correctly in embedded java apps (#940, #829)
- Improved stability of Clipboard functionality (#932)
- Cleanup DOM after IE eval (#871)
- Better placements (non-overlapping) of notifications (#799)
- Fix for gRPC issue with large flows (#767)
- Fix for gRPC issue when connecting to CMR without compression enabled (#764, #678)
- Issue with context-menu not showing if two subjects with the same key was defined in Cuesta (#897)
- Fixed overflow issue in context-menu when many subjects match context (#896)
- Fixed issue with some context-arguments missing from context menu (#757)
- Better alignment on flows shown (in context-menu) vs flows that Manatee actually will run based on the configuration of groups (#496)
- Process accessor errors can now be caught in flows (#752)
- IE now treats title- and url-matching strings (from Cuesta) as regular expressions (#732)
- Fixed crash when input-selector was mishandled (#713)
- Fix concurrency issue with Table.save (#707, #699, #696)
- Better error messages for Table.map (#705)

- Fix esoteric Crypto/base64 bug (#703)
- Fix for msi installer failing when previously attached java app was still running (#701)
- Improved stability for receiving updates from CMR (#690)
- Fix parsing error for flow types (#684)
- Alt + right click in native apps now works (when enabled)
- Embedded notifications in applications which draw their own chrome may have wrong placement (#966)
- Notification.close does not close notification if it has not yet been shown (#969)
- Translate window coordinates from optical field recognition into document coordinates
- (https://gitlab.com/sirenia/manatee/-/merge_requests/682)
- Add robustness to the document rectangle finding logic of chrome and firefox
- (https://gitlab.com/sirenia/manatee/-/merge_requests/679)
- Fix: Chrome window handles on new window
- (https://gitlab.com/sirenia/manatee/-/merge_requests/678)
- Handle another 'Invalid handle' exception to get tests running again
- (https://gitlab.com/sirenia/manatee/-/merge_requests/675)
- Add dugong for java 6 apps along with a new setting to disregard specific java versions
- (https://gitlab.com/sirenia/manatee/-/merge_requests/670)
- Feature: Application notifications
- (https://gitlab.com/sirenia/manatee/-/merge_requests/669)
- Catch exception when attempting to treat explorer windows as IE windows
- (https://gitlab.com/sirenia/manatee/-/merge_requests/665)
- Fix: Ensure resolved arguments are all url-encoded to fix #1117
- (https://gitlab.com/sirenia/manatee/-/merge_requests/664)
- Include %JAVA_HOME% in search-paths for Java, fixes #1114
- (https://gitlab.com/sirenia/manatee/-/merge_requests/663)
- Fix: "Focus focus focus" backport of fix #1098
- (https://gitlab.com/sirenia/manatee/-/merge_requests/662)
- Update to more robust white library and fix firefox document finding logic
- (https://gitlab.com/sirenia/manatee/-/merge_requests/658)
- Stop using white for traversing the chrome UI
- (https://gitlab.com/sirenia/manatee/-/merge_requests/655)
- Add support for putting persistent values in the clipboard
- (https://gitlab.com/sirenia/manatee/-/merge_requests/650)
- Fix broken handling of auth errors in flowtracer
- (https://gitlab.com/sirenia/manatee/-/merge_requests/649)
- Fix: Wait a bit before attempting to setup the script interface in hosted IE, fixes #1087
- (https://gitlab.com/sirenia/manatee/-/merge_requests/643)

- Perf: Field image memory woes
- (https://gitlab.com/sirenia/manatee/-/merge_requests/642)
- Add TLS 1.2 support and better error messages, fixes #1086
- (https://gitlab.com/sirenia/manatee/-/merge_requests/641)
- Fix: Hosted chrome launch url escaping
- (https://gitlab.com/sirenia/manatee/-/merge_requests/640)
- Feature: Collect texts
- (https://gitlab.com/sirenia/manatee/-/merge_requests/639)
- Fix: Make sure `.Reset()` is called after newed `X509Certificate2` has been used, fixes #1080
- (https://gitlab.com/sirenia/manatee/-/merge_requests/638)
- Wait for initial value when loading service configurations from kwanza
- (https://gitlab.com/sirenia/manatee/-/merge_requests/634)
- Log `CurrentCulture` at startup
- (https://gitlab.com/sirenia/manatee/-/merge_requests/633)
- Fix `ConcatenatedString` bugs in `MailServiceModule`
- (https://gitlab.com/sirenia/manatee/-/merge_requests/632)
- Fix: Catch exceptions in focus-following subscription, fixes #1070
- (https://gitlab.com/sirenia/manatee/-/merge_requests/631)
- Fix/los/1.27/1062 ie attach fail
- (https://gitlab.com/sirenia/manatee/-/merge_requests/627)
- Fix NPE related bug in `MNA.CanAttach` logic causing certain app configurations...
- (https://gitlab.com/sirenia/manatee/-/merge_requests/613)
- Fix: Structured logging for FAC loop
- (https://gitlab.com/sirenia/manatee/-/merge_requests/610)
- Feature/los/1.27/pid to process caching
- (https://gitlab.com/sirenia/manatee/-/merge_requests/609)
- Fix: `Fullautocontroller` reactive optimizations
- (https://gitlab.com/sirenia/manatee/-/merge_requests/608)
- Add support for passing command options along to `ManagedApplication.ResolveFromPath`
- (https://gitlab.com/sirenia/manatee/-/merge_requests/607)
- Fix various buggy native driver actions
- (https://gitlab.com/sirenia/manatee/-/merge_requests/606)
- Resolve "Keyboard trigger debounce includes too much text"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/603)
- Proper merge for incoming LISTOF changes, fixes #1033
- (https://gitlab.com/sirenia/manatee/-/merge_requests/602)
- When new options input with a selected value is given for a checkbox, use it.
- (https://gitlab.com/sirenia/manatee/-/merge_requests/599)

- Better handling of missing delim arg and automatically add header for object list
- (https://gitlab.com/sirenia/manatee/-/merge_requests/592)
- Use configured method for default conflict resolution, fixes #1015
- (https://gitlab.com/sirenia/manatee/-/merge_requests/591)
- Fix: Add auth for inbound FlowTracer commands (needs a valid user)
- (https://gitlab.com/sirenia/manatee/-/merge_requests/590)
- Fix merge on Input.Properties to include IsSelected
- (https://gitlab.com/sirenia/manatee/-/merge_requests/589)
- Resolve "Make Settings.Manatee.NNN case insensitive"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/588)
- NotifyPropertyChanged for InputType and fix dependency eval for func input elements
- (https://gitlab.com/sirenia/manatee/-/merge_requests/587)
- Fix: Dialog focus issues
- (https://gitlab.com/sirenia/manatee/-/merge_requests/585)
- Task-kill if playing nice (over named pipe) fails, fixes #1005
- (https://gitlab.com/sirenia/manatee/-/merge_requests/582)
- Resolve "Firefox app rect is no longer accurate"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/580)
- Resolve "Field finder is strange on modal java windows"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/579)
- Ensure that flow to pop is not null, fixes #1001
- (https://gitlab.com/sirenia/manatee/-/merge_requests/577)
- ManateeHelper now logs to RollingFile only, fixes #992
- (https://gitlab.com/sirenia/manatee/-/merge_requests/574)
- Route preview of scroll-wheel to ScrollViewer from all UIElements.
- (https://gitlab.com/sirenia/manatee/-/merge_requests/573)
- Fix focusing on an element which occurs after another dependent element
- (https://gitlab.com/sirenia/manatee/-/merge_requests/569)
- Accept field path in "highlight-field" debug websocket
- (https://gitlab.com/sirenia/manatee/-/merge_requests/564)
- Bump krom to 1.2.1
- (https://gitlab.com/sirenia/manatee/-/merge_requests/563)
- Make native driver resolve data compatible with new path editor logic in cuesta
- (https://gitlab.com/sirenia/manatee/-/merge_requests/562)
- Make AllFields and AllFlows wait for data from Kwanza, fixes #988
- (https://gitlab.com/sirenia/manatee/-/merge_requests/561)
- Resolve "Intercept deploy does not happen for java apps"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/560)

- Fix: Dugong `getComponent` perf (1.27)
- (https://gitlab.com/sirenia/manatee/-/merge_requests/557)
- Fix: Setting for accessible context via reflection
- (https://gitlab.com/sirenia/manatee/-/merge_requests/556)
- Resolve "Greater time-to-show for right-click menu in v1.27 vs v1.26"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/555)
- Resolve "Make sure embedded java app produces right click menu"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/553)

Changelog for v1.27.0 - v1.27.1

Issues mentioned

- [#651] Update internal certificate reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/651>)
- [#592] Serial communication reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/592>)

Changelog for v1.27.1 - v1.27.2

- Re-introduce support for reading the UIA legacy value using the UIAComWrapper, fixes #661 (again)
- (https://gitlab.com/sirenia/manatee/-/merge_requests/297)

Issues mentioned

- [#661] Access legacy value for native applications reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/661>)

Changelog for v1.27.2 - v1.27.3

Issues mentioned

- [#667] `ArrayInstance` instead of `List<string>` in `JavaScriptMail` reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/667>)
- [#592] Serial communication reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/592>)

- [#3] Validate input (CPR) reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/3>)
- [#2] Centralize application detection and window/process matching reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/2>)

Changelog for v1.27.3 - v1.27.4

Issues mentioned

Changelog for v1.27.4 - v1.27.5

- Resolve "Bug: Experimental IE driver NPE when navigating from one hash to another"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/298)

