

REDCap Flex Upgrade Changelog – September 23, 2025

Version 15.0.28 LTS to 15.5.14 LTS

Version 15.5.14

- Bug fix: Explanatory text for the new "External Modules API" user privilege was mistakenly not added on the User Rights page in an earlier version when the feature was officially released. That explanatory text has now been added to the page in the Edit User dialog to inform users about what it is and how it is utilized.
- Bug fix: If a user is performing a data import using a CSV file, in which the file's CSV delimiter is not a tab, and a tab character exists somewhere in the first line of the CSV file (which is not expected), the import process would fail with an error stating that the record ID field values could not be found in the file.
- Bug fix: If the current REDCap installation is using the auto-incremented Primary Key feature (for clustering or replication purposes), a warning would mistakenly not be displayed in the Control Center or on the Configuration Check page about the table structure being incorrect after new database tables were added via upgrading REDCap. When new database tables are added after an upgrade, the Primary Key field will often need to be added to those new tables. Certain features and functionality might not work properly in REDCap if some newer tables are missing the auto-incremented Primary Key column while other database tables have the PK column. To prevent this scenario, the SQL for adding the auto-incremented Primary Key column will now be included in the "Database Structure is Incorrect" warning (and thus in the Auto-Fix SQL script) in order to keep everything in sync if the Primary Key feature is already being used for some tables in the installation.
- Bug fix: If using one of the Missing Data Code special functions (e.g., isblankormissingcode) in a calculation, it might not return the expected result if a space exists between the function name and the first/opening parenthesis. (Ticket #263419)
- Bug fix: In particular situations when using Clinical Data Pull in CDIS, admins in CDP projects were mistakenly blocked from seeing the CDP dashboard and the Token Priority Rules panel. This fix corrects how admin status and feature settings are recognized so that legitimate admins gain access when the features are enabled, without altering non-admin visibility, even when an admin is impersonating a user in the project.
- Bug fix: In some edge cases when using Draft Preview Mode, the data entry form might mistakenly crash with a fatal PHP error.
- Bug fix: In some situations when the REDCap installation contains auto-incremented Primary Keys in its database tables, a user might not be able to enter Draft Mode in their production project because the Online Designer page would just reload with nothing occurring after clicking the "Enter Draft Mode" button. (Ticket #261202)
- Bug fix: Logged events related to Field Comments or to data queries created via the Data Resolution Workflow would mistakenly not get deleted when performing the "Erase all data" action or when moving the project to production while deleting all records. (Ticket #263023)

- Bug fix: REDCap was supposed to have supported the "rt" and "rp" HTML tags at the same time that the "ruby" tag was introduced back in REDCap 15.5.6, but those tags were mistakenly not added, in which they are essential to the use of the "ruby" tag. Because of that mistake, support has been added for the "rt" and "rp" tags so that they may be utilized in user input (e.g., field labels, survey instructions). (Ticket #263121)
- Bug fix: The "Edit User" dialog on the User Rights page might have incorrect language if the E-signature feature has been disabled at the system level.
- Bug fix: When a user is performing a data import of a value into a text field, in which the field was previously a multiple choice field but was later changed to a text field, but the previous multiple choice codings are somehow still present in the Choices/Enum column for that field in the backend metadata database table (which should technically not happen), the data import would mistakenly fail with the message "The value is not a valid category for X".
- Bug fix: When a user is renaming an instrument's unique form name on the Online Designer, if the instrument has been enabled as a survey and there is an orphaned row in the redcap_surveys database table whose "form_name" matches the name of the new form name being submitted by the user, a query would fail, thus preventing the instrument renaming process to fail. (Ticket #261786)
- Bug fix: When using Twilio or Mosio, REDCap would fail to send SMS messages to U.S. phone numbers with certain newer area codes, specifically 235, 279, 324, 329, 350, 353, 363, 364, 436, 448, 472, 531, 572, 582, 624, 640, 645, 680, 686, 726, 728, 743, 771, 820, 826, 838 840, 861, 930, 938, 943, 945, 948, 983.

Version 15.5.13

- Major bug fix: When the Bulk Record Delete page is being used to perform partial record deletion on a record that is locked at the record level, the selected forms would mistakenly have their data deleted within the locked record. Locked records should not be editable in any way.
- Bug fix: In repeating instrument tables displayed on the Record Home Page and other places, in which more than 10 instances exist for a given instrument, thus displaying the filter input and icon status filter in the table, the survey response icons would mistakenly be displayed a clickable filters in the table even if surveys are not enabled in the project. Those should not be displayed there unless surveys are enabled in the project. (Ticket #262928)
- Bug fix: On the Email Users page in the Control Center, the filters "does not contain", "does not end with", and "is null" might mistakenly not include correct matches for "User Email". (Ticket #262235)
- Bug fix: The "pause recurrence" checkbox state for Alerts was not properly updated in all cases when editing an alert.
- Bug fix: The Notification Log for Alerts & Notifications might crash with a PHP error depending on a user's date format preference. (Ticket #262695)
- Bug fix: When a calc or CALCTEXT field exists on a repeating instrument, in which the calculation is set to always result in a non-blank value, if a user deletes the data for the whole form or if a user performs a data import to import repeating instances for the field but does not explicitly import instance 1, an empty instance 1 would mistakenly be automatically added if it did not already exist. This bug was only partially fixed in REDCap 15.0.35 LTS and 15.5.5 Standard. (Ticket #262597)

- Bug fix: When a participant is taking an adaptive or auto-scoring survey that was imported from the REDCap Shared Library, in which the survey setting "Allow participants to skip questions?" is set to "Yes", the confirmation dialog displayed to the participant when they attempt to skip the question would mistakenly not display the correct text for the "Skip question" and "Go back and enter value" buttons.
- Bug fix: When logic is being evaluated (excluding calculations) in which the logic is comparing two field values using the <> operator (e.g., [field1] <> [field2]), the logic should evaluate as False when both fields have blank/null values. However, in that case, they would mistakenly return True. This might cause some specific logic not to evaluate correctly and might return false positives for Data Quality rules. Bug emerged in REDCap 15.0.30 LTS and 15.5.0 Standard. (Ticket #262511)
- Bug fix: When sending invitations via "Compose Survey Invitations" (Participant List), the "[Reminder]" prefix in the email subject was mistakenly not replaced with MLM base language overrides. (Ticket #132868)
- Bug fix: When the Bulk Record Delete page is being used in a longitudinal project, in which a user chooses to delete data on an instrument that exists on a repeating event, the process would mistakenly crash with a fatal PHP error. (Ticket #260924)
- Bug fix: When the Bulk Record Delete page is being used to perform partial record deletion, in some cases when clicking "Select records from a list" in Step 2 after selecting specific forms/events in Step 1, the selections in Step 1 might mistakenly end up being deselected. (Ticket #260924)
- Bug fix: When using CDIS, the EHR launch workflow might be severely slowed down by a database query that was not optimized.
- Bug fix: When using Multi-Language Management, the User Interface overrides that were set for the base language were mistakenly not displayed any longer. UI text should still override the base language (i.e., what is set in the Language.ini file for the project language set on the "Edit Project Settings" page). Bug emerged in REDCap 15.5.9 LTS and 15.6.0 Standard. (Ticket #262684)
- Bug fix: When using MyCap, the auto-generated message "#REJOINED PROJECT" received from MyCap participants was mistakenly not getting translated as "Rejoined a Project" for users on the MyCap participant message list and in the message history popup.
- Bug fix: When using SMTP for sending emails from REDCap (i.e., not using a third-party transactional email service), in which an outgoing email from REDCap contains a plus sign (e.g., rob+survey2025@gmail.com) in the email's From address, the message might not bounce back correctly to the sender if it bounces. To prevent this issue, the plus sign and any text between the plus sign and the @ sign will be automatically removed when setting the outgoing email's Sender (i.e., Return-Path). (Ticket #262641)

Version 15.5.12

- Bug fix: If a custom Data Quality rule has logic that contains only a single smart variable and no field variables, the rule might mistakenly not return any results.
- Bug fix: If importing data into a project in "columns" format, the import process might fail with a fatal PHP error if the import file contains only the record ID field. (Ticket #262045)

- Bug fix: In some edge cases when exporting a project's randomization allocation file, the process might fail with a fatal PHP error. (Ticket #262046)
- Bug fix: On the Record Home Page or Record Status Dashboard when clicking a form status "stack" icon (representing a repeating instrument that contains more than one instance of the instrument) for a given record, the user might not be able to navigate into the repeating instrument if the record's record name contains a double quote.
- Bug fix: Reports would not get copied correctly when pk_id columns are present in the REDCap database tables. (Ticket #261793)
- Bug fix: The "text-to-speech" functionality in survey would mistakenly not work for texts larger than 300 characters. (Ticket #262116)
- Bug fix: When an administrator is using the "View project as user" feature, in which the user they are impersonating has expired access to the current project, the admin would not be able to view or access the instruments to which the user should have access for any given record. (Ticket #261919)
- Bug fix: When using the "View project as user" admin feature to export data for a report, the export process would mistakenly not respect the impersonated user's data export rights but would behave as if the admin were exporting data as themselves. (Ticket #262025)
- Bug fix: When utilizing randomization that is set to automatically trigger based on conditional logic, the "Randomize record" logged event for all randomized records in the project would mistakenly not get deleted when performing the "Erase all data" action while in development or when moving the project to production while deleting all records. (Ticket #262408)

Version 15.5.11(released on 2025-08-22)

- Critical bug fix: The previous LTS version (15.5.10) was mistakenly not released correctly and was actually identical to 15.0.38. If you already upgraded to 15.5.10 from any version of 15.0.X, we recommend you run the SQL query "UPDATE redcap_config SET value = '15.0.XX' WHERE field_name = 'redcap_version';" on your database server (changing 15.0.XX to the version you upgraded from), and then perform the upgrade to 15.5.11. NOTE: This issue only affects v15.5.10.
- Version 15.5.10(released on 2025-08-21)
- Major bug fix: Due to an issue with internal data caching during the evaluation of REDCap logic, in certain rare occurrences some Alerts and ASIs might mistakenly not get triggered as expected when submitting a form or survey page. Bug emerged in REDCap 15.0.35 LTS and 15.5.5 Standard. (Ticket #261661)
- Major bug fix: If data is being imported using the background import process, whether via API or on the Data Import Tool page, some of the data might quietly not get imported (with no error) if the data being imported is not grouped by record but instead the records are out of order in the data file (i.e., if importing multiple rows of data for a given record). (Ticket #261701)
- Bug fix/change: If MySQL 8.4.0 or higher is being used and the MySQL setting "restrict_fk_on_non_standard_key" is set to ON, which is the default value for MySQL 8.4.0+, the Configuration Check page will now recommend that the setting be set to OFF for compatibility purposes. Some things might not function correctly in REDCap if that setting is left as ON. This does not affect MariaDB and does not affect any MySQL versions prior to 8.4.0.

- Bug fix: If CDIS, specifically CDP, is enabled in a project, certain pages that utilize features of CDP, such as the Record Status Dashboard, might mistakenly fail to load and result in a white screen for some users. This is dependent on specific PHP versions or configurations.
- Bug fix: If a report contains no valid/currently-existing fields, the report would mistakenly display all the fields in the project. If this happens going forward, as a fallback, it will instead only display the record ID field in the report. (Ticket #261700)
- Bug fix: If utilizing randomization in a project that has Data Access Groups and is also using Missing Data Codes, the randomization dialog would mistakenly list the Missing Data Codes as choices in the DAG drop-down field in the dialog. (Ticket #261846)
- Bug fix: The Smart Variables documentation was mistakenly listing Smart Variables related to the "Rewards" feature, which is not a feature that has been released yet in REDCap.
- Bug fix: Users could mistakenly perform the CDP adjudication data fetch process when a project is in Analysis/Cleanup status. (Ticket #260920)
- Bug fix: Users with a large amount of unread System Notifications or General Notifications in REDCap Messenger might experience every page in REDCap to be somewhat slower than expected.
- Bug fix: When copying a project that utilizes user roles, in which the users of the project are being copied but the roles are not being copied, any users in the resulting new project that were previously in a role would mistakenly not end up with the rights of their role from the original project. (Ticket #261784)
- Bug fix: When piping form status fields on a form or survey page, they might not pipe as a blank/"" value even when they have no value (i.e., when the form has a gray status icon).
- Bug fix: When the filter logic for a report or a Custom Record Status Dashboard references form status fields as having a blank/"" value (e.g., [form1_complete] = ""), the dashboard/report might mistakenly not return the correct filtered results. (Ticket #259042b)
- Bug fix: When using the "Import Records" API method or REDCap::saveData() to import data in EAV format, in which the project is not longitudinal but the data payload includes the column "redcap_event_name" with a blank value, which is typically fine because it is ignored, the values of the fields being imported might mistakenly not get saved during the import process and the logging might not be correct, especially if the field values being imported are blank/"" and the API parameter "overwriteBehavior" is set to "overwrite". (Ticket #261232)

Version 15.5.9(released on 2025-08-14)

- Medium security fix: A Stored XSS (Cross-site Scripting) vulnerability was discovered on the Descriptive Popups page when adding/edit a descriptive popup, in which a malicious user could potentially exploit it by inserting custom HTML and JavaScript in a specially crafted way into the link text of a descriptive popup. This vulnerability can only be exploited by authenticated users that have Project Design/Setup privileges. Bug exists in REDCap 14.8.0 and higher.
- Major bug fix: Importing of CSV files with data from more than one repeating form would mistakenly fail to import. (Ticket #260874)
- Bug fix: A cookie that is used only during REDCap's authentication process (i.e., the cookie does not persist after the login has occurred) was mistakenly not getting the normal cookie attributes that are received by all other cookies in the application.

- Bug fix: A warning popup would appear saying "Language not supported for MyCap app" for all language codes on the MLM setup page in MyCap-enabled projects.
- Bug fix: Gracefully handle the situation when the REDCap Base URL is lacking a protocol (http/https). (Ticket #259889, #261035, #256588)
- Bug fix: In longitudinal MyCap-enabled projects, the Baseline Date field would mistakenly not be displayed for any participants in the MyCap Participant List.
- Bug fix: In some edge cases when using LDAP authentication, REDCap would not be able to communicate successfully with the LDAP server. (Ticket #261275)
- Bug fix: MyCap participants would mistakenly still be able to join a project and complete tasks in their MyCap app even if MyCap is disabled in the project, if the project has been deleted (within the 30-day grace period), or if the project is marked as "Complete".
- Bug fix: Some PDF downloads and PDF Snapshots of e-Consent survey responses would mistakenly display the text "Type:" before the "Custom tag/category" text in the PDF's footer. It should not say "Type" in the footer as that was a legacy feature called "Type" custom text in the e-Consent Framework that was replaced with the "Custom tag/category" text. (Ticket #260831)
- Bug fix: Some browsers might report a console error due to a JavaScript Map file missing. (Ticket #261117)
- Bug fix: Some of the language on various project pages was mistakenly not translatable via an INI language file. (Ticket #252409b)
- Bug fix: The PDF export of an instrument with data would fail with a fatal PHP error if a slider field on the instrument has its min and max set to the same value. (Ticket #261413)
- Bug fix: The QuickEdit dialog in the Online Designer mistakenly allowed matrix fields to be moved outside of the matrix group, leading to unpredictable/unwanted side effects. (Ticket #260880)
- Bug fix: The link to the "URL Shortener" page on the Control Center's left-hand menu was mistakenly governed by the "URL shortening service" setting on the Modules/Services Configuration page. That setting was only meant to govern the use of the service within projects, and thus it should not apply to the Control Center's URL Shortener page, which should always be visible and available to administrators. (Ticket #261457)
- Bug fix: The project purpose filter on the Email Users page might not work as expected. (Ticket #260816)
- Bug fix: Updated some text in the "Allow participants to download a PDF of their responses at end of survey?" section of the Survey Settings page because the text was incorrect/misleading.
- Bug fix: Users would be unable to save the MyCap setting "Additional Setting: Custom Event Label" as anything other than a "None" value for longitudinal projects.
- Bug fix: When a survey invitation is scheduled via an ASI in a longitudinal project, and then before the invitation is sent, the survey instrument is undesignated for that specific event (thus nullifying the ASI), the scheduled invitation would mistakenly still get sent to the participant at its scheduled time. (Ticket #261418)
- Bug fix: When calculated fields from the same form are piped into dropdown choices, an infinite loop of server requests could happen that could lead to the user being banned. (Ticket #260699)
- Bug fix: When performing a synchronous data import with the Data Import Tool, a JavaScript error was shown in the browser console (but the import still worked).

