



What's new in Survey123



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What's new in Survey123

Features have been added to Survey123 progressively. This document lists features that were added at various stages of release, starting with the most recent.

Join the [Early Adopter Community](#) to receive regular updates on features in development, test beta releases, and provide feedback on the forums.

Update November 12, 2024

This update includes changes to the Survey123 field app, Survey123 Connect, the Survey123 website, and the Survey123 web app.

Survey123 field app (version 3.21.62)

Fixes and improvements include the following:

- The default offline map is included in the app.
- Reliability has been improved when sending location sharing records.
- A bug was fixed in which the [calculation mode](#) parameter value of `a1ways` did not work as expected for date questions.
- A bug was fixed in which choices with date labels did not display the date in the expected format.
- A bug was fixed in which location could not be captured in surveys that were opened from the Drafts folder.

Survey123 Connect (version 3.21.62)

Fixes and improvements include the following:

- A bug was fixed in which surveys could not be updated if they had been moved out of the folder they were published to.
- Support was added for querying the submission URL with the `pulldata("@property")` function.

Survey123 website

Fixes and improvements include the following:

- Summary information for Location list questions is now shown on the **Analyze** page.
- The survey footer can include images and formatted text, including links.
- When there is no map question or no geometry values in the survey, the overview map is collapsed by default on the **Data** page.
- A warning message is displayed when the ArcGIS organization is in read-only mode.
- When printing a report, the report template file name is used to name generated reports instead of the survey name.
- A bug was fixed in which reports would fail when the template included a map and the web map contained a large amount of data.
- The survey and translation assistants (beta) are only enabled when the **Allow use of AI assistants by members of your organization** option in the ArcGIS Online organization settings is turned on. The default for this option is off.

- The Survey123 assistant (beta) better distinguishes between an existing survey design that is being modified and a new survey that is being created.
- Languages from the **Choose other languages** list can be selected for translation by the translation assistant (beta). All supported languages are listed in the [Microsoft Ignite Translation table](#).

Survey123 web app

Fixes and improvements include the following:

- Styles of fixed grid and dynamic grid that are set in Survey123 Connect are supported. Use the width [URL parameter for launching the web app](#) to adjust the form width as needed.
- The new `signIn` URL parameter allows sign-in for public surveys.
- Video files added to a **File upload** question can be previewed.

Update September 10, 2024

This update includes changes to the Survey123 field app on Android, the web app, and the Survey123 website.

Note:

Starting with this release the minimum Android version supported is 7.0 on both 32-bit and 64-bit ARM processors.

Survey123 field app (version 3.20.73)

Fixes include the following:

- On Android 14, a new location permission request has been added to ensure features continue to work when the app is in background.
- On Android 13 and later, a bug was fixed in which an error message appeared when you [measure objects using Spike](#).

Survey123 website

Fixes and improvements include the following:

- When applicable, deleting a survey sends the items in the deleted folder to the recycle bin in your ArcGIS organization. This allows you a standard window of time to [restore items](#) that were deleted in error.
- New `$map` keyword supported for use in report templates to insert a web map that does not reference a survey question.
- New `mapFilter` method introduced for use in report templates to filter features in operational layers in a web map.
- A bug was fixed in which the My Surveys page did not finish loading when the user is a member of a large number of shared update groups.
- A bug was fixed in which tables incorrectly appeared in the list when choosing the source layer for a **Location list** question.
- A bug was fixed in which a report page did not load when the browser language is Portuguese (Brazil).

Update July 2, 2024

This update includes changes to the Survey123 field app only.

Survey123 field app (version 3.20.68)

Fixes include the following:

- A bug was fixed in which surveys referencing feature services in ArcGIS Enterprise, with attachments, could not be submitted.
- A bug was fixed in which images could not be added to surveys that were opened from the Sent folder or Inbox.

Update June 26, 2024

This update includes changes to Survey123 Connect, the Survey123 field app and web app, and the Survey123 website.

Survey123 field app (version 3.20.65)

Fixes and improvements include the following:

- A bug was fixed in which questions with the calculator or numbers appearance did not honor the [calculationMode](#) parameter.
- A bug was fixed in which the time value in dateTime questions was overwritten while navigating through repeat records.
- A bug was fixed in which dateTime questions with the `esriFieldTypeTimestampOffset` field type didn't reset when recalculated.

Survey123 Connect (version 3.20.63)

Fixes and improvements include the following:

- When applicable, deleting a survey sends the items in the deleted folder to the recycle bin in your ArcGIS organization. This allows you a standard window of time to [restore items](#) that were deleted in error.
- The **Tweets** tab has been removed from the **Community** page.

Survey123 web app

Fixes and improvements include the following:

- When multiple cameras are available on a desktop computer, image questions allow switching between available cameras to capture an image.
- When there is more than one image or file in an **Image** or **File Upload** question, they can be dragged to reorder.

Survey123 website

Fixes and improvements include the following:

- A new question type, [Barcode](#), has been added. This behaves in the same way as barcode questions created in Survey123 Connect.
- A new question type, [Location list](#), has been added. This behaves in the same way as a select one question with autocomplete and search appearances in Survey123 Connect, combined with a hidden geopoint, geotrace, or geoshape question with a calculation.
- A new **Add to favorites** button on survey cards for adding a survey to the **My Favorites** page of the **My Surveys** gallery.

- More types of constraints can be applied to questions including: setting a minimum and maximum character count for text questions, limiting date questions to accept values only before or after a given date, or specifying a file count for a minimum, maximum, or exact amount of images to be captured.
- Question type can now be changed (to another compatible question type) after it has been added to a survey. For more information, see [Update a survey](#).
- Improved performance when there are a large number of questions in a survey.
- A new report page for embedding in your own web app. For more information, see [Embed a report page using JavaScript](#).
- A new `$date` keyword supported for use in report templates to insert the current date and time when printing.

Update April 23, 2024

This update includes changes to the Survey123 web and Survey123 website.

Survey123 web app

Fixes include the following:

- A bug was fixed in which a select multiple question with minimal appearance, displayed an unexpected extra choice when viewed in a browser on a mobile device.
- A bug was fixed in which a repeat section would not show or hide as expected when expressions are set both for the **body::esri:visible** and **repeat_count** columns.
- A bug was fixed in which a read only date and time question was not displayed in the expected format.
- A bug was fixed in which customizable form elements such as form title, footer, thank you screen content, and CAPTCHA verification text, were not hidden as expected.
- On Android 14, a bug was fixed in which an image question whose image source is set as **Browse images or use camera** cannot take a photo from camera.

Survey123 website

Fixes include the following:

- A bug was fixed in which an organization member with the sharing [general privilege](#) could not see the **Everyone** option when sharing a survey or results on the **Collaborate** tab.
- A bug was fixed in which the **Invalid image URL** error was displayed when adding some image URLs.
- A bug was fixed in which the **Analyze** tab always displayed all responses in the chart for a number question, even after applying a filter.
- A bug was fixed in which the **Analyze** tab did not display the expected responses of a date question in ArcGIS Enterprise.
- A bug was fixed in which a report could not be generated if the feature layer ID contained both numbers and letters.

Update March 19, 2024

This update includes changes to Survey123 Connect and the Survey123 field app.

Survey123 field app (version 3.19.121)

A bug was fixed in which an image question prevents keyboard navigation to other questions.

Survey123 Connect (version 3.19.116)

A bug was fixed in which an image question prevents keyboard navigation to other questions.

Update February 27, 2024

This update includes changes to Survey123 Connect, the Survey123 field app and web app, and the Survey123 website.

Survey123 field app (version 3.19.120)

Fixes and improvements include the following:

- Esri [field types](#) `esriFieldTypeTimestampOffset`, `esriFieldTypeDateOnly`, `esriFieldTypeTimeOnly`, and `esriFieldTypeBigInteger` are supported.
- DateTime questions with the `esriFieldTypeTimestampOffset` field type display a time zone offset selector.
- A bug was fixed in which the required status was not enforced in a single choice grid question.
- A bug was fixed in which the required status was not enforced in an image question.
- A bug was fixed in which questions with the numbers appearance incorrectly copied old values to the clipboard.

Survey123 Connect (version 3.19.115)

Fixes and improvements include the following:

- Esri [field types](#) `esriFieldTypeTimestampOffset`, `esriFieldTypeDateOnly`, `esriFieldTypeTimeOnly`, and `esriFieldTypeBigInteger` are supported.
- Tool added—[Convert choice lists to CSV](#) (generates .csv files for specified lists in the choices worksheet and updates supported question types to reference the new files stored in the media folder).
- A bug was fixed in which a survey is incorrectly published with multiple geometries, if one of the geometries has been set to `esriFieldTypePointZ`.

Survey123 web app

Fixes and improvements include the following:

- Barcode question is supported.
- Esri [field types](#) `esriFieldTypeTimestampOffset`, `esriFieldTypeDateOnly`, `esriFieldTypeTimeOnly`, and `esriFieldTypeBigInteger` are supported.
- A bug was fixed in which duplicated webhooks are no longer sent.
- A bug was fixed in which the message **The survey is not accessible or does not exist** appeared when a survey which is configured to use the organisations shared theme and is shared publically, is launched.

Survey123 website

Fixes and improvements include the following:

- Visibility rules can be copied between questions.
- When a question's visibility rule is not met, the survey author can choose whether answers are submitted.
- Esri field types `esriFieldTypeTimestampOffset`, `esriFieldTypeDateOnly`, `esriFieldTypeTimeOnly`, and `esriFieldTypeBigInteger` are supported on the **Analyze** and **Data** pages, and when creating a **Report**.

Update November 14, 2023

This update includes changes to Survey123 Connect, the Survey123 field app and web app, and the Survey123 website.

Survey123 field app (version 3.19.114)

Fixes and improvements include the following:

- A custom locator can be used in individual geopoint, geotrace, or geoshape questions.
- Offline maps in the ArcGIS/My Surveys/Maps folder are available for use in the location sharing map.
- A bug was fixed in which address suggestions were not visible when the associated geocode service was shared with the owner or organization.
- A bug was fixed in which the caching of `pulldata("@layer")` responses caused submission errors.
- On Windows, a bug was fixed in which Panasonic devices unexpectedly rotated the camera preview 180 degrees.

Survey123 Connect (version 3.19.104)

Fixes and improvements include the following:

- A custom locator can be specified for individual geopoint, geotrace, or geoshape questions.
- A bug was fixed in which the WHERE clause was required to be included in a `pulldata("@layer")` query, but it is optional.
- Tools are now translated.
- New tools added—**Export translations** (generates `.xlsx` files that contain all form strings that can be translated), and **Import translations** (reads `.xlsx` files that contain translated strings and imports them into the form).

Survey123 web app

Fixes and improvements include the following:

- Audio question can allow both browse and record or record audio only.
- Fixed bugs in which changing an earlier response in a series of conditioned questions didn't hide later questions.
- Fixed a bug in which a geoshape question in a repeat with a default value of `null` defined in Survey123 Connect does not load in the web app.
- Fixed a bug in which opening a submitted record in view mode did not allow downloading of attached image, file, or audio.

Survey123 website

Fixes and improvements include the following:

- Pop-ups to notify users of new features and enhancements.
- Map Viewer has replaced Map Viewer Classic on the **Data** page.
- Expanded user experience for setting flexible question visibility rules on the **Design** page. Visibility rules can now be applied to all question types.
- Languages other than those supported by Survey123 can be added to a [multilingual survey](#).
- Audio questions can be configured to allow both browse and record or record audio only.
- Organization administrators can now enable, disable, or allow users to decide to use enhanced camera features.
- A bug was fixed in which error message was displayed when a survey is selected from the **My Surveys** tab before the **Records** count value is populated.
- A bug was fixed in which the survey's count value is incorrect on the **Overview** tab when a date range is selected.
- A bug was fixed in which the dynamic list in a second drop-down question is not displayed in the field app.

Update September 19, 2023

This update includes changes to the Survey123 web app and the Survey123 website.

Survey123 web app

Fixes include the following:

- A bug was fixed in which changing the mobile device orientation cleared the contents of signature questions.
- A bug was fixed in which the time value in a date response is saved as 11:00 AM instead of 12:00 PM if the selected date in a **Date** question is captured outside of a daylight saving time period.
- A bug was fixed in which required questions in a repeat that has a **repeat_count** value set did not display an error message when submit is attempted and cannot be completed.

Survey123 website

Fixes and improvements include the following:

- CAPTCHA (challenge and response test to determine if the survey submitter is human) is now supported.
- A bug was fixed in which deleting a survey in a website would also delete web maps that had been associated with it.

Update August 22, 2023

This update includes changes to Survey123 Connect, the Survey123 field app and web app, and the Survey123 website.

Survey123 field app (version 3.18.145)

Fixes and improvements include the following:

- A bug was fixed in which the Inbox would be emptied when the app was launched from a Survey123 link or custom URL scheme that contains the update parameter, if the app is offline.

- A bug was fixed in which calculated integer values could not populate a text question.
- Stability improvements have been made when repeatedly switching between the location panel or the full-screen map of map questions.

Survey123 Connect (version 3.18.124)

A bug was fixed in which calculated integer values could not populate a text question.

