

Version 8.11.9 - (released 4/12/2019)

BUG FIXES & OTHER CHANGES:

- **Major bug fix:** The DateDiff+Today/Now cron job would sometimes crash due to a fatal PHP error caused when processing the [survey-link] Smart Variable in the message of an Automated Survey Invitation. This would occur only under very specific conditions, and it would result in many projects/records not having their ASI datediff logic being processed, thus the ASI's survey invitations would not get successfully scheduled in these cases and might cause invitations from other unrelated projects not to get scheduled either. (Ticket #61346, #61213)
- **Major bug fix:** When a project is using a public survey that has "Save & Return Later" enabled with "Allow respondents to return without needing a return code" enabled, then if a participant clicks the "Save & Return Later" button on the public survey and leaves the survey open on the "Your survey responses were saved!" page while another participant partially or fully completes the survey, and then if the original participant clicks the "Continue Survey Now" button on the "Your survey responses were saved!" page, then the original participant will mistakenly create a brand new record/response whenever they submit survey page again after returning. (Ticket #61764)
- Improvement: Added links to "select all" or "deselect all" for the checkbox options on the "Copy Project" page.
- Bug fix: When viewing the Field Comment Log popup on a data entry form, if the username in the User column is very long, it would mistakenly not wrap in the table but instead would overflow into the next column. Note: This was only partially fixed in a previous version. (Ticket #60923)
- Bug fix: The page footer on project pages would sometimes not be displayed at the very bottom of the page if the left-hand menu was taller than the right side of the page.
- Bug fix: In a project that has sent many survey invitations (e.g., >50,000), it could cause both the Public Survey Link page and the Participant List page to load very slowly and in some cases never fully load at all.
- Bug fix: When using the Clinical Data Pull, it would mistakenly make a POST request (instead of a GET request) to the Conformance Statement (metadata) endpoint. This would only cause issues with certain EHRs/configurations. (Ticket #61549)
- Bug fix: For some pages in REDCap, the PHP constant "PAGE" might mistakenly get set as "/index.php" rather than "index.php", which could cause problems for existing External Modules or hooks that must utilize the value of PAGE to determine the current location. This has now been changed so that any slashes at the beginning of PAGE will be trimmed off before it gets defined. (Ticket #61776)
- Bug fix: When exporting data in CSV Labels format for projects whose language is set to a language other than the default English, it would mistakenly always display *all* the choice labels for checkbox fields in the export file, rather than outputting the choice labels for only the checkbox options that had been selected for that field. (Ticket #60620)
- Change: Added note about e-Consent feature on the REDCap Home Page.

- Bug fix: When the Double Data Entry module is enabled in a project, and the current user is DDE person #1 or #2, it would not display the form status icons with the correct color on the left-hand menu when viewing a record but would instead mistakenly always display them as gray status icons. (Ticket #57484)
- Change: More explanatory info was added on the Survey Settings page for Question Numbering, Question Display Format, and Response Limit.
- Bug fix: The DateDiff+Today/Now cron job would mistakenly get run for projects that had been deleted in the past 30 days. It now ignores any projects that have been deleted by a user.
- Bug fix: When using the e-Consent Framework for a survey, the resulting PDF of the consent survey would mistakenly not obey the project-level PDF Customization setting to show or hide the REDCap logo/URL under specific conditions. This would vary depending on if certain settings were set for the e-Consent Framework, such as having first/last name fields defined or consent version. (Ticket #58221)
- Bug fix: When using the e-Consent Framework for a survey, if custom PDF header text is set under the project-level PDF Customization settings, it would mistakenly not get displayed on the resulting PDF of the consent survey.

Version 8.11.8 - (released 4/4/2019)

BUG FIXES & OTHER CHANGES:

- **Minor security fix:** If a malicious user is able to find the URL endpoint at which REDCap Messenger's message history can be downloaded as a CSV file for a given conservation, they could potentially exploit it by manipulating the query string of the HTTP request, which might allow them to download other users' conversations to which they do not have access.
- **Minor security fix:** If the hook functions file (as defined on the General Configuration page in the Control Center) begins with "http" or "ftp", then REDCap will not attempt to call/include that path.
- **Major bug fix:** When using Smart Variables in the conditional logic of an Automated Survey Invitation, in which the logic also contains a datediff function using "today" or "now" as a parameter in the function, it would often cause the ASI cron job to not correctly parse the logic and thus not schedule the invitations at the correct time, or it might mistakenly cause the cron job to crash unexpectedly without finishing scheduling all other ASIs for other surveys.
- Bug fix: When using branching logic or a calculation that contains a X-event-name or X-instance Smart Variable connected, in which it references an event or instance that does not exist (e.g., [previous-event-name] while on the first event), it would not fail gracefully but would mistakenly display an error message saying that the logic/calculation is incorrect.
- Bug fix: When completing an Adaptive survey or Auto Scoring survey from the REDCap Shared Library, the "redcap_survey_complete" hook would mistakenly not pass a value for the "record" and "response_id" parameters in the hook. (Ticket #60668)
- Bug fix: If the Clinical Data Pull feature is enabled for a project, it would still mistakenly display "DDP" (instead of "CDP") in a couple places in the project (Record Status Dashboard, Logging page).