- Bug fix: When randomization is being used in a project and an administrator uses the Auto-fill feature on a form or survey where the randomization field is located, the Auto-fill process would mistakenly give the randomization field a value, which could mess up the randomization allocation process for the record. (Ticket #261345)
- Bug fix: When the MLM base language is set after some translations or overrides were already added, these mistakenly (and very confusingly) would show up on data entry and survey pages. (Ticket #260994)
- Bug fix: When using Double Data Entry in a project, if the current user is DDE person 1 or 2, clicking on some form status icons on the Record Status Dashboard or Record Home Page would not lead to the expected record but instead would take the user to the Record Home Page and say that a new record is being created. (Ticket #260384)
- Bug fix: When using an inline consent form for the e-Consent framework, if the Descriptive field where the consent form is displayed has text containing angle brackets (< or >), there is a chance that it may cause the text to be mangled or truncated when output to the REDCap-generated PDF, whether a PDF download or PDF Snapshot. (Ticket #261124)
- Bug fix: When using the Bulk Record Delete feature to perform partial deletions of a record (i.e., specific forms) in a multi-arm longitudinal project, the logging page would mistakenly not list the correct arm/event for the deletion event if the deletion is being performed on an arm other than the first arm.
- Bug fix: When using the Data Resolution Workflow and creating data queries on the Data Quality page for calc/CALCTEXT fields after running Rule H, if the user clicked the "Fix calcs now" button in the dialog, it would mistakenly not exclude fields that have a data query with "Closed" or "Verified" status. (Ticket #259773)

Version 15.5.8(released on 2025-08-01)

- Major bug fix: Data Quality rule H and auto-calculations (i.e, calcs performed via data imports) might mistakenly not perform calculations for calc/CALCTEXT fields in longitudinal projects unless the fields exist on a repeating instrument or repeating event.
- Bug fix: If any HTML tags are entered into a calendar event's Notes field on the Calendar page, reopening the calendar event for editing would cause all HTML tags in the Notes text to be stripped out when re-displaying the text in the calendar popup.

Version 15.5.6(released on 2025-07-31)

- Improvement: REDCap now supports the "ruby" HTML tag so that it may be utilized in user input (e.g., field labels, survey instructions).
- Major bug fix: Any surveys that are Adaptive or Auto-scoring assessments that have been downloaded from the REDCap Shared Library would load initially but could not have any responses saved. If the participant clicked the Save/Next Page button on the survey, the progress icon would spin forever, and the response would not be saved. Bug emerged in the previous version.

- Major bug fix: If using Descriptive Popups on a survey or form, the content of the popup would mistakenly be displayed as always visible on the page immediately after the link text.
- Change: In a MyCap-enabled project, if the baseline date setting is set and then a user edits the variable name of the baseline date field or changes its field validation to a non-date/datetime validation, it will now display an error to the user regarding this issue in the MyCap errors popup in the Online Designer.
- Bug fix/change: If a user is importing data (via API, Data Import Tool, REDCap::saveData) for a form status field, in which the field's stored value is blank/null and the value being imported is also blank/null, the import process would mistakenly leave the form status field with a blank value, which could be confusing if other fields on the form have data because it would cause the form to have a red status icon but no actual value for the form status field. To prevent this situation going forward, the form status field's value will always default to "0" in the case that its imported value is blank and its current stored value is also blank. Additionally, if the form status field is not even included in the data import file and the form status field has no stored value in the project yet, the form status field's value will be saved with a default "0" value if any field values are being modified during the import process for that form (excluding calc fields). (Ticket #260194)
- Bug fix: If the setting "Automatically display inline PDF attachments for Descriptive Text fields inside a resulting PDF download of an instrument/survey?" is Disabled on the "Modules/Services Configuration" page in the Control Center, the Configuration Check page will not check whether the iMagick PHP extension is installed on the web server. (Ticket #260520)
- Bug fix: On the MyCap Configuration Check page, if the testEndpoint API call is returned as "OK" (HTTP Status code 200) but it does not receive a valid/correct JSON payload (this is specific to some servers), the testEndpoint API call will be noted as having failed so that it does not continue to execute the secondary tests on the page.
- Bug fix: The process of uploading an allocation table CSV file on the Randomization page was unnecessarily slow for larger sized allocation tables. (Ticket #260453)
- Bug fix: When a calc or CALCTEXT field exists on a repeating instrument, in which the calculation is set to always result in a non-blank value, if a user performs a data import to import repeating instances for the field but does not explicitly import instance #1, an empty instance #1 would mistakenly be automatically added during the import process if it did not already exist. (Ticket #260321)
- Bug fix: When copying a MyCap-enabled longitudinal project, the process would mistakenly copy inactive MyCap task schedules to the new project when only active task schedules should get copied.
- Bug fix: When selecting the Record ID field as a Live Filter on a report in certain types of projects, the report might not always return the record that was selected from the Live Filter drop-down.
- Bug fix: When using the Bulk Record Delete page in longitudinal projects that have multiple arms, if the "Delete entire records" option is selected, the page would mistakenly not display a drop-down to select a specific arm but would instead only allow you to delete records from the first arm. Thus, it was not possible to delete records on any arms except the first arm.

- Improvement/change: Updated the Font Awesome library from v6.7.2 to v7.0.0.
- Major bug fix: The cron job named "ProcessScheduledRewardOrders" might mistakenly crash repeatedly. Bug emerged in the previous version. (Ticket #259793)
- Change/improvement: For the repeating instrument tables displayed at the bottom of the Record Home Page, any status filters (but not keyword search) that are set for a repeating table will now persist for the user (remembered at the user-level) if they leave the page and then return later. Note: The filter state only persists for the tables at the bottom of the Record Home Page but not for the floating/popup tables that appear in various places (e.g., Record Status Dashboard, left-hand form menu) when clicking the stack status icon of a repeating instrument.
- Change/improvement: If the "Record Limit for Development Projects" feature has been enabled at the system level, REDCap administrators will now be able to bypass the limit when copying a project and its data when the project contains more records than the limit, and additionally it will allow admins to bypass the limit when creating a new project from a Project XML file that contains more records than the limit. In previous versions, a new project could not be created by anyone, not even admins, in these two situations. (Ticket #260011)
- Change/improvement: Some performance improvements when evaluating logic for the same record repeatedly during a given request.
- Change/improvement: The MyCap Participant List page has been optimized for improved performance, so it should load much faster now, especially for projects with lots of records.
- Bug fix/change: For MyCap-enabled projects, the researchKit documentation URLs were replaced with the new PDF documentation URLs that are located on projectredcap.org, and the individual Active Task help links were removed because those URLs are not needed now due to this change.
- Bug fix: If a form status field is used in a calc/CALCTEXT field or in branching logic on the same form where the form status field exists, changing the value of the form status field would mistakenly not trigger in real time the calcs/branching that reference it. Bug emerged in REDCap 15.0.30 LTS and 15.5.0 Standard. (Ticket #259985)
- Bug fix: If a survey is set so that the Submit buttons will always be hidden, there might be ways of triggering the survey submission using JavaScript or other means. This will now be prevented so that no survey submissions are possible. (Ticket #217159b)
- Bug fix: If the [scatter-plot] smart variable is used with two or three fields as parameters, the x-axis field label would mistakenly not be displayed in the smart chart.
- Bug fix: In longitudinal projects that contain a very large amount of events (e.g., >1000), the processing of certain logic, including calculated fields, could get overloaded and lead to calculation errors or logic errors on a data entry form or survey page.
- Bug fix: In some cases, when alerts that are scheduled to be sent in the past from when they are actually triggered, the Alerts & Notification log page would crash with a fatal PHP error. (Ticket #260241)
- Bug fix: Randomization might mistakenly fail and result in an inconsistent state if one of the strata field values is in violation of a custom data quality rule that has real-time execution enabled. (Ticket #260238)
- Bug fix: SJIS-encoded CSV data would mistakenly fail to import properly into a project and would result in the data being mangled and non-readable in the project. (Ticket #255158)

- Bug fix: Some baseline date issues exist for MyCap-enabled projects. Each time the MyCap instruction steps are saved (without any changes) from an additional setting popup, it would enable the "Publish" button. When the baseline date field is updated, there is no need to publish changes, thus there is no need to ask for confirmation upon saving.
- Bug fix: Some text was missing from the instructions on the CDISC ODM tab of the Data Import Tool page.
- Bug fix: The "Fix Issues" button still appears in the Online Designer for MyCap-enabled projects if Battery instruments are added (and not enabled for MyCap).
- Bug fix: The REDCap upgrade process might halt or display a warning when executing the Upgrade SQL script if the database server is on certain specific older versions of MariaDB/MySQL. Bug emerged in the previous version. (Ticket #260070)
- Bug fix: When a calc or CALCTEXT field exists on a repeating instrument and the calculation is set to always return a non-blank value, in which the first repeating instance for that repeating instrument is being deleted via data entry form when no other repeating instances exist for that instrument, that first instance might suddenly get recreated during the process of deleting it. Thus, the first instance is never able to be deleted. (Ticket #257203)
- Bug fix: When a user chooses to erase all data in a development project or moves the project to production while deleting all data, any "Lock/Unlock Record" events on the project logging page would fail to be removed during this process. (Ticket #259787)
- Bug fix: When a user is suspended but attempts to log in to REDCap, the system would mistakenly set the user's "last login time" during the attempt, which could be confusing to an administrator looking at their account details since they are suspended. This only occurs for certain authentication methods. Going forward, it will set a user's "last login time" during a login attempt only if they are not suspended. (Ticket #260052)
- Bug fix: When editing a report, the Quick Set feature for fields would mistakenly ignore checkbox field names when pasted in the "checkbox__field__code" notation and it did not give proper visual feedback when a long operation (i.e., adding lots of fields) was in process.
- Bug fix: When using "LDAP" or "LDAP & Table-based" authentication, some previously working LDAP configurations would no longer work successfully anymore without modifications to the ldap_config.php file. Bug emerged in REDCap 15.2.1. (Ticket #251495, #254589, #259966)
- Bug fix: When using CDIS, the CDIS Mapping Helper tool might occasionally crash due to missing data. (Ticket #259746)
- Bug fix: When using certain outgoing email services (e.g., SendGrid), any email sent from REDCap that contains an email address that is duplicated in the To field would fail to send.
- Bug fix: When using quotes in the new Custom CSS feature (e.g., in attribute selectors), these were mistakenly rendered as HTML entities, causing the affected CSS rule to not work as expected.
- Version 15.5.4(released on 2025-07-17)
- Bug fix: Much of the text displayed for the locking/unlocking process on a data entry form was mistakenly not abstracted and thus could not be translated using language INI files or using Multi-Language Management. (Ticket #259567)
- Bug fix: Some JavaScript functions used for piping were not optimized well and could cause the piping process to possibly be slow in some cases. (Ticket #259064b)

- Bug fix: When a MyCap participant joins/deletes/rejoins a project in the MyCap app, some messages would mistakenly get sent for that participant as if they were automated messages.
- Bug fix: When an administrator is changing settings on the Edit Project Settings page for a given project, the resulting logged event of the changes (which is only accessible on the User Activity Log page in the Control Center) would mistakenly not note the PID of the project whose settings were modified, thus making it difficult to determine to what project the logged event belonged.
- Bug fix: When navigating to the Online Designer in a MyCap-enabled project that contains many records (e.g., several thousand or more), the Online Designer page might take an unnecessarily long time to load.
- Bug fix: When using the Copy Project page and checking the checkbox to copy all records, if any stored data in the project would fail various field validation checks, then the project would be copied successfully but the data would not. Also, no error would occur when this happened. Bug emerged in REDCap 15.5.1 Standard. (Ticket #259472)
- Bug fix: When viewing the Data History popup of a File Upload field on a data entry form, in which a previous version of the file has been deleted, the "Information/Action" column in the dialog would note the time of the file's deletion but would mistakenly omit the username of the user who deleted it.
- Change: Small text changes for a MyCap-related warning in the ASI dialog in the Online Designer.
- Change: Small text changes for a MyCap-related warning on the MLM setup page.

Version 15.5.3(released on 2025-07-14)

- Major security fix: A Stored XSS (Cross-site Scripting) vulnerability was discovered on data entry forms and survey pages, in which a malicious user could potentially exploit it by inserting custom HTML and JavaScript in a specially crafted way into the URL. This vulnerability can be exploited by authenticated users and also by survey participants entering data. Bug exists in all REDCap versions.
- Major bug fix: The Copy Project page might mistakenly not allow copying a project and all its records in certain cases, even if the system-level setting for "Record limit for development projects" is not enabled. This was partly fixed in the previous version because it appeared on the page that records could be copied, but when attempted by a user, the records would actually not get copied. (Ticket #259462)
- Bug fix: When creating reports that use a form status field as a report filter, the "simple logic (choose fields from list)" user interface in Step 3 would mistakenly not provide a "blank" value option as a choice in the drop-down for the form status field.

Version 15.5.2(released on 2025-07-13)

- Critical security fix: A Remote Code Execution vulnerability was found in which a malicious user who is logged in could potentially exploit it by manipulating any REDCap logic that is saved via specific REDCap endpoints or is stored in a project (e.g., calculations, branching logic, data quality rule logic, report filter logic). Note: Only authenticated users are able to exploit this. This vulnerability exists in all versions of REDCap.
- Major security fix: An SQL Injection vulnerability was found in the AI feature "Summarize free-form text data on reports", in which a malicious user could potentially exploit it and execute

arbitrary SQL commands on the database by manipulating an HTTP request in a specially-crafted way. This can only be exploited by authenticated users and only if this specific AI feature has been enabled in the system. Bug exists in REDCap versions 15.0.0 and higher.

- Medium security fix: A Reflected XSS (Cross-site Scripting) vulnerability was discovered on the Control Center CDIS setup page, in which a malicious user could potentially exploit it by inserting custom HTML and JavaScript in a specially crafted way into a POST request. This can be exploited only by REDCap administrators that are currently logged in. Bug exists in REDCap versions 14.1.0 and higher.
- Various bug fixes and improvements for the External Module Framework, including new API endpoints for External Modules. Please see the EM Framework documentation for more info.
- Bug fix: The Copy Project page might mistakenly prevent users from copying a project and all its records in certain cases, even if the system-level setting for "Record limit for development projects" is not enabled. (Ticket #259433)
- Bug fix: When uploading a Project XML file to create a new project that contains repeating instruments, in some rare cases the process might mistakenly stop and result in an error saying "ERROR: Trying to import repeat instance/instrument fields", which is confusing.

Version 15.5.1(released on 2025-07-10)

- Improvement/change: When creating a new project that initially contains one or more records, whether the project is created using the Copy Project page or by uploading a Project XML (metadata+data) file, the new project will have the data values for all initial records appropriately logged on the Logging page. This will help with transparency regarding when a data value was entered (e.g., when viewing the Data History popup) if a record was added during the project creation process. In previous versions, the logging of initial records in the project was not performed for various intentional reasons. (Ticket #258165)
- Improvement: In connection with the new "Quick Set" feature used when adding fields to a report, a new link exists next to that button to allow users to copy the field names of all current fields in the report to the user's clipboard.
- Improvement: MLM manuals (PDF) for admins and end users are now included for download in REDCap.
- Improvement: The Form Display Logic setup dialog now contains a new option for MyCap-enabled projects: "Enable support for MyCap App". Checking this checkbox will cause all FDL conditions to be applied in the MyCap app. This is a good way to use conditional logic to disable specific MyCap tasks in the app for MyCap participants.
- Security improvement: REDCap now sets a Content Security Policy (CSP) header to meet minimum security requirements while still being flexible with regard to not breaking External Modules and legacy code in REDCap's codebase. Note: If a CSP header has already been set by the web server, then REDCap will not override that header as a means of allowing an institution to provide a more strict CSP header (if they desire) to meet higher security requirements.
- Change/Improvement: Improved data handling was added for CDP and Custom DDP projects for more efficiency.