Issues mentioned

- [#567] Bug: Experimental IE driver NPE when navigating from one hash to another reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/567>)

Changelog for v1.27.5 - v1.27.6

Issues mentioned

Changelog for v1.27.6 - v1.27.7

Issues mentioned

- [#669] Add optional timeout parameter to Window.title() reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/669>)

Changelog for v1.27.7 - v1.27.8

Issues mentioned

- [#670] Date input should support a javascript date as its default value reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/670>)

Changelog for v1.27.8 - v1.27.9

- Add support for ContextActions in grpc- and http CM endpoints.
- (https://gitlab.com/sirenia/manatee/-/merge_requests/290)

Issues mentioned

- [#675] LISTOF radio-buttons all belong to the same group reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/675>)
- [#674] Support eval api method reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/674>)
- [#671] Record uptime for bot/estero reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/671>)
- [#670] Date input should support a javascript date as its default value reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/670>)
- [#655] Support for ContextAction.Perform and ParticipantMonitor reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/655>)

Changelog for v1.27.9 - v1.27.10

- Hotfix: Flow type parsing
- (https://gitlab.com/sirenia/manatee/-/merge_requests/311)
- (MASTER) Flow type deserialization now ignores case, fixes #684
- (https://gitlab.com/sirenia/manatee/-/merge_requests/310)
- Add non-js to js error conversion on Window module, fixes #683
- (https://gitlab.com/sirenia/manatee/-/merge_requests/309)
- Resolve "Ensure newlines are replaced before transmission"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/308)
- Resolve "Native driver should backtrack when following a path"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/306)
- Integrating new puppeteer build
- (https://gitlab.com/sirenia/manatee/-/merge_requests/305)
- Enable compression (configurable) for registry traffic, fixes #678
- (https://gitlab.com/sirenia/manatee/-/merge_requests/304)
- Make the kwanza auth parameters configurable
- (https://gitlab.com/sirenia/manatee/-/merge_requests/303)
- Resolve "Support eval api method"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/302)

Issues mentioned

- [#684] Incorrect parsing of flow types reported by @jonathan
(<https://gitlab.com/sirenia/manatee/-/issues/684>)
- [#683] Catch and convert errors on Window module reported by @jonathan
(<https://gitlab.com/sirenia/manatee/-/issues/683>)
- [#680] Native driver should backtrack when following a path reported by @los-sirenia
(<https://gitlab.com/sirenia/manatee/-/issues/680>)
- [#679] Ensure newlines are replaced before transmission reported by @los-sirenia
(<https://gitlab.com/sirenia/manatee/-/issues/679>)
- [#678] Enable gRPC compression reported by @jonathan
(<https://gitlab.com/sirenia/manatee/-/issues/678>)
- [#674] Support eval api method reported by @los-sirenia
(<https://gitlab.com/sirenia/manatee/-/issues/674>)
- [#669] Add optional timeout parameter to Window.title() reported by @jonathan
(<https://gitlab.com/sirenia/manatee/-/issues/669>)
- [#619] A chrome/firefox app can change window handle after attachment. This breaks various functionality. reported by @los-sirenia
(<https://gitlab.com/sirenia/manatee/-/issues/619>)
- [#504] Fix Jonathan user reported by @spiderdaimi
(<https://gitlab.com/sirenia/manatee/-/issues/504>)

Changelog for v1.27.10 - v1.27.11

- Add support for Window.close and Windows.close, fixes #689
(https://gitlab.com/sirenia/manatee/-/merge_requests/315)
- Resolve "Better path detection for native monitor"
(https://gitlab.com/sirenia/manatee/-/merge_requests/314)
- Resolve "A chrome/firefox app can change window handle after attachment. This breaks various functionality."
(https://gitlab.com/sirenia/manatee/-/merge_requests/312)

Issues mentioned

- [#689] Window.close reported by @jonathan
(<https://gitlab.com/sirenia/manatee/-/issues/689>)
- [#619] A chrome/firefox app can change window handle after attachment. This breaks various functionality. reported by @los-sirenia

- (<https://gitlab.com/sirenia/manatee/-/issues/619>)
- [#568] Better path detection for native monitor reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/568>)

Changelog for v1.27.11 - v1.27.12

- Resolve "Native driver: CaseView observations - various problems"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/318)
- Feature: More fs trigger filters
- (https://gitlab.com/sirenia/manatee/-/merge_requests/316)

Issues mentioned

- [#691] Native paths with (name) SomeName does not seem to function reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/691>)
- [#688] Various filesystem trigger questions / observations reported by @lykke
- (<https://gitlab.com/sirenia/manatee/-/issues/688>)
- [#668] Use uiacomwrapper to speed up native field resolution reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/668>)

Changelog for v1.27.12 - v1.27.13

Issues mentioned

Changelog for v1.27.13 - v1.27.14

- Provide version for table updates, fixes #696
- (https://gitlab.com/sirenia/manatee/-/merge_requests/320)
- A bunch of fixes from testing with an external context participant.
- (https://gitlab.com/sirenia/manatee/-/merge_requests/319)

Issues mentioned

- [#696] Include lamport in table updates reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/696>)
- [#694] Misc (external) ContextParticipant issues reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/694>)

Changelog for v1.27.14 - v1.27.15

- Use the returned version version to update local copy of table
- (https://gitlab.com/sirenia/manatee/-/merge_requests/324)
- Feature: Flow.run with session selector
- (https://gitlab.com/sirenia/manatee/-/merge_requests/323)
- Switch icon lib to better maintained and more flexible
- (https://gitlab.com/sirenia/manatee/-/merge_requests/322)
- Feature: Update proto
- (https://gitlab.com/sirenia/manatee/-/merge_requests/321)
- Resolve "Convert MQ to service"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/317)

Issues mentioned

- [#699] Table update does not record new version reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/699>)
- [#698] Flow.run should be able to switch between sessions reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/698>)
- [#697] Icon lib is no longer maintained, find alternative reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/697>)
- [#640] Convert MQ to service reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/640>)

Changelog for v1.27.15 - v1.27.16

- Make IE application selectors use AttachmentMatchers, fixes #732
- (https://gitlab.com/sirenia/manatee/-/merge_requests/343)
- Unpad base64 strings prior to decoding
- (https://gitlab.com/sirenia/manatee/-/merge_requests/342)
- Do not dispose ManagedReferenceApplication prematurely
- (https://gitlab.com/sirenia/manatee/-/merge_requests/341)
- Use Win32 for hwnd enumeration and more exception handling, fixes #729
- (https://gitlab.com/sirenia/manatee/-/merge_requests/340)
- Resolve "COM IE driver frequently disconnects and can't reconnect"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/339)
- Resolve "Teststack fails to enumerate windows"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/338)

- Synchronise dugong install dir files to deployment directory, fixes #701
- (https://gitlab.com/sirenia/manatee/-/merge_requests/337)
- Re-use the grpc channel if cert is unchanged, fixes #722
- (https://gitlab.com/sirenia/manatee/-/merge_requests/335)
- Add configurable Kwanza auth timeout, fixes #723
- (https://gitlab.com/sirenia/manatee/-/merge_requests/334)
- Removed, aggregated and de-escalated selected logging statements
- (https://gitlab.com/sirenia/manatee/-/merge_requests/333)
- Removed, aggregated and de-escalated selected logging statements
- (https://gitlab.com/sirenia/manatee/-/merge_requests/332)
- Remove obsolete ApplicationsPromise and associated waits, fixes #714
- (https://gitlab.com/sirenia/manatee/-/merge_requests/331)
- Use en-US locale for re-parsing value from datepicker, fixes #710
- (https://gitlab.com/sirenia/manatee/-/merge_requests/330)
- Fix: Missing updates and overly complex GroupLookup
- (https://gitlab.com/sirenia/manatee/-/merge_requests/328)
- Propagate table id to save to avoid creating new tables, fixes #707
- (https://gitlab.com/sirenia/manatee/-/merge_requests/327)
- Resolve "MQ module send/receive support"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/325)

Issues mentioned

- [#732] IE does not use regular expressions to match title or url when attaching reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/732>)
- [#730] ManagedReferenceApplication gets disposed prematurely reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/730>)
- [#729] Make FullAutoController more robust wrt exceptions in enumerations and errors in internal loops reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/729>)
- [#727] Teststack fails to enumerate windows reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/727>)
- [#723] Authentication timeout should be configurable reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/723>)
- [#722] Re-use the grpc channel on re-connect if possible reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/722>)
- [#718] Reduce logging reported by @jonathan

- (<https://gitlab.com/sirenia/manatee/-/issues/718>)
- [#703] Decrypt does not work in 1.27.17 reported by @lykke
- (<https://gitlab.com/sirenia/manatee/-/issues/703>)
- [#701] Move dugong to %appdata% dir before injecting reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/701>)
- [#673] Embedded Chromium reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/673>)
- [#578] COM IE driver frequently disconnects and can't reconnect reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/578>)
- [#714] Triggered flows are heavily delayed reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/714>)
- [#710] Datpicker formats date according to en-US reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/710>)
- [#707] Table.save sometimes creates a new table with the same name reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/707>)
- [#700] Add "http" on LaunchWi th for browsers if not already prefixed with "http" reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/700>)
- [#692] MQ module send/receive support reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/692>)
- [#690] New flows and apps are not pushed to Manatee reported by @spiderdaimi
- (<https://gitlab.com/sirenia/manatee/-/issues/690>)
- [#673] Embedded Chromium reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/673>)