- Bug fixes and updates for External Modules framework
- Bug fix: If a multi-page survey contains a matrix of fields, in which those fields are used in branching logic or in a calculation on another page on that survey, it would mistakenly display the matrix fields on the survey page containing the fields that reference them in their logic/calc. (Ticket #61134)
- Bug fix: A single LOINC lab was mistakenly missing from the field mapping page for Clinical Data Pull.
- Bug fix: If a multi-page survey contains a page in which every field on the page is a Descriptive field and also has branching logic, it would mistakenly always skip the page regardless of whether all the fields were hidden by branching logic.
- Bug fix: When the redcap_survey_identifier field is displayed in a report or data export, it would mistakenly only display the participant identifier value on the first event of a given record and would not display it if the first instrument was a repeating instrument. It now always displays the participant identifier value in the redcap_survey_identifier column of a report/export for every row/item for a given record. (Ticket #59811)
- Bug fix: The FHIR web service requests made by the Clinical Data Pull module would mistakenly make calls to the FHIR "Observation" endpoint using a slightly incorrect format according to HL7's FHIR standards. This does not appear to affect CDP when interfacing with Epic but when interfacing with other EHR vendors (notably Cerner). (Ticket #61150)
- Bug fix: The code for generating the Survey Queue setup table was mistakenly referencing variables that had not been defined. However, this did not affect anything. (Ticket #61030)
- Bug fix: If the setting "Auto-suspend users after period of inactivity" is enabled, and some users who are suspended have not had any activity within the designated period of inactivity, then if the user has a sponsor and the user's sponsor puts in a request to have them unsuspended, the user would mistakenly get re-suspended within a day. (Ticket #58909)
- Bug fix: If a normal user is copying a project and is also in a User Role, it would mistakenly not give them their current role's privileges in the new project but instead would give them the privileges that they had before being put into a role in the copied project. (Note: The user will always be removed from the user role in the new project and will always be given User Rights and Project Setup/Design Privileges.) (Ticket #55767)
- Bug fix: If an administrator is viewing the table of users on the Browse Users page, if they check the checkbox next to a user and then click the "Fetch for selected" link (under "Time of latest password reset"), it would display an erroneous error message about no users being selected if all the selected users are suspended. It should instead work for all table-based users regardless of whether the users are suspended or not. (Ticket #60625)
- Change: The form status field on a data entry form has a blank drop-down option which serves no purpose. The blank option has been removed. (Ticket #60849)
- Bug fix: When exporting an Project XML file containing data from a project, if any multiple choice option labels contain ASCII control codes, it would mistakenly prevent the data from being restored completely in the new REDCap project being created. (Ticket #34968)
- Change: The Configuration Check page in the Control Center now ensures that the REDCap server can communicate with the Google reCAPTCHA API service, if enabled. (Ticket #60764)

- Bug fix: The plugin/module method named "REDCap::evaluateLogic" might mistakenly not interpret logic correctly if it contains checkbox fields and if the project is classic/non-longitudinal. (Ticket #60998)
- Bug fix: The upgrade page would attempt to display a non-existent icon in a button on the page. (Ticket #60560)
- Bug fix: Fixed a page layout issue that occurred at specific page widths. (Ticket #60317)

Version 8.11.7 - (released 3/24/2019)

BUG FIXES & OTHER CHANGES:

- **Medium security fix:** A Cross-Site Scripting (XSS) vulnerability was discovered on many pages, in which a malicious user could potentially exploit it by manipulating the query string of an HTTP request.
- **Major bug fix:** When the Clinical Data Pull (CDP) is enabled on a project, if extra data is imported from the EHR for several patients at one time via the cron job (after a user has already pulled some patient data from the EHR for those patients), in certain cases it might mistakenly not clear out data from another patient whose data is being fetched and thus inadvertently add one patient's data to another patient.
- Bug fix: Some data exports were not getting correctly logged as "Data Export" on the project logging page, specifically when downloading PDFs with data and downloading an "exported data file" or an "exported syntax file". It now lists "Data Export" as the proper Action for these events and also displays them when filtering the logging page by event="Data Export". (Ticket #59278)
- Bug fix: When updating the value of the Secondary Unique Field or the designated survey email field for a project that is either longitudinal or has repeating events/forms, it would mistakenly not log the value change across all events/instances as it should since a new value for those fields gets propagated to every event/instance in the project to keep them all in sync. They now all get logged as separate logged events, which allows the value to always appear in the Data History widget on the data entry page. (Ticket #59586)
- Bug fix: When performing piping of a field with the Smart Variable [X-instance] appended to the field variable, it would sometimes mistakenly not perform the piping at all. (Ticket #59671)
- Bug fix: When performing piping of the Smart Variable survey-time-completed or survey-date-completed with the parameter ":value" appended to the end of it, it would mistakenly throw an error on a survey or data entry form if it was being used in branching logic or in a calculated field. (Ticket #59885)

Version 8.11.6 - (released 3/15/2019)

BUG FIXES & OTHER CHANGES:

- **Minor security fix:** A Cross-Site Scripting (XSS) vulnerability was discovered on certain pages, in which a malicious user could potentially exploit it by manipulating the query string of an HTTP request.

- Bug fix: Incorrect text was displayed in the Edit User popup on the User Rights page that mistakenly referenced "Clinical Data Pull" instead of "DDP" in projects with DDP Custom enabled.
- Change: Support was added to External Module framework to support return values for hooks. Specifically, the hook `redcap_custom_verify_username` was modified so that if it returns result "status" of "1" or TRUE, it will display a green message box containing the return "message", whereas if return "status" is "0" or FALSE, it will display a red message box containing the return "message".
- Bug fix: If a survey that has Survey Auto-Continue enabled is a repeating instrument and is then followed by another survey that is a repeating instrument, then if respondent completes the first survey, it will mistakenly take them to repeating instance #2 of the following survey, thus skipping over instance #1.
- Bug fix: Fixed typo in Clinical Data Pull error message. (Ticket #59005)
- Bug fix: When launching patients in the EHR embedded window for the Clinical Data Pull, in certain situations, especially if the user does not have access to all the FHIR end-points (often due to a limitation in their EHR privileges), it might mistakenly cause the FHIR access token in the database to get removed for that user for that patient, thus resulting in an error message to the user stating that there are no available access tokens that can be used.
- Bug fix: When using the Data Resolution Workflow, the Resolve Issues page might mistakenly display negative counts for certain data query statuses.
- Bug fix: When importing data where the field "redcap_repeat_instance" has a numerical value but the current event/form in the data (i.e., CSV row) does not exist on a repeating instrument or repeating event, it would mistakenly allow the data to be imported, but the imported data would immediately be orphaned since that data would not be accessible in the user interface. It now gives an error for this situation. This issue was supposedly fixed in the previous version (and the version before that), but mistakenly it would sometimes display a false positive for this issue and return the error under legitimate circumstances, specifically when only checkbox fields were being imported (not including the record ID field, event name, or repeat fields). (Ticket #57699)
- Fixes and updates for the External Module Framework
- Bug fix: When viewing the REDCap login page on a mobile device (device width <575 pixels), it would mistakenly display a "Go to My Projects" button on the page. (Ticket #59494)
- Bug fix: When using the Data Resolution Workflow in a project and opening a data query on a field on a data entry form, the floating Save button that appears next to the field when the field is selected was mistakenly not being displayed in the correct location on the page if the field, specifically when navigating from a link on the Resolve Issues page for a radio button field. (Ticket #59373)
- Bug fix: When using the "Test logic with a record" feature when setting up an Automated Survey Invitation, on certain occasions it might return an incorrect response. (Ticket #59030).
- Bug fix: The HTML character code " " might mistakenly get displayed in the text of PDFs downloaded for an instrument but only if downloading the blank PDF (without data). (Ticket #58790)
- Bug fix: When using the Randomization module with strata fields, in which one or more strata fields exist as part of a matrix of fields, it would mistakenly cause a JavaScript error to occur on

the data entry form where the strata fields are located, thus preventing the form from being saved successfully. (Ticket #59639)