- Change: The wording for the "Language preference field" on the Multi-Language Management setup page has been updated to better reflect its function.
- Change: When the AI translation feature is used for MLM, the prompt supplied to the AI service now includes the language ID of the target language in addition to the language's display name (e.g., a language set up as es-AR, Spanish, will result in "Translate to Spanish (es-AR) ...").
- Bug fix: For the new "Record Limit" setting at the bottom of the Edit Project Settings page, it mistakenly said "0=No Limit", which is true for the system-level setting for this feature but not for the project-level setting. That text has been replaced with "0=The global value will be used for this setting" to reflect how it really behaves.
- Bug fix: If the "File Upload Settings" page's system-level setting "Allow file attachments to be uploaded for data queries in the Data Resolution Workflow" is set to "Disabled", the DRW dialog in a project would still display the option to allow users to upload a file for an opened data query, even though the file upload process would fail when attempted. (Ticket #259107)
- Bug fix: If the system-level setting for "Record limit for development projects" has been enabled, the Copy Project page would mistakenly not prevent users from copying a project and all its records if the number of records in the project currently exceeds the system-level record limit. Going forward, it will allow the user to copy the project without its records and thus will disable the option to also copy the records if they exceed the record limit.
- Bug fix: In longitudinal projects containing repeating events that have CALCTEXT fields or calculated fields whose calc references a field on a repeating event that currently contains no data, server-side calculations of the field might mistakenly return an incorrect value, thus leading to a perpetual red-bar on the CALCTEXT/calc field when saving the data entry form where the field is located. Bug emerged in REDCap 15.0.28 LTS and 15.4.4 Standard. (Ticket #259154)
- Bug fix: On the MLM setup page, pasting the default text into the rich text editor would not work in some cases, such as for custom survey queue messages. Also, accepting a translation as still valid did not reset the UI. Additionally, the tooltip for the export form button was missing.
- Bug fix: Some JavaScript functions used for piping were not optimized well and could cause the piping process to possibly be slow in some cases. (Ticket #259064)
- Bug fix: The "Events" link on the left-hand project menu would mistakenly not appear right after longitudinal data collection had been enabled, but would only appear after more than one event had been created in the project.
- Bug fix: The MLM action tag LANGUAGE-MENU-STATIC did not work as expected on multi-page surveys. It now only affects the page to which it is applied.
- Bug fix: The UI icon on the MLM setup page mistakenly did not reflect a language's subscription status.
- Bug fix: There was an inconsistency when evaluating logic for report filters, custom data quality rules, and custom record status dashboards with regard to how blank/null values are considered in comparison to incomplete values for form status fields. (Ticket #259042)
- Bug fix: When an administrator is accessing the File Repository while impersonating a non-admin user in the project, in which some folders in the File Repository have been set as admin-restricted, the admin would mistakenly be able to view the admin-restricted folders (although not any of the files inside the folder). This was merely a quirk of using the "View project as user" admin feature but has been fixed so that the admin will not see those folders when

impersonating a non-admin. Note: This does not affect normal users using the File Repository. (Ticket #259033)

- Bug fix: When taking a survey that contains enhanced checkbox fields while using a mobile device, deselecting an already-selected checkbox would mistakenly cause it to retain its background color, thus appearing to still be selected when it is not. (Ticket #258971)
- Bug fix: When using CDIS, the page for selecting an EHR system in the launch from EHR flow was missing.

Version 15.5.0(released on 2025-07-03)

- New feature: Admin-restricted folders in the File Repository
 - Summary: Administrators (specifically, admins with access to all projects) may now create new folders in a project's File Repository that limit the folder's access to REDCap administrators only. This will allow admins to store project-level specific files that should not be accessible to normal users in the project for whatever reason.
 - Notes: Normal users will not be able to see or access admin-restricted folders. Additionally, if files are deleted from an admin-restricted folder, thus ending up in the Recycle Bin folder, non-admins will not be able to view those files in the Recycle Bin. Any subfolders created inside an admin-restricted folder will itself only be accessible to admins.
- New feature: Custom CSS styling for individual forms and surveys
 - Users may now optionally define custom CSS styling for an individual survey on the Survey Settings page, and on the field-level Online Designer page they may define custom CSS styling for that data entry form. The form and survey CSS are separate controls that are only applied on a data entry form and survey page, respectively.
 - The form-level CSS setting (but not the survey CSS setting) is subject to draft mode when in production status, and if a change is made to the form-level custom CSS, a side-by-side comparison of the changes can be seen on the draft mode project modifications review page before the drafted changes are approved.
 - The survey-level custom CSS setting on a given survey can be easily copied to other surveys in the project using the "Copy design to other surveys" button on the Survey Settings page.
 - Note: There is a warning on both the form and survey custom CSS settings that informs users of the following things: "Use with caution. Please note that targeting internal REDCap elements (e.g., specific classes or IDs) may break without notice, as updates to REDCap can change or remove these elements at any time. Stability of these selectors across versions is not guaranteed, and any changes to them will not be announced in advance."
- New feature: Record limit for development projects
 - Summary: If enabled, a warning message will be displayed in the project's user interface to inform users that more records cannot be created in the project after the record limit has been met, and users will be prevented from creating any new records in the project. This record limit is only enforced on projects in development status. Once a project is in production or is inactive, this check will not be performed.

- How to enable: On the General Configuration page in the Control Center, administrators may set the maximum number of records that can be created while a project is in development status, which will be applied by default to all projects in the system. This is a system-level setting. The default value of "0" for this setting implies that the feature is disabled - i.e., that there is no record limit. If set to an integer greater than 0, once a project has reached that amount of records and is still in development status, no new records will be able to be created in that project.
- The notice displayed to users: If a user attempts to create a new record (whether via data import, API, REDCap::saveData(), or a Project XML file containing records), they will be presented with an error message saying the operation could not complete because the max record limit has been met already. If importing multiple records at a time or if creating a project via Project XML file containing multiple records, in which the process would result in the project exceeding the record limit, no part of the process will be performed in that case (no records will be imported and the project will not be created, respectively).
- Note: If a project was in production status but then an administrator moved it back into development, it will now be subject to this record limit, if enabled. Additionally, if this setting is enabled on a project that has already exceeded the record limit, it will not affect any existing records in the project but will merely prevent new records from being created.
- Public survey note: Keep in mind that if the record limit setting is enabled suddenly on a development project that is currently collecting data via a public survey, in which the project has already met the record limit, this will effectively shut down the public survey and prevent any new responses from being entered. This could cause confusion for your users and their survey participants, so consider this carefully.
- Project Override: A project-level override exists for the system-level setting, and it can be found on a project's Edit Project Settings page. If an override has been set to a value larger than "0", then that value will be used as the record limit for that specific project while the project is in development status. In the situation that the system-level record limit has been defined but you also wish to allow certain projects to [virtually] have no limit, you can set their project-level value to "999999999", for example.
- Special case: If administrators wish not to impose a record limit for their existing projects but do wish to automatically impose a limit going forward for new projects, they may run the following SQL query and then set the system-level record limit setting to their desired value afterward: `UPDATE redcap_projects SET max_records_development = 999999999;`
- Improvement/change: The EHR authorization workflow for CDIS now uses the Twig templating engine instead of Blade. Additionally, the enhanced error page now displays a list of relevant pages visited during the user's EHR authorization workflow, thus providing better debugging information for troubleshooting issues.
- Improvement: On the Edit Report page, Step 2 now has a "Quick Set" feature that allows users to add or replace report fields by pasting field names from the clipboard or by entering manually. Additionally, the existing "Quick Add" feature now has links to copy all or selected field names to the clipboard.

- Change: The Twig 3 library is now bundled in REDCap itself. In REDCap 14.6.4, Twig support was added directly to the REDCap EM Framework, but now it is also available outside the EM Framework for usage in internal REDCap code. Please note that if any EMs are currently using Twig with a version below 3.9.0, a compatibility issue might occur, in which case it is suggested that the Twig dependency be removed from the EM.
- Change: The size of the session data storage column in the database has been increased to allow for larger session sizes in the future.
- Change: When performing a data export in a project that has Randomization enabled and fully set up, the data export dialog now mentions the Randomization publication (<https://dx.doi.org/10.2139/ssrn.5261054>) that might need to be cited in published manuscripts relating to the current REDCap project.
- Change: When performing a data export in a project that has one or more External Modules enabled, the data export dialog now mentions the External Module Framework publication (<https://doi.org/10.1093/jamia/ocaf073>) that might need to be cited in published manuscripts relating to the current REDCap project.
- Bug fix: If calculations, CALCTEXT, or branching logic references the form status field for the current form, in which the form currently has a gray status icon, the calc/logic would return an inconsistent value for the form status field compared to when the same calc/logic is utilized on another instrument or on the survey version of the current instrument. In this case, the current form would mistakenly report the form status value as being "0", while other forms would report it to be blank. Going forward, if the form has a gray status icon, all references to the form's form status field will report it as having a blank value.
- Bug fix: Users with form-level Data Export Rights that are "De-identified" or "Remove All Identifier Fields" would mistakenly see data from identifier fields inside the header or footer of a downloaded PDF from an e-Consent survey if the survey's e-Consent settings have a field selected for first name, last name, or date of birth or if one or more identifier fields are piped into the "Custom label for PDF header" e-Consent setting. It should instead display the text "[DATA REMOVED]" in place of the identifier field data in the PDF header/footer in this case. (Ticket #258954)
- Bug fix: When MLM is active, SQL field choices and their selected value might not render correctly in instrument PDFs. (Ticket #258463)
- Bug fix: When a previous message is selected from the drop-down list in the Compose Survey Invitations dialog and there was no user-interaction with the email body text editor afterward, the content of the body of the sent email was not getting updated. (Ticket #258514)
- Bug fix: When downloading a project's data dictionary, depending on the user's CSV Delimiter preference set on their user profile page, the process would fail with a fatal PHP error. (Ticket #258630)
- Bug fix: When logic is being evaluated in a project that has Missing Data Codes defined, in which a field in the logic is a multiple choice field with a numeric coding for every choice, if none of the Missing Data codes in the project are numeric, then the logic might not evaluate as expected if the multiple choice field's value for a given record is a Missing Data Code. (Ticket #258516)
- Bug fix: When using a Text Box field with date, time, datetime, or datetime w/ seconds validation as the x-axis field for a [scatter-plot] or [line-chart] Smart Chart, the chart would mistakenly not display the data correctly. Bug emerged in REDCap 14.8.1. (Ticket #107721b)

- Bug fix: When using the "Copy instrument" option in the "Instrument actions" drop-down in the Online Designer for a given instrument, if the project language is set to "Japanese", any text labels in the instrument that have Japanese (Shift-JIS) encoding would mistakenly become corrupt in the new instrument created. (Ticket #258729)
- Bug: The Control Center check for ensuring that the REDCap "temp" folder is not accessible via the public web might not always report an accurate finding.
- EM Framework specific bug fixes: 1) Fixed displaying of images in some cases. 2) Fixed loadREDCapJS to include both REDCap bundle files.
- Version 15.4.5(released on 2025-06-26)
- Major security fix: An SQL Injection vulnerability was found on the Survey Settings page, in which a malicious user could potentially exploit it and execute arbitrary SQL commands on the database by manipulating an HTTP request in a specially-crafted way. This can only be exploited by authenticated users. Bug exists in all versions of REDCap.
- Improvement: Icons/indicators for repeating instruments and repeating events have been added on several project pages (Define My Events, Designate Forms, Online Designer) in order to create more awareness for users with Setup/Design rights regarding which instruments or events are set as repeating. (Ticket #258435)
- Improvement: REDCap now supports the "wbr" HTML tag so that it may be utilized in user input (e.g., field labels, survey instructions).
- Improvement: When using MyCap, there now exists support for latitude and longitude fields (via action tags @latitude and @longitude) inside MyCap tasks when participants open a task in the MyCap app.
- Major bug fix: The third-party library PDFJS (used for inline PDF display in REDCap) contained .mjs files, which are supported by modern browsers but might not be able to be served correctly by some web servers (depending on the server's default MIME type table). The library has been modified so that the .mjs files were renamed to a .js extension to be fully compatible with all web servers.
- Change: For improved compatibility purposes, the "includeSubDomains" attribute was added to REDCap's "Strict-Transport-Security" HTTP header.
- Change: In the Online Designer's "Edit Field" dialog in a MyCap-enabled project, the field validation drop-down on MyCap-specific fields will be disabled so that users won't be able to change the validation because changing the validation could cause sync issues with the MyCap app while saving task results.
- Change: The MLM Snapshot facility on the MLM setup page has been moved from the Settings tab to the Languages tab and slightly updated (visual, explanatory text).
- Change: The text displayed underneath the "Save & Return Later" option where a participant can enter their email address (in order to receive the survey link via email) has been modified slightly to indicate that while the participant's email address will not be stored with their survey responses, it will be stored in the system's email logs. This change is to improve transparency to the participant. (Ticket #244381)
- Bug fix: For projects whose project language is set to "Japanese", the footer text of PDFs exported from the project would mistakenly not be displayed correctly as Japanese/SJIS text. (Ticket #258558)

- Bug fix: In a classic/non-longitudinal project before a record has been selected, the left-hand menu would display the links for all the data collection instruments, but the links would mistakenly be disabled and not clickable.
- Bug fix: In certain cases when MLM is enabled and a Secondary Unique Field is hidden by branching logic, the SUF would mistakenly end up being readonly/not editable. (Ticket #252602)
- Bug fix: In most cases, the server-side processing of REDCap logic would not be able to evaluate a form status complete field's value properly if the form had a gray icon form status (i.e., no data). Going forward, users will now be able to properly reference the blank/null value (e.g., [form1_complete] = ""). (Ticket #258216)
- Bug fix: On the MLM setup page, the "Create Snapshot" button was mistakenly not disabled when there are no saved languages.
- Bug fix: Some Form Display Logic rules might not get interpreted correctly if any rules contain a comment at the end of their logic. (Ticket #258553)
- Bug fix: The MyCap "unresolved sync issues" count was mistakenly not included in the "all notifications count" that is displayed for the "MyCap Participant Management" link on the left-hand project menu.
- Bug fix: When a required field is reset through server-side validation on a survey, REDCap might mistakenly mark the survey as completed. (Ticket #257378)
- Bug fix: When a user triggers a PDF Snapshot, in which the user has "No Access" Data Export Rights for some instruments to be included inside the snapshot, those instruments to which they do not have data export rights will mistakenly not be included in the resulting snapshot that gets saved in the project. (Ticket #258337)
- Bug fix: When using Entra ID authentication, in which Microsoft's multi-factor authentication is being imposed via Entra ID, if a user's status somehow changes from on-VPN to off-VPN (or vice versa) during their REDCap session, it could result in a confusing fatal PHP error message. There's no way to prevent this issue on the REDCap side, but going forward, it will fail more gracefully by just allowing the user to log in again.
- Bug fix: When using Twilio or Mosio to send survey invitations via SMS, in which the option "SMS invitation (take survey via SMS conversation)" is selected for the outgoing invitations for surveys, if subsequent invitations are sent before the participant is able to complete the previous ones, then when the participant enters their survey responses, it would mistakenly get saved to the last survey invitation sent. This behavior should only occur when the "Behavior for overlapping SMS invitations" setting is set to "Use only most recent invitation (ignore previously sent invitations)", but it was happening for all behavior options. (Ticket #257669)
- Bug fix: When utilizing the locking and e-signature features on an instrument that has the e-Consent Framework enabled, if the instrument has already been completed as an e-Consent survey and then a user locked the instrument afterward, a user then attempting to e-sign the instrument will get an error message saying that the page could not be saved. In this case, the page should not be submitted/saved at all (since no data is allowed to change on the e-Consent response) but it should only be e-signed and then reloaded to reflect the e-signed state. (Ticket #258264)
- CDIS-related bug fixes:
 - Mapping Helper: Fixed the "Copy FHIR ID" button in the Mapping Helper.
 - Mapping Helper: HTML content is now rendered properly instead of displaying raw tags.

- CDIS projects: Added HTML sanitization when parsing content from DocumentReference.