Changelog for v1.27.20 - v1.27.21

- maxDi a l o g W i t h is now read and used in the html input dialog, fixes #738
- (https://gitlab.com/sirenia/manatee/-/merge_requests/352)
- Resolve "Cannot attach to IE app for <https://virk.dk>"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/351)
- Modernised the ObserveChanges method of IObservableFinder
- (https://gitlab.com/sirenia/manatee/-/merge_requests/346)

Issues mentioned

- [#738] HtmlInputDialog does not use maxDi a l o g W i d t h property reported by @jonathan

- (<https://gitlab.com/sirenia/manatee/-/issues/738>)
- [#736] Cannot attach to IE app for <https://virk.dk> reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/736>)
- [#735] Deadlock on boot if cache is empty reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/735>)
- [#733] ObserveChanges does not emit events happened while Kwanza was down reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/733>)

Changelog for v1.27.21 - v1.27.22

- Include groups in local actions listing, fixes #706
- (https://gitlab.com/sirenia/manatee/-/merge_requests/357)
- Feature: Support explicit switch to hide apps and flows
- (https://gitlab.com/sirenia/manatee/-/merge_requests/356)
- Resolve "Keyboard trigger debounce support"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/336)
- Resolve "Add "http" on LaunchWith for browsers if not already prefixed with "http"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/329)

Issues mentioned

- [#747] Include directories in Fs . ls reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/747>)
- [#724] Respect display-app-in-menu-when-unattached for apps and use-in-flow-launch-menu for flows reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/724>)
- [#706] Supply groups and supplemental information on flows/applications in seacow interface reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/706>)
- [#700] Add "http" on LaunchWith for browsers if not already prefixed with "http" reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/700>)
- [#686] Keyboard trigger debounce support reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/686>)

Changelog for v1.27.22 - v1.27.23

- Add try-catch around all ProcessProxy getters, fixes #752
- (https://gitlab.com/sirenia/manatee/-/merge_requests/362)
- Add Fs . sync method, fixes #749
- (https://gitlab.com/sirenia/manatee/-/merge_requests/359)
- Feature/los/686 keyboard trigger debounce
- (https://gitlab.com/sirenia/manatee/-/merge_requests/358)
- Hardening the application selector
- (https://gitlab.com/sirenia/manatee/-/merge_requests/355)

Issues mentioned

- [#757] Arguments are replaced not appended in the ContextMenuController reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/757>)
- [#752] Accessing properties on a Process proxy is not safe reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/752>)
- [#749] Fs . sync reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/749>)
- [#713] Crash in ApplicationController via InputSelector reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/713>)
- [#710] DatePicker formats date according to en-US reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/710>)
- [#686] Keyboard trigger debounce support reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/686>)
- [#673] Embedded Chromium reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/673>)

Changelog for v1.27.23 - v1.27.24

- Avoid locking API mutex in Flow.run
- (https://gitlab.com/sirenia/manatee/-/merge_requests/363)

Issues mentioned

- [#759] Manatee in locked state reported by @lykke

- (<https://gitlab.com/sirenia/manatee/-/issues/759>)
- [#754] 6 minute timeout reported by @lykke
- (<https://gitlab.com/sirenia/manatee/-/issues/754>)
- [#673] Embedded Chromium reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/673>)

Changelog for v1.27.24 - v1.27.25

Issues mentioned

Changelog for v1.27.25 - v1.27.26

- Make restart-every-night configurable, fixes #755
- (https://gitlab.com/sirenia/manatee/-/merge_requests/365)

Issues mentioned

- [#755] Manatee Crash reported by @spiderdaimi
- (<https://gitlab.com/sirenia/manatee/-/issues/755>)
- [#744] App menu issue on wrong kwanza address reported by @spiderdaimi
- (<https://gitlab.com/sirenia/manatee/-/issues/744>)

Changelog for v1.27.26 - v1.27.27

- Add support for optical fields existing outside the main application window
- (https://gitlab.com/sirenia/manatee/-/merge_requests/366)

Issues mentioned

- [#741] Should be possible to find optical fields on the entire screen reported by @spiderdaimi
- (<https://gitlab.com/sirenia/manatee/-/issues/741>)

Changelog for v1.27.27 - v1.27.28

- Supply supported context for GET and SET state flows, fixes #761
- (https://gitlab.com/sirenia/manatee/-/merge_requests/367)

Issues mentioned

- [#762] Radiobuttons and checkboxes are not aligned reported by @jonathan
(<https://gitlab.com/sirenia/manatee/-/issues/762>)
- [#761] Make full state available for state flows reported by @jonathan
(<https://gitlab.com/sirenia/manatee/-/issues/761>)
- [#673] Embedded Chromium reported by @jonathan
(<https://gitlab.com/sirenia/manatee/-/issues/673>)

Changelog for v1.27.28 - v1.27.29

- Resolve "Add inspect support for COM IE driver"
(https://gitlab.com/sirenia/manatee/-/merge_requests/371)
- Resolve "Proxied IE discovery should be driven from PageManager"
(https://gitlab.com/sirenia/manatee/-/merge_requests/370)
- Resolve "Move the IE Helper functionality into the Manatee project"
(https://gitlab.com/sirenia/manatee/-/merge_requests/369)
- Add support for printing from hosted IE via the `ctrl+P` shortcut, fixes #742
(https://gitlab.com/sirenia/manatee/-/merge_requests/368)
- Resolve "Embedded Chromium"
(https://gitlab.com/sirenia/manatee/-/merge_requests/326)
- Dialog input background color
(https://gitlab.com/sirenia/manatee/-/merge_requests/295)

Issues mentioned

- [#768] Disable delete from Files.sync to avoid super-weird delete-in-source-directory-maybe bug reported by @jonathan
(<https://gitlab.com/sirenia/manatee/-/issues/768>)
- [#767] Manatee should set max receive- and send message size to a large number reported by @jonathan
(<https://gitlab.com/sirenia/manatee/-/issues/767>)
- [#764] Connecting to a Kwanza without gzip enabled (pre v2.7) fails reported by @jonathan
(<https://gitlab.com/sirenia/manatee/-/issues/764>)
- [#742] Support printing from embedded IE reported by @jonathan
(<https://gitlab.com/sirenia/manatee/-/issues/742>)
- [#737] Move the IE Helper functionality into the Manatee project reported by @los-sirenia
(<https://gitlab.com/sirenia/manatee/-/issues/737>)

- [#673] Embedded Chromium reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/673>)
- [#668] Use uiacomwrapper to speed up native field resolution reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/668>)
- [#660] Dialog bg colors reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/660>)
- [#621] Proxied IE discovery should be driven from PageManager reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/621>)
- [#583] Add inspect support for COM IE driver reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/583>)

Changelog for v1.27.29 - v1.27.30

- Harden notification methods, fixes #771
- (https://gitlab.com/sirenia/manatee/-/merge_requests/376)
- Feature: Cache compiled included flows
- (https://gitlab.com/sirenia/manatee/-/merge_requests/372)

Issues mentioned

- [#771] Issue with Inputs in 1.27.29 reported by @lykke
- (<https://gitlab.com/sirenia/manatee/-/issues/771>)
- [#768] Disable delete from Files.sync to avoid super-weird delete-in-source-directory-maybe bug reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/768>)
- [#765] Optimise Flow . include by using a cache of CompileScripts reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/765>)

Changelog for v1.27.30 - v1.27.31

- Lock Run method for isolated flow executions, for #771
- (https://gitlab.com/sirenia/manatee/-/merge_requests/378)

Issues mentioned

- [#771] Issue with Inputs in 1.27.29 reported by @lykke
- (<https://gitlab.com/sirenia/manatee/-/issues/771>)

Changelog for v1.27.31 - v1.27.32

- Resolve "Error proofing Dugong known-params handling"
(https://gitlab.com/sirenia/manatee/-/merge_requests/383)
- Feature: Upgrade protobuf and grpc
(https://gitlab.com/sirenia/manatee/-/merge_requests/381)
- Resolve "Save successful dugong/java parameters with application id"
(https://gitlab.com/sirenia/manatee/-/merge_requests/380)
- Resolve "Include flow version in flow-started/ended log messages"
(https://gitlab.com/sirenia/manatee/-/merge_requests/379)
- Add support for compiled scripts for flows
(https://gitlab.com/sirenia/manatee/-/merge_requests/377)
- Resolve "Start Chrome in kiosk and incognito modes"
(https://gitlab.com/sirenia/manatee/-/merge_requests/373)

Issues mentioned

- [#785] Error proofing Dugong known-params handling reported by @jonathan
(<https://gitlab.com/sirenia/manatee/-/issues/785>)
- [#784] Issue #3 w. 1.27.32 (Kunne ikke forbinde til Cosmic) reported by @lykke
(<https://gitlab.com/sirenia/manatee/-/issues/784>)
- [#777] Upgrade and test protobuf and grpc libraries reported by @jonathan
(<https://gitlab.com/sirenia/manatee/-/issues/777>)
- [#774] Include flow version in flow-started/ended log messages reported by @los-sirenia
(<https://gitlab.com/sirenia/manatee/-/issues/774>)
- [#769] CompiledScript optimisation for ACTION and STATE flows reported by @jonathan
(<https://gitlab.com/sirenia/manatee/-/issues/769>)
- [#743] Start Chrome in kiosk and incognito modes reported by @jonathan
(<https://gitlab.com/sirenia/manatee/-/issues/743>)
- [#605] Save successful dugong/java parameters with application id reported by @los-sirenia
(<https://gitlab.com/sirenia/manatee/-/issues/605>)
- [#59] Action menu close when scrolling reported by @lykke
(<https://gitlab.com/sirenia/manatee/-/issues/59>)