- Bug fix: The field count for projects on the My Projects page was mistakenly not including Descriptive fields. This could be confusing for users. It now includes all fields in the field count now. (Ticket #60004)
- Bug fix: When performing piping of a field with the Smart Variable [next-event-name], [previous-event-name], or [event-name] prepended to the field variable, it would sometimes mistakenly not perform the piping at all. (Ticket #44559)

Version 8.11.5 - (released 2/21/2019)

BUG FIXES & OTHER CHANGES:

- Bug fix: When there exist a lot of branching logic and several matrices of fields together on a survey page or data entry form, the page will scroll very slowly for the user. Bug emerged in REDCap 8.11.0. This issue was improved upon in the previous version but still existed for instruments with many hundred fields or more. (Ticket #58443)
- Bug fix: When downloading the CSV file of Automated Survey Invitations on the Online Designer, the file's filename might mistakenly begin and end with an apostrophe, thus preventing it from being opened correctly on the user's computer. (Ticket #58445)
- Bug fix: If a matrix of fields exists on a data entry form, then the matrix's floating headers might mistakenly get partially obscured by the floating box of Save buttons that appear at the top right of the page. (Ticket #58484)
- Bug fix: When importing data where the field "redcap_repeat_instance" has a numerical value but the current event/form in the data (i.e., CSV row) does not exist on a repeating instrument or repeating event, it would mistakenly allow the data to be imported, but the imported data would immediately be orphaned since that data would not be accessible in the user interface. It now gives an error for this situation. This issue was supposedly fixed in the previous version, but mistakenly in the previous version it would sometimes display a false positive for this issue and return the error under legitimate circumstances. (Ticket #57699)
- Bug fix: The example Java code generated by the API Playground for the "Export Records" API method contained an error. (Ticket #58488)
- Bug fix: Some specific PROMIS assessments that are downloading from the REDCap Shared Library as part of a battery might be mistakenly labeled as "Auto-scoring" or "Adaptive" in the Online Designer after being downloaded when such instruments are actually neither "Auto-scoring" nor "Adaptive". (Ticket #58488)
- Bug fix: If using the Survey Auto-Continue feature to continue to a survey that is a repeating survey instrument, if any repeating instances have already been created for that repeating survey, then after completing the first survey, it would mistakenly say that the repeating survey has already been completed. It should instead advance the respondent to the next available repeating instance of the repeating survey so that a new repeating instance can be added via survey. (Ticket #58624)

- Bug fix: When exporting an Project XML file containing data from a project, if any text field values contain ASCII control codes, it would mistakenly prevent the data from being restored completely in the new REDCap project being created. (Ticket #34968)
- Bug fix: Fixed a typo in the Twilio configuration instructions. (Ticket #58731)
- Bug fix: When downloading the Project XML file (metadata only) for a project, it might mistakenly begin and end the XML filename with an apostrophe.

Version 8.11.4 - (released 2/15/2019)

BUG FIXES & OTHER CHANGES:

- Text changes: The “DDP on FHIR” feature was renamed “Clinical Data Interoperability Services”. The main (and currently only) feature under the “Clinical Data Interoperability Services” umbrella of services is the “Clinical Data Pull” (CDP). Other services will be added in future versions of REDCap, such as “Clinical Data Mart”.
- Bug fix: After the initial schedule is generated for a record on the Scheduling page, if the user modifies one of the dates in the schedule so that it is the same as the maximum date or minimum date (if a min/max is set for an event), then on certain occasions it would mistakenly display a popup saying that the new date is out of range when in fact it is not.
- Bug fix: When there exist a lot of branching logic and several matrices of fields together on a survey page or data entry form, the page will inevitably get slower and slower as more and more branching logic gets triggered on the page during data entry. This could eventually cause the page to ultimately become unresponsive in certain situations. Bug emerged in REDCap 8.11.0. (Ticket #58019)
- Bug fix: Several project pages might appear too narrow for specific screen sizes. Bug emerged in REDCap 8.11.2.
- Bug fix: Updated an outdated item on the Help & FAQ page regarding how often the ASI cron job runs (Ticket #58205).
- Bug fix: When using the @DEFAULT action tag to have a date/datetime field reference itself from a previous repeating instance on a repeating instrument, it would mistakenly not pipe in the value correctly on the first instance of that instrument, thus mangling it with a value of "[]" or "00-00-0000" or other non-sensical value. (Ticket #17157)
- Bug fix: When using the Data Resolution Workflow in a project and opening a data query on a field on a data entry form, the floating Save button that appears next to the field when the field is selected was mistakenly not being displayed in the correct location on the page. (Ticket #57905)
- Bug fix: For specific server configurations and project sizes, the project Logging page might take an exorbitant amount of time to load when initially loading the page. (Ticket #58251)
- Bug fix: When importing data where the field "redcap_repeat_instance" has a numerical value but the current event/form in the data (i.e., CSV row) does not exist on a repeating instrument or repeating event, it would mistakenly allow the data to be imported, but the imported data would immediately be orphaned since that data would not be accessible in the user interface. It now gives an error for this situation. (Ticket #57699)

- Bug fix: When calling the API method "Export Survey Participants" while utilizing the designated survey email field in the project, it would mistakenly omit the values for the participant's email address or record name in the API response. (Ticket #58349)
- Bug fix: When calling the API Method "Export Records" with the "format" parameter set to "odm", it would mistakenly not include all files from File Upload and Signature fields, which are expected to be base64-encoded inside the ItemDataBase64Binary tags in the resulting XML. (Ticket #54301)
- Bug fix: On the To-Do List page in the Control Center, if an administrator clicks the icon to add a comment to a To-Do List item, the "Submit" button in the resulting popup displayed would not be sized or positioned correctly. (Ticket #54301)

Version 8.11.3 - (released 1/31/2019)

BUG FIXES & OTHER CHANGES:

- **Improvement:** When copying a project, there are now separate options for copying users and/or user roles. In previous versions, these were combined as a single choice "Copy users and roles", but now users may decide to copy one or the other. (Ticket #36687)
- Bug fix: If an individual project was set to "Offline" status by an administrator, any survey invitations in that project that had been scheduled to send would mistakenly still send. Invitations should not be sent out unless the project is in "Online" status. (Ticket #57045)
- Change: If the current date or current timestamp is used in the REDCap upgrade script with regard to storing the date of the upgrade and when setting the send-time of system notifications via Messenger, it will now use the database's date and time at the time of the SQL script execution instead of the hard-coded values generated by the web server on the Upgrade page. (Ticket #57079)
- Bug fix: If upgrading from 8.11.0 or 8.11.1 to 8.11.2, it would mistakenly provide some SQL to fix database errors after completing the upgrade. (Ticket #57103)
- Bug fix: Many API requests would mistakenly return a "503" HTTP status code error on certain errors when it should instead return a "400" error.
- Bug fix: When downloading a PROMIS Battery from the REDCap Shared Library, it would mistakenly not display the battery survey pages according to the PROMIS guidelines, in which the battery title should be displayed on every page (not the title of each individual assessment) and that the survey instructions are only seen on the first assessment of the battery. This will only affect batteries that will be downloaded in the future from the Shared Library. Also, although these particular title and instructions settings will be set when a battery is downloaded, it will always be possible for a user to modify the title and/or instructions afterward, if they wish (though it is not preferred).
- Bug fix: When a participant completes a PROMIS adaptive survey or PROMIS auto-scoring survey that finishes after only one question, it might mistakenly not save the survey completion time of the survey response.
- Change: Added a link to the Codebook page on the Data Import Tool instructions to allow users to more easily find the raw coded values for multiple choices fields that they wish to import.

- Change: The output of the REDCap Cron Job now displays the current server time on which each job completed. The timestamp is listed in parentheses after the word "done!" for each job.
- Bug fix: The last column in the Participant List table might not be displayed fully. (Ticket #57184)
- Bug fix: Under certain conditions, REDCap Messenger's "System Notifications" section would mistakenly not display the messages for that section in the Messenger panel. (Ticket #57247)
- Bug fix: When selecting to view Report B on the "Data Exports, Reports, and Stats" page for a longitudinal project, if the report is displayed as a multi-page report and specific events have been selected as a filter by the user, then if the user selects another report page to view using the page drop-down selector, it would mistakenly lose the event filter for the report (because the "events" parameter would not get included in the URL) and thus would display rows from every event on the page. (Ticket #57254)
- Bug fix: For certain server configurations, when REDCap is creating a cache of a project's record list in a database table (as an invisible, back-end process to the user), it might mistakenly doubly UTF8-encode some record names, resulting in a database query error, thus causing the record list caching process to constantly fail and possibly display an outdated list of records in the user interface (e.g., Record Status Dashboard). (Ticket #56523)
- Change: The "Survey Settings" page in the Online Designer now gives slightly more emphasis to the "e-Consent Framework" feature to make it easier for users to find it on the page.
- Bug fix: If a Custom Record Status Dashboard has filter logic that references fields from a repeating instrument, it might mistakenly return an empty set, thus resulting in a dashboard with no records displayed, when it is known that some records should be displayed. Bug emerged in REDCap 8.11.2 (Standard). (Ticket #57234)
- Bug fix: The lab field "Ketones Ur-mCnc" (LOINC 49779-2) was mistakenly missing from the DDP on FHIR list of mappable fields.
- Bug fix: The cron job "AutomatedSurveyInvitationsDatediffChecker2" might mistakenly crash if SQL fields are piped into the email subject or email message of Automated Survey Invitations that contain datediff + today or now in the ASI conditional logic. (Ticket #57356)
- Change: When a user clicks the "Help & FAQ" link on a project's left-hand menu, it will now load the "Help & FAQ" page in a new window to prevent the user from losing their current page context in the project as they view the "Help & FAQ" page.
- Bug fix: When editing the project title, purpose, etc. in the Modify Project Settings popup on a project's Project Setup page, if Research is selected for Purpose, then the fields for entering the Name of the P.I. would mistakenly not wrap together, thus leaving the last name field on a row by itself. (Ticket #57417)
- Bug fix: When exporting Report B (i.e., without creating a new report from the selections of Report B) on the "Data Exports, Reports, and Stats" page, if a specific instrument is not selected but "All instruments" are left selected, it might mistakenly not list any fields in the resulting stats package syntax file (for R, SAS, Stata, SPSS), thus preventing the exported data from loading properly in the stats package.
- Bug fix: On the Cron Jobs page in the Control Center, the suggested command to set up the REDCap cron job on a Windows server was mistakenly not escaping paths that contained a space in them. This has been fixed to present the correct command. (Ticket #57426)

Version 8.11.2 - (released 1/24/2019)

BUG FIXES & OTHER CHANGES:

- **Major bug fix:** When a project is using a public survey that has "Save & Return Later" enabled with "Allow respondents to return without needing a return code" enabled, then if a participant clicks the "Save & Return Later" button on the public survey and leaves the survey open on the "Your survey responses were saved!" page while another participant partially or fully completes the survey, and then if the original participant clicks the "Continue Survey Now" button on the "Your survey responses were saved!" page, then the original participant will mistakenly have the other participant's response loaded for them on the survey page.
- **Change/improvement:** When using the e-Consent Framework, a new option was added to the Survey Settings page: "Allow e-Consent responses to be edited by users?". If left unchecked (default), then users will not be able to edit a completed e-Consent response (although it can be locked or e-signed by a user with locking/e-signature privileges). If the setting is checked, then users will be able to modify the survey response so long as they have "Edit survey responses" privileges for that survey instrument. Note: If the e-Consent survey response is modified after being completed, this will not affect the e-Consent PDF file that was stored in the File Repository.
- **Change/improvement:** In the popup dialog for moving a project to production, it now displays the number of records in the project to help the user decide if they wish to keep all data or have all records deleted when moving to production.
- **Bug fix:** When using `REDCap::getData()` in a module, plugin, or hook, in which some filter logic is passed as a parameter and is expected to return an empty result set (because there are no matches for the filter logic), it might instead mistakenly return results with blank values for all fields being returned (with the exception of the record ID field and pseudo-fields, such as `redcap_event_name`), even though those fields might actually have non-blank values. (Ticket #56806)
- **Bug fix:** When a user selects to display "ALL" records on the Record Status Dashboard in a project containing a large amount of records, if the page ends up crashing due to too many records being displayed, then the user would mistakenly never be able to view the Record Status Dashboard again without it crashing (because it remembers to show all records the next time the page is visited). (Ticket #56662)
- **Bug fix:** If a calc field utilizes Smart Variables in its calculation, and a user performs a data import or executes Data Quality rule H, then other calculated fields in the project might have their value mistakenly set as the calculated result of the other calc field, thus overwriting the correct value of that other calc field. This is rare but can occur in specific situations depending on the structure of the project and the order of the calc fields involved. (Ticket #56731)
- **Bug fix:** The Google reCAPTCHA box on the Public Survey Link page might cause the "Link Actions" and "Link Customizations" sections to be misaligned on the page for some non-English languages. (Ticket #56868)