Version 15.4.4(released on 2025-06-19)

- Major security fix: The third-party library named PDFJS contained a vulnerability that would allow arbitrary JavaScript execution. The PDFJS library in REDCap was upgraded to a non-vulnerable version. This vulnerability can be exploited by authenticated users and also by survey participants. Bug exists in REDCap versions 14.3.4 and higher.
- Improvement: The "Help & FAQ" page has been updated with new content (thanks to the FAQ Committee).
- Major bug fix: When a user is adding a new instance for a repeating event on the Record Home Page, the gray form status icons in the new table column might mistakenly take the user to an existing instance instead of a new, not-yet-created repeating event instance in the record, which could cause data to be entered in the wrong instance. Bug emerged in 15.3.2 Standard. (Ticket #257891)
- Change/improvement: When a project has a large number of users and/or surveys, the Survey Notifications setup dialog in the Online Designer might become very large and might crash in certain cases. Now, if it is detected that the dialog content will be very large, the user interface will change slightly into a two-step process to allow the user to select the survey first and then the users second, which is more user friendly in this situation and prevents the dialog from crashing or timing out.
- Bug fix: Excessive querying might cause each project page load slightly slower than expected.
- Bug fix: Further issues fixed for when opening certain dialogs on various pages might mistakenly cause the page to scroll up or down on its own.
- Bug fix: If certain MyCap-related Smart Variables are piped inside the body of an alert or ASI, it might cause the REDCap cron job to fail with a fatal PHP error and not finish when trying to send out alerts or survey invitations. (Ticket #257796)
- Bug fix: In certain cases, the MLM setup page might fail to load correctly. (Ticket #118463)
- Bug fix: In certain places in REDCap, such as when viewing the Field Comment Log, the page might crash with a fatal PHP error if the content of the Field Comment Log is in a certain or unknown encoding. (Ticket #257616)
- Bug fix: In some cases where calculations depended on the results of other calculations, REDCap failed to be able to complete the downstream calculations. (Ticket #258068)
- Bug fix: In some cases, calculated fields did not have their value updated as expected when some of their dependent variables were hidden by branching logic. (Ticket #258068)
- Bug fix: In very specific situations, Data Quality rule B might mistakenly not return all results for some fields that exist on repeating instruments and contain branching logic that references fields on the same repeating instrument or another repeating instrument. (Ticket #257170)
- Bug fix: On a survey with "Large" or "Very Large" text size, if a checkbox field is embedded into a multiple choice option and has Left/Horizontal or Right/Horizontal alignment, the embedded checkbox option would mistakenly be slightly cut-off on the page. (Ticket #257427)

- Bug fix: Some of the extra logging details seen in the past on the Logging page for File Repository operations were mistakenly no longer displayed on the page. (Ticket #257587)
- Bug fix: Surveys taken on mobile devices would mistakenly auto-scroll when a hidden multiple choice field's value was preset (e.g., through a URL parameter).
- Bug fix: There were inconsistencies in specific parts of the rendering of PDFs (e.g., font styles, spacing).
- Bug fix: When Rapid Retrieval is enabled in the system and the Rapid Retrieval caching process attempts to store large or complex data structures, the process may result in memory exhaustion or serialization failure, leading to fatal PHP errors.
- Bug fix: When a calc or CALCTEXT field exists on a repeating instrument, in which the calculation is set to always return a non-blank value, if the field exists on an event that has no data for the current record, the first instance of the repeating instrument might suddenly get created on the event with no data when entering data on another event during the data entry process. (Ticket #257848)
- Bug fix: When a field with "Number (comma as decimal)" field validation is used in a calc or CALCTEXT field's calculation, it might cause server-side calculations, such as data imports and Data Quality rule H, to mistakenly not return a correct response. (Ticket #258159)
- Bug fix: When copying a report that has one or more custom AI prompts saved for the report, the copy process would fail with an error. (Ticket #257485)
- Bug fix: When exiting Draft Mode when a project is in production status when MLM is being utilized, some MLM queries might fail and cause lasting issues in the project if the REDCap installation has had the auto-incremented Primary Key added to all database tables. (Ticket #257782)
- Bug fix: When using DDP Custom, the DDP mapping page might not load in certain situations. Additionally, some issues might occur on the page when using a proxy with DDP Custom. (Ticket #257937)
- Bug fix: When using any "X & Table-based" authentication method together with Two-Factor Authentication enabled in REDCap, in which the "Enforce two-factor authentication ONLY for Table-based users" setting is set to "Yes" and the "Enable the Google/Microsoft Authenticator app option for 2FA" setting is enabled, the QR code and setup procedure information for setting up the Authenticator app would mistakenly not be displayed to non-Table-based users on the user's Profile page, even when the "Allow users to e-sign using their Two-Factor Authentication 6-digit PIN in place of their password" setting is enabled. Bug emerged in REDCap 14.5.37 LTS and 15.0.3 Standard. (Ticket #257117)
- Bug fix: When using inline comments inside the calculation of a calculated field during a data dictionary import, the calculation might mistakenly not get parsed correctly, thus causing the CSV upload to fail due to an error. (Ticket #257733)
- Bug fix: When using min(), max(), stdev(), and other similar mathematical functions, in which one or more parameters used in the function is a blank value, there are certain cases where the function might mistakenly return a blank value instead of the expected value.
- Bug fix: When using the "Test logic with a record" feature in several places throughout REDCap, in which the logic contains one or more smart variables but does not contain any field variables, the response might be incorrect. (Ticket #257698)

- Bug fix: When using the 2FA setting "Allow users to e-sign using their Two-Factor Authentication 6-digit PIN in place of their password", in which Twilio SMS is enabled as a 2FA option but the user does not have a mobile phone number provided in their REDCap user profile, the "Obtain PIN via SMS" button in the e-Signature dialog would mistakenly be clickable when performing an e-Signature on a data entry form. In this case, clicking the button would fail and display an error. Now, it instead just keeps the button disabled until a mobile phone number has been provided in the user's profile.

Version 15.4.3(released on 2025-06-12)

- Major security fix: A Stored XSS (Cross-site Scripting) vulnerability was discovered in which a malicious user could potentially exploit it by inserting custom HTML and JavaScript in a specially crafted way into any user input that is then output on a page in REDCap (e.g., field labels, survey instructions, survey response data displayed on a report). This vulnerability can be exploited by authenticated users and also by survey participants entering data. Bug exists in all REDCap versions.
- Improvement: Users can now specify the custom paging size for the repeating instrument popups/tables seen on the Record Home Page, Record Status Dashboard, and left-hand project menu. This will allow users to control the size of the instance tables in case they want to see more instances all at once on the page. (Ticket #256910)
- Bug fix: In a CDIS-enabled project, under certain circumstances, pages might mistakenly crash with a fatal PHP error. (Ticket #257262)
- Bug fix: In certain cases with a CALCTEXT field, a plus or minus sign would mistakenly be replaced by "1+1" in the CALCTEXT result. (Ticket #257373)
- Bug fix: In certain rare situations, the Notifications Log page for Alerts might mistakenly crash with a fatal PHP error. (Ticket #257207)
- Bug fix: When copying a project that has the Secondary Unique Field enabled, the SUF sub-settings (as seen in the Additional Customizations dialog on the Project Setup page) would mistakenly not get copied to the new project. (Ticket #257095)
- Bug fix: When opening and then closing the Additional Customizations dialog on the Project Setup page without saving any changes to settings in the dialog, the values of the settings inside the dialog would mistakenly not reset to their initial values when re-opening the dialog again later, unless the page is refreshed. (Ticket #257095)
- Bug fix: When using CDIS, users might encounter crashes when refreshing FHIR tokens, and their FHIR token status might not display correctly in the user interface in the project.
- Bug fix: When using Clinical Data Pull for CDIS, the record_identifier_external value has been updated to use a default when the expected data is missing-often due to a mapping issue. This caused display problems in the CDP adjudication table.

Version 15.4.2(released on 2025-05-29)

- Major security fix: The third-party library named Axios contained a Server-Side Request Forgery (SSRF) vulnerability. The Axios library in REDCap was upgraded to a non-vulnerable version. This can only be exploited by an authenticated user.
- Improvement: If using "OpenID Connect" or "OIDC & Table-based" authentication, administrators are now able to manually specify the scopes used by OIDC during the user

authentication process. In previous versions, the scopes would be determined automatically, which is the default behavior, but if that is not desired, all necessary scopes can now be provided on the "Security & Authentication" page as comma-delimited values (e.g., "openid, profile, email"). (Ticket #255738)

Version 15.4.2(released on 2025-05-29)

- Improvement: In MyCap-enabled projects, the Contacts, Links, and About pages for MyCap are now Data Access Group specific, so users can provide different content for those pages for participants in different DAGs. In the MyCap app, participants assigned to a DAG will see DAG-specific information, and any information not assigned to any DAG will be visible for all participants.
- Major bug fix: When using randomization in a longitudinal project with multiple arms, in which a record is deleted after being randomized, the record's allocation in the allocation table would mistakenly not get removed when the record is deleted. Thus, its allocation would not be freed up to be utilized by another record later. Additionally, if a new record was created with the same name as the deleted record, it would show the new record as having been randomized on the data entry form and on the randomization dashboard when in fact that new record had not been randomized. Bug emerged in REDCap 14.7.0. (Ticket #256870)
- Change/improvement: In a MyCap-enabled project, the QR code image in the MyCap "Invitation Participant" dialog and invitation template has been increased in size, which helps with particular mobile devices.
- Change: Added a new link ("MTB Data Analysis") on the "Import Active Task->Mobile Toolbox" popup page for MyCap enabled projects.
- Bug fix: In a longitudinal project that has calculations that reference fields on repeating instruments for various events, in which those fields exist on events that do not yet have any data for a given record, the calculation might mistakenly return a blank value rather than the correct value. (Ticket #255308)
- Bug fix: Issue in the user interface of the Email Users page where the new/edit Filter form was not displayed properly.
- Bug fix: The Control Center would mistakenly display a false positive saying that there are issues with the database structure. This would occur in REDCap installations that have not performed the Unicode Transformation process yet and are using MySQL with the UTFMB3 character set for their REDCap database tables. Bug emerged in the previous version. (Ticket #256653)
- Bug fix: The data search feature on the Add/Edit Records page might return display artifacts and thus will not display correctly if fields contain HTML tags in their data values.
- Bug fix: The new "designated field" warning icon next to an instrument's "Automated Invitations" button in the Online Designer would mistakenly be displayed for all instruments when instead it should only be displayed for instruments that currently have Automated Survey Invitations enabled.
- Bug fix: The table on the Record Home Page was mistakenly missing borders for all of its table cells.

- Bug fix: When syncing data back to the server from the REDCap Mobile App, in certain situations a fatal PHP error might occur that would result in an error message in the mobile app, which would stop the sync process. (Ticket #256175)
- Bug fix: When using CDIS in a project, the CDIS patient navbar in the project header might not render correctly on the page.
- Bug fix: When using Clinical Data Pull in CDIS, in which REDCap is launched from the EHR and tries to fetch patient data, rare lookup failures could result in an unhandled error and abort the launch.
- Bug fix: When using DDP Custom, empty or invalid API responses to the DDP web services would not fail gracefully but would result in a fatal PHP error. They now return an appropriate error message. (Ticket #256604)
- Bug fix: When using certain outgoing email services (e.g., SendGrid), any email sent from REDCap that contains an email address that is duplicated in the To, CC, or BCC address fields would fail to send.
- Bug fix: When using randomization smart variables that do not have a ":n" appended to them (e.g., [rand-time]), server-side logic parsing (e.g., ASIs, Alerts, Survey Queue) would fail to interpret the logic correctly and might return unexpected results. Bug emerged in REDCap 14.7.0. (Ticket #256543)
- Bug fix: When using the e-Consent Framework with certain types of PDF files as the consent form, there is the possibility that the PDF consent form might be truncated when added to the REDCap-generated PDF that is stored in the File Repository afterward. (Ticket #255741b)
- EM Framework related bug fixes: Fixed API from returning incorrect value to modules. Fixed buttons not working in module settings. Fix for displaying files uploaded to rich text settings. Fixed a bug preventing files without extensions from getting excluded when setting imports and exports. Updated the security scan tool's minimum PHP version to PHP 8.0.2.

Version 15.4.1(released on 2025-05-22)

- Improvement: For MyCap-enabled projects, a new column (Record ID with hyperlink) was added to the Sync Issues list and Sync Issue detail popup for MyCap so that users can access records more easily.
- Improvement: MyCap-enabled projects are now able to receive data for Signature type fields from the MyCap mobile app. In previous versions, Signature fields could not be used in the MyCap app.
- Improvement: The Codebook page now displays the event IDs in the Events table. (Ticket #256003, #256082)
- Major bug fix: When changing the case of an MLM language ID only on the Multi-Language Management setup page, that MLM language would mistakenly get deleted in the project. (Ticket #256331)
- Major bug fix: When performing an Easy Upgrade to REDCap 15.0.23 (LTS), 15.0.24 (LTS), 15.3.3 (Standard), or 15.4.0 (Standard) from a previous version, the upgrade process would fail with an unknown error. (Ticket #256400)
- Change/improvement: A helpful warning is displayed in the Online Designer to remind users to enable the designated email field in their project if they are using Automated Survey Invitations in certain situations. The warning is displayed next to a survey/ASI button if 1) the designated

email field is not enabled (in the project or for the survey), 2) the project is not using Twilio/Mosio for surveys, and 3) no participants have had their email address manually added to an initial survey via the Participant List page.

- Change/improvement: Hitting the ESC key when viewing REDCap dialogs should now only close the (topmost) dialog if multiple dialogs are visible on the page. (Note: This should work in 95% of places in REDCap but may not work in all cases depending on how the dialog is invoked in the REDCap code.)
- Change: In the recent change of repeating tables display, the custom label was rendered as a link. This has been reverted to not conflict with some use cases (such as copying parts of the label, having links in the label, etc). Note that it is still possible to get to an instance by clicking the form status icon and also by double-clicking anywhere in its row.
- Change: Minor text changes were made to the invitation text for MyCap participants to reflect a recent change to the profile creation process in the MyCap app.
- Bug fix: Data Quality Rule C would mistakenly return false positives for the form status complete field for all repeating instruments that contain data. This bug was supposedly fixed in REDCap 15.0.21 LTS and 15.3.1 Standard, but mistakenly it was not. (Ticket #256184)
- Bug fix: If using a specific "X & Table-based" authentication method that allows Table-based users to have an apostrophe in their username, when creating a new Table-based user with an apostrophe in their username, the user would mistakenly not be able to log in initially to set their password. This would cause the login page to keep redirecting over and over again. (Ticket #256519)
- Bug fix: In some specific situations with calculated fields, such as when using mathematical exponents in the calculation, Data Quality rule H might mistakenly return a result that is not accurate. (Ticket #256467)
- Bug fix: Some action tags would mistakenly not show up on the Online Designer underneath a field utilizing the tag.
- Bug fix: The REDCap::getProjectXML() developer method would fail to output many of metadata/redcap tags in the "GlobalVariables" section of the XML file when the method parameter "returnMetadataOnly" was set to False. (Ticket #255826)
- Bug fix: When a Table-based user is resetting their own password, the process would log the event as the user's "last activity" but not as their "last login", which could be confusing to administrators viewing the user's account history after the fact. It now also logs this as their "last login" since the password reset action does also serve as a login process. (Ticket #255541)
- Bug fix: When creating a new project using a Project XML file, in which the original project contained one or more instruments that each had no fields (excluding the Form Status field), those instruments with no fields would fail to be created in the new project. (Ticket #253898)
- Bug fix: When exiting Draft Mode in a production project, Draft Preview Mode exit was logged even when Draft Preview Mode was never entered.
- Bug fix: When integers are used as MLM language IDs, those languages might not work correctly in all situations.
- Bug fix: When performing the "Re-evaluate Alerts" action on the "Alerts & Notification" page, in which some already-scheduled alerts get unscheduled/removed during the re-evaluation process, the "Re-eval Results" dialog text might mistakenly inflate the number of notifications and records that were affected during the re-eval process. (Ticket #255236)

- Bug fix: When retrieving data in "array" format from the developer method REDCap::getData(), if the "fields" parameter is explicitly provided, in which one or more fields in the "fields" array is from a repeating instrument, the array data returned from the method would mistakenly include the form status complete field of those repeating instruments whose fields were explicitly specified, even when the form status complete field itself was not specified to be returned.
- Bug fix: When sending a survey invitation via the "Survey Options" menu at the top of a data entry form in a multi-arm project, if the current event being viewed does not belong to the first arm in the project, then the "To" email drop-down list would mistakenly not be visible in the dialog. (Ticket #255959)
- Bug fix: When transferring Project XML files between different REDCap versions, in some cases, the MLM setup page would fail to load.
- Bug fix: When using "Shibboleth" or "Shibboleth & Table-based" authentication, in which the "Set user information on each login" option is enabled and the system is set to send notification emails upon new user creation, those emails would mistakenly be sent any time the user information was updated on user login. This fixes that so that those emails are only sent if the user account did not previously exist.
- Bug fix: When using Multi-Language Management, in some cases, piped labels were not translated properly in REDCap-generated PDFs. (Ticket #256369)
- Bug fix: When using the "IP address exceptions" option for the Rate Limiter on the General Configuration page in the Control Center, the exception list might not be respected if the setting contains spaces between the IP address ranges. (Ticket #256029)
- Bug fix: When viewing the Participant List page when thousands or more records exist in the project, the page might be disproportionately slow to load, especially the Compose Survey Invitations dialog, which might not even load at all in certain circumstances. (Ticket #256342)
- Bug fix: When viewing the Record Home Page for a given record, in which the table is wide enough to display scrollbars along the bottom of the table, the table headers might mistakenly have a white background instead of the expected yellow background.
- CDIS-related bug fixes:
 - When processing FHIR metadata CSVs, empty or malformed lines caused parsing errors. Fixed the parser to safely skip invalid lines.
 - When loading FHIR metadata files, inconsistent formatting caused unreliable parsing. Corrected file contents to ensure consistent structure.
 - When saving CDIS mappings, the logic triggered PHP 8 warnings. Adjusted the code to align with PHP 8 syntax requirements and suppress those warnings.

Version 15.4.0(released on 2025-05-15)

- New feature: Pause Recurring Alerts setting - For alerts that are triggered by conditional logic, in which the alert has the "Ensure logic is still true..." checkbox checked, users can now utilize a new checkbox option titled "Allow pausing of recurrences? (Existing interval will continue if the logic becomes true again after becoming false.)". This setting is optional for Alerts & Notifications. When enabled together with the 'Ensure logic is still true...' setting, REDCap will pause (instead of deleting) any already-scheduled recurrences of this alert when the alert's logic

becomes false. This is useful if you expect the logic to become true again in the future. This may be the case specifically with time-based logic, such as `datediff()`).