Changelog for v1.27.32 - v1.27.33

- Fix: Inputs are not set within Runner.run lock
(https://gitlab.com/sirenia/manatee/-/merge_requests/384)

Issues mentioned

- [#783] Issue 2 w 1.27.32 (undefined not an object) reported by @lykke
- (<https://gitlab.com/sirenia/manatee/-/issues/783>)

Changelog for v1.27.35 - v1.27.36

- Make mail send sync (avoid await/async) to catch exceptions
- (https://gitlab.com/sirenia/manatee/-/merge_requests/389)
- Make sure the compiled script cache is not static
- (https://gitlab.com/sirenia/manatee/-/merge_requests/388)
- Resolve "Prevent FullAutoController from launching apps"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/387)
- Split supported state into readable and writable components, fixes #787
- (https://gitlab.com/sirenia/manatee/-/merge_requests/386)

Issues mentioned

- [#787] Deal with missing GET for state flows reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/787>)
- [#772] Update cordless-puppeteer build in manatee reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/772>)
- [#766] Prevent FullAutoController from launching apps reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/766>)

Changelog for v1.27.36 - v1.27.37**Issues mentioned****Changelog for v1.27.37 - v1.27.38****Issues mentioned****Changelog for v1.27.38 - v1.27.39****Issues mentioned****Changelog for v1.27.39 - v1.27.40**

- Fix shutdown NPE (recent regression)
- (https://gitlab.com/sirenia/manatee/-/merge_requests/391)
- Make sure Flow.include uses script cache for mother engine, fixes #792
- (https://gitlab.com/sirenia/manatee/-/merge_requests/390)

Issues mentioned

- [#792] Flow.include script cache should be per script-engine reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/792>)
- [#772] Update cordless-puppeteer build in manatee reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/772>)

Changelog for v1.27.42 - v1.27.43

- Feature: Color and nofullauto in create-session invocation
- (https://gitlab.com/sirenia/manatee/-/merge_requests/399)

Issues mentioned

- [#789] CreateRequest should accept color (string) and nofullauto (bool) as additional arguments reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/789>)
- [#788] CreateRequest should not be limited by max CM count (configurable) reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/788>)

Changelog for v1.27.43 - v1.27.44

Issues mentioned

Changelog for v1.27.44 - v1.27.45

- Resolve "Eliminate remaining manual STA thread creations"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/410)
- Resolve "IE driver does not detect when page moves on to non-matching url"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/408)
- Add stdout and -err handling with callback and deadline, fixes #746
- (https://gitlab.com/sirenia/manatee/-/merge_requests/407)
- Resolve "Excel file loading doesn't work when specifying the 'table' property"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/406)
- Relay reason from failed perform to invokers, fixes #805
- (https://gitlab.com/sirenia/manatee/-/merge_requests/405)
- Add support for r+w html body for mails, fixes #804
- (https://gitlab.com/sirenia/manatee/-/merge_requests/404)
- Resolve "IE driver works badly with frames"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/401)

Issues mentioned

- [#809] IE driver does not detect when page moves on to non-matching url reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/809>)
- [#808] Unmapped .NET2js Mail Service Exception reported by @spiderdaimi
- (<https://gitlab.com/sirenia/manatee/-/issues/808>)
- [#806] Excel file loading doesn't work when specifying the 'table' property reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/806>)
- [#805] Relay failed action to invoker (context participants - grpc, http) reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/805>)
- [#804] HtmlBody for mails reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/804>)
- [#797] Eliminate remaining manual STA thread creations reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/797>)
- [#746] Better stdout and -err read reported by @jonathan

- (<https://gitlab.com/sirenia/manatee/-/issues/746>)
- [#425] IE driver works badly with frames reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/425>)

Changelog for v1.27.45 - v1.27.46

- Feature: Performance timer
- (https://gitlab.com/sirenia/manatee/-/merge_requests/411)
- Feature: Seacow (remote context-manager) integration
- (https://gitlab.com/sirenia/manatee/-/merge_requests/313)

Issues mentioned

- [#779] Response time measurements reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/779>)
- [#15] Interface with Seacow reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/15>)

Changelog for v1.27.46 - v1.27.47

- Resolve "Web IE null pointer cause app disconnect"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/422)
- Add clickable icons for ListOf, fixes #826
- (https://gitlab.com/sirenia/manatee/-/merge_requests/421)
- Resolve "Debug.break()"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/420)
- Feature: Field caching for native
- (https://gitlab.com/sirenia/manatee/-/merge_requests/419)
- Get git branch at compile time and use in places
- (https://gitlab.com/sirenia/manatee/-/merge_requests/418)
- Feature: Module documentation
- (https://gitlab.com/sirenia/manatee/-/merge_requests/417)
- Resolve "Direct debug from cuesta - unresponsive debugger UI"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/416)
- Resolve "Wait.forLock"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/415)
- Resolve "Cache for enumerations of windows/processes used by the FullAutoController"

- (https://gitlab.com/sirenia/manatee/-/merge_requests/414)
- Resolve "COM IE driver: More specific error message when eg click fails because field could not be found"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/413)
- Resolve "Respect enabled property on triggers"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/412)

Issues mentioned

- [#826] Missing icons in LISTOF reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/826>)
- [#825] Faster native field resolution by caching resolved fields reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/825>)
- [#824] Manatee crash reported by @lykke
- (<https://gitlab.com/sirenia/manatee/-/issues/824>)
- [#823] IE app gets disconnected when IE is minimized reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/823>)
- [#822] Direct debug from cuesta - unresponsive debugger UI reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/822>)
- [#820] Web IE null pointer cause app disconnect reported by @spiderdaimi
- (<https://gitlab.com/sirenia/manatee/-/issues/820>)
- [#818] Email trigger triggers twice for single email with two email triggers on a flow reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/818>)
- [#816] COM IE driver: More specific error message when eg click fails because field could not be found reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/816>)
- [#815] Wait.forLock reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/815>)
- [#786] Cache for enumerations of windows/processes used by the FullAutoController reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/786>)
- [#763] Debug.break() reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/763>)
- [#702] Respect enabled property on triggers reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/702>)

Changelog for v1.27.47 - v1.27.48**Issues mentioned****Changelog for v1.27.48 - v1.27.49**

- Resolve "NPE when clicking in App selector dialog"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/429)
- Fix memory leak due to multiple instances of apps ...
- (https://gitlab.com/sirenia/manatee/-/merge_requests/428)
- Resolve "Db module error when extracting rows with DBNull values in them"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/427)
- Add support for contains using e.g. *foo* for native apps, fixes #835
- (https://gitlab.com/sirenia/manatee/-/merge_requests/425)
- Resolve "Web IE connection is lost after some time"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/423)

Issues mentioned

- [#840] NPE when clicking in App selector dialog reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/840>)
- [#839] Mem leak on application attach/detach cycle reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/839>)
- [#837] Db module error when extracting rows with DBNull values in them reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/837>)
- [#835] Add support for contains in path queries reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/835>)
- [#819] Web IE connection is lost after some time reported by @spiderdaimi
- (<https://gitlab.com/sirenia/manatee/-/issues/819>)

Changelog for v1.27.55 - v1.27.56

- Azure build and publish
- (https://gitlab.com/sirenia/manatee/-/merge_requests/439)

Issues mentioned**Changelog for v1.27.56 - v1.27.57**

- Better API for PerfTimer and more external timings (for all external apps)
- (https://gitlab.com/sirenia/manatee/-/merge_requests/440)
- Resolve "Field detection feature (relational matcher)"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/437)
- Feature: Log stats from within flow
- (https://gitlab.com/sirenia/manatee/-/merge_requests/435)
- Add HID module for low-level keyboard and mouse input
- (https://gitlab.com/sirenia/manatee/-/merge_requests/360)

Issues mentioned

- [#852] Tweak performance measurements reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/852>)
- [#846] More DDOI related info in fLow-ended log statement reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/846>)
- [#800] Field detection feature (relational matcher) reported by @lykke
- (<https://gitlab.com/sirenia/manatee/-/issues/800>)
- [#751] Input module for low-level input via SendInput reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/751>)

Changelog for v1.27.57 - v1.27.58**Issues mentioned**

- [#857] Access to frames in embedded browser reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/857>)
- [#856] Support waiting between keystrokes in Keyboard module reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/856>)

Changelog for v1.27.58 - v1.27.59**Issues mentioned****Changelog for v1.27.59 - v1.27.60**

- Fix KnownExecutables
- (https://gitlab.com/sirenia/manatee/-/merge_requests/445)
- Feature: Html module with superpowers
- (https://gitlab.com/sirenia/manatee/-/merge_requests/444)

Issues mentioned

- [#860] KnownExecutables has several problems reported by @spiderdaimi
- (<https://gitlab.com/sirenia/manatee/-/issues/860>)
- [#859] Re-introduce the branch-name with "-" in the msi installer name for CI reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/859>)
- [#858] Add support for querySelectors in HTML module reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/858>)