- Bug fix: If the Data Resolution Workflow is enabled in a project, then incorrect language is displayed inside the "Data Quality rules were violated!" popup on a data entry form whenever a Data Quality rule has "real time execution" enabled.
- Bug fix: When viewing the Field Comment Log popup on a data entry form, if the username in the User column is very long, it would mistakenly not wrap in the table but instead would overflow into the next column.
- Bug fix: When a user attempts to access a REDCap project that has been set to "Offline" on the "Edit a Project's Settings" page by an administrator, it would mistakenly display the default system-offline message rather than the project-offline message. (Ticket #56938)
- Bug fix: Certain project pages might not display correctly on tablets (causing the main right-hand window to display below the left-hand menu), especially if the project's language is set to a non-English language. (Ticket #56872)

Version 8.11.1 - (released 1/23/2019)

BUG FIXES, & OTHER CHANGES:

- Bug fix: If running REDCap on PHP 5.5, the Online Designer page would mistakenly not load. Bug emerged in REDCap 8.11.0. (Ticket #56859)

Version 8.11.0 - (released 1/22/2019)

NEW FEATURES, BUG FIXES, & OTHER CHANGES:

- **New feature: Microsoft Azure Quick Start** – Method for quickly deploying a full, production-ready REDCap server environment on Microsoft Azure Cloud Platform. This includes a completely automated way for deploying the server infrastructure as well as a fully automated installation of REDCap. For details, see the top of the [page https://projectredcap.org/software/requirements/](https://projectredcap.org/software/requirements/) (Note: The REDCap "Easy Upgrade" feature does not yet work with Azure but is expected to in a later REDCap version).
- **New feature: The "Survey Link Lookup" external module was integrated into REDCap**
 - This feature allows administrators to take a survey URL and find and navigate to the corresponding project, survey, record and data entry form. The Survey Link Lookup page is located under the "Projects" section on the left-hand menu in the Control Center.
 - If this external module was already enabled on the REDCap installation, it will automatically be disabled during the upgrade process to prevent any possible conflicts.
- **New feature: The "REDCaptcha" external module was integrated into REDCap**
 - This feature allows users to utilize the Google reCAPTCHA functionality to help protect public surveys from abuse from "bots", which are automated software programs that might enter trash data into surveys. The feature must first be enabled at the system level on the Modules/Services Configuration page in the Control Center since it requires an administrator generate a new Google API pair of keys that will be used for this functionality. Once the site key and secret key are set, users will then be able to choose to enable the Google

reCAPTCHA functionality on the Public Survey page in their project, after which the public survey will display the reCAPTCHA checkbox and "I'm not a robot" text on a survey page prior to allowing the participant to view the public survey. This feature is not employed on any private survey links because those are unique to a record and thus would never be made publicly available like a public survey link would.

- Note: A survey participant will never have to pass the reCAPTCHA test more than once per day on a given device/computer.
- Additional note: If this external module was already enabled on the REDCap installation, it will NOT automatically be disabled during the upgrade process. Thus you may consider disabling the module after the upgrade if you wish to utilize this new integrated feature.

• **New feature: The "Sticky Matrix Header" external module was integrated into REDCap.** This feature will cause matrix headers to float and stick to the top of a page on either a survey or data entry form so that the matrix headers are always visible, which is helpful for matrices with many rows. If this external module was already enabled on the REDCap installation, it will automatically be disabled during the upgrade process to prevent any possible conflicts.

• **New feature: The "Codebook Concertina" external module was integrated into REDCap.** This feature will display Expand and Collapse buttons for each instrument listed on the Codebook page in a project. If this external module was already enabled on the REDCap installation, it will automatically be disabled during the upgrade process to prevent any possible conflicts.

• **Minor security fix:** A Cross-Site Scripting (XSS) vulnerability was discovered on certain pages, in which a malicious user could potentially exploit it by manipulating the query string of an HTTP request.

• **Improvement:** When enabling an instrument as a survey or editing an existing survey's survey settings, it now displays a "Save Changes" button at the top of the page (next to the Cancel button) so that the user does not necessarily have to scroll all the way to the bottom to submit the page.

• **Change: PHP 5.5 is now the minimum required PHP version.** In previous versions, the minimum required PHP version was PHP 5.3.

• **Change/improvement:** When viewing a survey response on a data entry form that had been completed using the E-consent Framework, users with Record Locking privileges will now be able to Lock and E-sign the instrument. Previously in all versions of REDCap version 8.10.X, the entire instrument was read-only, including the Locking and E-signature options. (Ticket #54874)

• **Improvement:** If a URL is included in a message posted on REDCap Messenger (including those sent via General Notifications from an administrator), the URL will be displayed as a clickable link to the user in the Messenger panel.

• **Change/improvement:** The Custom Record Label and Secondary Unique Field values are now displayed with the record name in the table on the "PDF Survey Archive" tab in the File Repository if the "PDF Auto-Archiver" is enabled for one or more surveys in a project. In previous versions, it did not display them next to the record name.

• **Change:** For projects in production, the settings on the Record Locking Customization page can now be edited by any user that has "Record Locking Customization" privileges in the

project. In previous versions, only REDCap administrators could modify this page's settings while in production. This change will alleviate the burden of administrators for many production projects needing to make changes on this page.