Survey123 web app

Fixes and improvements include the following:

- Choice lists of **Dropdown** questions have been improved when populated from a feature layer or table to ensure only unique choice values are returned, and the list is populated faster.
- The maximum file size of a file question increased from 100 MB to 500 MB for surveys in ArcGIS Online.
- A bug was fixed in which rear and front camera could not be switched when taking a photo in Safari on iPad.
- A bug was fixed in which attachments could not be submitted when a survey is launched from a link that contains the mode parameters of edit or copy.

Survey123 website

Fixes and improvements include the following:

- The maximum file size of a **File upload** question can be configured as 500 MB for surveys in ArcGIS Online.
- The ArcGIS Living Atlas category has been added when setting the source layer for calculation or populating the choice list of **Dropdown** questions.

Update July 25, 2023

This update includes only a change to the Survey123 field app on Android.

Survey123 field app (version 3.18.143)

On Android, a bug was fixed in which the camera crashed while saving an image on some devices.

Update June 21, 2023

This update includes changes to the Survey123 web app and Survey123 website.

Survey123 web app

Fixes and improvements include the following:

- A bug was fixed in which the following message appeared when attempting to display a survey that was created in a previous version of Survey123: **The webform needs to be upgraded, but an error occurred while upgrading. HTTP 504: UNKNOWN_ERROR.**
- A bug was fixed in which the message **Leave site?** sometimes appeared after submitting a response.
- A bug was fixed in which the loading animation did not disappear when a survey was configured with the **Automatically redirect to URL** action after submission, and was embedded in another web page.

- A bug was fixed in which an **Audio** question could not record audio in the survey widget of ArcGIS Experience Builder.

Survey123 website

Fixes and improvements include the following:

- A bug was fixed in which location EXIF metadata of a photo did not display in the form view on the **Data** page.
- A bug was fixed in which a question with a broken calculation expression disappeared after refreshing the **Design** page.
- A bug was fixed in which the message **Leave site?** appeared after submitting a response, if a survey is configured to have a 0-second delay for the **Automatically reload the survey** action after submission.
- A bug was fixed in which generating multiple reports in a single print job failed with the message **An error occurred when packaging due to timeout.**

Update June 13, 2023

This update includes changes to Survey123 Connect, the Survey123 field app and web app, and the Survey123 website.

Survey123 Connect (version 3.18.123)

Fixes and improvements include the following:

- [Smart assistants](#) can be configured in surveys to use machine learning models to extract attributes from images, annotate images, and redact images.
- Surveys can be configured to capture location and height values using [rangefinders](#).
- New parameters `barcodeType` and `engine` allow you to set the barcode type and scanning method for barcode questions.
- New `mapTools` parameter allows you to set which map tools appear on the full-page view of map questions.
- Bugs have been fixed that caused the **Analyze survey** tool to only partially process surveys.
- A bug was fixed in which an object property with a period (.) could not be specified in the `pulldata("@json")` function.
- A bug was fixed in which a survey would not load from a URL with parameters when `position(..)` was used in the calculation column of a hidden question that was inside a repeat.

Survey123 field app (version 3.18.142)

Fixes and improvements include the following:

- [Smart assistants](#) can be used to extract attributes from images, annotate images, and redact images.
- ArcGIS [location sharing](#) is now supported.
- Laser Tech TruPulse [rangefinders](#) are now supported.
- Berntsen InfraMarker RFID scanner is now supported.
- Barcode scanning is now faster and more accurate.

- Search has been added to the **Inbox** map tab.
- Surveys with multiple pages and a survey description created in the web designer no longer show a blank first page in the field app.
- A bug was fixed in which questions with the **image-map** appearance would not preserve the order of selection.
- A bug was fixed in which the **spinner** appearance allowed negative values to be entered even when a constraint was set for values greater than zero.
- A bug was fixed in which the app in Japanese would crash when refreshing the gallery or inbox.
- On iOS 16, a bug was fixed in which the app would crash when launching the camera in a survey that contained many image questions.

Survey123 web app

Fixes and improvements include the following:

- The new `isOrgSignIn` URL parameter allows use of the ArcGIS sign-in page in place of an organization-specific sign-in page.
- A bug was fixed in which the **Ranking** question could not be completed when used as part of a [cascading select](#).
- A bug was fixed in which a repeat question that included a `repeat_count` expression was not hidden or displayed as expected when using a `relevant` or `body::esri:visible` expression.

Survey123 website

Fixes and improvements include the following:

- New [Slider](#) question.
- Choice lists of **Dropdown** questions can be populated from a feature layer or table.
- Translations can be exported and imported.
- **Likert** questions now have a maximum value of 11.
- A redirect URL can be configured to display when a survey is completed.
- Administrator and survey author options have been added to enable or require location sharing.
- A bug was fixed in which surveys that contained a **Map** question would falsely indicate that the survey has changes that have not been published.
- A bug was fixed in which incorrect and inconsistent results were returned when filtering data in surveys containing repeats.
- A bug was fixed in which data was geographically incorrect on the first load for a user who is not the survey owner.
- A bug was fixed in which reports were created with insufficient credits.
- A bug was fixed in which reports unexpectedly failed with the following error message: **An error occurred when querying data from the feature layer.**
- A bug was fixed in which reports fail to retrieve the count of related records using `getCount()` when based on layers and tables with multiple relationships.

- Summary reports can now be created in the create report connectors of [Microsoft Power Automate](#) or [Make](#).

Update April 18, 2023

This update includes changes to the Survey123 web app and the Survey123 website.

Survey123 web app

Fixes include the following:

- A bug was fixed in which the day number decreased by one day as each digit in the year was typed in a date question in Google Chrome and Microsoft Edge.
- A bug was fixed in which an empty page appeared when a group with the `field-list` appearance had an expression in the `body::esri:visible` column that evaluated to false.

Survey123 website

Fixes include the following:

- A bug was fixed in which the preview mode on the **Design** page took more than one minute to load if the survey contained a map question.
- A bug was fixed in which report templates associated with a survey were not shared when the survey's results were shared.
- A bug was fixed in which a timeout error occurred when sharing the results of a survey published from Survey123 Connect that contained dozens of repeats.
- A bug was fixed in which an image could not be inserted by URL when editing a survey published to ArcGIS Enterprise.
- A bug was fixed in which the average score for a choice in a ranking question was displayed as 0 on the **Analyze** page if the choice name contained smart (curly) quotation marks.

Update March 21, 2023

This update includes changes to the Survey123 field app and web app, and the Survey123 website.

Survey123 Connect (version 3.17.55)

A bug was fixed in which a survey submission could not be validated if it contained a question that was required and hidden (by either the `hidden` appearance or an expression in the `body::esri:visible` column).

Survey123 field app (version 3.17.68)

Fixes include the following:

- A bug was fixed in which a survey could not be submitted if it contained a question that was required and hidden (by either the `hidden` appearance or an expression in the `body::esri:visible` column).
- A bug was fixed in which unanswered questions that had an input mask defined would submit the mask text.

Survey123 web app

Fixes and improvements include the following:

- In place of a survey submission error, when a file name exceeds 140 characters for an image, file, or audio question response, a warning message now appears and survey submission is prevented.
- A bug was fixed in which the question labels of a single select grid question exceeded the expected width for some languages in a multilingual survey.
- A bug was fixed in which the [hide](#) URL parameter did not work in a multilingual survey.
- A bug was fixed in which image questions would not display when they are contained within a repeat of the same name as the image question.
- A bug was fixed in which a survey submitted from a mobile device that includes a geopoint question that is populated using the devices location, is sending responses to a feature layer that has z-values disabled.

Survey123 website

Fixes and improvements include the following:

- A bug was fixed in which date filters could not be applied on the **Data** tab.
- A bug was fixed in which image attachments that have a keyword that is not equal to an image question were not displayed in the form view on the **Data** tab as an attachment.
- A bug was fixed in which after saving or publishing a survey successfully, the **Design** tab still wrongly prompted that there were unsaved or unpublished changes.
- A bug was fixed in which the [rotate](#) method did not maintain the expected aspect ratio.

Update February 21, 2023

This update includes changes to Survey123 Connect, the Survey123 field app and web app, and the Survey123 website.

Survey123 Connect (version 3.17.54)

Fixes and improvements include the following:

- New tool to analyze surveys. Requires Survey123 Connect to be configured with a Python environment. See [Analyze a survey](#).
- Automatically detect and use the ArcGIS Pro Python environment when available.
- For geopoint questions, set the default value to `position` to automatically update to the device's current location when the question is made relevant. See [Defaults](#).

Survey123 field app (version 3.17.66)

Fixes and improvements include the following:

- The list of languages for a multiple-language survey is now ordered alphabetically by language code.
- Improved the interaction of calculations and relevant expressions.
- A bug was fixed in which the **Outbox** would not display if it only contained entries with submission errors.
- A bug was fixed in which a survey could be submitted with an invalid input mask.
- A bug was fixed that placed multiple copies of the gallery page on top of each other.

Survey123 web app

Fixes and improvements include the following:

- The [range](#) question type is now supported.
- The horizontal accuracy of the location reported by the device is displayed as a circle on the map.
- A bug was fixed in which related records were unexpectedly deleted when editing an existing record, when the survey did not include the related layer.

Survey123 website

Fixes and improvements include the following:

- Horizontal accuracy and altitude properties are now supported when authoring calculations for a geopoint question.
- New `map` and `mapScale` methods introduced for use in report templates to set the web map item ID and map scale. Replaces the `mapSettings` method. See [Map questions](#).
- New `duration` parameter supported for the `getValue` method for use in report templates to get the duration of an audio response.
- To improve accessibility, heading styles are now used for section titles in sample report templates.
- A bug was fixed in which question names were unexpectedly changed in the survey schema when a survey was saved.
- A bug was fixed in which a survey co-owner could not edit the submissions added by other users when the survey was shared publicly.
- A bug was fixed in which data from a parent record could not be printed when iterating a repeat layer, when the survey did not include the parent layer.

Update December 14, 2022

This update includes changes to the Survey123 field app and web app.

Survey123 field app (version 3.16.114)

Fixed a bug in which a choice name of 0 was submitted as a null value, instead of 0.

Survey123 web app

Fixes and improvements include the following:

- Fixed a bug in which the error **String or binary data would be truncated. The statement has been terminated.** was returned when submitting a survey containing text in **Singleline text** and **Multiline text** questions that exceeded the maximum allowed characters.
- Fixed a bug in which the error **Cannot read properties of null (reading '0')** was returned for surveys published after the October 2022 release that contained a `pulldata("@layer")` function.

Update December 6, 2022

This update includes changes to Survey123 Connect, the Survey123 field app and web app, and the Survey123 website.

Survey123 Connect (version 3.16.110)

Fixes and improvements include the following:

- An error message now appears when publishing a survey that references an existing feature layer in which a question label does not match the field alias.
- The additional `_count` field in the feature layer schema is no longer required when using the **repeat_count** column.
- Improved app navigation in right to left language display.
- Fixed a bug in which a coded value domain was created as type string, when integer or decimal was expected.

Survey123 field app (version 3.16.113)

Fixes and improvements include the following:

- Improved sign-in workflow when a user's password has changed or expired when using ArcGIS Enterprise and IWA authentication.
- Improved app navigation in right to left language display.
- Fixed a bug in which the field type for a value submitted from a webhook was different to the field type of the question.
- Fixed a bug in which the incorrect week number was displayed during daylight saving time when using the week-number appearance.
- Fixed a bug in which `select_one` question labels would not display when using dynamic labels in groups with the table-list appearance.
- When launching a survey from a URL, additional options have been added to the <https://survey123.arcgis.app/> launch page that appears when an installation of Survey123 is not automatically detected. The page now includes a button for the field app in the Microsoft Store, and a button to force the launch of a survey that contains URL parameters.

Survey123 web app

Fixes and improvements include the following:

- File names defined by the survey author are now supported for File upload, Audio, and Signature questions. See [Customize file names](#).
- Fixed a bug in which the form would not load when a question outside of a repeat used the same relevant expression as a begin repeat question with a minimal appearance.
- Fixed a bug in which a value could not be selected for a `select_one` question with a relevant expression when the form contained a repeat question with a minimal appearance and a label comprised of a static word and a dynamic value pulled from another question.
- Fixed a bug in which a required question hidden by an expression in the **body::esri:visible** column prevented surveys from being submitted.

Survey123 website

Fixes and improvements include the following:

- Author multilingual surveys. See [Manage multiple languages](#).
- Map controls on the **Data** and **Analyze** pages now honor organization map settings.
- Use the `mapExtent` parameter to define the extent of a map that is printed in a report. See [Report templates](#).
- Performance improvements for reports that reference multiple layers with many records and the report template contains many statistics placeholders.
- Fixed a bug in which the unexpected clause of `(1=1) AND (1=1)` was appended to query requests.
- Fixed a bug in which the error message **400: Cannot perform query** was returned when querying distinct values from a field with a specific order.

Update November 7, 2022

This update includes changes to Survey123 Connect, the Survey123 field app and web app, and the Survey123 website.

Survey123 Connect (version 3.16.106)

Fixed a bug in which some publishing errors were not displayed when using a submission URL.

Survey123 field app (version 3.16.107)

Fixed a bug in which app linking may not work as expected on some devices.

Survey123 web app

Fixes and improvements include the following:

- Fixed a bug in which the year was missing and date order was incorrect in some locales in the date picker.
- On Firefox, fixed a bug in which the time question icon did not appear.