- New feature: Universal DO-NOT-REPLY Email Address - For automated emails that come from the system and not from a specific person, REDCap can use a "do not reply" type of email address as the From address (and Reply-To address) if provided for this setting on the General Configuration page in the Control Center. This will help reduce confusion in certain cases where users might have a tendency to reply to certain automated emails, in which many of those emails currently go back to the catch-all administrator email address.
- Improvement: Require 6-digit PIN only once per session when e-signing (2FA required)
 - If using Two-Factor Authentication, users can be allowed to provide their 6-digit PIN only once per session for e-signing processes (e.g. performing an e-signature on data entry forms or when utilizing the 'File Upload' field enhancement feature when uploading a file on a data entry form - often used for 21 CFR Part 11 compliance for FDA trials).
 - Normally, a username and password are required each time e-signing occurs, but when this system-level setting is enabled along with the setting "Allow users to e-sign using their 2FA 6-digit PIN" (which is required to be enabled for this feature to be enabled) while using 2FA, if a user has already performed the e-signing process, they will not be forced to enter their PIN again during that same REDCap session.
 - This feature is useful in cases where it can be burdensome or time-consuming to retrieve one's 2FA PIN each time one performs an e-signature. When a user utilizes this feature and performs an e-signature without a PIN, this action is noted on the project Logging page for transparency.
 - This setting is disabled by default but can be enabled in the "Two-Factor Authentication" section on the Security & Authentication page. Additionally, there exists a project-level override for the system-level setting on the "Edit Project Settings" page for a given project, in which it will default to use the system-level setting but can be explicitly set as disabled or enabled.
- Improvement: The Break the Glass (BTG) feature in CDIS projects (for Epic only) now has an improved workflow that allows data to flow into REDCap from Epic when not utilizing the Patient (demographics) endpoint as part of the data pull process. In previous versions, it was a limitation that the system was not able to evaluate patients for BTG unless the Patient endpoint was explicitly requested. (Ticket #254439)
- Change: The links in the "Project Home and Design" section of the left-hand project menu have been relocated slightly to be more consistent with where they were in pre-15.3.3 versions. Their recent change of location had caused some frustration for users.
- Change: The warning text in the Control Center to warn administrators of REDCap's temp directory being publicly accessible has been modified for clarity since some found it to be confusing.
- Bug fix: Custom EM action tags were no longer showing in the Online Designer beneath a field that has the action tag. Bug emerged in the previous version. (Ticket #255946)
- Bug fix: For specific projects using Form Display Logic, a fatal PHP error might occur on the Record Home Page. (Ticket #255634)

- Bug fix: If the "Upload or download DAGs/User-DAG assignments" drop-down menu is opened on the Data Access Groups page, the visible choices in the drop-down list might mistakenly overlap certain dialogs that are also opened at the same time on the same page. (Ticket #255835)
- Bug fix: In a project that contains surveys that are also repeating instruments, the Record Status Dashboard would mistakenly display a blue stack form status icon for a repeating instrument if it contains a mix of only green and green-checkbox statuses, whereas in pre-15.3.2 versions it would instead display whatever the status icon is for the first instance. (Ticket #255728)
- Bug fix: In some cases, fields with the DEFAULT action tag would show a red line (indicating a changed value) when they should not have. (Ticket #255624)
- Bug fix: In some rare situations, inline PDFs might get truncated when being displayed inside a REDCap-generated PDF (e.g., e-Consent survey response) due to an improper detection of an alpha channel in some PDFs. (Ticket #255798)
- Bug fix: In some situations, a cron job might be able to be run more than once at the same time, which generally should not cause issues, but now this situation is prevented in order to avoid any possible issues, such as race conditions. (Ticket #252371)
- Bug fix: In some situations, branching logic errors might pop up after the auto-logout has occurred for an authenticated user. (Ticket #255624)
- Bug fix: Some translations might mistakenly cause JavaScript errors on specific pages due to the lack of escaping of apostrophes. (Ticket #255828)
- Bug fix: The built-in Data Quality rules (A through I) might mistakenly not output the redcap_repeat_instrument value for a discrepant field on a repeating instrument in a CSV export of the Data Quality rule. (Ticket #255903)
- Bug fix: The default "Shibboleth Link Image URL" value for the REDCap Shibboleth Login page was outdated. (Ticket #255863)
- Bug fix: The names of records on the Record Status Dashboard would sometimes unintentionally wrap to the next line if the name is long and/or contains a hyphen or space, whereas this did not occur in previous versions. (Ticket #255590)
- Bug fix: Under certain specific conditions when using comments, smart variables, and datediff together inside REDCap logic or calculations, incorrect results could get produced. (Ticket #255489)
- Bug fix: When importing ASI settings via a CSV file upload in the Online Designer, an error would occur if certain values in the CSV file are left blank, such as units_recurrence or num_recurrence. (Ticket #255603)
- Bug fix: When using Shibboleth authentication (but not Shib & Table-based) with multiple IdPs and with the homepage announcement set, the announcement text would be shown on the login screen even when the option to show on login screen was set to "No". (Ticket #255969)
- Bug fix: When using the "Obtain PIN via SMS" option to receive a 2FA PIN when performing an e-signature while using a non-LDAP/non-Table-based authentication, the text in the SMS message would mistakenly be tailored more for the SMS 2FA authentication option rather than for the e-signature SMS option. The SMS content for the e-signature PIN has been modified to be more appropriate.
- Bug fix: When using the MLM setup page, an unnecessary "Changed Items" notification might occur if one has recently upgraded REDCap from a version before v14.8.1 to a later version.

- Bug fix: When using the e-Consent Framework on a survey, and the REDCap-generated inline PDF of the participant's response takes a while to generate at the end of the survey, there is the possibility that the participant might be able to complete the survey without having viewed and certified their response. And if so in some specific cases, it might also cause the PDF stored in the File Repository afterward to be truncated. (Ticket #255741)
- Bug fix: When viewing or exporting a report that has a sort field from a repeating instrument, the report may not get sorted correctly unless that sort field is also listed as a field in the report itself. (Ticket #255578)

Version 15.3.3(released on 2025-05-07)

- Major security fix: A Cross-site Scripting (XSS) vulnerability was discovered where a malicious user could potentially exploit it by inserting HTML tags and/or JavaScript event attributes in a very specific way into the user-defined URL of a Project Bookmark. This can only be exploited by an authenticated user.
- Major security fix: A Cross-site Scripting (XSS) vulnerability was discovered where a malicious user could potentially exploit it by inserting HTML tags and/or JavaScript event attributes in a very specific way when creating a new conversation in REDCap Messenger. This can only be exploited by an authenticated user.
- Improvement: A flag is now passed in the MyCap config JSON to the MyCap mobile app if a participant is disabled or deleted in the MyCap participants table so that the MyCap participant cannot join with an existing QR code or Dynamic link and thus no longer sees tasks to complete in the app.
- Improvement: For CDIS projects, new demographic information from the EHR is now available. This includes the following patient data:
 - Patient Identifier: FHIR ID
 - Personal Preferences: Patient pronouns (e.g., she/her, he/him)
 - Social Information: Marital status
 - Emergency & Family Contacts, such as Contact relationship type (e.g., Mother, Father, Spouse), Contact names, and Contact phone numbers.
- Improvement: For longitudinal projects, there is now a direct link to the "Define My Events" page in the "Project Home and Design" section of the left-hand project menu.
- Improvement: Renamed "Delete/Undelete" to "Disable/Enable" on the MyCap participants page, and extended this feature to notify MyCap participants by sending custom messages upon enable/disable actions.
- Major bug fix: In a project with randomization enabled, in which the instrument containing the randomization field is also enabled as a survey, when a user randomizes a record on the data entry form while a survey participant is completing that same instrument via survey, in which the survey participant opens the survey before the record is randomized and then submits the survey after the record is randomized, the randomization field's value might mistakenly be erased, leaving it in an in-between state where it is randomized but also has no value. Bug emerged in REDCap 14.7.0.
- Major bug fix: When clicking on a stack status icon for a repeating instrument/event on the Record Status Dashboard, it might mistakenly not open the popup table of instances if the record name is not an integer. (Ticket #255323)

- Change: Small clarification to some text in the dialog for enabling the Twilio feature on the Project Setup page. (Ticket #254938b)
- Change: The new user interface for the repeating instrument tables (added in the previous version) has been slightly improved. (Ticket #255504)
- Bug fix: Disabling the "URL shortening service" setting on the "Modules/Services Configuration" page in the Control Center would not work as expected because there was still some underlying logic in the REDCap code to use the BIT.LY and IS.GD shortening services as a backup service. Going forward, REDCap will only ever use the REDCAP.LINK URL shortening service, which was the original intention when that service was added to REDCap. (Ticket #255540)
- Bug fix: If a user that is not assigned to a DAG is importing data via the API Import Records method or via the REDCap::saveData method and using the "redcap_data_access_group" field in their payload to assign some (but not all) records in the payload to a DAG, then if some fields in the payload are used in a calculation, the calculation might mistakenly not get appropriately triggered for the records not being assigned to a DAG during the import process. (Ticket #255353)
- Bug fix: In MyCap-enabled projects, the Dynamic Links feature (using the URL mycapplusbeta.page.link) has been replaced with App Links (using the URL app.projectmycap.org), in which these are used as an alternative to the QR code for allowing participants to join a project via the MyCap mobile app. This had to be changed because the old Dynamic Links are connected with the Google Firebase service, which will stop supporting their Dynamic Link solution after August 25, 2025.
- Bug fix: In a fresh installation where the "config_settings_key" value is not yet set in the "redcap_config" database table, some other values in that table that should be encrypted might mistakenly get mangled during the auto-encryption process, thus becoming unusable unless re-added to the table. (Ticket #255298)
- Bug fix: In certain rare situations, the Record Home Page might mistakenly crash with a fatal PHP error. (Ticket #255358)
- Bug fix: In some situations, the Record Status Dashboard might be abnormally slow to load. Bug emerged in REDCap 15.3.2. (Ticket #255425)
- Bug fix: In the Online Designer, fields with Field Annotation/Action Tag text that contains an @ sign followed by a capital letter might mistakenly get partially displayed under the field as if it is a real action tag when it is not (e.g., an email address). (Ticket #255266)
- Bug fix: Long Custom Repeating Instrument names would fail to wrap their text and would extend out of the bounds of the repeating instance popup/table.
- Bug fix: On the Email Users page when selecting the user filter criteria "User Status is active", it might mistakenly inflate the amount of users returned from that user filter by a small amount. (Ticket #255531)
- Bug fix: On the left-hand project menu, users would mistakenly always see a list of all the data entry forms in the project, even if they do not have Data Viewing user privileges for some of those instruments. Note: If the user clicks on one of the form links to try to access a form to which they do not have access, they will be given the "no access" error, as expected.
- Bug fix: Some MyCap-related CSS might mistakenly alter Bootstrap CSS classes in a non-scoped fashion.

- Bug fix: When clicking on the "+" button next to a repeating instrument on the Record Status Dashboard, if the instrument has only one repeating instance saved for the instrument, in which the saved instance is not instance 1, the user would mistakenly be taken to instance 1 of that instrument. Instead, they should be taken to the max instance plus one.

Version 15.3.2(released on 2025-05-01)

- Improvement: For longitudinal projects with repeating events, Form Display Logic (FDL) can now be utilized within a specific repeating event. For example, if the FDL references a field inside a repeating event, that field can be used to reference a value in a specific repeating instance of the event, including the current instance (e.g., keep form X enabled if [field][previous-instance] = "1" or [field2][current-instance] > 30). This provides more flexibility so that forms within individual instances of a repeating event can be enabled/disabled via FDL at the instance level. In previous versions, FDL could not work at the instance level but merely applied the FDL to all repeating instances of a given repeating event as a whole. Note: This improvement only applies to repeating events and not to repeating instruments.
- Improvement: Improved user interface for repeating instrument data as tables/popups on the Record Status Dashboard, Record Home Page, and at the top of data entry forms that are repeating instruments. Repeating instrument tables/popups now have a fresh look with options to filter by a word/phrase or by form status (with a clickable status icon interface above the table). Also, when a record is being viewed on a data entry form, clicking the stack of icons or form name on the left-hand menu for a specific repeating instrument will now display the popup of the repeating instrument table. Additionally, if a repeating event contains more than one instance for a record, the Record Status Dashboard will now display every instrument on the event as a stack icon for the record, whereas in previous versions it would sometimes inconsistently display some instruments' icons as if they had one instance, which could be confusing to users.
- Security improvement: For increased security, REDCap now recommends that its local "temp" directory not be publicly accessible to the web. If using IIS or Apache, REDCap will attempt to automatically store a web.config file and htaccess file in the temp directory. If REDCap is not able to automatically prevent public access to the temp directory (or if NGINX is used as the web server), the Control Center will provide a recommendation for how to implement this via server configuration changes.
- Change: Small clarification to some text in the dialog for enabling the Twilio feature on the Project Setup page. (Ticket #254938)
- Bug fix: In certain situations while using CDIS in a project, two users might mistakenly be able to access the same record/event/form at the same time, thus bypassing the Simultaneous User Check. (Ticket #254964)
- Bug fix: In some situations, the EM Framework's getDAG() function might mistakenly not return the DAG ID of the specified record. (Ticket #255110)
- Bug fix: In the "Compose Survey Invitations" dialog when selecting a previously sent email from the drop-down list, it might mistakenly not load the selected email's text into the rich text editor due to a JavaScript error. (Ticket #255012)

Version 15.3.2(released on 2025-05-01)

- Bug fix: Saving a data entry form or survey page in a project that contains many alerts (hundreds) and/or many records (thousands or tens of thousands) might mistakenly take an inordinate amount of time to process, especially when many alerts have conditional logic. This was due to an inefficient process being performed. Now the processing time should be 10X-30X faster in this situation when saving a form/survey. (Ticket #254406)
- Bug fix: The JavaScript version of the datediff() function might give slightly different results compared to the PHP datediff() function, thus possibly causing issues for calculated fields and CALCTEXT fields on data entry forms and survey pages, in which the field would always have a red bar visible on its side denoting that its value had changed upon page load.
- Bug fix: When assigning a user to a data query via the Data Resolution Workflow dialog, the drop-down list of users for assigning the data query would mistakenly omit users that are not assigned to any DAG when the current record is assigned to a DAG. (Ticket #254778)
- Bug fix: When syncing a project to the REDCap Mobile App, calculations or branching logic that contains some X-instance Smart Variables might mistakenly not be parsed correctly, thus they would not work correctly in the mobile app.
- Bug fix: When using the Data Resolution Workflow in a project, the "Save and then open Data Resolution Pop-up" button, which is displayed for users on data entry forms when a field is selected, would mistakenly be displayed to users with read-only data viewing rights on the form. (Ticket #254825)

Version 15.3.1(released on 2025-04-24)

- Improvement: For MyCap-enabled projects, the help text inside the "Publish new MyCap Version" dialog was updated to make it clear when a user needs to publish a new version. Additionally, the publish button will now be disabled when there are no changes to publish.
- Improvement: When a PROMIS battery of instruments has been downloaded from the REDCap Shared Library, if the first instrument in the battery is designated to an event on the "Designate Instruments for My Events" page, it will auto-check all subsequent instruments in the battery series for that same event.
- Major bug fix: If a participant clicks the "Start Over" button on a survey to which they are returning, their responses (i.e., the data values) would appropriately be erased; however, the survey status would still be marked as either completed or partially completed. (Ticket #254629)
- Bug fix: Appending "&new" to the URL of a data entry form might cause a "too many redirects" error in some cases.
- Bug fix: Data Quality Rule C would mistakenly return false positives for the form status complete field for all repeating instruments that contain data. (Ticket #254703)
- Bug fix: Files that do not contain a dot in their filename (i.e., the file has no file extension) were mistakenly allowed to be uploaded into REDCap by users. This is no longer allowed since uploading a malicious file with its file extension removed could potentially be an attack vector.
- Bug fix: The "Space usage for docs" amount on the Project Home Page would be overinflated and would mistakenly include files stored in the File Repository twice in the total amount. Additionally, the dialog's description of what files comprise the "Space usage for docs" amount was outdated and thus has been modified for accuracy. (Ticket #254442)

- Bug fix: The ability to translate the "Task Instruction/Completion" title and steps via MLM at the event level for MyCap-enabled projects was not possible.
- Bug fix: The field drop-down filter on the Field Comment Log page might mistakenly spill off the page when selected if field variable names and/or field labels are very long. (Ticket #254734)
- Bug fix: When a project is in Analysis/Cleanup status, the yellow notice on the Notification Log page for Alerts would mistakenly cause the Notification Log table to be pushed off to the right of the page on wider screens. (Ticket #254751)
- Bug fix: When a user is creating a new project from a Project XML file, in which a "From" email address of an Alert or Automated Survey Invitation in the XML file does not belong to the current user (i.e., is not their primary, secondary, or tertiary address), that Alert/ASI's "From" address will automatically be set to the current user's primary email address when the project is created. This is to prevent users from bypassing REDCap's email verification process (for possible abuse or malicious intent), which could be done in previous versions by manually modifying the Project XML file prior to upload.
- Bug fix: When deleting a Data Quality rule that has one or more Data Resolution Workflow data queries attached to it, the audit trail would mistakenly not log that those data queries were subsequently deleted along with the DQ rule. In this situation, REDCap now also logs the number of data queries that were deleted, if any. (Ticket #254747)
- Bug fix: When performing a CSV data import (via Data Import Tool, API, or REDCap::saveData), in which one or more rows in the CSV file contain fewer columns than the header row, it would cause a fatal PHP error. (Ticket #254459)
- Bug fix: When using CDIS, the background data handling for CDP projects (i.e., via the cron job) was not running as efficiently as designed.
- Bug fix: When using CDIS, users were unable to access the EHR standalone launch page when REDCap was configured with "OpenID Connect & Table-based" authentication. The issue affected both authenticated and unauthenticated users who were being redirected back to the login page instead of reaching the "ehr.php" endpoint.
- Bug fix: When using Clinical Data Pull in CDIS, the condition summaries data in CDP projects might contain little or no data being pulled from the EHR. (Ticket #254062)
- Bug fix: When using the Email Users page, it might mistakenly attempt to email users that have no email address listed for their user account. Bug emerged in REDCap 15.3.0.
- Bug fix: When viewing alert details for each alert on the right side of the Alerts & Notifications page, the "To:" attribute for an alert would mistakenly appear blank if a field (rather than a static email address) was being used as the alert's recipient address.