- Bug fix: In server environments with PHP error reporting enabled, it would display a deprecation notice regarding the constructor of several PHP classes. (Ticket #55557)
- Bug fix: When viewing an individual user on the Browse Users page in the Control Center, if the user is a Table-based authentication user and their secondary or tertiary email address has not yet been verified, then it would mistakenly not display the buttons to auto-verify the address or re-send the verification email to the user. This only occurs if the user is a Table-based user.
- Bug fix: When a form or survey is submitted, in which there do not exist any fields on the instrument that are used in a calculated field anywhere in the project, then it would mistakenly trigger the calculation of all calc fields in the project. It should instead only trigger calculations if a field being submitted is used in a calculation. (Ticket #55192)
- Bug fix: The "Export Survey Participants" API method would mistakenly not include some participants in the resulting API response if those participants had not first been viewed by a user either on the Participant List page or on the data entry form for the survey instrument that was passed as a parameter in the API request. Once a user had viewed the data entry form or Participant List for that instrument, the participants would then appear in the API export. (Ticket #55517)
- Bug fix: When creating a project and selecting the option to upload a REDCap Project XML file, if the user fails to upload an XML file and then clicks the "Create Project" button, it would mistakenly create an empty project. It should instead give a warning to the user to upload an XML file and prevent the user from submitting the page. (Ticket #55731)
- Bug fix: When a user makes a request to an administrator that a project be copied, it would mistakenly not check off some of the checkboxes on the Copy Project page when the administrator loads the page via the link in the email or via the To-Do List. This includes the following options: All report folders, All data quality rules, All project bookmarks, and All custom record status dashboards. (Ticket #55751)
- Bug fix: When attempting to rename a record to "0" on the Record Home Page, it would fail and return an error message to a user. (Ticket #55723)
- Bug fix: When using the Smart Variables form-link, form-url, survey-link, or survey-url to create links/URLs either to or from a repeating instrument or repeating event, it might mistakenly add the instance number of the current context to the URL when instead it should evaluate whether or not the instance number makes sense to be added to the target URL. (Ticket #54776)
- Bug fix: When using Twilio telephony services for surveys, U.S. phone numbers having the area code "463" would mistakenly not work for SMS or voice calls unless the number has a "1" prepended to it. (Ticket #55668)
- Change: The System Statistics page in the Control Center would load very slowly for large installations, especially if they had DDP Custom or DDP on FHIR enabled. The page has been reconfigured to fetch all DDP-related stats asynchronously.
- Bug fix: When adding/editing/deleting a Report Folder or assigning/unassigning a report to a Report Folder and then closing and re-opening the Report Folder popup, the user would mistakenly no longer be able to perform any actions inside that popup (as if its elements were locked). (Ticket #55878)

- Bug fix: When a user enters an incorrect password on the login page, it might mistakenly cause some of the custom login text (if any) to become disproportionately enlarged. (Ticket #55945)
- Bug fix: When creating/editing a record on a data entry form, in which the record name contains a forward slash or back slash, it may cause a Data Quality rule with Real Time Execution not to get triggered correctly or cause the Required Field popup alert not to display correctly. (Ticket #56093)
- Bug fix: If a participant partially completes a survey using the "Save & Return Later" feature, in which there is no email address associated with that participant (either via the participant list or via the designated survey email invitation field), then the page that gets displayed immediately after clicking the "Save & Return Later" button might mistakenly display the text "You have just been sent an email containing a link for continuing the survey" for a moment and then suddenly disappear, which could be confusing.
- Bug fix: When inline images are used for Descriptive fields on a survey or form, then if the user is viewing the page on a mobile device and the image's native width is smaller than the width of the page, it would mistakenly not resize it correctly and would make it too small on the page. It now makes the image wider on the page for better viewing of it.
- Bug fix: When printing a page in the Control Center, the left-hand menu would mistakenly not be removed from the print-out when using Firefox. (Ticket #56340)
- Bug fix: The "Announcement text to display at top of Home page and My Projects page" would mistakenly not get displayed at the top on the REDCap Home Page if the "Additionally display text on login page?" option is set to "No". (Ticket #56618)
- Bug fix: If the biomedical ontology auto-suggest functionality is disabled as the system level, it would mistakenly prevent users on the Online Designer from setting a min or max limit for a Text field in the "Add Field"/"Edit Field" popup. (Ticket #56499)
- Bug fix: When entering a number- or integer-validated text field on a form or survey on an Android device, it would mistakenly open the full keyboard when typing in the field rather than displaying a more appropriate number-centric keyboard. (Ticket #56447)
- Bug fix: When entering a number-validated text field on a form or survey on an iOS device, it would mistakenly open the full keyboard when typing in the field rather than displaying a more appropriate number-centric keyboard.
- Bug fix: "event_id" was mistakenly not listed as a reserved field name to prevent users from using it as a field's variable name. (Ticket #56627)
- Bug fix: When an administrator is approving a "Move project to production" request on the To-Do List page, the To-Do List popup would mistakenly not automatically close after the request was approved or if the admin clicked Cancel to close the request. (Ticket #56457)
- Bug fix: When using the @MAXCHECKED action tag for a checkbox field, if a user clicked on the checkbox's label (rather than on the checkbox itself), it would appear to keep the checkbox unchecked if the @MAXCHECKED limit has been reached, but it would mistakenly save the checkbox as checked. (Ticket #56658)
- Bug fix: For specific screen widths, the nav items at the top of the page on the Home page, My Projects page, etc. would mistakenly not be visible.
- Bug fix: When performing a data import in projects with repeating instruments or repeating events, the "redcap_repeat_instance" field could mistakenly be imported with a value of "0", which should never be allowed because it must always be an integer larger than "0". (Ticket #28842)

- Bug fix: If a required field is changed to be a Descriptive field, it would still mistakenly display the "must provide value" text below the Descriptive field's label on a survey page or data entry form. (Ticket #56719)
- Bug fix: After selecting the "Export Reports" API method in the API Playground, the "Report ID" drop-down list would mistakenly not get rendered correctly, thus preventing users from utilizing it on that page. (Ticket #56707)
- Bug fix: When using the survey-link or survey-url Smart Variable in the email message for an Automated Survey Invitation, in which the instrument name is appended to the Smart Variable (e.g. [survey-link:survey_2]), then if the appended instrument name is different from the survey instrument for the current ASI, it would mistakenly replace the Smart Variable with the link to the current ASI survey rather than with the explicitly specified one. (Ticket #55400)
- Bug fix: When using the first-event-name or last-event-name Smart Variable in branching logic or in a calculated field, in certain cases it might not get interpreted correctly, thus mistakenly resulting in a branching logic error message on a survey page or data entry form. (Ticket #56583)
- Bug fix: When setting the conditional logic for an Automated Survey Invitation in a longitudinal project, if any fields are prepended with the Smart Variable [event-name], it would cause the ASI not to send the invitation if step 2 had the "Ensure logic is still true before sending invitation?" option selected while Step 3 was set to "Send immediately". (Ticket #55919)
- Bug fix: When setting the conditional logic for an Automated Survey Invitation in a longitudinal project, if any fields are prepended with the Smart Variable [event-name] and the user selected a record from the "Test logic with a record" drop-down, it would mistakenly return "False" even when the condition is actually True.
- Bug fix: When setting the branching logic for a field in the "Add/Edit Branching Logic" popup on the Online Designer, if a user selected a record from the "Test logic with a record" drop-down, it would mistakenly return "False" even when the condition is actually True. (Ticket #56623)
- Bug fix: When a repeating instrument is being used as a survey and is being displayed in the Survey Queue, then it may mistakenly display the text "All surveys in your queue have been completed" on the Survey Queue if only 6 surveys have been completed in the queue (including all instances of the repeating survey), which could be confusing to respondents who might want to keep taking the repeating survey. Since a repeating survey is by definition open-ended and can be taken over and over again without end, the Survey Queue should never state "All surveys in your queue have been completed" if the queue contains at least one repeating survey. (Ticket #56540)