Survey123 website

Fixes and improvements include the following:

- Fixed a bug that prevented value filters to apply on the **Data** and **Analyze** pages.
- Fixed a bug in which photos taken in some Samsung devices returned the error **Cannot read property 'width' of undefined** when printing in a report.
- Fixed a bug in which setting a relevant rule did not work for **Image**, **File upload**, or **Audio** questions.

Update October 25, 2022

This update includes changes to Survey123 Connect, the Survey123 field app and web app, and the Survey123 website.

Survey123 Connect (version 3.16.105)

Fixes and improvements include the following:

- Added support for updating feature layer domains and field aliases when republishing a survey.
- Feature layer domains for dynamic choice lists using the `search()` appearance are no longer created.
- The list of the field names not found in the feature layer is now displayed when publishing a survey.
- Added support for querying a feature layer with the `pulldata("@layer")` function. See [Query a feature layer](#).
- Added support for `.tpkx` map packages as linked content.
- Added support for organization templates. See [Organization settings](#).
- Style settings are now applied when creating a survey from an existing survey.
- Added an option to submit feedback for templates and samples.
- Added support for the submission of user-generated community templates.
- New tool to update existing surveys to the latest template. See [Update template](#).
- New tool to create an XLSPalette template file in the **media** folder.

Survey123 field app (version 3.16.106)

Fixes and improvements include the following:

- Added support for querying a feature layer with the `pulldata("@layer")` function.
- Added the `delaySignIn` AppConfig property to address sign-in issues with per-app VPN configurations in an MDM environment.
- Added support for `.tpkx` map packages.
- Fixed a bug in which users may be signed out when returning from offline or the app has been in the background and the token has expired.
- Fixed a bug in which using the `q:globalId` URL parameter failed when using ArcGIS Enterprise.
- Fixed a bug in which "Update Surveys" was incorrectly translated in Portuguese (Brazil).
- Fixed a bug in which cardinal directions were not displayed correctly in Arabic.
- Fixed a bug in which the `format-date()` function returned overlocalized numbers in Arabic.
- Fixed a bug with date questions that caused the wrong month to be selected if the chosen date was in a month with less than 31 days.
- On Android, fixed a bug in which geopoint questions were not being updated with a valid location on some devices, including Trimble TDC600, Samsung Galaxy S21, and Samsung Galaxy S22.
- On Android, fixed a bug in which some supported languages were not displayed on some devices.

Survey123 web app

Fixes and improvements include the following:

- Added support for spatial and attribute calculations with feature layers.
- Added support for audio questions.
- Fixed a bug in which line features were not displaying after changing the basemap for a map question.

- Fixed a bug in which questions with choice filters became unresponsive when the relevant condition changed.
- Fixed a bug in which the map would not automatically zoom to a suitable extent for point locations specified by a search or calculation.
- Fixed a bug in which labels for map questions in multilingual surveys were displayed incorrectly on mobile devices.

Survey123 website

Fixes and improvements include the following:

- Added support for creating surveys from organization templates. See [Organization settings](#).
- Added support for creating surveys from user-generated community templates.
- Improved the user experience for authoring calculations.
- Added support for authoring spatial and attribute calculations with feature layers. See [Calculations](#).
- Added support for authoring **Audio** questions. See [Audio](#).
- Added support for displaying the waveform when playing an audio recording in the form view on the **Data** tab.
- Added support for displaying a warning message when duplicate choice labels are detected for a choice question.
- The **fieldworker** and **stakeholder** feature layer views created in the survey's folder have been renamed **form** and **results**, respectively.
- The form title, survey description, and image header are now written to a note question in the XLSForm named `generated_note_form_title` when publishing a survey.
- Fixed a bug in which default values for single choice questions were not honored in the web designer after refreshing the page.
- Fixed a bug in which invalid values in the **bind::esri:fieldType** column caused reports to fail.

Update September 20, 2022

This update includes changes to Survey123 Connect, the Survey123 field app and web app, and the Survey123 website.

Survey123 Connect (version 3.15.178)

Fixes and improvements include the following:

- Right to left language display improvements.
- Fixed a bug that was preventing the sign-in page from opening in the correct language.

Survey123 field app (version 3.15.159)

Fixes and improvements include the following:

- Added support for URL callbacks when using the **view** action. See [Parameters for a field app](#).
- Fixed a bug that prevented URL callbacks when using the **edit** action.
- Fixed a bug in which Survey123 links would open the **Overview** folder when **Collect** was disabled.
- Fixed a bug in which social logins were being cached and would not sign out.

- Fixed a bug that was preventing the sign-in page from opening in the correct language.
- Fixed a bug in which the number of records returned in the **Inbox** was limited to the `maxRecordCount` set on the feature service. The **Inbox** can now contain a maximum of 5,000 survey responses. See [Enable editing](#).

Survey123 web app

Fixes and improvements include the following:

- Fixed a bug in which calculations were not working as expected in some locales when editing a survey response.

Survey123 website

Fixes and improvements include the following:

- Improved the information shown on the **Collaborate** page that explains which records submitters can update and edit.
- Fixed a bug in which maps in reports were not zooming to features when the basemap used a different coordinate system to the feature layer.

Update August 23, 2022

This update includes changes to Survey123 Connect, the Survey123 field app and web app, and the Survey123 website.

Survey123 Connect (version 3.15.175)

Fixes and improvements include the following:

- Improved right to left language display of thumbnails, descriptions, icons, and settings menus throughout the app.
- Fixed a bug in which the incorrect decimal separator was being used for file size calculation on the **Linked Content** tab.

Survey123 field app (version 3.15.156)

Fixes and improvements include the following:

- Improved the behavior of long pressing a survey tile when the **Allow new surveys to be collected** setting is disabled.
- Improved right to left language display of the favorite answers menu.
- Improved right to left language display of thumbnails, descriptions, icons, and settings menus throughout the field app.
- Fixed a bug in which image width and height EXIF information was being stored incorrectly.
- Fixed a bug in which using `search()` against a public feature service in ArcGIS Enterprise fails when signed in to ArcGIS Online.
- Fixed a bug in which the time selector was displayed incorrectly when switching between 12-hour and 24-hour formats.
- Fixed a bug in which the display of mobile map packages gets distorted with geotrace and geoshape questions.

- Fixed a bug in which the incorrect decimal separator was used for file size calculation in the **Offline Maps, Map Gallery, Linked Content, File question,** and **Settings** menus.
- Fixed a bug in which forward proxy settings were being incorrectly ignored.
- Fixed a bug when signed in to an organization, opening a link that references a different organization fails to download the survey form item.
- On iOS, improved the device model output when using the `pulldata("@Property", 'deviceModel')` parameter.
- On Windows, fixed a bug in which the geometry of a geotrace or geoshape shifts when panning, if the display scale is not set to 100 percent.

Survey123 web app

Fixes and improvements include the following:

- Improved layout for the Single Choice Grid question type in a mobile browser.
- Support drag and drop when adding files to an Image or File upload question.

Survey123 website

Fixes and improvements include the following:

- Support setting a minimum match accuracy for an Address question to improve the data quality.
- Allow the author to choose to not share linked items when sharing a survey.

Update July 28, 2022

This update includes changes to Survey123 Connect, Survey123, and the Survey123 website.

Survey123 Connect (version 3.15.170)

Fixes and improvements include the following:

- A new `calculationMode=whenEmpty` parameter was added to support calculations in read-only questions that have empty values.
- When a survey is published with editing enabled, anonymous users can not edit surveys.
- The gallery for creating a new survey now shows more information for templates and samples.
- Fixed a bug when browsing community templates, that caused the scroll bar to return to top of window unexpectedly.
- Domain names loaded from a feature service have spaces replaced to adhere to XLSForm requirements.

Survey123 field app (version 3.15.151)

Fixes and improvements include the following:

- The close survey dialog box has been reordered to make **Save in Drafts** the first option.
- Fixed a bug with URL parameters `folder=inbox&update=true` that caused them to fail.
- Fixed a bug where multiple reverse geocode requests were being sent repeatedly to the geocode service.

- Fixed a bug where the EXIF orientation value was always stored as 1, regardless of the orientation of the camera when taking the photo.
- The image preview window has been improved to ensure pan and zoom work intuitively on all operating systems.
- The right to left language display issues with gallery tiles and the contents of the folder list view were fixed.
- On iOS, fixed a bug where enabling rotation lock caused landscape photos to be saved as portrait.
- On Android, audio file size calculations are improved.

Survey123 website

Fixes and improvements include the following:

- Questions on the **Design** > **Add** panel are now grouped into categories.
- An option allows you to set number of decimal places in number calculations.
- An option was added to support snapping on map questions.
- A report task can be canceled or removed from the **Report** panel on the **Data** page.
- New option was added on the **Report** panel to handle creation of new reports that may conflict with existing report names.
- A [Report API](#) parameter was added to handle creation of new reports that may conflict with existing report names.
- A [Report API](#) operation was added to cancel an in-progress printing task or to remove finished task.

Survey123 web app

Fixes and improvements include the following:

- Snapping on map questions.

Update June 21, 2022

This update includes changes to Survey123 Connect, Survey123, and the Survey123 website.

Survey123 Connect (version 3.15.165)

Fixes and improvements include the following:

- Survey author can set the file name of an image to be based on a calculation or the answer to a question.
- Survey author can configure the visibility of image file names and the ability to rename image attachments in a survey.
- Geoshape and geotrace questions can be configured to enable vertex streaming.

Survey123 field app (version 3.15.145)

Fixes and improvements include the following:

- Geoshape and geotrace geometry can be captured by streaming vertices from the current location.
- File size of audio attachments has been reduced.

- If configured by the survey author, the visibility of image file names can be changed, and image attachments can be renamed.
- Improved grid theme alignment when using an autocomplete question.
- Fixed right to left language formatting issues with the camera, bar code, basemap chooser, location status, and settings pages.
- Fixed a bug that caused the app to crash when attempting to open a survey with a large number of images.
- On Android 11 and 12, fixed a bug in which distance and destination values were missing when capturing measurements using Spike.

Survey123 website

Fixes and improvements include the following:

- The answer from one question can now be used as part of the label of another question.
- Links that allow edit or view of the response that was just submitted can now be added to the thank you screen of a survey.
- The thank you screen can be configured to automatically reload the survey ready for new record capture.

Survey123 web app

Fixes and improvements include the following:

- Display a survey's title, thumbnail, and summary when shared on social media.
- If configured by the survey author in Survey123 Connect, map questions now support the nominated number of decimal places.

The web app no longer supports surveys published with version 2.5 or earlier. See [Web app version](#).

Update May 26, 2022

This update includes changes to Survey123 Connect, Survey123, and the Survey123 website.

Survey123 Connect (version 3.14.281)

Fixes and improvements include the following:

- Additional `pulldata()` properties have been added. See [Device and user properties](#).
- When Survey123 Connect republishes a survey with new fields, the hosted layer view is now updated with these fields.

Survey123 field app (version 3.14.262)

Fixes and improvements include the following:

- Configure decimal values for UTM easting and northing. See [Coordinate format](#).
- Fixed a bug causing date selection to not be saved after clicking outside the date`Time` question.
- Fixed a bug causing surveys in the inbox that contain images to not load.
- Fixed a bug when interacting with a large number of images in the image tile viewer would crash the app.

- Fixed a bug causing line or polygon features to unexpectedly shift after editing is completed.
- Fixed a bug preventing sent surveys from being edited when the survey was created in the web designer.
- On Android, fixed a bug in which the expected position information from high-accuracy receivers was not displayed or saved in the app.

Survey123 website

Fixes and improvements include the following:

- Survey author can set a minimum map scale to capture geometry.
- When sharing a survey to others, the author is prompted to change the sharing level of related items (for example, web map, locator).
- Additional device and user properties can be used in calculations in the web designer. See [Device and user properties](#) in the web designer.
- Additional pulldata() properties have been added. See [Device and user properties](#).
- Reports will now print all records even when the maxRecordCount value of the feature layer is exceeded.
- Reports meet PDF accessibility compliance.

Update April 19, 2022

This update includes changes to Survey123 Connect, Survey123, and the Survey123 website.

Survey123 Connect (version 3.14.274)

Bulgarian language support has been added.

Survey123 field app (version 3.14.255)

Fixes and improvements include the following:

- Bulgarian language support has been added.
- Relevant and calculate expressions that remove a value now update the feature layer as expected.
- Leading zeros are no longer removed from values when submitting through the **Inbox**.
- Added ability to connect to GNSS receivers with output baud rates other than 4800.
- Fixed a bug causing MP4 attachments to be uploaded as the incorrect content type.
- Fixed a bug causing relevant expressions based on previous questions with default values to not populate as expected.
- Integer choice labels in select_one_from_file questions will now display when loaded from the **Inbox**.
- Fixed a bug causing select_one questions with autocomplete appearance to not display correctly when a default is applied.
- Fixed a bug causing select_one questions with autocomplete appearance in repeats to display choice names rather than choice labels when navigating between repeat records.
- Fixed a bug causing select_one questions with autocomplete appearance in repeats to only populate a default in the first repeat.

- Fixed a bug in which users were unable to download public surveys with anonymous access disabled if saved on ArcGIS Enterprise.
- On Android, fixed a bug causing images collected with Spike to not display correctly.