Version 15.3.0(released on 2025-04-17)

- Major security fix: An SQL Injection vulnerability was found in a specific feature in the Online Designer, in which a malicious user could potentially exploit it and execute arbitrary SQL commands on the database by manipulating an HTTP request in a specially-crafted way. This can only be exploited by authenticated users. Bug exists in all versions of REDCap.
- New feature: Improved "Email Users" page - The Control Center's Email Users page has an updated interface that allows administrators to create and save user filters of specific user groups in the system that they may wish to email. Any saved user filter will be given a name, description (optional), and filter criteria. User filters can be utilized at any point when sending a

new email, and admins may create as many user filters as they so choose. Additionally, a new Message History tab allows admins to view previously-sent emails and even re-use a message's text and subject when sending a new email.

- Major bug fix: When using the action tags NONEOFTHEABOVE and MAXCHECKED together on a checkbox field, in which at least one normal checkbox option is initially checked and then the NONEOFTHEABOVE checkbox gets checked, thus unchecking the other checked options, if the instrument is then saved, the NONEOFTHEABOVE option would mistakenly not be saved as a selected choice. (Ticket #254216)
- Bug fix/change: Removed the usage of the word "gender" throughout REDCap and replaced it with "sex" in compliance with U.S. Executive Order 14168.
- Bug fix: A CSS stylesheet in DDP projects might mistakenly not be loaded successfully on the Record Status Dashboard, thus causing some page elements not to look how they should. (Ticket #251378)
- Bug fix: For certain database server installations, a query in the REDCap 15.2.6 upgrade script might have mistakenly failed. (Ticket #253991)
- Bug fix: In data exports, the decimal character failed to be converted to a comma for calc fields when the export setting "CSV delimiter character" is set as "comma". Bug emerged in REDCap 15.2.3.
- Bug fix: The piping option ":field-label" would mistakenly not work for Descriptive fields.
- Bug fix: When a user is on the "Stats & Charts" page in a project, in which values are missing for a field on the page, thus displaying a link to view a list of records with a missing value for that field, clicking the record name link would take the user to the data entry form for the record, but if the form is not a repeating form or repeating event and the instrument had been locked previously by a user, the current user would not be able to unlock the instrument. Note: It would appear as if the instrument were unlocked and it would be logged as such, but in actuality the instrument would not be unlocked when the user clicked the "Unlock" button on the form.
- Bug fix: When assigning a user to a data query via the Data Resolution Workflow dialog in a project that utilizes Data Access Groups but not the DAG Switcher, the drop-down list of users for assigning the data query would mistakenly list users that are not assigned to the current record's DAG. (Ticket #254055)
- Bug fix: When assigning a user to a data query via the Data Resolution Workflow dialog, the drop-down list of users for assigning the data query would mistakenly list users that have "Open queries only" user privileges for DRW. Such users should not be listed in that drop-down since they cannot respond to data queries. (Ticket #254055)
- Bug fix: When creating a new arm in a longitudinal project, it would be possible to set one or more spaces as the arm name, which should not be allowed. This could cause issues downstream, such as when exporting->importing a Project XML file for that project. (Ticket #254357)
- Bug fix: When importing CSV files in various places, including data imports, some CSV data might not successfully get imported if the value contains a backslash character. (Ticket #254420)
- Bug fix: When piping a field value into a repeating instance context (form or event) from a source in a non-repeating context, the value might have mistakenly been blank or marked with the wrong instance. (Ticket #254340)

- Bug fix: When using the "Universal FROM Email Address" feature together with a value for the Display Name in an outgoing email, it previously put the email address inside less than/greater than operators in the email's display name header - e.g., "John Doe j.doe@aaa.com", but for compliance reasons, it now puts the email address inside parentheses in the email's display name text - e.g., "John Doe (j.doe@aaa.com)".
- Bug fix: When using the :inline piping option when piping a File Upload field on a survey or data entry form where Multi-Language Management is enabled, the inline image/pdf would fail to be displayed when the page is loaded and also when the language is changed on the page. (Ticket #254057)

Version 15.2.6(released on 2025-04-10)

- Improvement: A new system-level setting "Number of days between project deletion and purging the project from the system" has been added to the General Configuration page. This setting defaults to 30 but can be modified by an admin to control how long after a user "deletes" a project that it gets permanently removed from the system.
- Improvement: In longitudinal projects, the Online Designer now shows a warning next to any instruments that are not designated for any events. Additionally, it provides a link to navigate to the Designate Instruments page if the user has Project Design privileges.
- Improvement: When performing a fresh installation of REDCap, admins can automatically enable Table-based authentication and add an initial administrator account, if desired. The install page now lists optional settings to provide the username, temporary password, and email address of the first administrator user. If these details are provided, then that user will be added as the first admin user and Table-based authentication will be enabled after executing the Install SQL script. This can help admins get a REDCap installation up and running quickly with real authentication enabled rather than having to figure out how to add a user later and enable authentication after the fact.
- Major bug fix: When attempting to upload a CSV data file using the background process in the Data Import Tool, the "Choose File" prompt would mistakenly get triggered repeatedly, thus preventing the user from ever being able to upload files using the background process. If the CSV file is >1 MB in size, this would completely prevent users from uploading the file since it would always default to the background process. Bug emerged in the previous release.
- Change: If Two-Factor Authentication is enabled while using an "X & Table-based" authentication (excluding "LDAP & Table-based"), the text displayed in the E-signature dialog on a data entry form has been changed to be more understandable and more straight-forward for non-Table-based users.
- Bug fix: A MyCap Participant's task result was only getting partially saved to REDCap, in which the "Sending Task Result" message bar would remain and not display the success message in the MyCap mobile app. Also, the task data was not getting fetched from the REDCap server when the participant would rejoin a study.
- Bug fix: A couple e-Consent Framework settings on the Edit Project Settings page would mistakenly not get copied over when copying a project or creating a new project from a project template. (Ticket #253369)
- Bug fix: If a multi-page survey has fields with the DEFAULT action tag that exist on pages after the first survey page, the DEFAULT action tag might mistakenly not work correctly for those

fields if the "Require a 'reason' when making changes to existing records?" setting is enabled in the project. Bug emerged in REDCap 14.9.0.

- Bug fix: If an embedded field has the READONLY action tag, it might be difficult to visually tell that the field is read-only/disabled on the page. (Ticket #253636)
- Bug fix: If any rich text editor fields on the Survey Settings page have text that contains REDCap hyperlinks that contain a REDCap version number, in which that version number in the URL is not the current version of REDCap, those links should have been updated automatically when the page loads to reflect the current version. However, they mistakenly were still displaying the old REDCap version number in the text. Note: This does not affect the usage of these settings on the survey itself but only when viewing/editing the Survey Settings page.
- Bug fix: If many Form Display Logic conditions have been saved in a project, clicking the "Edit Form Display Logic" button in the Online Designer would cause an unusually high number of AJAX requests to be made on the page. (Ticket #253364)
- Bug fix: If randomization is enabled in a project and an administrator is manually randomizing a record via the admin-only view of the randomization dashboard, the logged event for the data value change might not get recorded as expected in the logging. (Ticket #251255c)
- Bug fix: In some rare instances, a CDIS-enabled project might mistakenly not be connected to any FHIR system, thus causing a fatal error to occur for CDM or CDP. (Ticket #253091)
- Bug fix: Some of the language on the Data Quality page was mistakenly not translatable via an INI language file. (Ticket #252409)
- Bug fix: The CSV export of the Survey Invitation Log would mistakenly not include a column for "Repeat Instance" if the project contains repeating events and/or repeating instruments. (Ticket #253787)
- Bug fix: Unexpected crashes might occur during Clinical Data Mart (CDM) data fetching from an EHR.
- Bug fix: When a user's account is deleted from the system by an admin on the Browse Users page in the Control enter, it was mistakenly not logging this "Delete user" action in each project in which the user is removed. (Ticket #253863)
- Bug fix: When assigning a user to a data query via the Data Resolution Workflow dialog in a project utilizing the DAG Switcher, the drop-down list of users for assigning the data query would mistakenly list users that might not be able to access the current record due to those user's DAG Switcher assignments. (Ticket #253726)
- Bug fix: When clicking the "Space usage for docs" text in the Project Statistics table on the Project Home page, the expected dialog would not be displayed as a result of a JavaScript error.
- Bug fix: When uploading a CSV file of user rights or user roles on the User Rights page, the Email Logging column would mistakenly always think that its current saved value was blank and is being changed by the upload, even when it is not being changed. (Ticket #253706)
- Bug fix: When using the file attachment (paperclip) icon in the rich text editor on any page in REDCap, that icon/feature would mistakenly not work anymore once a single file has been uploaded using it, that is, unless the page is reloaded.

Version 15.2.5(released on 2025-04-03)

- Improvement/bug fix: In the "Compose Survey Invitations" dialog, when selecting a previously sent email, hardcoded links in the email would remain in the template. This only affects REDCap

installations with a dedicated Survey Base URL. When selecting a previously sent email, the subject will be restored as well (only when empty in the "Compose message" section). The dropdown now shows up to 20 chars of the subject and "(not sent yet)" as the timestamp for scheduled messages.

- Bug fix: A date or datetime field using the CALCDATE action tag might result in a value that is off by several hours, thus the form/survey would display the field with an incorrect value. However, if the form/survey is saved, the correct value would be saved. In this way, this only affects the displayed value on the page, not the saved value. If the field is a date field, the value could be off by one whole day in some use cases. Bug emerged in the previous version.
- Bug fix: CDIS-related cron jobs might mistakenly fail repeatedly with a fatal PHP error for certain PHP versions. Bug emerged in the previous version.
- Bug fix: For File Upload fields, the "Remove file" confirmation failed to show when used multiple times while remaining on a data entry form. Bug emerged in the previous version. (Ticket #252988)
- Bug fix: In an MLM-enabled project, when the PDF Snapshot feature was active for a survey and set to not use the current MLM language, the survey acknowledgement page was mistakenly forced to always be displayed in the default language. (Ticket #253233)
- Bug fix: In some cases where a data file being imported contains a Byte Order Mark (BOM) but does not have UTF-8 encoding, the BOM might mistakenly not get removed during the import process, thus leading to possible errors when REDCap is attempting to read the data in the file.
- Bug fix: REDCap's calculation/logic interpreter does not operate as expected when the logic contains "[field] = "" or "[field] <> "" while also containing a field whose value is referenced in the logic in which the reference contains the word "or" or "and" inside quotes/apostrophes (e.g., [field] = "Bob and Tom"). (Ticket #253181)
- Bug fix: Some CDIS functionality might not be compatible with PHP 8.4 and might cause certain CDIS processes to crash unexpectedly. (Ticket #250169)
- Bug fix: Some dialogs on various pages were not reopening after being closed in certain ways. Bug emerged in the previous version.
- Bug fix: The "Permissions Required" section of the API Documentation pages had incorrect text for the API methods "Import Repeating Instruments and Events" and "Export Survey Participants". (Ticket #253287)
- Bug fix: The AlertsNotificationsSender cron job might mistakenly crash if it tries to send an alert that contains the smart variable [stats-table] in the alert message, in which the alert is not set to send "Immediately". (Ticket #253169)
- Bug fix: The INLINE-PREVIEW action tag failed to work when used for descriptive field attachments. (Ticket #253222)
- Bug fix: The Project XML file exported from a project would mistakenly not contain any settings related to the Field Comment Log or Data Resolution Workflow. (Ticket #253169)
- Bug fix: The rich text editor on the MLM setup page, in some cases, did not observe the "bold" behavior seen at corresponding places outside of MLM.
- Bug fix: When MLM is active, fields embedded into the labels of matrix fields would not show on survey pages when enhanced radio/checkboxes are enabled. (Ticket #252991)
- Bug fix: When importing a CSV data file via the Data Import Tool, an incorrect error message would be displayed if the CSV file contained a Byte Order Mark (BOM). (Ticket #252515)

- Bug fix: When piping fields into the survey acknowledgement page with MLM enabled in a project, under certain circumstances values were not piped in the correct language when the MLM base language was displayed. (Ticket #253282)
- Bug fix: When renaming an instrument's unique instrument name via the Online Designer and the "also change the survey title" checkbox is checked, the survey title would mistakenly not get renamed. (Ticket #252705)
- Bug fix: When using the MLM AI translation service, it would mistakenly always say that there are no items to translate on the page. Bug emerged in the previous version. (Ticket #253072)
- Bug fix: When viewing a report or performing a data export, in which all the fields in the report/export exist on a repeating instrument (excluding the record ID field), if all the repeating instrument fields have a blank value for a given repeating instance (excluding the record ID field), that row of data would mistakenly not appear in the report/export. (Ticket #251820)

Version 15.2.4(released on 2025-03-28)

- Improvement: A notice has been added to the MLM setup page to remind users to preserve any embedded fields in the translation when the default text contains an embedded field.
- Major bug fix: When importing CSV data via the Data Import Tool page with a value of "new" for the field "redcap_repeat_instance", all repeating instances for a given record-instrument would mistakenly not get imported except for the last instance of that record-instrument. Bug emerged in the previous version.
- Major bug fix: When performing a CSV data import (via Data Import Tool, API import, or REDCap::saveData method), in which some rows in the CSV file (excluding the first row) contain extra columns, it would cause those specific rows to be silently ignored and not imported into the project during the import process. In this case now, the data import process will merely ignore those superfluous columns in the CSV file, thus restoring the behavior as it was in earlier REDCap versions.
- Bug fix: A missing LOINC code was added to the CDIS mapping features.
- Bug fix: If randomization is enabled in a project and an administrator is manually randomizing a record or removing randomization from a record via the admin-only view of the randomization dashboard, the logged events for the data value change might not get recorded as expected in the logging, including the "Reason for Change" text, if being used. Bug emerged in the previous version. (Ticket #251255b)
- Bug fix: In certain cases, MLM was overriding custom text alignments when a RTL language was present.
- Bug fix: On the PDF Snapshot page in a longitudinal project, in which a PDF Snapshot's scope is set to "[All instruments]", if the snapshot is triggered by saving a form or survey, the resulting snapshot might mistakenly not contain the entire record's data but instead would contain only the data for the event on which the snapshot was triggered. (Ticket #251619)
- Bug fix: The CALCDATE action tag might mistakenly return inaccurate results in very specific situations, especially when using "y" and "M" for the "unit" parameter. This affects both the client-side (JavaScript) and server-side (PHP) implementations of CALCDATE. (Ticket #229442)
- Bug fix: When exporting the "Return Codes for Surveys" on the "Other Export Options" page in a longitudinal project, a single return code might be listed across all events for a given record in the CSV file when instead each event should have its own distinct return code. (Ticket #251434)

- Bug fix: When performing a data import using the Data Import Tool when the "Require a 'reason' when making changes to existing records" feature is enabled in the project, some server-side checking was missing to ensure that a reason was required by the user performing the data import for existing records being modified.
- Bug fix: When using Shibboleth authentication and the "Set user information using data from Shibboleth" setting is enabled in the Control Center, users were mistakenly still added as REDCap users in the "redcap_user_information" database table if they logged in the first time but were not listed on the User Allowlist.