Changelog for v1.27.60 - v1.27.61

- Feature: HTML module with superpowers, part II
- (https://gitlab.com/sirenia/manatee/-/merge_requests/450)
- Fix/los/829 embedded java offset
- (https://gitlab.com/sirenia/manatee/-/merge_requests/449)

Issues mentioned

- [#829] Native app with embedded and offset java window causes the field-finder to miss the locations of fields (CSC) reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/829>)

Changelog for v1.27.61 - v1.27.62

Issues mentioned

Changelog for v1.27.62 - v1.27.63

- Feature: HTML decode and trim table output
- (https://gitlab.com/sirenia/manatee/-/merge_requests/457)
- Make the grpc interface hostname configurable
- (https://gitlab.com/sirenia/manatee/-/merge_requests/456)
- Resolve "Cannot send backslashes with sendKeys"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/455)
- Resolve "Prevent gdi handle leak when loading CMR overridden icons"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/454)
- Add support for using querySelector to find (i)frame
- (https://gitlab.com/sirenia/manatee/-/merge_requests/453)
- Resolve "Support for field paths tokens that contain a /"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/452)
- Feature: Add support for ! in native paths, fixes #861
- (https://gitlab.com/sirenia/manatee/-/merge_requests/451)

Issues mentioned

- [#865] Remove html entities from Html.table output reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/865>)
- [#864] Make the grpc hostname configurable reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/864>)
- [#863] Cannot send backslashes with sendKeys reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/863>)
- [#862] GetFrames should support a querySelector to find frames reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/862>)
- [#861] Add support for the ! (includeHidden) operator in native paths reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/861>)
- [#854] Support for field paths tokens that contain a / reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/854>)
- [#834] Prevent gdi handle leak when loading CMR overridden icons reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/834>)

Changelog for v1.27.63 - v1.27.64

- PublishChangesDecision can now both be async and sync
- (https://gitlab.com/sirenia/manatee/-/merge_requests/461)
- Embedded IE thread and cast fixes
- (https://gitlab.com/sirenia/manatee/-/merge_requests/460)
- Resolve "HotkeyTriggerMechanism sometimes triggers when it shouldn't"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/458)

Issues mentioned

- [#868] PublishChangesDecision should be able to work async and sync (configurable) reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/868>)
- [#867] Verify tag name is "iframe" or "frame" before cast reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/867>)
- [#866] Embedded IE cross-thread exception reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/866>)
- [#798] HotkeyTriggerMechanism sometimes triggers when it shouldn't reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/798>)

Changelog for v1.27.64 - v1.27.65

- Add support for parameters in Db . exec, fixes #869
- (https://gitlab.com/sirenia/manatee/-/merge_requests/462)

Issues mentioned

- [#869] Add support for SQLParametres to DB Module reported by @spiderdaimi
- (<https://gitlab.com/sirenia/manatee/-/issues/869>)

Changelog for v1.27.65 - v1.27.66**Issues mentioned****Changelog for v1.27.70 - v1.27.71****Issues mentioned**

- [#882] Precompile flag for STATE flows has no effect reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/882>)

Changelog for v1.27.71 - v1.27.72**Issues mentioned****Changelog for v1.27.72 - v1.27.73**

- Feature: Parallel performance timers
- (https://gitlab.com/sirenia/manatee/-/merge_requests/472)
- Perf: Move runner initialization to Attach (was in constructor) for #878
- (https://gitlab.com/sirenia/manatee/-/merge_requests/468)

Issues mentioned

- [#883] PerformanceTimer measurements for parallel executions reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/883>)
- [#878] Investigate mem usage wrt bringing it down reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/878>)

Changelog for v1.27.73 - v1.27.74

- Resolve "ProxiedApp sending field paths with ; or : needs to escape them"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/473)

Issues mentioned

- [#672] ProxiedApp sending field paths with ; or : needs to escape them reported by @los-sirenia

- (<https://gitlab.com/sirenia/manatee/-/issues/672>)

Changelog for v1.27.74 - v1.27.75

- Make Cron more robust (and predictable by removing awaits), fixes #886
- (https://gitlab.com/sirenia/manatee/-/merge_requests/474)

Issues mentioned

- [#886] CRON stopped working reported by @spiderdaimi
- (<https://gitlab.com/sirenia/manatee/-/issues/886>)
- [#884] Typemapping Jurassic.Undefined missing reported by @spiderdaimi
- (<https://gitlab.com/sirenia/manatee/-/issues/884>)

Changelog for v1.27.75 - v1.27.76

Issues mentioned

- [#887] ManagedReference application fails to respond to pings and quits reported by @spiderdaimi
- (<https://gitlab.com/sirenia/manatee/-/issues/887>)

Changelog for v1.27.76 - v1.27.77

Issues mentioned

Changelog for v1.27.77 - v1.27.78

- Feature: Cron refactor
- (https://gitlab.com/sirenia/manatee/-/merge_requests/476)

Issues mentioned

- [#892] Cron trigger should queue new flow invocations only when its last invocation has run reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/892>)
- [#356] Command line application reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/356>)

Changelog for v1.27.78 - v1.27.79

- Keep existing value if set when setting new multitext props, fixes #894
- (https://gitlab.com/sirenia/manatee/-/merge_requests/477)

Issues mentioned

- [#895] Headless app doesn't initialize its runner reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/895>)
- [#894] Multitext values are overwritten if input element is defined as a function reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/894>)

Changelog for v1.27.79 - v1.27.80

- Go through *all* items to check for newness in SetItemValues, fixes #900
- (https://gitlab.com/sirenia/manatee/-/merge_requests/483)
- Switch grpc+ws+http participants to return subjects - not flow identifiers
- (https://gitlab.com/sirenia/manatee/-/merge_requests/482)
- Handle any exceptions when adding arguments from matching subjects, fixes #897
- (https://gitlab.com/sirenia/manatee/-/merge_requests/481)
- Make the argument into a wrap-panel to fix #896
- (https://gitlab.com/sirenia/manatee/-/merge_requests/480)
- Feature: Reusable input forms
- (https://gitlab.com/sirenia/manatee/-/merge_requests/479)

Issues mentioned

- [#900] SetItemValues does not actually enroll all changes given reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/900>)
- [#898] Shared state pruning prunes too many subjects reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/898>)
- [#897] When two subjects have the same key the context menu stops working reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/897>)
- [#896] Context menu subject match overflow reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/896>)

- [#855] Re-usable input forms reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/855>)

Changelog for v1.27.80 - v1.27.81

- Feature: Add menu-option to clear cache, fixes #776 (kind of)
- (https://gitlab.com/sirenia/manatee/-/merge_requests/485)
- Fix: Make sure context menu is within screen bounds, fixes #758
- (https://gitlab.com/sirenia/manatee/-/merge_requests/484)

Issues mentioned

- [#776] First run on newly started Manatee will always use cached flows if available reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/776>)
- [#758] Pop up context menu entirely within same screen as clicked point reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/758>)

Changelog for v1.27.81 - v1.27.82

- Fix: Missing conversion of exceptions for Field and Processes module
- (https://gitlab.com/sirenia/manatee/-/merge_requests/491)
- Feature: Reset fields when hidden in inputdialog
- (https://gitlab.com/sirenia/manatee/-/merge_requests/490)
- Feature: Getting locations from optical (only) fields, fixes #901
- (https://gitlab.com/sirenia/manatee/-/merge_requests/489)
- Fix: Mouse moveTo in pixels
- (https://gitlab.com/sirenia/manatee/-/merge_requests/488)
- Feature: Add throws boolean flag which prevents dialogs from throwing exceptions
- (https://gitlab.com/sirenia/manatee/-/merge_requests/487)

Issues mentioned

- [#906] Uncatchable Exception from Native App reported by @spiderdaimi
- (<https://gitlab.com/sirenia/manatee/-/issues/906>)

- [#903] Mouse module locations for moveTo are 0-65535 should be in pixels reported by @jonathan
(<https://gitlab.com/sirenia/manatee/-/issues/903>)
- [#901] Location from optical field reported by @jonathan
(<https://gitlab.com/sirenia/manatee/-/issues/901>)
- [#682] Dialog cancels without exception reported by @jonathan
(<https://gitlab.com/sirenia/manatee/-/issues/682>)

Changelog for v1.27.82 - v1.27.83

- Refactor Runner.Run invocation to ensure flow-ended is always logged
(https://gitlab.com/sirenia/manatee/-/merge_requests/496)
- Do not create new stats for nested flows (instead they'll use their parents)
(https://gitlab.com/sirenia/manatee/-/merge_requests/495)
- Feature: Use bounds from optical-util to highlight
(https://gitlab.com/sirenia/manatee/-/merge_requests/493)
- Feature: HID blocker
(https://gitlab.com/sirenia/manatee/-/merge_requests/492)

Issues mentioned

- [#911] ThreadPool thread gets depleted (via leaking tasks - probably) reported by @spiderdaimi
(<https://gitlab.com/sirenia/manatee/-/issues/911>)
- [#910] Nested flows overwrites Log.flowStats reported by @jonathan
(<https://gitlab.com/sirenia/manatee/-/issues/910>)
- [#909] Flow-ended log on killed application while flow is running reported by @spiderdaimi
(<https://gitlab.com/sirenia/manatee/-/issues/909>)
- [#908] Highlight to use location found in optical case reported by @jonathan
(<https://gitlab.com/sirenia/manatee/-/issues/908>)
- [#905] Input blocker functionality reported by @jonathan
(<https://gitlab.com/sirenia/manatee/-/issues/905>)