Survey123 website

Fixes and improvements include the following:

- Bulgarian language support has been added.
- Reports now support the statistic types **range**, **first**, **last**, and **median**, as well as unique values and counts of unique values.
- A confirm button has been added when responding to **Map** questions on a mobile device.
- Fixed a bug causing filtering of select one questions to display blank drop-down entries.
- Fixed a bug that caused image questions to not enforce the **count-selected** constraint if the survey title contains uppercase characters.
- Fixed a bug in report templates in which statistics derived from fields in nested repeats will produce unexpected results if the survey record has no repeat records.
- Fixed certain error messages not fitting within the dialog box.

Update March 22, 2022

This update includes changes to Survey123 Connect, Survey123, and the Survey123 website.

Survey123 Connect (version 3.14.261)

Fixes and improvements include the following:

- On the **Contrast Ratio** dialog box, the decimal separator is now displayed according to the system locale.

Survey123 field app (version 3.14.242)

Fixes and improvements include the following:

- Geopoint questions now support the [press-to-locate appearance](#).
- An existing survey will now be opened when referenced by a URL parameter.
- Fixed a bug that prevented the Inbox from refreshing when opening a survey using URL parameters.
- Fixed a bug that caused URL parameters that make a question relevant to fail to display the correct value.
- Fixed a bug that caused the group expand and collapse indicators to fail to appear when editing existing surveys.
- Webhooks will now be triggered when editing and adding an image to a record.
- On Android, numbers are no longer truncated when using input masks.

Survey123 website

Fixes and improvements include the following:

- In the web designer, the **Hide from survey** option is now available for **Single Choice** and **Dropdown** questions.
- In the web designer, the **Do not submit the answer** option is now available for **Address** questions.

- The `hide URL` parameter now supports the `leaveDialog` property, preventing the warning message when leaving the web page with unsent data.
- Report templates now support composing the where clause dynamically by concatenating other attribute values.
- Fixed a bug causing filtering survey results based on a select multiple question to not load the choices.
- Fixed a bug preventing layer IDs from being preserved in stakeholder view.
- Fixed a bug causing question validation to not be honored if an initial geometry was recorded before publishing.
- Fixed a bug causing survey sharing to fail if a survey published from Survey123 Connect with a tile package from a custom basemap.
- On Android, fixed a bug causing opening a survey by scanning a QR code to fail.
- On iOS, fixed a bug causing read-only date and time questions to be editable.

Update February 22, 2022

Survey123 Connect (version 3.14.256)

Fixes and improvements include the following:

- The new `calculationMode` parameter allows for configuring when calculations are triggered.
- Custom drawing tool palettes for draw and annotate questions can now be added.
- The new **Media** tab in a survey allows for viewing and opening files in the media folder.
- Updated capabilities of feature layers created when publishing a survey.
- Draft surveys no longer appear in the **My Surveys** or **My Organization** lists.
- When empty values in repeats are passed to a JavaScript function, undefined values are now distinguished from null values.
- Bezel previews have been updated.
- Fixed a bug on publishing that incorrectly set if daylight savings time is respected for start and end questions.

Survey123 field app (version 3.14.237)

Fixes and improvements include the following:

- Performance improvements have been made to calculations, making them faster and more stable.
- The new **Overview** folder provides a list and map view of all survey responses currently on the device. This folder must be enabled in Survey123 Connect on a per-survey basis.
- Improved UI and workflow for annotate questions with multiple capture methods.
- Autocomplete choice lists with integer choice names of ten digits or more will no longer return invalid results.
- Improved UI for barcode scanning.
- Fixed a bug causing all surveys in the **Download Surveys** page having the same thumbnail.
- The app will no longer lock users out of Active Directory when accessing a survey with a linked web map when using a portal with Integrated Windows Authentication.
- Fixed a crash when generating a new repeat record.

- Fixed an issue that was preventing default images inside repeats being loaded when opened via **Drafts, Sent** and **Outbox**.
- Logins will no longer cache, which was preventing a new user from signing in once a previous user had signed out.
- Fixed a bug preventing calculations running on questions with null field types in responses opened from the Inbox.
- Fixed a bug preventing images with dynamic URLs from displaying.
- Fixed a bug causing relevant questions in nested repeats submitting blank or duplicate answers.
- Fixed a bug causing labels to not appear for table-list appearance questions in a group or repeat.
- On Android, fixed a crash caused by geosearch when using a custom locator.
- On iOS, fixed a crash caused by multiple consecutive calculations.
- On iOS, fixed a crash when loading a survey with a large number of relevant questions.
- On iOS, fixed a crash caused when changes are made to the relevancy of questions within groups.
- On iOS, unrestricted watermark images are no longer limited to 1920x1080 pixels.

Survey123 website

Fixes and improvements include the following:

- A specific geocoding service can now be set when adding a **Map** or **Address** question in the web designer.
- The web designer now supports setting a basemap outside of the organization's basemaps group for **Map** questions.
- The maximum number of results for an **Address** question can now be modified in the web designer.
- Multiple records can now be included in a single map when printing reports.
- Location can now be captured when opening a survey.
- Reports now support the rotation of images.
- Improved UI and accessibility for date and time questions.

Update December 14, 2021

Survey123 Connect (version 3.13.251)

Fixed an error when publishing to an existing feature layer when using an ArcGIS Enterprise solution using IWA authentication.

Survey123 field app (version 3.13.246)

Fixed a bug where images were not returned when loading inbox records when using an ArcGIS Enterprise solution using IWA authentication.

Survey123 website

Fixes and improvements include the following:

- A new option has been added to set the maximum attachment file size for **Image** and **File upload** questions. Attachments can now be a maximum of 100 MB when using ArcGIS Online, and 20 MB when using ArcGIS Enterprise.
- Survey information can now be edited on any survey page by clicking the button next to the survey title.
- Maximum number of results can now be set for **Address** questions by setting the `maxResults` parameter in the `bind::esri:style` column in Survey123 Connect.

Update November 16, 2021

Survey123 Connect (version 3.13.249)

Fixes and improvements include the following:

- The `fixed-grid` and `dynamic-grid` styles are now used to create grid layout surveys. The `theme-grid` style is still supported for backward compatibility purposes.
- Grid layout styles can now be applied on a per group or per repeat basis.
- Nested repeats and nested groups can now have both the column and span specified individually.
- On the **Scripts** tab, size and font of script text can be changed.
- A default image can be set as the background for image questions with the `signature` appearance.
- The `max-pixels` parameter can be used to set the maximum width for image questions with the `signature` appearance.
- The `multiline` appearance is now supported for image questions with the `signature` appearance, allowing for multiple attachments to the same question in a survey.
- The new `overlay` parameter can be used to display repeated geopoints on any map in your survey.

Survey123 field app (version 3.13.244)

Fixes and improvements include the following:

- On the canvas for the `draw` and `annotate` appearances, new graphic elements can be edited before the image is saved.
- You can now view and add signature attachments via the Inbox.
- Image questions with the `signature` appearance are presented as a button that opens a pop-up for signing. More than one signature can be captured.
- Stability and localization have been improved for text questions with the `geocode` appearance.
- On Windows, a bug was fixed that was preventing airplane mode from being detected correctly.
- On Android, an issue was fixed that could cause the app to crash on startup.

Survey123 website

Fixes and improvements include the following:

- Improved performance for word cloud charts with many records in the **Analyze** page.
- Improved performance of the **Analyze** page when loading very large choice lists.

Update October 25, 2021

Survey123 website

Fixes and improvements include the following:

- A warning message will now be displayed in the **Collaborate** page if, when sharing the survey, the users the survey is being shared with will be able to read the survey results.
- A message will now be displayed in the **Collaborate** page if the survey is not using a feature layer view.
- Fixed a bug in the **Data** and **Analyze** pages that prevented filters from working for questions within repeats.
- Fixed a bug causing the incorrect amount of credits being charged when printing reports.
- In the web app, a bug was fixed that was preventing Address questions from being populated if a calculation references another question.
- In the web app, surveys authored in Survey123 Connect will no longer display links in the thank you page as HTML code.
- A new template was added, **Oiled Wildlife Report**.

Update October 7, 2021

Survey123 Connect (version 3.13.239)

Fixes and improvements include the following:

- Improved survey load time for large surveys when collecting a new record or opening existing records.
- Fixed a bug that prevented sign-in to ArcGIS Online or ArcGIS Enterprise through an external browser.

Survey123 field app (version 3.13.234)

Fixes and improvements include the following:

- Improved survey load time for large surveys when collecting a new record or opening existing records.
- Fixed a bug that prevented sign-in to ArcGIS Online or ArcGIS Enterprise through an external browser.
- Fixed a bug that caused signature images to appear cropped and display excessive black background when viewing the image.
- Fixed a bug when editing existing records that caused the required message to display even when an image question has an image already submitted.
- Fixed a bug where choice list values were not repopulated when selecting a different choice filter value in cascading selects.
- Fixed a bug where choice list values were cleared when opening an existing record that uses the search() appearance populated with a URL.

Update September 16, 2021

Survey123 Connect (version 3.13.234)

Fixes and improvements include the following:

- Search for and submit a geocoded address in a text question using a `geocode` appearance.
- Drawing and annotation tools have been expanded to include more choice of symbol and line styles, colors, and text options.
- The new `search()` appearance allows choice lists to be populated dynamically by applying queries to existing feature layers.
- You can now use the `max-pixels` parameter to set the canvas size for draw appearance questions.
- `Table-list` appearance is now working as expected when the survey style is set to `pages`.
- Support has been added for the `body::accept` column, allowing for a `file` question to be restricted to accept only certain file types.
- The `backgroundColor` parameter now supports repeats in grid-theme surveys.
- The app will no longer hang on republishing when you have added questions only inside repeats.
- Fixed a bug that caused labels to not appear when using defaults for `select_one` questions with the `minimal` or `autocomplete` appearances.
- Fixed an issue preventing sign-in using an ArcGIS account linked to a Google account.
- An empty feature layer will no longer be created when a 301 or 302 error is encountered in publishing.
- Slovak is now a supported language.

Survey123 field app (version 3.13.229)

Fixes and improvements include the following:

- Search for and submit a geocoded address in a text question using a `geocode` appearance.
- Public surveys now have access to the inbox.
- View and add image attachments for existing records.
- Drawing and annotation tools have been expanded to include more choice of symbol and line styles, colors, and text options.
- Annotation canvas size honors the resolution of the provided image.
- Leading zeros are no longer dropped from values that appear to be numbers but are, in fact, strings.
- Surveys no longer fail to submit when the field app is moved to background (for example, when returning to another app via a callback URL).
- The EXIF properties of an image provided to an `annotate` appearance question are copied to the annotated image.
- Added support for discovering network location sensors.
- On Android, the `file` question type now supports `.gtar`, `.csv`, `.xml`, `.avi`, and `.bmp` file types.
- Questions with choice lists are now top-aligned in grid-theme surveys.
- The app will no longer crash when zooming or panning when using the OpenStreetMap Daylight Esri Street Style basemap.

- Fixed a bug that prevented tiled image layers and raster tile packages from appearing in web maps.
- Fixed a bug that caused the **Inbox** to scroll automatically.
- Fixed an issue preventing sign-in using an ArcGIS account linked to a Google account.
- On Android, fixed a bug when using the default keyboard for multiple choice questions using the `autocomplete` appearance.
- On iOS 14, fixed a bug where users could not select images from Photo Gallery.
- Slovak is now a supported language.

Survey123 website

Note:

Internet Explorer 11 and Microsoft Edge Legacy support is now deprecated. This includes version-locked surveys.

Fixes and improvements to the Survey123 website include the following:

- You can now rename surveys after their initial publishing in all pages for that survey in the Survey123 website.
- Creating a survey no longer requires inputting a name or tags.
- The new `drawingInfo` method for report templates allows the template to define elements such as symbology, labeling, and transparency when printing a map image.
- Improvements have been made to the repeat user interface.
- The new `format` method for report templates allows the template to specify elements such as integer length and grouping separators in a number field.
- Viewing images on the **Data** and **Analyze** pages now supports zooming.
- Improved performance for printing a large number of map images in one report.
- Fixed a bug that caused incorrect time to be displayed when editing a date and time question in the **Data** page.
- Fixed a bug preventing users with the Viewer role from seeing some attachments.
- Fixed a bug preventing hidden questions from displaying in the **Analyze** page.
- Fixed a bug preventing image attachments from being renamed in the **Data** page.

Fixes and improvements to the Survey123 web designer include the following:

- A new **Address** question type has been added to allow search for and submitting a geocoded address in a text question.
- You can now design calculations for questions within the web designer.
- The website and web designer now validate HTML tags, allowing the same tags as those supported by ArcGIS Online.

Caution:

Some HTML tags that functioned in previous releases are no longer supported.

- You can now set questions to be read-only.

- You can now set questions to be hidden from view.
- You can now set questions to not submit the answer as part of the survey response.
- You can now add multiple Map or Address questions to a single survey in the web designer. Only one of these questions can submit geometry.
- Input masks are now supported.
- Images embedded in note questions are now displayed at full resolution.
- Fixed a bug that prevented the editing of the thank you page in surveys created in Survey123 Connect.
- Fixed a bug that caused rule corruption with choice list questions.
- In German, fixed a bug that led to missing basemaps when adding a Map question.