Version 15.2.3(released on 2025-03-25)

- Major bug fix: When a user is uploading a file to a File Upload field via the API "Import a File" method, the API call would mistakenly fail (sometimes without an error returned) when the "repeat_instance" parameter is provided if the repeating instance does not exist yet for the record. Bug emerged in the previous version.
- Major bug fix: When rendering an inline PDF into a REDCap-generated PDF (e.g., at the end of an eConsent survey that contains a PDF consent form), the inline PDF might not appear correctly in the resulting PDF if it contains a specific type of an alpha channel, thus resulting in horizontal lines and other distortions that may obscure the inline PDF's content. (This is similar but ultimately different from the "black box" issue that was fixed in the previous version.) Note: This will not fix the issue in already-stored e-Consent files (i.e., already saved in the File Repository's PDF Snapshot Archive after consent has been performed), but it will prevent the issue going forward. Bug emerged in the previous version.
- Bug fix: Data Quality rule logic and server-side branching logic evaluation in PDF downloads was not working as intended when fields with "Number (comma as decimal)" field validation were used in the logic. Note: Some similar, related issues were fixed in the previous release, but these represent additional, unfixed items.
- Bug fix: If randomization is enabled in a project and an administrator is manually randomizing a record via the admin-only view of the randomization dashboard, the logged event for the data value change would mistakenly not get added to the log for the randomization field. Additionally, if an admin is removing randomization from an already-randomized record, in which the "Require a 'reason' when making changes to existing records" feature is enabled in the project, the reason entered by the admin would mistakenly not get added to the log in the resulting logged events. (Ticket #251255)
- Bug fix: If the Scheduling page is being used in a project that contains multiple arms, and an existing record is selected to generate a schedule form an arm in which the record does not yet exist, the record would get successfully scheduled for that arm, but the record would not appear as having been added to that arm when viewing the Record Status Dashboard, etc.
- Bug fix: If the e-Consent Framework is enabled in a project and a user goes to view an e-Consent survey response, in which the e-Consent settings for the survey dictate that users cannot modify e-Consent responses for that instrument, the "Trigger PDF Snapshots" link that opens the dialog to allow users to trigger/re-trigger PDF Snapshots was mistakenly not displayed anywhere on the page (because the link is connected to the Save buttons, which are not visible in that case). Thus in this situation, users would not be able to re-trigger a snapshot. Going forward, if the "Trigger PDF Snapshots" link is not displayed on the instrument, the link will instead be added

near the top of the instrument to provide the user with the option to re-trigger snapshots manually.

- Bug fix: In some cases when using the AI feature to automatically translate text on the MLM setup page, the translation process might fail to work. The prompt sent to the AI service has been modified slightly to provide a more consistent and expected output for this process, thus ensuring that it works correctly. (Ticket #252184)
- Bug fix: In some very rare circumstances, most project pages for certain projects with repeating events/instruments might mistakenly crash with a fatal PHP error. (Ticket #251840b)
- Bug fix: The "Save Changes" button on the MLM setup page would not get highlighted after a user has made changes to the reCAPTCHA language code.

Version 15.2.3(released on 2025-03-25)

- Bug fix: The field validation label "Phone (North America)" was changed to "Phone (U.S.)" because the label is inaccurate and only applies to United States phone numbers. (Ticket #251402)
- Bug fix: The instance drop-down on data entry forms for repeating instruments might be obscured by a rich text editor's toolbar.
- Bug fix: When a user on the Participant List page is composing a survey invitation and selects a previously sent email via the drop-down list at the bottom of the Compose dialog, REDCap now checks for hardcoded survey links in the survey invitation content immediately when the user selects an email from the drop-down list, whereas in previous versions the hardcoded link check would only occur after a user placed their cursor in the Compose box and then moved their cursor out of the box. (Ticket #245222)
- Bug fix: When a user on the Participant List page is composing a survey invitation and selects a previously sent email via the drop-down list at the bottom of the Compose dialog, the user may mistakenly not be given a prompt if hardcoded survey links exist in the survey invitation content, specifically when REDCap is using the Survey Base URL (as defined on the General Configuration page in the Control Center). This could cause participant-specific links to be sent to other participants. (Ticket #245222)
- Bug fix: When adding trigger logic for a PDF Snapshot in the "Add/Edit Trigger for PDF Snapshot" dialog, the logic editor would mistakenly not display the "Valid" or "Error in syntax" indicators as the user is typing logic.
- Bug fix: When copying a project that has Google reCAPTCHA enabled on the public survey, reCAPTCHA is not enabled in the new project created. (Ticket #252397)
- Bug fix: When downloading a PDF of an instrument that contains a Notes field with the RICHTEXT action tag, the rich text saved for the Notes field would mistakenly be seen as HTML tags in the resulting PDF file when instead the HTML tags should be stripped out of the generated PDF. This also occurs for any PDF Snapshots that are saved of the instrument. (Ticket #251634)
- Bug fix: When importing CSV data files via the Data Import Tool, some rows in the file might mistakenly get silently dropped during the import process. (Ticket #251778)

Version 15.2.2(released on 2025-03-20)

- Improvement: When updating the branching logic of several fields at once in the Online Designer, the dialog now shows the number of fields that will be updated. (Ticket #251392, #251677)
- Major bug fix: When importing data via the Data Import Tool, CSV files would fail to import if the CSV delimiter did not match the one set in the user's profile. This was thought to have been fixed in the previous version but was not. (Ticket #251925)
- Bug fix: Background processes for the ProcessQueue cron job (used by CDIS and the Email Users page) might fail when running PHP 8.3 and higher. (Ticket #250971)
- Bug fix: For certain server/network configurations when using the Azure OpenAI service, the API key might not be received in the correct format by the AI services. To maximize compatibility for various configurations, REDCap now sends both of the headers "api-key KEY" and "Authorization: Bearer KEY" instead of just one or the other based on specific conditional criteria. (Ticket #250900)
- Bug fix: If Rapid Retrieval caching is enabled while a report is set to be "public", in which one or more File Upload or Signature fields exist on the report, the download button for those fields might mistakenly point to a URL that requires user authentication when viewing the public report.
- Bug fix: If the Survey Queue is enabled in a project, the "Survey Queue" option in the "Choose action for record" menu on the Record Home Page would mistakenly be visible to all users when instead it should only be visible to users with "Survey Distribution Tools" privileges in the project. (Ticket #251224)
- Bug fix: In certain circumstances, when the REDCap::saveData method (or internal Records::saveData method) is called in specific scenarios to save data to a project, it might prevent alerts from being triggered.
- Bug fix: In some contexts when trying to close certain dialogs using the X icon/button at the top-right of the dialog, the dialog would mistakenly not close. (Ticket #251993)
- Bug fix: In some very rare circumstances, every project page for certain projects might mistakenly crash with a fatal PHP error. (Ticket #251840)
- Bug fix: Minor AI Service related fixes.
- Bug fix: PDFs displayed with the INLINE-PREVIEW action tag would not close while in expanded view.
- Bug fix: Report filter logic was not working as intended when fields with "Number (comma as decimal)" field validation were used in the logic. Additionally, this was found to not work as intended in other places too, including triggering ASIs and alerts and when evaluating logic for data quality rules, Form Display Logic, and other similar things. (Ticket #249306)
- Bug fix: Several missing LOINC codes were added to the CDIS mapping features.
- Bug fix: Some info in the documentation for randomization smart variables was missing.
- Bug fix: The ":hideunderscore" piping parameter would mistakenly fail to work when piping smart variables in certain contexts. (Ticket #251324)
- Bug fix: The Descriptive Popups feature would mistakenly not work on a form/survey when the instrument contained embedded fields and the "Display on First Match Only" option is selected in the Descriptive Popups settings. (Ticket #250562)
- Bug fix: The REDCap Messenger "Members" dialog would be obscured by the left-hand project menu. (Ticket #252030)

- Bug fix: The [survey-link] smart variable mistakenly failed to resolve to the translated survey name in MLM-enabled projects when used in Alerts (ASIs were not affected). (Ticket #251251)
- Bug fix: When a user attempts to import data via a CSV file on the Data Import Tool, in which the CSV file is formatted with records as columns (not rows), an error would be returned on the page, thus preventing the user from importing the data in that format. (Ticket #251252)
- Bug fix: When a user is uploading a file to a File Upload field via the API "Import a File" method, the action would mistakenly not trigger various things, such as ASIs, alerts, calculations, etc.
- Bug fix: When opening certain dialogs on various pages, the page might mistakenly scroll up or down on its own.
- Bug fix: When rendering an inline PDF into a REDCap-generated PDF (e.g., at the end of an eConsent survey that contains a PDF consent form), the inline PDF might not appear correctly in the resulting PDF if it contains an alpha channel, thus resulting in black boxes that may obscure the inline PDF's content. Note: This will not fix the issue in already-stored e-Consent files (i.e., already saved in the File Repository's PDF Snapshot Archive after consent has been performed), but it will prevent the issue going forward.
- Bug fix: When using MLM in a project, if a PDF snapshot is triggered by saving a form while another language (excluding the base language) was active, the resulting PDF was rendered in the base language. (Ticket #251280)
- Bug fix: While on a form or survey, clicking anywhere in the label of a field that contains an embedded checkbox will mistakenly toggle the first checkbox option. (Ticket #250435)

Version 15.2.1(released on 2025-03-06)

- Improvement/change: When exporting the query results of a custom/saved query in the Database Query Tool, the resulting CSV file now includes the title of the custom query as part of its file name.
- Improvement: The file storage option "Microsoft Azure Blob Storage" now allows for utilizing the storage of files in the Azure Government Cloud (U.S. only). (Ticket #250745)
- Major bug fix: When importing data via the Data Import Tool, CSV files would fail to import if the CSV delimiter did not match the one set in the user's profile. (Ticket #250831)
- Major bug fix: When using the WebDAV file storage option for any of the three features that stores files onto an external file server (e.g., e-Consent Framework, Record-level Locking Enhancement, and File Upload field enhancement), the process would mistakenly fail due to a fatal PHP error. Bug emerged in 15.1.0 (Standard) and 15.0.10 (LTS). (Ticket #251008)
- Bug fix: Many missing LOINC codes were added to the CDIS mapping features.
- Bug fix: The minimum PHP version required by REDCap was not being detected properly enough on most pages. If someone attempts to load the upgrade page of a REDCap version that is not compatible with the current PHP version or if someone has somehow already upgraded to a REDCap version that is not compatible with the current PHP version, it will now display nothing on the page except an error message notifying the admin/user that they need to upgrade PHP to a newer version in order for REDCap to function.
- Bug fix: The terminology of "AI Services" (meaning the Service Providers) and "AI Features" (the different AI-based features in REDCap) were conflated on the Modules/Services Configuration page in the Control Center, thus leading to some confusion. The text has been slightly modified to distinguish the two from each other.

- Bug fix: When REDCap's AI Services are enabled, especially the AI feature "Summarize free-form text data on reports", the magic wand icon would mistakenly be displayed in the report table header on public reports. However, clicking the icon would do nothing except cause a JavaScript error. That icon/feature should not be available in public reports but only on reports as viewed by an authenticated project user.
- Bug fix: When a repeating instrument is enabled as a survey and the Smart Variable combination [survey-link][new-instance] is used to navigate a participant to the repeating survey, if the survey has multiple pages and has some calc fields or CALCTEXT fields that are hidden by branching logic, then simply loading the first page of the survey for any repeating instance would mistakenly create an empty placeholder of data for the instance (changing its form status from gray to red icon), which would additionally cause another repeating instance to then be created when the participant completes the survey. Thus, it would always create an extra empty repeating instance for each real instance. (Ticket #250983)
- Bug fix: When using "LDAP" or "LDAP & Table-based" authentication on PHP 8.3.0 or higher, REDCap might crash with a fatal error if an LDAP "port" value is provided separately from the url/host in the /webtools2/ldap/ldap_config.php configuration file. (Ticket #250192b)
- Bug fix: When using a non-Azure OpenAI service for the REDCap AI Services, an error might occur because the AI model name was not included in the API request to the service.
- Bug fix: When viewing an existing alert on the Alerts & Notifications page, if a recipient's email address contains an apostrophe, then the email address would not be displayed correctly on the "To:" line on the right-hand side of the alert displayed on the page.

Version 15.2.0(released on 2025-02-27)

- New action tag @SAVE-PROMPT-EXEMPT - This action tag is useful for preventing the "Save your changes?" warning prompt under certain conditions when navigating away from a data entry form or survey page. Adding this to a field will prevent any changes to the field's value from individually triggering the "Save your changes?" prompt when someone navigates away from the page without clicking the Save button. Please note that when using this action tag, if another field's value is also modified on the page, the "Save your changes?" prompt will be displayed to the user because this action tag only affects the individual field's ability to trigger the warning prompt. This would typically be used on fields where the value of the field being saved is not important unless other field data is also entered - e.g., when prefilling a "Last modified by" field that has both @READONLY and @SETVALUE="[user-name]". Warning: Use with care, as inadvertent data loss could occur ONLY for fields in which this action tag is implemented if a user navigates off the page without clicking Save.
- New action tag @SAVE-PROMPT-EXEMPT-WHEN-AUTOSET - This action tag is similar to the @SAVE-PROMPT-EXEMPT action tag, but its effect is limited to the initial setting of a field's value when the value is blank at the time the form/survey page is loaded. Use this action tag to prevent action tags such as @DEFAULT, @SETVALUE, @TODAY, or @NOW from triggering the "Save your changes?" prompt when someone navigates away from the page without clicking the Save button. Please note that when using this action tag, if this or another field's value is later modified on the page, the "Save your changes?" prompt will be displayed to the user because this action tag only affects the individual field's ability to trigger the warning prompt and only during the initial setting of the field's value. Warning: Use with care, as inadvertent data loss

could occur ONLY for fields in which this action tag is implemented if a user navigates off the page without clicking Save.

- New feature: Support for Twilio Alphanumeric Sender ID - In lieu of entering a Twilio phone number, users may alternatively use a Twilio Alphanumeric Sender ID if it is supported by Twilio in their country (e.g., not available in the U.S.). NOTE: The Alphanumeric Sender ID can only be used for outgoing SMS messages, so it cannot be used for Voice Calls or incoming SMS messaging features. (Ticket #23438) Learn more: <https://www.twilio.com/docs/glossary/what-alphanumeric-sender-id>
- New options for AI Services - The services below can now be used as the engine for REDCap's AI services. Note: All cloud-hosted options will require a billing account on the respective platform, in which the platform will deduct money from your account as you use the AI service via REDCap.
 - Google Gemini (cloud-hosted) - Connect to the Gemini AI API hosted on Google Cloud Platform. You will need to obtain an API key and provide a model name and API version, which can be added to the Modules/Services Configuration page in the Control Center to enable it for the system and/or specific projects.
 - Cloud-hosted OpenAI-compatible services: Aside from the Azure-hosted OpenAI service, there are many different cloud-hosted AI services that are OpenAI compatible, including Mistral AI, Nebius AI Studio, GroqCloud, and Together AI, among others. These services allow developers to utilize their models through a standardized OpenAI API structure. Each service has its own endpoint URL. Additionally, you will need to obtain an API key and model version/name that will need to be provided below. DISCLAIMER: REDCap/Vanderbilt has no affiliation with any of these AI services, and it cannot vouch for the security standards and practices of these services. It is highly recommended that you review their documentation and security information before you consider using them.
 - Locally-hosted OpenAI-compatible services: You can set up and host your own OpenAI server locally at your institution. This requires installing software that provides an OpenAI API on a local server. Some of the top options include LM Studio, LocalAI, GPT4All, and Ollama. All of these allow you to run open-source language models locally that utilize the OpenAI standard. Your local OpenAI installation will have its own endpoint URL, and additionally, you will need to obtain an API key (may not be applicable) and model version/name that will need to be provided in the REDCap user interface. Please consult the documentation at each respective website for setting up any of these.
- Major bug fix: When performing a data import with a value of "new" for the field "redcap_repeat_instance", an unexpected error might be returned or a value of "0" might be mistakenly saved in the project for that record's repeating instance number. Bug emerged in the previous version. (Ticket #250233)
- Bug fix: A fatal PHP error could possibly occur when the REDCap cron job is running if the AlertsNotificationsSender job is running for a project that has randomization enabled. Bug emerged in REDCap 14.7.0. (Ticket #250384)

- Bug fix: If using the Survey Base URL feature, the REDCap Base URL might mistakenly get replaced by the Survey Base URL in the "src" attribute for images embedded on data entry forms via the rich text editor (e.g., in a field label). Bug emerged in REDCap 14.9.0.
- Bug fix: In many places in a project when an instrument's survey title is different than its instrument label, it will now display both the survey title and instrument label to help differentiate different surveys that might happen to have identical survey titles and also to fix display issues when a survey has no title. (Ticket #250115b)
- Bug fix: On certain installations, some/all pages might mistakenly fail due to a fatal PHP error in the "rmccue\requests" and/or "mobiledetect/mobiledetectlib" third-party library. (Ticket #250192, #250119)
- Bug fix: Some text on the data entry page in a project that has the Data Resolution Workflow enabled might mistakenly not be displayed as translated but would be in English if the project is set to use a different language. (Ticket #250252)
- Bug fix: The CDIS settings page in the Control Center would prevent users from saving the settings on the page (Ticket #250005)
- Bug fix: When performing a data import in a MyCap-enabled project, the records in the data file would be successfully created in the project; however, only the last record in the data file would be seen on the MyCap Participant List page.
- Bug fix: When the Secondary Unique Field is enabled in a project, in which two records somehow already have the same value saved for the SUF (e.g., due to a bug in earlier versions that allowed that to happen via a race condition), if a survey or data entry form containing the SUF is saved but the SUF value was not changed while the user/participant was on the page, REDCap would display the recently-added "Value must be unique" error, thus forcing the user/participant to change or remove the already-existing value of the SUF for the current record. In this specific situation when duplicate values already somehow exist for the SUF, this is now considered permissible to maintain the duplicate values and not display the error. Going forward, the server-side checking of the SUF value will only occur if the user/participant has modified that field's value on the page. Bug emerged in REDCap 15.0.11 (LTS) and 15.1.1 (Standard). (Ticket #250117)
- Bug fix: When the Smart Variable [new-instance] is appended to [form-url] or [form-link] for a repeating instrument or repeating event, it would not always take the user to a new/not-yet-created instance for the given instrument but might instead take them to an existing instance if a new instance has been created after the link for [form-url] or [form-link] has been rendered. (Ticket #249309)
- Bug fix: When updating a language from an INI file on the Multi-Language Management setup page, some items would mistakenly be skipped.
- Bug fix: When using the Custom Event Label in a project, in some situations the Custom Event Label might not display correctly on the Record Home Page for a given record.
- Bug fix: When using the Quick Filter options on the Email Users page in the Control Center, the "Project Owners" button and "Users with Mobile App rights" button might mistakenly display users that do not fit those categories because they were not considering user roles if the users are in a role. (Ticket #249366)
- Bug fix: When viewing the Survey Notification dialog in the Online Designer, if a survey has no survey title defined, then no title would be displayed for the survey in the dialog, which would

make it confusing to use to know which survey is which. Now in this case it will instead display the instrument label in lieu of a survey title. (Ticket #250115)

- Bug fix: When viewing the Survey Notification dialog in the Online Designer, if a survey has no survey title defined, then no title would be displayed for the survey in the dialog, which would make it confusing to use to know which survey is which. Now in this case it will instead display the instrument label in lieu of a survey title. (Ticket #250115)
- Various CDIS-related bug fixes (Ticket #250505):
 - DocumentReference URL Correction: Fixed an issue where binary resource URLs (for notes) were formatted incorrectly under certain conditions.
 - OAuth2 Scope Update: Added the missing 'binary' scope for Cerner systems, ensuring binary resources are pulled correctly.
 - Header Requirement for Cerner: Implemented the necessary header for binary file requests in Cerner, preventing request failures.