Changelog for v1.27.83 - v1.27.84

Issues mentioned

Changelog for v1.27.84 - v1.27.85

- Resolve "Improve handling of fields in DXC CCS"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/503)
- Run a health-check every 5m to verify that there is enough avail task threads
- (https://gitlab.com/sirenia/manatee/-/merge_requests/501)
- Feature: External support for delete state
- (https://gitlab.com/sirenia/manatee/-/merge_requests/500)
- Resolve "Implement highlight for ManagedJavaApplication by way of resolve"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/499)
- Resolve "Native applications can break manatee's Keyboard hook"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/498)
- Remove internal timers for participants, fixes #912
- (https://gitlab.com/sirenia/manatee/-/merge_requests/497)
- Resolve "Location from non-optical field"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/494)

Issues mentioned

- [#920] Improve handling of fields in DXC CCS reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/920>)
- [#916] ContextManager should support state deletion via API/ContextParticipants reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/916>)
- [#915] Implement highlight for ManagedJavaApplication by way of resolve reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/915>)
- [#914] Native applications can break manatee's Keyboard hook reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/914>)
- [#912] Re-classify participant survey as external time reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/912>)
- [#911] ThreadPool thread gets depleted (via leaking tasks - probably) reported by @spiderdaimi
- (<https://gitlab.com/sirenia/manatee/-/issues/911>)
- [#904] Location from non-optical field reported by @jonathan

- (<https://gitlab.com/sirenia/manatee/-/issues/904>)

Changelog for v1.27.85 - v1.27.86

- Feature: PostgreSQL and Oracle db support
- (https://gitlab.com/sirenia/manatee/-/merge_requests/508)
- Do not start tx if no subjects need pruning, fixes #924
- (https://gitlab.com/sirenia/manatee/-/merge_requests/506)
- Only allow state to be set if subject is in SupportedReadableContextSubjects
- (https://gitlab.com/sirenia/manatee/-/merge_requests/505)
- Initial value is set to empty set when no disk cache can be found
- (https://gitlab.com/sirenia/manatee/-/merge_requests/504)

Issues mentioned

- [#924] Do not start pruning session if there are no subjects to be pruned reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/924>)
- [#923] It should not be possible to set state without a "flow" to represent it for a ContextParticipant reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/923>)
- [#922] Manatee blocks on startup if no Kwanza connection and disk cache empty reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/922>)
- [#641] Oracle and postgresql Data Provider reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/641>)

Changelog for v1.27.86 - v1.27.87

- Resolve "NPE in App.eval"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/510)
- Update ManateeDiscoverer to include secure port in message to steller
- (https://gitlab.com/sirenia/manatee/-/merge_requests/509)

Issues mentioned

- [#926] Include dugong v1.42.1 (for getAccessibleContext fix) reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/926>)

- [#925] NPE in App.eval reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/925>)
- [#363] Type-ahead input reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/363>)

Changelog for v1.27.87 - v1.27.88

Issues mentioned

Changelog for v1.27.88 - v1.27.89

- Fix: Actions crossing cm borders
- (https://gitlab.com/sirenia/manatee/-/merge_requests/513)

Issues mentioned

- [#929] Context-actions invoked on one CM will run on apps in another reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/929>)
- [#928] Date entered by hand in DATE dialog is ignored reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/928>)
- [#705] Fail faster in `Table.map('SomeTable', 'Key')` when column 'Key' does not exists reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/705>)

Changelog for v1.27.89 - v1.27.90

Issues mentioned

- [#930] NPE in context to flow-input conversion reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/930>)
- [#536] HL7 parser module reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/536>)

Changelog for v1.27.90 - v1.27.91

- Feature: Add support for specifying polling delay in `Wait.for` methods
- (https://gitlab.com/sirenia/manatee/-/merge_requests/514)

Issues mentioned

- [#930] NPE in context to flow-input conversion reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/930>)
- [#717] Wait.forField should also take polling interval as argument reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/717>)

Changelog for v1.27.91 - v1.27.92**Issues mentioned****Changelog for v1.27.92 - v1.27.93****Issues mentioned****Changelog for v1.27.93 - v1.27.94**

- Robustness for Clipboard operations, fixing #932
- (https://gitlab.com/sirenia/manatee/-/merge_requests/516)
- Resolve "Service triggers triggering immediately upon manatee startup lose events"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/515)

Issues mentioned

- [#932] Clipboard error 0x800401D0 reported by @lykke
- (<https://gitlab.com/sirenia/manatee/-/issues/932>)
- [#931] Service triggers triggering immediately upon manatee startup lose events reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/931>)

Changelog for v1.27.94 - v1.27.95

- Throw exceptions in html-input on cancel, fixes #937
- (https://gitlab.com/sirenia/manatee/-/merge_requests/518)

Issues mentioned

- [#937] HtmlInput does not throw an exception when you cancel the dialog reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/937>)
- [#936] Uncatchable Exception from App.browserAt reported by @spiderdaimi
- (<https://gitlab.com/sirenia/manatee/-/issues/936>)

Changelog for v1.27.97 - v1.27.98

- Resolve "Native driver: No good way to select a tab in a tabcontrol"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/521)

Issues mentioned

- [#939] Native driver: No good way to select a tab in a tabcontrol reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/939>)

Changelog for v1.27.98 - v1.27.99

- Fix: Expire browser-at instances on Unauth.Access exceptions, fixes #942
- (https://gitlab.com/sirenia/manatee/-/merge_requests/524)
- Fix: Only allow anchors from source app
- (https://gitlab.com/sirenia/manatee/-/merge_requests/523)

Issues mentioned

- [#943] Anchors matching even though defined in non-clicked app reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/943>)
- [#942] BrowserAt cache survives too long reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/942>)
- [#941] Change default accessibilitycontext restriction setting to `.*Table.*` reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/941>)

Changelog for v1.27.99 - v1.27.100

- Resolve "Right click menu logic not working with java app embedded in native app"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/522)

Issues mentioned

- [#940] Right click menu logic not working with java app embedded in native app reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/940>)
- [#74] Return command? reported by @lykke
- (<https://gitlab.com/sirenia/manatee/-/issues/74>)

Changelog for v1.27.100 - v1.27.101**Issues mentioned**

- [#946] Stack overflow for date picker reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/946>)
- [#945] No restart at 3:30 reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/945>)

Changelog for v1.27.101 - v1.27.102

- Resolve "Support MS Exchange as a mail service"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/512)

Issues mentioned

- [#947] Include flow name in arguments reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/947>)
- [#851] Support MS Exchange as a mail service reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/851>)

Changelog for v1.27.102 - v1.27.103

- Resolve "Support special field, which resolves to the currently focused control"

- (https://gitlab.com/sirenia/manatee/-/merge_requests/527)
- Feature: Event intercepts
- (https://gitlab.com/sirenia/manatee/-/merge_requests/526)

Issues mentioned

- [#917] Support special field, which resolves to the currently focused control reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/917>)

Changelog for v1.27.103 - v1.27.104

- Resolve "Manatee sometimes can't attach to java processes"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/530)
- Resolve "Module for inspecting and modifying ManateeSettings"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/528)

Issues mentioned

- [#955] Manatee sometimes can't attach to java processes reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/955>)
- [#622] Module for inspecting and modifying ManateeSettings reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/622>)

Changelog for v1.27.104 - v1.27.105

- Feature: Only iterate processes with windows, fixes #960
- (https://gitlab.com/sirenia/manatee/-/merge_requests/537)
- Resolve "Make AttachmentCache timeouts configurable"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/535)
- Add Wait.forClick and .forRightClick methods, fixes #284
- (https://gitlab.com/sirenia/manatee/-/merge_requests/534)
- Resolve "Make FAC more responsive"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/533)
- Feature: Use buffered streams
- (https://gitlab.com/sirenia/manatee/-/merge_requests/532)

Issues mentioned

- [#960] Only attach to processes with windows reported by @jonathan
(<https://gitlab.com/sirenia/manatee/-/issues/960>)
- [#959] Make AttachmentCache timeouts configurable reported by @jonathan
(<https://gitlab.com/sirenia/manatee/-/issues/959>)
- [#958] Buffered streams reported by @jonathan
(<https://gitlab.com/sirenia/manatee/-/issues/958>)
- [#956] Make FAC more responsive reported by @los-sirenia
(<https://gitlab.com/sirenia/manatee/-/issues/956>)
- [#284] Service Desk (from jesper.vestergaard@rsyd.dk): Wait-for-click reported by @support-bot
(<https://gitlab.com/sirenia/manatee/-/issues/284>)

Changelog for v1.27.105 - v1.27.106

- Resolve "1.27: Native InspectRec should be more robust against errors"
(https://gitlab.com/sirenia/manatee/-/merge_requests/541)
- Resolve "Cannot move an exchange message more than once from a flow"
(https://gitlab.com/sirenia/manatee/-/merge_requests/540)
- Resolve "Offset support for positional markers"
(https://gitlab.com/sirenia/manatee/-/merge_requests/538)

Issues mentioned

- [#964] 1.27: Native InspectRec should be more robust against errors reported by @los-sirenia
(<https://gitlab.com/sirenia/manatee/-/issues/964>)
- [#962] Cannot move an exchange message more than once from a flow reported by @los-sirenia
(<https://gitlab.com/sirenia/manatee/-/issues/962>)
- [#607] Offset support for positional markers reported by @jonathan
(<https://gitlab.com/sirenia/manatee/-/issues/607>)