Fixes and improvements to the Survey123 web app include the following:

- The Survey123 web app now supports dynamic choice lists using the search appearance set in Survey123 Connect.
- The web app now supports use of a screen reader.
- Improved repeat UI, allowing for navigation to specific repeat records.
- The new `recalculate` URL parameter allows for fields with calculations to be automatically recalculated when editing a survey record.
- Changing the language of your survey will now change the results of `pulldata("@property", 'language')` or `jr:choice-name` functions.
- The `jr:choice-name()` function will no longer produce an error when editing a survey.
- Fixed a bug causing the web app to not submit responses to required date and time questions.
- Fixed a bug that prevented multiline image questions with a `count-selected()` constraint from submitting multiple images.
- The web app will no longer fail to access external items such as CSV files when signed in to a portal using Integrated Windows Authentication.

Update March 18, 2021

Survey123 Connect (version 3.12.232)

Fixed an issue that numbers could not be entered when using the numbers appearance with locales that use a comma decimal separator.

Survey123 field app (version 3.12.277)

Fixed an issue that numbers could not be entered when using the numbers appearance with locales that use a comma decimal separator.

Survey123 web app

Fixes and improvements include the following:

- Fixed an issue where answering time questions during daylight saving time periods, did not save the correct time in the feature layer.
- Fixed an issue when a hidden question is included in a survey that has draft mode enabled, the previously saved answers would not appear.
- Fixed an issue where web surveys that contained encoded URL parameters and use the ?code parameter, would not display.
- Fixed an issue where versions of Survey123 Connect prior to 3.12, would publish web forms with ill-formed choice question layout.
- Additional locales can be included as a URL parameter for the web app. See [Supported languages](#).

Update February 25, 2021

Survey123 Connect (version 3.12.230)

Fixes and improvements include the following:

- New **Scripts** tab to make it easier to get started with JavaScript functions.
- Support added for `position` and `indexed-repeat` functions, allowing the user to query values from questions inside indexed repeats.
- Support added for the `max-pixels` parameter in image questions, allowing for the maximum pixels of an image to be set on a per question basis.
- Support added for the `compact-n` appearance, for presenting the choices for `select_one` and `select_multiple` questions horizontally in a specified maximum number of columns.
- The Windows app installer now identifies previous versions of the app and allows users to install over the top of the previous installation.

Survey123 field app (version 3.12.274)

Fixes and improvements include the following:

- Handling of choice lists and cascading selects has been improved for speed and stability.
- External select choice filters can now use name values as numbers.
- Camera preview improved to better reflect the image that will be captured by the camera.
- The speed and reliability when scanning PDF417 bar codes has been improved.
- Improved handling of bar code scanner rotation on Windows.
- Fixed an issue where internal position sensor logging was not producing valid NMEA log files.
- Windows AppConfig enterprise configuration properties are now supported via use of registry keys.
- The Windows app installer will now identify previous versions of the app and allow users to install over the top of the previous installation.
- On Android, in accordance with changes to Google Play requirements, on first startup existing data files will be moved to app-specific storage.

Survey123 website

Fixes and improvements include the following:

- New template gallery for creating surveys.
- Support for formatting numbers in reports.
- Share surveys to allow other users to update them.

Update December 10, 2020

Survey123 website

Fixes and improvements include the following:

- Organization administrators can now change the owner of a survey.
- The **Analyze** page now provides additional methods to display number questions, as well as to set custom number ranges.
- The **Analyze** page now provides options to customize scoring, or hide answers, for ranking questions.
- The survey title, survey description, and other UI elements can be rewritten within the XLSForm. For more information, see [Notes](#).
- The Survey123 web app URL now supports a parameter to copy an existing survey's response into a new survey.
- Improvements made to report creation to better handle attachments and large numbers of records.
- Date questions with non US data format, now have their responses submitted in the expected non US date format.

Update October 15, 2020

Survey123 Connect (version 3.11.123)

Fixes and improvements include the following:

- The UI has received a significant update, including tabs that allow quicker access to a survey's details, style, and linked content.
- Survey authors can now alter the colors of input backgrounds, footer text, and footer backgrounds.
- The **hidden** appearance type can now be selected for all question types. This hides the question from view, but still allows it to accept defaults and calculations.
- The **rank** question type, previously only available in the Survey123 web app as the Ranking question type, can now be added in Survey123 Connect.
- You can now choose for the contents of choice lists to be in a randomized order.
- Cascading selects can now be used with `select_multiple` questions.
- Choice lists for `select_one` and `select_multiple` questions can now be loaded from a CSV file in the survey's `media` folder.
- Fixed a bug preventing a new survey being created from an existing feature service.
- Fixed an issue that caused surveys submitted from ArcGIS Workforce to not populate the Address field.

Survey123 field app (version 3.11.164)

Fixes and improvements include the following:

- Rank questions are now supported in surveys.
- On iOS, file questions now have the option to select either an image or a file.
- Pages configured to not be relevant or hidden will now be hidden from view and will no longer display a blank page.
- Fixed a bug that sometimes prevented the user from saving an AM time in a time question.
- Fixed a bug that caused horizontal and vertical lines to disappear when using the draw and annotate appearances for image questions.
- Fixed an issue that prevented anonymous users from downloading related map sources and offline map packages for public surveys.
- On Windows 10 tablets, fixed a bug that prevented the user from selecting the profile and settings buttons.
- On Juniper Mesa 2 Windows tablets, fixed a bug that caused the app to crash when using the camera for an image question.

Survey123 website

Fixes and improvements include the following:

- HTTPS is now required to use the website. All HTTP URLs will redirect to HTTPS.
- Web URL parameters now support providing answers to polyline and polygon questions.
- The new autoRefresh URL parameter can be used to automatically reload a survey after submission.
- A new quick reference for reports is now available, providing useful syntax examples.
- The Survey123 web designer now provides the option to limit image questions to only accept images from the device camera.
- You can now choose for the contents of choice lists to be in a randomized order.
- Images stored elsewhere online can now be provided in reports.
- Reports now support rotating map views.
- Reports can now display the index of a repeat record, or the index of a record in the set of records selected to print.
- Date and date-time values can now be localized to a given locale in reports.
- Variable substitution is now supported in report expressions.
- Stakeholders can now be prevented from downloading survey data.
- The web designer now respects organization map settings.
- Improved load times and performance across the web app.
- Fixed a bug that prevented some organizations from publishing surveys in the web designer.
- Fixed a bug that prevented single choice questions from functioning if they used an external select.

Update September 10, 2020

Survey123 field app (version 3.10.326)

Fixes include the following:

- Fixed a crash when updating a survey from the gallery.
- On Windows, fixed a bug where registry keys used to launch the app from a URL would not be created if the app was downloaded from the Microsoft Store.
- On Windows, fixed a crash when the window is resized.
- On Android, fixed a crash on sign-in on devices without access to the Google Play store.
- On Android 32-bit devices, Standard map types will now display.
- On Android 32-bit devices, fixed a crash when multiple select one drop-down lists are expanded at the same time.

Update August 6, 2020

Survey123 Connect (version 3.10.239)

Fixes and improvements include the following:

- A new **file** question has been added. This allows users to attach a number of file types to the survey response as an attachment.
- The **multiline** appearance type can now be applied to image and file questions, to submit more than one attachment for a single question.
- The new `pulldata("@property", "mode")` function can be used to alter survey behavior depending on whether the user is creating a response, editing an existing response, or viewing a submitted response.
- The **Settings** tab for a survey has received a significant UI overhaul.
- Survey authors can now require users to update to the latest version of a survey before submitting responses.
- The **Setting** tab's new **Options** page provides options to prevent new surveys from being collected, as well as controlling what users can do within the **Inbox** and **Sent** box.
- Diagnostic log files can now be sent through email, and shared through other apps.
- Silent installations can now be run without installation and uninstallation pop-ups.

Note:

Update your silent installation and uninstallation scripts to the latest version to ensure that this behavior is present.

- Fixed an issue in which Survey123 Connect would force a new feature layer to be created when the schema is table-only.
- Various bug fixes and enhancements.

Survey123 field app (version 3.10.323)

Fixes and improvements include the following:

- Support for basemaps has been improved, including support for additional types of offline map packages and web maps.
- The basemap selection menu is now populated by the organization's default basemap group, rather than a series of defaults.
- New survey sorting options are available.
- The **Map** tab in the **Inbox**, **Drafts** box, **Outbox**, and **Sent** box has been improved and is now always visible, even if your survey lacks a geopoint question.
- You can now copy surveys from the **Inbox**.
- The list views in survey folders now provide distance and direction to each survey response.
- The Survey123 field app can now accept parameters passed through app linking using the domain <https://survey123.arcgis.app/> on Android and iOS.
- Barcode functionality has been added to individual survey contents pages, allowing users to download and open specific survey responses through scanning a barcode.
- An option has been added to configure diagnostic logging to the AppStudio Console via barcodes.
- Diagnostic log files can now be sent via email, and shared through other apps.
- GNSS data can now be recorded to a file.
- A file can now be set as a location service provider, allowing for loading NMEA location information directly from a file.
- Various improvements have been made to the Survey123 URL scheme, including the ability to access surveys in the **Inbox** via URL, and the ability to open an existing survey response in view or edit mode.
- Survey123 app linking is now supported, as an alternative to the Survey123 URL scheme. These Survey123 links support a callback parameter, and will prompt the user to install Survey123 if the app is not already installed.
- Silent installations can now be run without installation and uninstallation pop-ups.

 **Note:**

Update your silent installation and uninstallation scripts to the latest version to ensure that this behavior is present.

- On Android, fixed an issue preventing switching between front and rear cameras.
- Support has been added for AppConfig and the `portalURL` property.
- Various bug fixes and enhancements.

Survey123 website

Fixes and improvements include the following:

- Survey123 feature reports now support summary sections, which print only once, no matter how many records are selected.
- Three choices are now provided when generating a sample feature report template: a feature report, a summary report, or a combined summary and feature report.

- Aggregate functions are now supported in feature reports, to generate results based on a number of your survey responses. For more information, see [Feature report queries](#).
- A new Ranking question type has been added. This question type allows users to rank a series of choices from highest to lowest.
- Multiple files can now be submitted in response to image and file upload questions.
- Locally stored images can now be used when designing a survey.
- Administrators can now manage surveys in their organization on the same level as the survey's author.
- Keyboard navigation support has been added to the Survey123 web app.

 **Note:**

This does not apply to the new Ranking question type.

- The Survey123 web app now supports the parameter `encodeURIComponent=true`. This will encode the URL, preventing the recipient from altering or removing URL parameters.
- Webhooks now support images and repeats.
- Webhooks now support reading the full survey response when a response is edited.
- Various bug fixes and enhancements.

Update May 7, 2020

Survey123 field app (version 3.9.149)

The Survey123 URL scheme now accepts decimal commas for all locales that use them. Fixes include the following:

- Fixed a bug where a geopoint would not set to location from Workforce when device in French locale.
- Fixed a bug where ArcGIS Collector would not pass the XY parameters to ArcGIS Survey123 as expected using Arcade expressions in French locale.

Update April 2, 2020

 **Note:**

Starting with this release, the Survey123 field app and Survey123 Connect no longer support Windows 7, due to Microsoft ending extended support on January 14, 2020. For more information, see [Microsoft's support article on the end of Windows 7 support](#).

Survey123 Connect (version 3.9.120)

Fixes and improvements include the following:

- Survey update available workflow has been updated.
- Calculations are now supported in `select_multiple` questions.
- Support has been added for portals using Public Key Infrastructure (PKI) authentication.
- Various UI and UX improvements have been made to the portal sign in experience.

- The `previewHeight` parameter has been added to allow for defining a custom image size when displayed in your form.
- Issues related to the **week-number** appearance have been fixed.
- Fixed a bug that prevented the **Edit in Survey123 Connect** button in ArcGIS Online from functioning.
- An issue with publishing z-enabled feature services and default z-values being enabled has been fixed.
- Various bug fixes and enhancements.

Survey123 field app (version 3.9.148)

Fixes and improvements include the following:

- Survey update notifications are now displayed on the gallery page when new updates are available. These surveys can be updated by selecting them in the gallery, or select the notification to navigate to the **Update Surveys** page. Pulling down on the gallery page will refresh the count of surveys with available updates.
- A new **Update Surveys** page has been added to display only a list of downloaded surveys with available updates.
- The **Download Surveys** page now alerts the user when updated surveys are available and provides a button to update all surveys at once.
- Various UI updates have been made to the **Download Surveys** page.
- The **Settings** menu has been updated with additional sign in and sign out experience and information.
- Support has been added for portals using Public Key Infrastructure (PKI) authentication.
- Various UI and UX improvements have been made to the portal sign in experience.
- Fixed a bug that caused the user to be unexpectedly signed out when their device is offline.
- Double-tapping buttons within the app will no longer cause unexpected behavior, such as deleting repeat records or moving a geopoint after completing a geosearch.
- iOS Split View is now supported.
- Fixed a bug preventing the field app from accepting URL parameters setting percent-encoded fields.
- Various other bug fixes and enhancements.

Survey123 website

Fixes and improvements include the following:

- A new Map question has been added. This replaces this existing GeoPoint question type and supports submitting either a point, line, or shape as geometry.
- You can now reference a survey question's contents when naming a feature report.
- A new web app JavaScript API is available to interact with the web app on the runtime level. For more information, see [this GeoNet blog post](#).
- The **Set Visibility** panel on the **Analyze** page is now the **Navigation** panel, containing the ability to navigate to specific questions as well as the ability to hide or show specific questions.
- The **Data** and **Analyze** pages can now be shared via URL.
- Draft mode has been added, allowing response data to be saved on the user's device for later submission.