Version 8.10.1 - (released 12/20/2018)

BUG FIXES & OTHER CHANGES:

- **Improvement:** New options added to Secondary Unique Field functionality - In the "Additional Customizations" popup on the Project Setup page, users may now choose to optionally display the Secondary Unique Field's value in conjunction to displaying a record name on various project pages (in previous versions it was always displayed regardless). If left unchecked, the uniqueness of the value will still be checked during data entry or import, but the Secondary

Unique Field's value will not be displayed next to the record name anywhere (e.g., in record lists, record status dashboards, reports). A second option has also been added that dictates whether or not the field label of the Secondary Unique Field will be displayed next to the value (if the value is set to be displayed next to a record name).

- **Improvement:** The External Modules Framework now has a new "Update All" button in the Control Center to allow administrators to easily upgrade all their installed modules to the latest version of each module with a single button click.
- **Change/improvement:** The "Help & FAQ" page was updated with new content.
- **Change/improvement:** Super API Tokens can now be used for the "Export REDCap Version" API method. In previous versions, only project-level API tokens could be used for this method. This will allow users to be able to obtain the REDCap version number outside the context of a project.
- **Change:** Dashes/hyphens can now be used as the raw coded value for multiple choice fields.
- **Bug fix:** When clicking the "Close Survey" button after completing a survey, in certain cases REDCap will not be able to close the tab, and certain browsers might mistakenly redirect the user to the page where survey access codes are typically entered. (Ticket #54305)
- **Bug fix:** The "Test URL" buttons have been removed from the "DDP on FHIR" page in the Control Center because they did not work most of the time, thus giving administrators the impression that the URL entered was incorrect.
- **Bug fix:** When accessing REDCap using DDP on FHIR while in an EHR-embedded window, if the session ended and the user logged back in, it would mistakenly not remember that the user is inside the embedded window and would thus not hide all appropriate elements from the user interface that it should.
- **Bug fix:** For DDP on FHIR, the coded multiple choice options for sex, race, and ethnicity were not complete and, in some cases, incorrect for certain EHR configurations. During the upgrade process, these choice options for existing DDP on FHIR projects will have both their data and metadata translated into the new options. The field sex will now have options M, F, and UNK, while ethnicity and race will be replaced by a long list of LOINC codes to represent them properly.
- **Change:** The "email" field was removed from the "DDP on FHIR" field mappings list due to potential privacy issues related to the possibility of users obtaining patient email addresses.
- **Bug fix:** When the system is performing the back-end process of caching a record list in a project, if a record name contained a special character, it might cause the record list caching process to silently fail. This would go unnoticed, with the exception of viewing a specific Data Access Group's records, in which it would mistakenly display all records in the project rather than just the records assigned to that DAG.
- **Bug fix:** When an administrator is viewing the "API Tokens" page in the Control Center or the "Manage All Project Tokens" tab on a project's API page, the "Last Used" column for a given user might mistakenly display "Never" instead of the last time the user made an API request for the project. This appears to occur due to a case sensitivity issue with the username, in which the case of the user seen on the Browse Users page in the Control center does not exactly match the case of the username with which the user logged in or with which the user is listed on the project's User Rights page. (Ticket #54748)

- Bug fix: The auto-logout warning displayed to the user after a period of inactivity on a page would mistakenly display the wrong text after their session has officially expired. Once expired, it would mistakenly say "You will be automatically logged out of REDCap in 30 SECONDS due to inactivity..." when instead it should say "Due to inactivity, your REDCap session has expired...". It was displaying the 30-second warning twice. (Ticket #54746)
- Bug fix: When using the "Preview" and "Test email" functionality when composing a survey invitation in a multi-arm project, if any fields are being piped into the email, in which the field being piped is prepended with the unique event name of an event from an arm other than specifically Arm 1, then it mistakenly would not replace the field with the text "PIPED DATA" as expected but would instead replace it with "_____". (Ticket #54559)
- Bug fix: When creating a new record in a non-longitudinal/classic project that only contains one data collection instrument, if the user clicks the Cancel button on the data entry form before saving/creating the record, it would mistakenly just reload that form rather than redirecting the user back to the "Add/Edit Records" page. (Ticket #54752)
- Bug fix: When calling the API Method "Export Project XML", it might mistakenly not include all files from File Upload and Signature fields even though the exportFiles parameter had been set to TRUE (assuming that returnMetadataOnly=FALSE). (Ticket #54301)
- Bug fix: When calling the API Method "Importing Repeating Instruments and Events" for a classic/non-longitudinal project, it would mistakenly return an error stating that the event name was not included in the request. The event name is actually not required when using this method for classic/non-longitudinal projects.
- Change: General updates and fixes for the External Modules Framework.
- Bug fix: When viewing a record on a data entry form in a project that contains one or more repeating instruments, it would mistakenly only display the number of repeating instances of a form on the left-hand instrument menu if the user was currently viewing any form that had been set as a repeating instrument. It should always display the number of repeating instances next to each repeating instrument on the left-hand menu for a given record. (Ticket #54846)
- Bug fix: When viewing a record on a data entry form in a project that contains one or more repeating instruments, for all repeating instruments displayed on the left-hand instrument menu, it would mistakenly display the form status stack icon representing the status color of the first instance of the repeating instrument rather than displaying an icon representing all the instances (e.g., red stack icon representing all instances having "complete" status, blue stack icon representing mixed status types). This excludes the icon displayed for the currently selected form/instance, which was correctly displaying the form status icon of the currently viewed repeating instance. (Ticket #54846)
- Bug fix: When using the data search feature on the "Add/Edit Records" page in a project, in which no results are returned from a given search, in some cases the "Searching..." text might mistakenly still be displayed afterward (instead of the text being hidden), thus incorrectly implying that the search has not yet finished. This could be confusing and mislead the user. (Ticket #54818)
- Bug fix: When using an SQL field that contains a comma in the results for the data values that are returned from the SQL query, after selecting and saving an option with a data value that contains a comma, it will save the value correctly but in certain cases may mistakenly cause the

value to not get pre-selected when a user returns later to the form, which could cause a blank value to mistakenly overwrite the saved value unbeknownst to the user if the form is saved again. (Ticket #54988)

- Bug fix: If a project's metadata is exported via the Project XML file, in which a multiple choice field contains an HTML break tag (
) in its choice option label, then if a new project is created from the XML file, it might mistakenly add extra choices to that field if any text exists after the HTML break tag for a given choice. (Ticket #55122)
- Bug fix: The "record" column in the table on the Survey Invitation Log page would mistakenly not wrap the record name and thus would truncate longer record names displayed in that column.