Changelog for v1.27.106 - v1.27.107**Issues mentioned****Changelog for v1.27.107 - v1.27.108**

- Respect enabled/disabled switch on event-interceptor, fixes #965
- (https://gitlab.com/sirenia/manatee/-/merge_requests/542)

Issues mentioned

- [#965] EventInterceptor does not respect disabled/enabled switch reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/965>)

Changelog for v1.27.108 - v1.27.109

- Use ctx to close notification, fixes #969
- (https://gitlab.com/sirenia/manatee/-/merge_requests/545)
- Fix concurrency and placement issues for embedded notifications, fixes #966
- (https://gitlab.com/sirenia/manatee/-/merge_requests/544)
- Feature: CM rollback dialog
- (https://gitlab.com/sirenia/manatee/-/merge_requests/543)

Issues mentioned

- [#969] Notification.close does not close notification reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/969>)
- [#968] Disconnect bt resolved paths and findable components in Dugong reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/968>)
- [#967] Intercept fails with {window} markers in path reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/967>)
- [#966] Embedded notifications are weird in Cosmic reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/966>)

Changelog for v1.27.109 - v1.27.110

- Feature: Hybrid MSI installer

- (https://gitlab.com/sirenia/manatee/-/merge_requests/547)

Issues mentioned

- [#968] Disconnect bt resolved paths and findable components in Dugong reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/968>)

Changelog for v1.27.110 - v1.27.111

- Fix: Force longs from db to ints to be usable in js-land, fixes #973
- (https://gitlab.com/sirenia/manatee/-/merge_requests/548)

Issues mentioned

- [#973] Db.query might return longs which are not supported in js-land reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/973>)

Changelog for v1.27.111 - v1.27.112

- Fix: Race condition in application controller
- (https://gitlab.com/sirenia/manatee/-/merge_requests/549)

Issues mentioned

Changelog for v1.27.112 - v1.27.113

- Fix: Setting for accessible context via reflection
- (https://gitlab.com/sirenia/manatee/-/merge_requests/556)
- Resolve "Greater time-to-show for right-click menu in v1.27 vs v1.26"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/555)

Issues mentioned

- [#983] Greater time-to-show for right-click menu in v1.27 vs v1.26 reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/983>)

Changelog for v1.27.113 - v1.27.114

- Resolve "Make sure embedded java app produces right click menu"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/553)

Issues mentioned

- [#980] Make sure embedded java app produces right click menu reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/980>)
- [#79] Log from 50.000 repeat reported by @lykke
- (<https://gitlab.com/sirenia/manatee/-/issues/79>)

Changelog for v1.27.114 - v1.27.115

- Fix: Dugong GetComponent perf (1.27)
- (https://gitlab.com/sirenia/manatee/-/merge_requests/557)

Issues mentioned**Changelog for v1.27.115 - v1.27.116**

- Resolve "Intercept deploy does not happen for java apps"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/560)

Issues mentioned

- [#986] Intercept deploy does not happen for java apps reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/986>)
- [#259] Check for updates should block and restart on startup reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/259>)

Changelog for v1.27.116 - v1.27.117

- Make AllFields and AllFlows wait for data from Kwanza, fixes #988
- (https://gitlab.com/sirenia/manatee/-/merge_requests/561)

Issues mentioned

- [#988] Subflow invocation fails immediately after install reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/988>)

Changelog for v1.27.117 - v1.27.118

- ManateeHelper now logs to RollingFile only, fixes #992
- (https://gitlab.com/sirenia/manatee/-/merge_requests/574)
- Route preview of scroll-wheel to ScrollViewer from all UIElements.
- (https://gitlab.com/sirenia/manatee/-/merge_requests/573)
- Fix focusing on an element which occurs after another dependent element
- (https://gitlab.com/sirenia/manatee/-/merge_requests/569)
- Accept field path in "highlight-field" debug websocket
- (https://gitlab.com/sirenia/manatee/-/merge_requests/564)
- Make native driver resolve data compatible with new path editor logic in cuesta
- (https://gitlab.com/sirenia/manatee/-/merge_requests/562)

Issues mentioned

- [#998] Mouse-wheel scroll for input dialogs with overflow doesn't work reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/998>)
- [#993] Focus fails on passing by dependent fields reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/993>)
- [#992] ManateeHelper should write to log files only reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/992>)
- [#991] NPE in ManagedKwanzaApplication reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/991>)
- [#378] Chrome-driver fails to initialize reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/378>)
- [#259] Check for updates should block and restart on startup reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/259>)

Changelog for v1.27.118 - v1.27.119

- Ensure that flow to pop is not null, fixes #1001
- (https://gitlab.com/sirenia/manatee/-/merge_requests/577)

Issues mentioned

- [#1001] Value cannot be null. reported by @lykke
- (<https://gitlab.com/sirenia/manatee/-/issues/1001>)

Changelog for v1.27.119 - v1.27.120

- Resolve "Firefox app rect is no longer accurate"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/580)
- Resolve "Field finder is strange on modal java windows"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/579)
- Bump krom to 1.2.1
- (https://gitlab.com/sirenia/manatee/-/merge_requests/563)

Issues mentioned

- [#1003] Firefox app rect is no longer accurate reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/1003>)
- [#996] Java paths with a window title does not seem to work reported by @spiderdaimi
- (<https://gitlab.com/sirenia/manatee/-/issues/996>)
- [#995] Field finder is strange on modal java windows reported by @spiderdaimi
- (<https://gitlab.com/sirenia/manatee/-/issues/995>)

Changelog for v1.27.120 - v1.27.121

- Task-kill if playing nice (over named pipe) fails, fixes #1005
- (https://gitlab.com/sirenia/manatee/-/merge_requests/582)

Issues mentioned

- [#1005] Too much of a good thing reported by @lykke
- (<https://gitlab.com/sirenia/manatee/-/issues/1005>)
- [#73] ClickOnce installer is broken (with grpc error) reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/73>)

Changelog for v1.27.121 - v1.27.122

- Fix: Dialog focus issues
- (https://gitlab.com/sirenia/manatee/-/merge_requests/585)

Issues mentioned

- [#1007] Dialog without focus set will focus on last focusable field reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/1007>)
- [#73] ClickOnce installer is broken (with grpc error) reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/73>)

Changelog for v1.27.122 - v1.27.123

- Fix merge on Input.Properties to include IsSelected
- (https://gitlab.com/sirenia/manatee/-/merge_requests/589)
- Resolve "Make Settings.Manatee.NNN case insensitive"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/588)
- NotifyPropertyChanged for InputType and fix dependency eval for func input elements
- (https://gitlab.com/sirenia/manatee/-/merge_requests/587)

Issues mentioned

- [#1012] Checkbox state is reset in validation check reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/1012>)
- [#1011] function in inputDialog reported by @lykke
- (<https://gitlab.com/sirenia/manatee/-/issues/1011>)
- [#1010] Make Settings.Manatee.NNN case insensitive reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/1010>)
- [#1006] Type of id is not consistent reported by @spiderdaimi
- (<https://gitlab.com/sirenia/manatee/-/issues/1006>)
- [#977] App Focus on wrong window in Chrome reported by @spiderdaimi
- (<https://gitlab.com/sirenia/manatee/-/issues/977>)

Changelog for v1.27.123 - v1.27.124

- Fix: Add auth for inbound FlowTracer commands (needs a valid user)

- (https://gitlab.com/sirenia/manatee/-/merge_requests/590)

Issues mentioned

- [#1013] Ensure only Cuesta users may run FlowTracer WS commands reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/1013>)

Changelog for v1.27.124 - v1.27.125

- Use configured method for default conflict resolution, fixes #1015
- (https://gitlab.com/sirenia/manatee/-/merge_requests/591)

Issues mentioned

- [#1016] Add "flowFailed" marker to flowStats reported by @spiderdaimi
- (<https://gitlab.com/sirenia/manatee/-/issues/1016>)
- [#1015] Allow the default conflict resolution method for context change conflicts to be configured reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/1015>)

Changelog for v1.27.125 - v1.27.126

- Better handling of missing delim arg and automatically add header for object list
- (https://gitlab.com/sirenia/manatee/-/merge_requests/592)

Issues mentioned

- [#1017] Csv.stringify header missing when given an array of objects reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/1017>)
- [#1016] Add "flowFailed" marker to flowStats reported by @spiderdaimi
- (<https://gitlab.com/sirenia/manatee/-/issues/1016>)

Changelog for v1.27.126 - v1.27.127

- When new options input with a selected value is given for a checkbox, use it.
- (https://gitlab.com/sirenia/manatee/-/merge_requests/599)

Issues mentioned

- [#1028] Use inbound selected value for options input reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/1028>)
- [#87] Starting manatee when it's already started creates a windows crash reported by @lykke
- (<https://gitlab.com/sirenia/manatee/-/issues/87>)

Changelog for v1.27.127 - v1.27.128

- Proper merge for incoming LISTOF changes, fixes #1033
- (https://gitlab.com/sirenia/manatee/-/merge_requests/602)

Issues mentioned

- [#1033] Function-based LISTOF input element resets in re-eval reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/1033>)

Changelog for v1.27.128 - v1.27.129**Issues mentioned**

- [#1034] Initial focus should be set to first field reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/1034>)

Changelog for v1.27.129 - v1.27.130

- Resolve "Keyboard trigger debounce includes too much text"
- (https://gitlab.com/sirenia/manatee/-/merge_requests/603)