- Improved accessibility in the web app.
- Various bug fixes and enhancements.

Update January 21, 2020

Survey123 website

Fixes and improvements include the following:

- Feature reports now include a preview mode, to allow for testing a report template without consuming credits.
- Feature reports now support PDF as an output format.
- New expressions are now supported in feature report templates, including `utcOffset`, `selected`, `countSelected`, and `selectedAt`. For more information, see [Feature report templates](#).
- Groups, repeats, and individual questions within repeats can now be hidden by conditional statements in feature reports.
- Labels have been improved for bar charts with a large amount of choices or long choice labels.
- The default basemap for a geopoint question set in Survey123 Connect is now honored in the Survey123 web app.
- Stakeholders and field workers can now edit their survey responses through the Survey123 web app.
- Users with an Administrator role are now able to share a survey to everyone, even if the organization has disabled the ability to share content publicly.
- Fixed a bug that caused select one responses with a comma in the name value to not display in feature reports.
- Geopoint questions using the hide-input appearance no longer report identical easting and northing UTM coordinates.
- On Microsoft Edge and Internet Explorer 11, improved location capture.
- Fixed a bug that caused surveys to fail to publish in the Survey123 web designer after adding an image URL link.
- Images in note questions now honor their alignment settings in the web app.
- Fixed a bug that caused pressing **Enter** on text questions to sometimes open the device's camera.
- Fixed issues with capturing current time in the web app.

Update December 17, 2019

Survey123 field app (version 3.7.57) and Survey123 Connect (version 3.7.62)

Fixes include the following:

- Fixed an issue with watermarks in which latitude and longitude coordinates were not displayed correctly on the captured image.
- The survey action menu will no longer display in Survey123 Connect when the survey has not yet been downloaded locally.

Update December 5, 2019

Survey123 field app (version 3.7.56)

Fixes and improvements include the following:

- New UI and input controls for questions using the numbers and calculator appearances.
- The **Inbox** search filter now only searches user defined fields, not metadata fields.
- The survey's version, if specified in the **Settings** sheet of the survey's .xlsx file, is now displayed on the survey's info page.
- Improvements have been made to geotrace and geoshape capture.
- Basemap zoom level is now preserved when switching basemaps using **Standard** map types.
- Support has been added for the Juniper Geode external GNSS device.
- An issue with **Host not found** or **Getting Service Information** network errors on survey submission has been fixed.
- Questions using the numbers and calculator appearances no longer cause the default device keyboard to appear.
- Fixed an issue with questions using the numbers appearance not storing values when navigating to the next question.
- Performance upgrades have been made to the **Inbox** when it contains more than 1000 records.
- In right-to-left languages, coordinate inputs with negative values will now function.
- Fixed instances of untranslated strings in all languages.
- Various bug fixes, localization fixes, and improvements.

Survey123 Connect (version 3.7.60)

Fixes and improvements include the following:

- A new appearance type of **thousands-sep** has been added for decimal questions. This will add thousands separators to the number given for a decimal question. For more information, see [Appearances](#).
- The table-list appearance can now be used in surveys published to ArcGIS Enterprise.
- Fixed instances of untranslated strings in all languages.
- Various bug fixes and improvements.

Survey123 website

Fixes and improvements include the following:

- Fixed a bug preventing the web app from submitting a response to a survey with a repeat in ArcGIS Enterprise with the error **Cannot read property '0' of undefined**.
- Fixed a bug preventing the web app from editing a response to a survey with related tables made from a feature service on ArcGIS Enterprise with the error **Failed to submit -Cannot set property 'z' of null**.

Update October 17, 2019

Survey123 field app (version 3.6.157, Android and iOS only)

Fixes include the following:

- Corrupted characters will no longer appear in some languages on iOS 13.
- Fixed a bug preventing Japanese keyboards from working on iOS 13.
- Sorting the image gallery on Android will no longer cause images to display in a random order.

Survey123 website

Fixes include the following:

- Invalid geometry will no longer be submitted when there is no geopoint question in a survey, or no answer for an existing geopoint question.
- Fixed a bug preventing surveys in the web designer being saved when they contain a choice name over 32 characters.

Update September 26, 2019

Survey123 field app (version 3.6.153)

Fixes and additions include the following:

- A bug causing default values to be stored and sent in fields that are not currently relevant has been fixed.
- Geopoint questions in the first instance of a repeat will no longer ignore calculations.
- Fixed a bug causing geopoint calculations that use values in a parent layer to not apply after the first repeat.
- Hidden and calculate questions inside a group now honor relevant expressions applied to the group.
- Fixed an issue that caused default values in notes and read-only text questions to not display.
- Fixed an issue where calculations in a nested repeat caused the app to send an empty record.
- Fixed various issues with `pulldata()` expressions not working with relevant questions.
- The **Tab** key on a keyboard now allows you to move through questions and scroll the survey automatically.
- Pressing the **Enter** key in an input field now advances to the next question.
- Input controls now stay in focus when the app window changes sizes.
- Barcode scanning has been improved on Android devices that do not support continuous focus, and for Android 64-bit.
- Barcode question camera settings such as zoom, barcode type, and flash are now persisted on a per-question level.
- Image question camera settings such as zoom and flash are now persisted on a per-survey level.
- Copying a survey with repeats from the **Sent** box when using ArcGIS Enterprise will no longer cause related records to move to the new parent.
- Fixed camera orientation issues with camera and barcode questions on iOS.
- **Standard** map type support has been added as a beta feature to support a greater number of map types. For more information on what this means, including a list of map types supported, see the [quick reference](#).

Survey123 Connect (version 3.6.137)

Fixes and additions include the following:

- New question types **geotrace** and **geoshape** have been introduced. These allow users to create line and polygon feature services, and create surveys from existing polyline and polygon feature services. For more information, see [Geotrace and geoshape](#).
- The Survey123 Connect survey **Settings** tab now provides a **Linked Content** tab to associate maps stored on ArcGIS Online or ArcGIS Enterprise to your survey.
- The new question type **range** has been introduced. This provides a slider to select from a set range of numbers. For more information, see [Range](#).
- A new appearance type of **table-list** has been added for groups. This will format all select one questions in the group that use the same choice list in a table format. For more information, see [Appearances](#).
- A new appearance type of **image-map** has been added for select one and select multiple questions. This will provide an attached SVG image with selectable regions as choices. For more information, see [Appearances](#).
- Relevant expressions can now be applied to hidden, calculate, note, and read-only text questions.
- Hyperlinks can now be applied in the choice labels of select one and select multiple questions.
- The theme-grid survey style now supports more appearance types.
- Text questions with the multiline appearance have limited support of height control. For more information, see [Appearances](#).
- The height of map questions and images with the signature appearance can now be set in the **bind::esri:style** column. For more information, see [Esri custom columns](#).
- The ability to add your own bezels to the form preview has been added. For more information, see [Preview your survey](#).
- **Standard** map type support has been added as a beta feature to support a greater number of map types. For more information on what this means, including a list of map types supported, see [Include a map in your survey](#).

Survey123 website

Fixes and additions include the following:

- Map questions can now be enlarged in the web app when working in a desktop browser.
- Geopoint questions in the web app now use click-to-locate to select a location, rather than the previous pan-to-locate.
- The new `?mode=view&objectId=` URL parameter can be used to open an already submitted record in the feature service using the web app.
- You can now manually set choice names for Multiple Choice questions in the web designer.
- Choice names set in the web designer now support non-Latin characters.
- Feature reports now provide the ability to round decimal responses to a set number of places.
- Feature reports can now extract the altitude value of a geopoint question.
- Feature reports can now extract latitude and longitude values in a specified spatial reference.
- Various bug fixes have been made.

Update August 8, 2019

Survey123 field app (version 3.5.177)

Fixes include the following:

- Downloading a survey will no longer hang when using ArcGIS Enterprise 10.7 or earlier.
- Downloading a survey will no longer hang if opened from the survey sharing URL provided in the Survey123 website.
- TPK files now display in the basemap menu on 32-bit Android devices.

Update August 1, 2019

Survey123 field app (version 3.5.176) and Survey123 Connect (version 3.5.166)

Fixes include the following:

- The `today()` calculation for `date` and `dateTime` questions now returns the time value for midday on that day, rather than midnight.
- Fixed a bug that prevented calculations from functioning in `date` questions if they didn't include a time component.
- Calculations for `geopoint` questions in repeats no longer fail in the first repeat.
- A note question with no name will now accept input from a `pulldata()` function.
- A default instance name will no longer cause the **Inbox** to hang for surveys with a hidden question containing a date as a string.
- Non-required questions with constraints will no longer fail validation if there is a pre-populated hidden field directly after it.
- The correct number of total pages for a multi-page survey now displays in Arabic.

Survey123 website

Fixes include the following:

- Generating feature reports will no longer fail when an organization has a negative number of credits.
- Attempting to generate a feature report in an ArcGIS Enterprise environment will no longer fail with the error that your ArcGIS Online subscription is not active.
- Opening the form item for a survey published from Survey123 Connect from the item details page in ArcGIS Online no longer results in a redirect loop.

Update June 27, 2019

Caution:

Be aware that this will be the last version of the Survey123 field app to support Android x86, as well as the last version to support Android version 4.4. Starting with the next release, the minimum Android version supported will be 5.0 on both 32-bit and 64-bit ARM processors.

Survey123 field app (version 3.5.164)

Fixes and additions include the following:

- Windows and Android 64-bit versions are now available.
- Ukrainian language support has been added.
- All elements of the app have received a significant UI update.
- Webhooks can now be triggered when a survey is edited and sent from the **Inbox** or **Sent** box.
- Increased maximum allowable zoom level for basemaps.
- Empty repeat records will no longer be sent when a repeat is set to not be relevant.
- Fixed a bug where required expressions wouldn't function on a **begin repeat** question type.
- Questions inside groups and repeats now correctly inherit relevant expressions.
- Fixed a bug where constraints on subsequent repeats would not validate correctly.
- Fixed translation issues on Android 7 and later when two or more languages are in the device language list.
- Fixed a problem preventing the use of Japanese keyboards on Android devices.
- Various other bug fixes and enhancements have been made.

Survey123 Connect (version 3.5.157)

Fixes and additions include the following:

- A Windows 64-bit version is now available.
- Ukrainian language support has been added.
- All elements of the app have received a significant UI update.
- [Watermarks](#) can now be applied to image questions.
- A new survey style of **theme-grid** has been added. This style allows groups in your survey to be displayed as a grid, with multiple questions on the same row. For more information, see [Appearance](#).
- Survey previewing has been enhanced with selectable resolutions and device types.
- The image size setting options now display the number of pixels on the longest edge of the photo. A new size setting of **1920 pixels** has also been added.
- Integer questions now support the full range of long integer values, from -2,147,483,467 to 2,147,483,467.
- Sum and count aggregate functions inside a repeat have been improved.
- Various other bug fixes and enhancements have been made.

Survey123 website

Fixes and additions include the following:

- Feature reports have been finalized.
- A survey can now be [opened or closed to responses](#), either manually or by schedule.
- You can now prevent users from making [multiple submissions](#) to the same survey.
- Questions in repeats can now be viewed on the **Data** tab.

Update May 23, 2019

Survey123 website

Fixes and additions include the following:

- Users can now trigger webhooks when a survey has been edited. This feature is available when setting up webhooks in the Survey123 website, Microsoft Flow, and in the new Survey123 Integromat integration.
- Users can now preview and save surveys that are created by others and shared with them.
- Users can now switch accounts in the Survey123 website without signing out.
- Feature reports now return thumbnails for image attachments by default, reducing the report file size.
- Various UI updates.

Update February 26, 2019

Survey123 field app (version 3.3.64)

Fixes and additions include the following:

- [External GNSS receiver](#) support has now been finalized.
- Higher zoom levels in tile packages are now supported.
- Users can now zoom in further than a tile package's maximum range.
- Fixed a bug preventing the spinner appearance type's buttons from functioning with empty values.
- Fixed issues with the date question display in certain languages.
- App will no longer use the same sign-in credentials entered at the beginning of the app session for all subsequent sign-in attempts when configured with an IWA portal on non-Windows devices.

Survey123 Connect (version 3.3.51)

Fixes and additions include the following:

- A new appearance type of **spike-point-to-point** has been added for image questions. This appearance type allows the use of point-to-point measurement using the Spike laser measurement solution developed by ikeGPS for iOS and Android. For more information, see [Media](#).
- A new appearance type of **symbol** has been added for geopoint questions. This appearance type allows a custom marker image to be used on a map view.

Survey123 website

Fixes and additions include the following:

- A new **Date/Time** question type has been added.
- Support has been added for importing an existing theme from another survey.
- The **Data** page now provides the ability to edit responses to surveys published from the web designer.
- The **Analyze** page now supports displaying the original responses for text questions.
- The thank you screen displayed on survey submission can now be edited in the web designer for surveys created in Survey123 Connect.
- Automatic naming of questions and choices has been improved.

- Various bug fixes have been made.

Update January 31, 2019

Minimum supported operating system versions have been updated; for updated changes, see [System requirements](#).