Version 8.10.0 - (released 12/6/2018)

BUG FIXES & OTHER CHANGES:

- **New API method: "Import Repeating Instruments and Events"** – Allows users to import a list of the repeated instruments and repeating events for a project as a means of setting which instruments and events should be repeatable.
- **New feature: Many project components added to the Project XML file** – When downloading the Project XML of metadata or metadata+data on the Project Setup->Other Functionality page, it now provides checkboxes to allow users to incorporate the project components listed below in the XML file. This means that all these things will be easily transferable now when exporting/importing the Project XML to create a new project on the same REDCap server or on a different REDCap server. Note: The server on which a project is being created using a Project XML file must also be on REDCap 8.10.0 or higher in order for these components to be added, otherwise it will simply ignore these components when creating the new project.
 - Data Access Groups (including DAG assignments for records if data is included in the XML file)
 - Data Quality Rules
 - User Roles
 - Surveys and survey settings (including a survey logo, if used)
 - Automated Survey Invitations
 - Survey Queue
 - Reports
 - Report Folders
 - Record Status Dashboards
 - DDP Field Mappings (for DDP Custom and DDP on FHIR) – administrator must still enable DDP in the project manually
- **Change:** Survey responses that were completed using the e-Consent Framework will no longer be editable (this includes no editing on data entry forms, surveys, Data Import Tool, API, and Mobile App). In previous versions, completed e-consent surveys were editable.

- Bug fix: After adding fields to a report via the "Quick Add" dialog popup on the "Data Exports, Reports, and Stats" page, those new fields would mistakenly not be draggable afterward if the user wishes to move a field to another position in the report.
- Bug fix: For certain server configurations related to PHP's decoding of HTML entities, the Survey Settings page might not be able to properly store or display the survey instructions text or the survey completion text if they contain certain non-Latin characters.
- Bug fix: Users would mistakenly be allowed to use the @DEFAULT action tag for Signature fields and File Upload fields. This can cause synchronicity issues of a single file being associated with multiple fields, and thus should not be allowed. It will now ignore the @DEFAULT action tag if used for such fields.
- Bug fix: When viewing the Draft Mode production changes page in a project, if the project had been initialized in the REDCap Mobile App, then it would mistakenly give the warning "Please note that they *may* be affected by these changes and may not be able to successfully imported their data from the app afterward..." even though no current users have Mobile App user privileges anymore. It should only be displaying the warning if at least one person in the project still has Mobile App privileges and has initialized the project in the app at some point in the past.
- Bug fix: When exporting data via the "Export Records" API method with type="eav" and providing Filter Logic as a parameter in the API request in which no records should be returned based on that filter logic, it would mistakenly return all records instead.
- Change: When granting a user access to a project via the User Rights page, in which the "notify user via email" checkbox is checked, it now includes a link directly to the project in the resulting email to the user, whereas previous versions only included a link to the main REDCap home page.

Version 8.9.3 - (released 11/28/2018)

BUG FIXES & OTHER CHANGES:

- **New feature: AWS Quick Start** – Method for quickly deploying a full, production-ready REDCap server environment on AWS (Amazon Web Services) CloudFormation. This includes a completely automated way for deploying the server infrastructure as well as a fully automated installation of REDCap, including the ability to utilize the REDCap "Easy Upgrade" feature. For details, see the top of the page <https://projectredcap.org/software/requirements/>

- **New features relating to Data Privacy (e.g., GDPR)** – The new settings listed below are available on the “Edit a Project’s Settings” page for a given project. Thus these must be enabled by a REDCap administrator on a per-project basis
 - (optional) **Delete a record’s logging activity when deleting the record** - If enabled, this will delete all the data values and actions logged for the given record being deleted as seen on the Project Logging page. Note: For multi-arm longitudinal projects, this feature will delete the record’s logging for the given record only in the current arm. This feature can be used to aid in compliance with GDPR or similar regulations that require 'right to erasure'.
 - (optional) **Auto-delete all Data Export Files in the File Repository that were created more than X days ago** – To enable this setting, an administrator may set a value from 1 to 999 to set the number of days after which all Data Export files will get automatically deleted from the project’s File Repository. This feature can be used to aid in compliance with GDPR or similar regulations that require 'right to erasure'. NOTE: This will only delete files under the Data Export Files tab. No other types of files in the File Repository will be deleted.
 - (optional) **Custom footer text for survey pages** - Custom text may be provided (including HTML-formatted text) that will be displayed either via a modal dialog or inline at the bottom of all survey pages in the project. This could potentially be used for display a data privacy statement or other similar things that should be displayed on the same page where data is collected. Note: This is only display on survey pages.

- **Change/improvement:** When composing a survey invitation on the Participants List page or via Survey Options on a data entry form, the "From"/sender drop-down list now displays all the email addresses (primary, secondary, and tertiary) of all users in the project, which is how the setup dialog for Automated Survey Invitations has always behaved. In previous versions, these two places would only allow the user to choose from the current user's email addresses as the "From"/sender address. This provides more flexibility, and establishes greater consistency between all the interfaces for scheduling survey invitations.

- **Major bug fix:** If a slider field on a data entry form has a value set, and then the user clicks the balloon icon next to any field to open the Field Comment Log popup, it would mistakenly set the slider value to 50, sometimes unbeknownst to the user. This does not occur on survey pages but only data entry forms. (Ticket #53371)

- **Improvement:** If a REDCap cron job fails to complete (often due to a fatal PHP error), it will now send an email to the REDCap Administrator (using the email address listed on the General Configuration page in the Control Center) to inform them of this error. The email will note which cron job failed and when, as well as the details of the PHP error itself. This should help some folks troubleshoot issues if this ever occurs. (Ticket #19260)

- **Bug fix:** If a user is viewing a project's Record Status Dashboard in which some records has been assigned to Data Access Groups, then under certain rare conditions (e.g., users bookmarking a link to the RSD after a DAG has been deleted in the project) users might not see all the records on the RSD anymore, which could be confusing. (Ticket #53335)