Version 15.1.2(released on 2025-02-20)

- Bug fix: A fatal PHP error could occur in some situations when CDIS is attempting to fetch a user's FHIR access token from the REDCap database.
- Bug fix: A fatal PHP error might occur when using REDCap Messenger in specific situations.
- Bug fix: A few references to the old domain "redcap.vanderbilt.edu" still existed in some "User Guides and Wizards" listed on the "Help & FAQ" page. Those have been updated to have the "redcap.vumc.org" domain name.
- Bug fix: If survey invitations are scheduled (manually or via ASI) and then the survey instrument is completely deleted from the project, any scheduled (but unsent) invitations or reminders would mistakenly still get sent to the participant. (Ticket #249340)
- Bug fix: If using the Mandrill third-party email service for outgoing emails, in some situations (e.g., the Mandrill account runs out of tokens), emails would get "queued" in Mandrill and never get sent, but REDCap would count these emails as having been successfully sent. In this case, REDCap will appropriately note the emails as not successfully sent.
- Bug fix: In certain situations when performing a fresh installation of REDCap, the install page might fail with a fatal PHP error. (Ticket #249818)
- Bug fix: In rare situations when viewing the record status dashboard in a project, the page might crash due to a PHP error, especially if the Rapid Retrieval feature is enabled for the system. (Ticket #249892)
- Bug fix: On the "Patient Portal" page of the EHR launch in CDIS, single quotes in project titles were not handled correctly, leading to errors when adding a patient to a project.
- Bug fix: When a project contains Data Access Groups and a user modifies the "Page X of Y" drop-down list on the Record Status Dashboard after "[No Assignment]" has been selected in the DAG drop-down list, the page would reload but mistakenly have the "All" DAG option auto-selected.
- Bug fix: When a user account is deleted from the system via the Browse Users page in the Control Center, in which the user being deleted is a sponsor for one or more users, the deleted user would fail to be removed as a sponsor for the other users. (Ticket #249781)

- Bug fix: When a user attempts to send an announcement or message to a MyCap participant via the MyCap Participant List page, in which the announcement/message fails to send for whatever reason, the user would mistakenly not be notified about the failure, and the announcement/message would be logged in REDCap as if it had sent successfully.
- Bug fix: When an instrument PDF is generated/downloaded or is stored as a PDF Snapshot, if all the fields that follow a section header on the instrument are hidden by branching logic or action tags, in which those fields are the last fields on the instrument but are not the last fields of the whole PDF, the section header would mistakenly be displayed in the PDF when it should instead be hidden/not visible. (Ticket #249551)
- Bug fix: When executing Data Quality rules in multi-arm projects in which fields used in the rule's logic are utilized on some arms but not others, while at the same time one or more of the logic fields are used on repeating events, this could cause the DQ rule to return false discrepancies for records that don't exist in some arms. (Ticket #248394)
- Bug fix: When performing a data import for repeating instruments or repeating events, in which the "redcap_repeat_instance" value being imported begins with the text "new" but is not the exact word "new" (e.g., new-instance), the data would get imported but might mistakenly get orphaned in a way that it is not accessible for editing/deleting in the user interface afterward. The import process will now only allow a positive integer or the exact word "new" to be used as a valid value for "redcap_repeat_instance". (Ticket #250072)
- Bug fix: When the Double Data Entry feature is enabled in a project and a user is merging two records into a new third record on the Data Comparison Tool page, if a Text or Notes field is selected on that page, in which the selected field's value contains an apostrophe, it would cause a JavaScript error that would mistakenly prevent that value from being included as part of the merge process (unknown to the user) when creating the new record.
- Bug fix: When user account expiration emails are being sent out by the system, the outgoing email might mistakenly have the incorrect person/sponsor CC'd in the email in certain circumstances. (Ticket #249492)
- Bug fix: When using Multi-Language Management on an instrument where fields are embedded, fields embedded in a field that is excluded from MLM translation would mistakenly be invisible on the page.
- Bug fix: When using the CDIS Custom Mapping feature, the CSV import process for uploading new custom mappings might not work correctly due to the CSV file not being parsed successfully by CDIS. Additionally, if any import errors occurred during the CSV import process, those errors might mistakenly not be displayed to the user. (Ticket #248646)
- Bug fix: When using the Data Resolution Workflow and a custom Data Quality rule has real-time execution enabled, if the DQ rule is violated by a user via data entry on a form and then the user "verifies" the field's value, the Data Quality rule would mistakenly still show a violation as existing if the form is saved again. This only occurs if the form is a repeating instrument or is on a repeating event. (Ticket #249640)
- Bug fix: When using the Data Resolution Workflow and a custom Data Quality rule has real-time execution enabled, if the rule is violated by a user via data entry on a form and the user opens/closes/responds to a data query or verifies/de-verifies the field's value, the button in the "Data Quality rules were violated" dialog for that DQ rule would mistakenly not get updated

with the new number of comments and new icon representing the current state of the data query.

Version 15.1.1(released on 2025-02-13)

- Change/improvement: A new folder permission check was added to the Configuration Check page that tests to see if subfolders can be created under REDCap's temp directory (e.g., /redcap/temp/). Several features in REDCap require the need to create subfolders in REDCap's temp directory and to be able to read and write files in those subfolders.
- Bug fix: A race condition exists during the record randomization process in which two records being randomized simultaneously on a data entry form could cause a fatal PHP error to occur or possibly cause other issues if both records currently do not exist yet when the randomization process is performed.
- Bug fix: If a project has only one form and the current record does not exist yet, the project will normally try to bypass the Record Home page and redirect the user directly to the data entry form as a convenience. If Form Display Logic is being utilized and the logic always evaluates to false for new records in this case before they are created, this will cause an infinite redirect loop on the page and prevent users from creating new records using the user interface. (Ticket #249191)
- Bug fix: If a proxy server is utilized for REDCap and is configured on the General Configuration page in the Control Center, the AI features in REDCap would mistakenly not work. Bug emerged in REDCap 15.0.0. (Ticket #249474)
- Bug fix: In certain situations, some REDCap cron jobs might mistakenly not get executed for a very long time compared to when they are expected to run if some other prioritized jobs consistently get run by the REDcap cron for a disproportionate amount of time. The prioritization logic that determines which jobs are run and when they are run has been modified slightly so that REDCap will occasionally prioritize cron jobs that have not been run in a long time to ensure that all jobs get a chance to run closer to their expected interval.
- Bug fix: In specific unknown circumstances, REDCap might mistakenly crash due to a "Detection\MobileDetect" PHP class not being found.
- Bug fix: In very specific cases in multi-arm projects where one arm contains only one event while then other arms do not contain any events, the "Download arms (CSV)" option on the "Define My Events" page would display a confusing error message when clicked, thus preventing the user from downloading the CSV file. (Ticket #248975)
- Bug fix: When a survey has the setting "Show or hide the Submit buttons" set to "Always hide", if any field values change while viewing the survey page, and then the survey page is closed (browser is closed or tab is closed), the "Leave site?" prompt would be displayed. The prompt should not be displayed in that situation since there is no way to submit the survey page. (Ticket #249236)
- Bug fix: When a user is using Clinical Data Pull for CDIS, the EHR Launch process would mistakenly fail due to a fatal PHP error.
- Bug fix: When creating new arms in a project via CSV upload on the "Define My Events" page or via the API, it would mistakenly allow users to add arms with an arm number higher than 99, which is supposed to be the maximum possible value. Note: If users have done this previously, there should not be any negative consequences in the project. (Ticket #239179)

- Bug fix: When importing data using the Data Import Tool, in which out-of-range values are being imported for text fields with min/max validation ranges, the orange warning would mistakenly not be displayed on the page for those fields. (Ticket #249303)
- Bug fix: When the Secondary Unique Field is enabled in a project and multiple users or survey participants are submitting the same value for the SUF at nearly the same time, the SUF uniqueness check would fail to catch duplicates because of a lack of server-side checking when a form/survey is submitted. To prevent duplicate values in the future for the SUF in this situation, REDCap now employs post-submission server-side checking, in which it will not save the duplicate value for whoever submits their page last, and additionally, it will display a warning popup letting them know why their value could not be saved and for them to enter a different value for the field. (Ticket #248036, #248104)
- Bug fix: When using Multi-Language Management in a project where alerts are translated via MLM, if the alert is set to send immediately (rather than with a delay), the alert might be sent not with the translated text but instead with the original default language text. (Ticket #249344)
- Bug fix: When using the Background Data Import process, in which the records being imported contain hundreds or thousands of repeating instances within each record, database performance could be impacted due to inefficient query methods during the process of uploading the data file. (Ticket #248023)

Version 15.1.0(released on 2025-02-06)

- Major security fix: A Stored XSS (Cross-site Scripting) vulnerability was discovered in which a malicious user could potentially exploit it by inserting custom HTML and JavaScript in a specially crafted way into any user input that is then output on a page in REDCap (e.g., field labels, survey instructions, data displayed on a report), specifically targeting the "href" attribute of a hyperlink. This vulnerability can be exploited by authenticated users and also by survey participants entering data. Bug exists in all REDCap versions.
- Major security fix: An SQL Injection vulnerability was found on the User Rights page, in which a malicious user could potentially exploit it and execute arbitrary SQL commands on the database by manipulating an HTTP request in a specially-crafted way when adding new User Roles. This can only be exploited by authenticated users. Bug exists in REDCap 10.3.3 and higher.

Version 15.1.0(released on 2025-02-06)

- Minor security fix: An Insecure Direct Object References (IDOR) vulnerability was found, in which a malicious user could potentially exploit it by manipulating the URL of the Sponsor Dashboard page in a specially crafted manner. This could allow the attacker to view a sponsor's Sponsor Dashboard page (and view the names and emails of all their sponsees that they sponsor) and could allow the attacker to request actions on behalf of the sponsor, such as requesting that a sponsee's password be reset, that the sponsee be suspended, etc. Administrators should be allowed to view a sponsor's Sponsor Dashboard, but regular users should only be able to view their own Sponsor Dashboard. Note: This vulnerability is only exploitable if the User Sponsor functionality is being utilized in REDCap. (Ticket #249102)

- New API method: "Export a Survey Access Code for a Participant" - Obtains the survey access code for a specific record on a specific survey instrument (and for a specific event, if a longitudinal project) - assumes the record already exists. The record and instrument parameters must be provided. If longitudinal, the event_id must be provided. If a repeating instrument/event, the instance number must be provided. If the user making the API call does not have 'Survey Distribution Tools' privileges, they will not be able to use this method, and an error will be returned. If the specified data collection instrument has not been enabled as a survey in the project, an error will be returned.
- New developer method: REDCap::getSurveyAccessCode() - Obtains the survey access code for a specific record on a specific survey instrument (and for a specific event, if a longitudinal project) - assumes the record already exists. The record and instrument parameters must be provided. If longitudinal, the event_id must be provided. If a repeating instrument/event, the instance number must be provided.
- New feature: CDIS Access Token Priority Rules Manager
 - This new optional feature in CDIS-enabled projects allows project owners and administrators to define prioritization rules for selecting FHIR access tokens used to fetch data from the EHR system. This feature is useful when users who possess a FHIR access token in a CDIS project have varying EHR data permission levels, in which priority rules can be defined to tell CDIS how to prioritize the use of specific users' access tokens when pulling data via the REDCap cron job to pull the most data in an efficient manner from the EHR.
 - The rules manager page can also be used to completely prohibit some users, even if they have an active FHIR access token, from pulling EHR data in real time (i.e., live using the REDCap user interface) using a "Disallow" option.
 - When configured, these rules override the default token selection strategy; if no rules are defined, the existing behavior is maintained. A new rules manager page is accessible from the project home page and the user rights page. Both pages now include a brief description of the feature along with a link to the rules manager.
- Improvement: More survey-specific status indicators, specifically icons for e-Consent and Stop Actions, have been added to the "Enabled as survey" table column in the instrument-view of the Online Designer to denote that the survey has e-Consent enabled and has Stop Actions in the survey, respectively. Additionally, the other status indicators (i.e., for Survey Auto-Continue and Repeating Surveys) have been made slightly smaller to accommodate space for the newer icons in that column.
- Improvement: New methods exist in the Online Designer for modifying an instrument's label and unique instrument name. In the field-view page in the Online Designer, the form name is displayed and clickable at the top of the page, and when clicked, it displays a popup to allow a user to modify the instrument label and/or the unique instrument name. Additionally, clicking the Rename option from the "Choose action" drop-down list next to an instrument in the instrument-view page of the Online Designer will display the popup with the same options. This allows users the ability to modify both or either attribute independently of each other and prevents REDCap from automatically changing the unique instrument name whenever modifying the instrument label while in development status.

- Major bug fix: When using the SFTP file storage option for any of the three features that stores files onto an external file server (e.g., e-Consent Framework, Record-level Locking Enhancement, and File Upload field enhancement), the process would mistakenly fail due to a fatal PHP error due to an underlying change in a third-party PHP library. Bug emerged in 15.0.8 (Standard) and 15.0.9 (LTS). (Ticket #248948)
- Change/improvement: Various additional optimizations were made to the randomization process to make it quicker and less intensive on the database.
- Change/improvement: When randomizing a record, in which the "redcap_module_randomize_record" is being called by an External Module and returning a non-null value, the validation process of the hook results was not very efficient and could cause the randomization process to be somewhat slow for certain projects. The randomization process has been optimized to be faster. (Ticket #248452)
- Bug fix: For CDIS, an incorrect CDP Dashboard link was displayed in CDM Projects.
- Bug fix: For CDIS, the Clinical Data Mart fetch process might fail silently due to a PHP warning.
- Bug fix: If a MyCap-enabled PROMIS instrument is part of a Health Measure battery, the instrument was not functioning in a series as repeating for selected events.
- Bug fix: The "Require reversal" setting for the "Spatial Memory" active task for MyCap should not have been displayed on the MyCap task settings page for that specific active task because it was never utilized on the MyCap mobile app side.
- Bug fix: When MLM is active on a form/survey that contains Smart Charts in translatable labels, the Smart Charts would get lost during rendering of the field translations. (Ticket #248576)
- Bug fix: When downloading a PDF of a survey instrument or when REDCap is storing a PDF Snapshot of a survey instrument, certain HTML tags (most notably BR tags) that exist in the survey instruction text might mistakenly get stripped out before being properly processed into line breaks, etc. for the PDF. Bug emerged in REDCap 14.5.0. (Ticket #243240b)
- Bug fix: When exporting an individual instrument's translations on the MLM setup page, the settings from the MLM export dialog were not properly observed. (Ticket #249036)
- Bug fix: When translating text via MLM for section headers and matrix headers, "line breaks" were not properly preserved when MLM is active on a form/survey. (Ticket #249027)
- Various CDIS-related bug fixes.