Survey123 field app (version 3.2.265)

Fixes and additions include the following:

- The **Location Settings** page has been redesigned.
- Blank records are no longer duplicated across nested repeats.
- SSL handshake errors will no longer be generated on Android devices running version 7.0 or later.
- Geopoint, image, and select one questions hidden by relevant expressions in repeat records beyond the first will no longer be empty if reopened from the **Sent** box.
- Relevant expressions that reference notes inside repeats will now become active when opened from the **Drafts** box, **Sent** box, or **Inbox**.
- Data will now display in repeat records beyond the first that contains a relevant expression applied to questions within that repeat.
- App folder images, such as thumbnails and media attachments, will no longer appear in the default gallery on Android.
- Various localization and internationalization bug fixes and enhancements have been made.

Survey123 Connect (Build 3.2.196)

Fixes and additions include the following:

- Settings edited in the Survey123 website will no longer be overwritten by republishing the survey in Survey123 Connect.
- Various localization and internationalization bug fixes and enhancements have been made.

Survey123 website

Fixes and additions include the following:

- A new URL parameter is provided for the web app. The `hide` parameter will hide certain cosmetic elements of the survey, depending on what values are provided. The `hide` parameter currently supports the values `navbar`, `header`, `description`, `footer`, and `theme`.
- All fields within the underlying feature service can now be used in a report template.
- You can now check the syntax in a report template before uploading.
- The web designer can now support authoring a multiple-page survey.
- Surveys can now be published to an IWA portal.
- Word clouds in the **Analyze** page now provide the option to ignore common words.
- Maps will now appear in feature reports when using both `mapSettings` and `size` on the same map in the report template.

- Various bug fixes have been made.

Update November 1, 2018

Survey123 field app (Build 3.1.158)

Fixes and additions include the following:

- [The Settings page](#) has been redesigned.
- The app's font can now be changed [in the Settings page](#).
- The app will now alert the user when it fails to capture a location.
- The **Settings** page now contains a [Location tab](#), providing options to change when the app attempts to capture a location or to configure the alert when location capture fails.
- Improved handling of [repeat counts](#) when editing existing surveys with repeats.
- The [Survey123 URL scheme](#) now supports altitude in geopoint questions.
- Geosearch can now search all available locators.
- Text questions now display a [character count](#).
- A confirmation message now displays when emptying the **Sent** box.
- Calculations within repeats will no longer create related records by themselves.
- A default value applied to a cascading select will now apply the appropriate choice filter to later questions.
- A time field with a calculation applied will not cause other time fields to ignore defaults.
- Selecting an image from an Android device can now search subfolders within the DCIM folder.
- Predictive text is now disabled by default for text input questions on Android.
- Various bug fixes and improvements.

Survey123 Connect (Build 3.1.126)

Fixes and additions include the following:

- New [predictivetext](#) and [nopredictivetext appearance types](#) are available for text input questions. These appearance types enable or disable predictive text for Android and iOS devices, overriding the system default.
- The new **bind::esri:warning** column can be used to display a warning when a constraint isn't met, while still allowing the response to be sent.
- The contents of a field can now be [inserted into a note, label, or hint](#).
- Select one questions using the **autocomplete** appearance now support calculations.
- [Location quality expressions](#) are now supported.
- Various bug fixes and improvements.

Survey123 website

Fixes and additions include the following:

- Users can now configure a personal survey theme in the web designer.

- When creating a multiple choice question in the web designer, users can now set a minimum and maximum amount of selected choices.
- Queries are now available in the **Analyze** page.
- Users can now change basemaps for map views in the **Analyze** page.
- The **Analyze** page will now save the visibility settings across sessions.
- Image questions now support the use of webcams on desktop devices.
- Multiline Text questions now provide a character count to prompt users if more than the maximum field size is input.
- Backgrounds set in Survey123 Connect now display in the web app.
- Report templates can now access fields in the feature layer not present in the survey.
- Errors will now display if an invalid field name or expression causes a failure in printing report templates.
- The quality of maps and images in feature reports have been improved.

Update August 30, 2018

Survey123 field app (Build 3.0.149)

Fixes include the following:

- Geosearch options no longer obscure input.
- Various bugs were fixed with the **autocomplete** appearance for select one questions.
- Added an error explanation when attempting to submit to a feature service that doesn't allow users to add features.
- Geopoints set by calculations are no longer overridden by the device location when opening a form by URL.
- Fixed a bug that prevented data in the first repeat of a survey response from displaying when opened from the **Inbox, Drafts, or Sent** box.

Survey123 Connect (Build 3.0.142)

Fixes include the following:

- Support has been added for updated XLSForm language notation with both language and locale code, for example, `label::Español (es)`. Providing only the locale code is still supported.
- Surveys published to ArcGIS Enterprise hosted feature services now support `attachmentsByUploadID`.

Survey123 website

Fixes include the following:

- Web app survey submission no longer fails if attachments are provided to a feature service that has query capability disabled.
- Fixed instances of report templates using the incorrect `utcOffset` value.

Update August 16, 2018

Survey123 field app (Build 3.0.144)

Fixes include the following:

- Surveys set to submit unrestricted image sizes no longer limit their image sizes to 1920x1080 resolution.
- Long survey titles now wrap as expected.
- Fixed a bug that prevented the recalculate button from working for subsequent questions that referenced the same question.
- Calculations in a survey that are opened through the **Inbox**, **Drafts**, or **Sent** box will now be updated if referenced values have been updated.
- An error message now appears when trying to submit a response to a feature layer that doesn't exist.
- Horizontal accuracy value is now cleared when panning the map in a geopoint question.
- The app no longer crashes when recording audio while using Thai or Arabic on iOS.

Survey123 Connect (Build 3.0.138)

Fixes include the following:

- JPEG thumbnails no longer show as blank after downloading a survey created on the web.
- Fixed a bug that caused surveys with a single null geopoint to fail to publish.

Update July 31, 2018

Survey123 field app (Build 3.0.134)

Fixes include the following:

- An error message now appears when submitting a public survey with attachments if the service permissions prevent their submission.
- Fixed a bug that prevented geopoint responses from being converted to strings.
- Fixed various bugs that caused the app to lose sign-in on Android.

Survey123 Connect (Build 3.0.128)

Fixes include the following:

- Fixed instances of sign-in not opening on Windows.

Survey123 website

Fixes include the following:

- Printing reports that contain attachments added through ArcGIS Online Map Viewer Classic now succeed; however, the attachment is not included.
- Printing reports with attachment questions in ArcGIS Enterprise now succeed; however, the attachment is not included.
- You can now print reports that contain large images. These images display as thumbnails.
- Fixed a bug that caused the printing of a report that calls a repeat count to fail if the repeat count is zero.

- Questions no longer appear out of order when previewed after dragging an item in the web app.
- Publishing a survey no longer fails if it contains a relevant rule and the related field has been renamed when modifying the schema.
- When setting a geopoint question in the web app, duplicate maps no longer appear in the **Default Map** drop-down list.

Update July 5, 2018

Note:

As of this update, Portal for ArcGIS 10.3.1 is no longer supported. Minimum supported operating system versions have also been updated; for updated recent changes, see [system requirements](#).

To allow users with now-unsupported operating systems or portals to continue to use Survey123, versions of Survey123 called Survey123 Classic and Survey123 Connect Classic are now available. These versions have the same supported versions, features, and functionality as Survey123 2.8, will not be updated, and are available on Android, Windows, Mac OS and Linux. The latest version of Survey123 field app and Survey123 Connect has been updated to 3.0, and will be continually updated.

Survey123 field app (Build 3.0.132)

Fixes and additions include the following:

- Nested repeats are now supported.
- Geosearch is now available for geopoint questions.
- The UI of **time** and **dateTime** questions have been updated, with time displays now accepting text input.
- The **annotate** appearance for **image** questions can now use a snapshot of a map to sketch on.
- Various bug fixes.

Survey123 Connect (Build 3.0.127)

Fixes and additions include the following:

- The `pulldata("@geopoint")` function now supports extracting coordinates in different formats.
- The **readonly** and **required** columns now support expressions.
- The **Manage in Survey123 website** menu option now respects the portal settings provided in Survey123 Connect.
- Repeats with an **integer** question using the **distress** appearance now clear values as expected.
- Surveys made in the Survey123 website using JPEG thumbnails no longer display with blank thumbnails when downloaded.
- Surveys can now be published to IWA portals.
- Other various bug fixes.

Survey123 website

Fixes and additions include the following:

- Webhooks are now supported. The new **Webhooks** tab on the **Settings** page can be used to set up a payload for webhook providers.
- A new **Group** question type has been added.
- Batch report printing is now supported.
- Conditional statements are now supported in report templates.
- Responses listed on the **Data** tab can now be filtered by the contents of a specific field or fields.

Update May 25, 2018

Survey123 field app (Build 2.8.2)

Fixes and additions include the following:

- Fixed a bug that prevented the downloading of public surveys.
- Fixed a bug that prevented new features from appearing in a web map with autorefresh applied.
- Fixed a bug on Windows machines that caused the field app to behave like it was offline when connected to specific offline LAN configurations.

Survey123 Connect (Build 2.8.4)

Fixes and additions include the following:

- Opening a survey that already exists in your survey library in Survey123 Connect through the Survey123 website will now delete the existing survey as expected, instead of creating a duplicate.

Survey123 website

Fixes and additions include the following:

- Version locking is now supported for the web app, allowing the survey creator to lock the survey's functionality to the version it was published at, rather than the latest version.
- A new **Single Choice Grid** question type has been added.
- The **Analyze** tab now provides a gallery for image questions.
- Barcode question responses are now visible when viewing an individual response on the **Data** tab.
- Report templates now support conditional elements to show or hide content depending on answers in the survey.
- Surveys can now be opened in Survey123 Connect from the **My Surveys** page.
- Instance names can now be set when designing a survey on the web.
- HTML tags are now supported on the thank you screen after survey submission.
- The owner of a survey can now select what constant a stakeholder can see when viewing survey results.
- Shortened URLs are now provided for sharing surveys or survey results.

Update April 3, 2018

Survey123 field app (Build 2.7.98)

Fixes and additions include the following:

- **select_one** questions now support calculations.
- The function `pulldata("@property", 'utcoffset')` can now be used to capture and record the UTC time zone offset of the device.
- Local tile packages are now accessible through the **Inbox**, **Outbox**, and **Sent** folders.
- The **annotate** appearance for **image** questions can now access an existing file to annotate.
- Input masks no longer make questions required.
- The app now returns to the top of a repeat when a new record is added.
- Questions with null field types are now recalculated when loaded from the inbox.
- Null geopoints inside of repeats now work as expected.
- Submissions no longer fail when being sent to a public, nonfederated feature service.
- Using a **select_one** question with the autocomplete appearance in a repeat no longer stops default values within the repeat being applied.
- Text questions with calculations that are not displayed as relevant are no longer submitted.
- Fixed a bug that stopped the app from navigating back to an empty required question on a failed submission.
- Required values in repeats for **integer**, **decimal**, **geopoint**, and **dateTime** questions now function as expected.
- Performing multiple `pulldata(@exif)` calls in a survey no longer causes the app to freeze.
- UI improvements have been made to **dateTime** questions and multipage surveys.
- On iOS, removing an attachment from a copied sent survey no longer causes the original attachment to fail to load if copied again.

Survey123 Connect (Build 2.7.72)

Fixes and additions include the following:

- You can now publish an app-only survey, with no associated webform. This means that surveys with large choice lists can now be published without issue.
- Survey123 Connect can now be launched using the `arcgis-survey123connect://` URL scheme. Supported parameters are `portalUrl` and `itemId`.
- Feature services created by Survey123 Connect now have the `displayField` property defined. This allows these feature services to be edited by web applications.
- Validating the input for the first selection in a cascading select now works as intended.

Survey123 website

Fixes and additions include the following:

- A new **Signature** question type has been added.
- Likert and rating questions can now be used as a trigger for relevant rules.

- Autocomplete functionality has been added for dropdown questions.
- The **horizontal-compact** appearance type applied in Survey123 Connect is now supported for single choice and multiple choice questions.
- Date questions now support month-year and year-only appearances.
- The hide-input appearance type for geopoint questions now only displays a read-only coordinates value.
- Geopoint questions can now use encoding services set in your organizational settings in place of the Esri default World Geocoding Service.
- Pulldata functionality is now supported for geopoint questions.
- Print templates now support printing different instances of the same image or geopoint answer with different parameters within the one report.
- Error reporting has been improved for print templates.
- Multiple choice questions now support choices with more than 32 characters.
- Fixed bugs and improved performance when using Internet Explorer 11.
- Fixed a bug that prevented decimal questions from accepting dots as decimal delimiters.
- Fixed various UI bugs caused by publishing a survey with empty question labels.

Update February 27, 2018

Survey123 Connect (Build 2.6.6) and Survey123 field app (Build 2.6.9)

Fixes and additions include the following:

- New appearance types **spike** and **spike-full-measure** have been added for image questions. These appearance types integrate your survey with the Spike laser measurement solution developed by ikeGPS for iOS and Android, allowing your survey to use photos taken with Spike and to extract values saved in the image. For information on using this functionality, see [Appearance](#), [Media](#), and [Measure objects using Spike](#).