Issues mentioned

- [#1035] Keyboard trigger debounce includes too much text reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/1035>)

Changelog for v1.27.130 - v1.27.131

Issues mentioned

- [#1035] Keyboard trigger debounce includes too much text reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/1035>)

Changelog for v1.27.131 - v1.27.132

- Feature/los/1.27/pid to process caching
- (https://gitlab.com/sirenia/manatee/-/merge_requests/609)
- Fix: Fullautocontroller reactive optimizations
- (https://gitlab.com/sirenia/manatee/-/merge_requests/608)
- Add support for passing command options along to ManagedApplication.ResolveFromPath
- (https://gitlab.com/sirenia/manatee/-/merge_requests/607)
- Fix various buggy native driver actions
- (https://gitlab.com/sirenia/manatee/-/merge_requests/606)

Issues mentioned

- [#1045] Expensive calls to GetProcessById should be cached reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/1045>)
- [#1044] Native driver 'resolve' doesn't use field cache reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/1044>)
- [#1042] Native driver action failures reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/1042>)
- [#957] Add some reactivity to FAC reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/957>)

Changelog for v1.27.132 - v1.27.133

- Fix: Structured logging for FAC loop
- (https://gitlab.com/sirenia/manatee/-/merge_requests/610)

Issues mentioned**Changelog for v1.27.133 - v1.27.134**

- Fix NPE related bug in MNA.CanAttach logic causing certain app configurations...
- (https://gitlab.com/sirenia/manatee/-/merge_requests/613)

Issues mentioned

- [#1046] FAC loop seems triggerhappy and a new NPE has been observed reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/1046>)

Changelog for v1.27.134 - v1.27.135

- Fix/los/1.27/1062 ie attach fail
- (https://gitlab.com/sirenia/manatee/-/merge_requests/627)

Issues mentioned

- [#1062] IE driver won't attach until manatee restart reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/1062>)

Changelog for v1.27.135 - v1.27.136

- Wait for initial value when loading service configurations from kwanza
- (https://gitlab.com/sirenia/manatee/-/merge_requests/634)
- Log CurrentCulture at startup
- (https://gitlab.com/sirenia/manatee/-/merge_requests/633)
- Fix ConcatenatedString bugs in MailServiceModule
- (https://gitlab.com/sirenia/manatee/-/merge_requests/632)
- Fix: Catch exceptions in focus-following subscription, fixes #1070
- (https://gitlab.com/sirenia/manatee/-/merge_requests/631)

Issues mentioned

- [#1071] CurrentCulture should be logged during startup reported by @los-sirenia

- (<https://gitlab.com/sirenia/manatee/-/issues/1071>)
- [#1070] Fatal System.InvalidOperationException reported by @spiderdaimi
- (<https://gitlab.com/sirenia/manatee/-/issues/1070>)
- [#1068] To-addresses in mail.send cannot be composed of ConcatenatedStrings reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/1068>)
- [#1067] Services loaded by a flow are null until they are cached reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/1067>)

Changelog for v1.27.136 - v1.27.137

- Fix: Hosted chrome launch url escaping
- (https://gitlab.com/sirenia/manatee/-/merge_requests/640)
- Fix: Make sure .Reset() is called after newed X509Certificate2 has been used, fixes #1080
- (https://gitlab.com/sirenia/manatee/-/merge_requests/638)

Issues mentioned

- [#1080] X509Certificate2 constructor fills up disk reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/1080>)

Changelog for v1.27.137 - v1.27.138

- Feature: Collect texts
- (https://gitlab.com/sirenia/manatee/-/merge_requests/639)

Issues mentioned

Changelog for v1.27.138 - v1.27.139

- Fix: "Focus focus focus" backport of fix #1098
- (https://gitlab.com/sirenia/manatee/-/merge_requests/662)
- Update to more robust white library and fix firefox document finding logic
- (https://gitlab.com/sirenia/manatee/-/merge_requests/658)
- Stop using white for traversing the chrome UI
- (https://gitlab.com/sirenia/manatee/-/merge_requests/655)
- Add support for putting persistant values in the clipboard

- (https://gitlab.com/sirenia/manatee/-/merge_requests/650)
- Fix broken handling of auth errors in flowtracer
- (https://gitlab.com/sirenia/manatee/-/merge_requests/649)
- Fix: Wait a bit before attempting to setup the script interface in hosted IE, fixes #1087
- (https://gitlab.com/sirenia/manatee/-/merge_requests/643)
- Perf: Field image memory woes
- (https://gitlab.com/sirenia/manatee/-/merge_requests/642)
- Add TLS 1.2 support and better error messages, fixes #1086
- (https://gitlab.com/sirenia/manatee/-/merge_requests/641)

Issues mentioned

- [#1114] Include %JAVA_HOME% in list of Env.JavaHomes reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/1114>)
- [#1106] An open firefox window upsets TestStack.White reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/1106>)
- [#1101] Cannot find chrome app rectangle for field finding reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/1101>)
- [#1098] Fickle focus on application startup reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/1098>)
- [#1096] Add 'persist' flag to Clipboard.set reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/1096>)
- [#1087] HostedIE fails to attach to OnBase reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/1087>)
- [#1086] Support TLS 1.2 in the Http module reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/1086>)
- [#426] Inspect (for native) should have an option to include children reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/426>)

Changelog for v1.27.139 - v1.27.140

- Catch exception when attempting to treat explorer windows as IE windows
- (https://gitlab.com/sirenia/manatee/-/merge_requests/665)
- Fix: Ensure resolved arguments are all url-encoded to fix #1117
- (https://gitlab.com/sirenia/manatee/-/merge_requests/664)

Issues mentioned

- [#1117] Ensure all resolved arguments for browsers are url-encoded reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/1117>)
- [#1116] Failure to connect to hosted IE due to COM error reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/1116>)

Changelog for v1.27.140 - v1.27.141

- Add dugong for java 6 apps along with a new setting to disregard specific java versions
- (https://gitlab.com/sirenia/manatee/-/merge_requests/670)
- Feature: Application notifications
- (https://gitlab.com/sirenia/manatee/-/merge_requests/669)
- Include %JAVA_HOME% in search-paths for Java, fixes #1114
- (https://gitlab.com/sirenia/manatee/-/merge_requests/663)

Issues mentioned

- [#1115] Include dugong for java 1.6 reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/1115>)
- [#1114] Include %JAVA_HOME% in list of Env.JavaHomes reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/1114>)

Changelog for v1.27.141 - v1.27.142

- Fix: Chrome window handles on new window
- (https://gitlab.com/sirenia/manatee/-/merge_requests/678)
- Handle another 'Invalid handle' exception to get tests running again
- (https://gitlab.com/sirenia/manatee/-/merge_requests/675)

Issues mentioned

- [#1123] Fix failing tests on Azure CI reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/1123>)

Changelog for v1.27.142 - v1.27.143

- lock the ContextItems when iterating, fixes #1136
- (https://gitlab.com/sirenia/manatee/-/merge_requests/688)
- Fix: Force kill on pipeofdeath timeout (v1.27)
- (https://gitlab.com/sirenia/manatee/-/merge_requests/687)
- Translate window coordinates from optical field recognition into document coordinates
- (https://gitlab.com/sirenia/manatee/-/merge_requests/682)
- Add robustness to the document rectangle finding logic of chrome and firefox
- (https://gitlab.com/sirenia/manatee/-/merge_requests/679)

Issues mentioned

- [#1136] Concurrent modification error in ManagedReferenceApplication reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/1136>)
- [#1125] Field finding in chrome/firefox still fails for some users reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/1125>)
- [#1031] Optical field locating finds the wrong things in browsers reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/1031>)

Changelog for v1.27.143 - v1.27.144

- Feature: Deadlines for process launch and attach
- (https://gitlab.com/sirenia/manatee/-/merge_requests/698)
- Html.loadFrom with a remote url
- (https://gitlab.com/sirenia/manatee/-/merge_requests/696)
- Allow headless applications to participate in change-detection, fixes #1144
- (https://gitlab.com/sirenia/manatee/-/merge_requests/694)
- 1.27 chrome offset fix
- (https://gitlab.com/sirenia/manatee/-/merge_requests/692)

Issues mentioned

- [#1144] Allow headless apps to participant in context transactions reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/1144>)
- [#1143] Chrome document offsetting fails reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/1143>)

Changelog for v1.27.144 - v1.27.145

- Fix: Proxy application depends on show warning setting
- (https://gitlab.com/sirenia/manatee/-/merge_requests/701)
- Feature: WMI approach to process name (commandline)
- (https://gitlab.com/sirenia/manatee/-/merge_requests/700)

Issues mentioned**Changelog for v1.27.145 - v1.27.146**

- Feature: Cache group name resolution
- (https://gitlab.com/sirenia/manatee/-/merge_requests/714)

Issues mentioned**Changelog for v1.27.146 - v1.27.147**

- Fix bug preventing some flows from being started from a sticky
- (https://gitlab.com/sirenia/manatee/-/merge_requests/725)
- Feature: (1.27) Process taskkill
- (https://gitlab.com/sirenia/manatee/-/merge_requests/724)

Issues mentioned

- [#1198] NPE when launching flows without arguments (eg from sticky action item) reported by @los-sirenia
- (<https://gitlab.com/sirenia/manatee/-/issues/1198>)
- [#1196] Easier access to taskkill reported by @jonathan
- (<https://gitlab.com/sirenia/manatee/-/issues/1196>)