Update January 23, 2018

Survey123 field app (Build 2.6.7)

Fixes and additions include the following:

- Refreshing the inbox or clearing the sent surveys box no longer deletes all responses in the inbox/sent box of other surveys.
- Improved interface for **dateTime** questions.
- A refresh button is now available to recalculate **time** questions with `now()` as a calculation.
- Camera flash is now supported.
- Zoom functionality has been added to the camera for barcode scanning.
- Fixed bug that prevented a survey being saved to drafts when the survey has a **repeat_count** value.
- The **Home** button on the **Inbox** map now zooms to home location as intended.
- Android image gallery interface and performance has been improved.

Survey123 Connect (Build 2.6.4)

Fixes and additions include the following:

- Survey123 Connect no longer crashes when attempting to set the map's zoom level.
- Labels and hints are no longer cut off when using a less than (<) symbol in most cases. See [known issues](#) for exceptions.
- Links in the side panel are no longer active when the panel is hidden.

Survey123 website

Fixes and additions include the following:

- A new, unified web app is now available for filling in surveys created from both Survey123 Connect and the Survey123 web designer.
- UI/UX improvements have been made for single choice, multiple choice, dropdown, geopoint and image questions.
- URL parameters are now supported in the web app for surveys created within the web designer.
- Report templates can now use the webmapItemID and mapScale parameters for geopoint questions.
- Report templates can now use the utcOffset parameter for date, time and dateTime questions.
- Placeholder field names no longer require leading special characters such as @ or % in report templates. Usage of these leading characters is still supported.
- **Modify Schema** dialog interface has been improved.
- HTML formatting is now honored for question labels in the **Data** tab's **Individual Response** panel.
- Leading zeroes are no longer dropped from labels in the **Individual Response** panel.
- Fields in the **Individual Response** panel will no longer appear blank if the submission contains a leading zero.
- Improved precision of the marker on the map to indicate photo direction, if this information is present in the photo's EXIF data.
- Occasions where a global ID field was duplicated no longer exist.
- Users can now scroll through a survey's 'Thank You' screen when the screen's contents doesn't fit within their display.
- HTML tags used in select_multiple questions are no longer visible in printed reports.

Update November 21, 2017

Survey123 field app (Build 2.5.44)

Fixes and additions include the following:

- Tapping and holding a survey in the gallery immediately opens the survey ready for data collection. Tapping a survey in the gallery opens the survey contents page, where you can choose to collect a new survey or edit an existing survey.
- Connecting to a portal with an invalid or untrusted certificate no longer provides the option to connect regardless.

- Read-only questions and note questions can now be populated in the **Inbox**.
- Fixed issue that was leading to a position source closed error when using an R1 Trimble GNSS Bluetooth receiver.
- Zoom functionality has been added to the camera interface for image questions.
- Various improvements have been made to bar code scanning.
- Fixed a bug where front-facing camera feeds would display upside down on certain iOS devices.
- Improved performance of audio recording on Linux.
- Clearing and recalculating a dateTime question that uses the now() function now updates the value to the current date and time instead of the date and time from when the form was first loaded.

Survey123 Connect (Build 2.5.44)

Fixes and additions include the following:

- Adding new fields to your survey no longer requires the feature service to be re-created in most cases.
- Note questions with names will now have fields created for them in the feature service.
- Added the option to disable the **Sent** box for a survey. This stops copies of surveys being saved on the field app user's device.
- The community panel in the survey gallery now also presents the official Survey123 Twitter feed.
- Connecting to a portal with an invalid or untrusted certificate no longer provides the option to connect regardless.
- Importing Survey123 data into a geodatabase in Oracle no longer causes errors due to reserved keywords.

Survey123 website

Fixes and additions include the following:

- Survey creation now provides a Modify Schema option to change field names and choice list values.
- Nested groups and groups in repeats are now supported by the **Data** and **Analysis** tabs.
- Image metadata can now be extracted by a print template.
- Redesigned **Data** page UI.
 - Users can now play back audio question responses.
 - Additional metadata is now provided when viewing an image.
- Deleting a survey now provides the option to retain the associated feature service.
- Various bug fixes have been made.

Update September 22, 2017

Survey123 field app (2.4.71)

Fixed BUG-000106882: Using the search option in the **Inbox** opens an incorrect survey.

Update September 19, 2017

Survey123 field app (2.4.70)

Fixes and additions include the following:

- The Survey123 field app now autosaves on switching focus from a question. This allows partially completed surveys to be saved in the event of a crash.
- Repeats in surveys can now be edited.
 - By default, repeat records are not downloaded along with responses from the **Inbox**. For information on how to download repeat records for editing, see [prepare to edit existing survey data](#).
- **select_one** questions can now be set to read-only.
- The performance of bar code scanning has been improved.
- Image questions are now disabled in editing, as they are not currently supported.
- Fixed a bug where deleting an image loaded as a favorite answer would also delete the original image.
- Various bug fixes have been implemented regarding default values in repeats.
- Signature fields in repeats will now appear as attachments as expected.
- Signatures are no longer improperly cropped on MacOS.

Survey123 Connect (Build 2.4.60)

Fixes and additions include the following:

- A new question type of **audio** has been added. This allows the user to record an audio clip with the device's microphone and submit it as an attachment.
- A new appearance type of **draw** has been added for image questions. This appearance type allows the user to draw images on a full-screen canvas.
- A new appearance type of **annotate** has been added for image questions. This provides the same full-screen canvas as **draw**, with the additional ability to provide an image to draw on.
- The **bind::esri:parameters** column is now supported and available in the advanced template. This column accepts a series of values used to define parameters for editing your survey.
- The **bind::saveIncomplete** column is now supported and available in the advanced template. Entering true for any question will override the survey autosaving after every question, instead only saving after the questions with the value true.
- The **bind::esriFieldType** column now supports the option of null. This means that a new feature service will not contain a field for this question, and values entered into this question are not submitted in a survey response.
- The side panel of the survey gallery now presents a feed of the Survey123 GeoNet group.

Survey123 website

Fixes and additions include the following:

- Viewing individual responses now supports nested groups and repeats.
- A survey can now be reviewed after submission.
- Added support for form localization.

- Pulldata is now supported for geopoint questions when completed on the web.
- Survey responses completed on the web now attempt to submit a location even when no geopoint question is present.
- Geopoint questions now zoom to the zoom level defined in the map's settings when the location is set. When a zoom level is not defined, the question defaults to street level.
- Multiline textboxes now automatically expand as new lines are added.
- The **Data** page now provides options to export survey data in Excel (.xlsx) and KML (.kml or .zip) formats.
- The embedded Map Viewer Classic is now used in some cases that would previously open a new page.
- Blank text boxes no longer display under note questions.
- When a survey's name is changed on the **Edit Survey Info** dialog box, the folder name in ArcGIS Online will also be renamed.
- Various bug fixes.

Update July 20, 2017

Survey123 Connect (Build 2.3.24)

Fixes and additions include the following:

- Improvements have been made to management of globalid and objectid fields. This allows creation of surveys on feature services that may have been created from a shapefile.
- Before a survey is published from an existing feature service, Survey123 Connect validates that all name values in the XLSForm survey worksheet are exact matches of field names in the target feature service.
- When you publish a new survey to ArcGIS Enterprise that creates a new feature service, Survey123 Connect requires that all field names in the XLSForm be lowercase.
- Support for feature service to related table relationships that have different labels has been added.
- A new appearance type of **hide-input** has been added for geopoint questions. This appearance type only applies to the survey when viewed in the web app and hides coordinate entry input, leaving only the map interface.
- Various bug fixes have been made.

Survey123 field app (2.3.29)

Fixes and additions include the following:

- Improvements have been made to labeling and spatial filtering.
- The bar code scanner now beeps on a successful read.
- When installing a new version of the app on iOS, the database is automatically restored on startup.
- Photos taken in landscape view on some iOS devices are no longer additionally rotated.
- Signatures are no longer cropped on iOS.
- Display issues with the distress appearance type on iOS have been fixed.
- A bug that prevented the text scale slider from displaying on Android has been fixed.
- Various other bug fixes have been made.

Survey123 website

Fixes and additions include the following:

- On-premises installation is now available for Portal for ArcGIS 10.4 and later.
- The **Copy link** button can now be used for surveys created in Survey123 Connect to complete the survey in a web browser.
- Viewing the results of surveys created from existing feature services is now supported.
- Limited HTML is now supported to customize the look of your survey.
- A new question type, **Note**, provides a label with no input. This behaves in the same way as note fields created through Survey123 Connect.
- The **Data** page now supports custom print, allowing an individual survey response to be printed using a user-provided template.

Note:

This function is currently in beta and could change in the future.

- Support for hide-input appearance in geopoints has been added. This appearance type can only be implemented through Survey123 Connect.
- Various bug fixes have been made.

Update June 30, 2017

Survey123 Connect (Build 2.2.14)

Fixes and additions include the following:

- Support for decimal time format in date calculations has been added.

Note:

The existing Epoch time format is still supported.

Survey123 field app (2.2.15)

Fixes and additions include the following:

- Fixed a regression issue where autocomplete questions no longer worked with cascading selects.
- The app will no longer hang when attempting to submit data to a feature service that the signed-in user can no longer access.
- Photos taken on some Android devices are now of better quality.
- In response to recent iOS security updates, the following have been repaired:
 - Sign-in with Google authentication
 - Linking to other Esri apps such as Trek2There, Navigator, and Collector

Survey123 website

Fixes and additions include the following:

- Fixed a bug that prevented signing in through SAML.

Update June 1, 2017

Survey123 Connect (Build 2.1.9)

Fixes and additions include the following:

- Surveys can be created from federated feature services.
- Aggregate functions across repeats can now be added to a survey.
- Autocomplete questions in repeats now clear their filter when opening a new repeat.
- Inbox query definitions can now include the following variables: username, email, firstName, lastName. For example, `Creator=${username}` would return all records created by the currently signed-in user.
- Questions that have default values can now be hidden.
- Font issues on Ubuntu in Japanese, Chinese, Russian, Hebrew, Korean, and Swedish have been fixed.

Survey123 field app (Build 2.1.6)

Fixes and additions include the following:

- Aggregate functions can display calculations on values across repeats.
- Autocomplete questions in repeats now clear their filter when opening a new repeat.
- Hidden fields can be populated using parameters in a URL scheme (For dates, ISO and epoch date formats should be used).
- Display of week numbers in the calendar has been improved.
- Minimum iOS version has now been increased to 9.
- Improved support for Android x86 hardware.

Survey123 website

Fixes and additions include the following:

- You can now share the results of a survey through a link, available on your survey's **Analyze** page.
- You can now download only a section of data in a feature service, defined by date range.
- Images can now be resized before printing an individual response.
- Surveys created from existing feature services are now supported.
- General performance improvements and various bug fixes.

Update May 4, 2017

Bug fixes include the following:

Survey123 Connect (Build 2.0.41) and Survey123 field app (Build 2.0.56)

- Removal of unexpected text from the UI in Russian and Vietnamese.

- When typing coordinate values on the location page while zoomed to the full extent (for example, when no location sensor is active), the confirmation check mark now becomes active, allowing you to save your edits.
- BUG-000103550—Allow use of a decimal comma when manually typing the coordinates on the location page. Decimal commas are the default in some locales, for example, Dutch and Spanish.

Update April 26, 2017

Online documentation is now available in the following languages: Arabic, French, German, Italian, Japanese, Korean, Polish, Portuguese, Romanian, Russian, Simplified Chinese, and Spanish.

Survey123 Connect (Build 2.0.35)

Fixes and additions include the following:

- An **Inbox** can now be enabled for a survey, allowing the Survey123 field app to download and edit preexisting surveys.
- IWA authentication is now supported.
- A new appearance type of **compact** is available for groups and repeats. This appearance starts the group or repeat as collapsed, instead of initially expanded.
- The autocomplete appearance now has a button to clear existing text.
- Hindi, Bosnian, and Indonesian language support has been added.
- Various bug fixes have been made.

Survey123 field app (Build 2.0.53)

Fixes and additions include the following:

- You can now edit submitted survey responses through the **Sent** page.
- The **Inbox** page can be used to download and edit surveys that were already submitted, including on other devices. The Inbox is enabled on a per-survey basis.
- IWA authentication is now supported.
- Groups and repeats are now collapsible.
- The **Download** page now has a search bar, as well as the ability to sort by name or date created.
- Public surveys now appear on the **Download** page if they belong to the same organization as the signed-in user.
- Hindi, Bosnian, and Indonesian language support has been added.
- Various bug fixes have been made.

Survey123 website

Fixes and additions include the following:

- You can now edit a published survey in the web designer.
- A new question type of **Rating** can be added to your survey.
- Arabic, Hebrew, and Hindi language support has been added.
- Various bug fixes have been made.

Update February 28, 2017

Survey123 website

Fixes and additions include the following:

- The website now supports 32 languages. The full list can be viewed on the [system requirements](#) page.
- Improved sharing options for surveys. You can choose to create a link for your survey that will launch it in a web browser or the field app, or offers a choice of web browser or field app to the user.
- In surveys created at 1.11 and later, anonymous users can no longer query others' survey data.
- Improved information presented to users who have no surveys or are creating a new survey to guide them in getting started.
- BUG-000102897—Survey fails to publish from the website when you use more than one word for the **other** choice in a multiple choice question. This occurs only on surveys that were created from an existing survey.
- BUG-000102668—Browsing to ArcGIS Online after signing in to the Survey123 website results in an HTTP ERROR 400 page.

Survey123 web app

- Improved geopoint question displays in the web app, resulting in a better experience on a wider range of mobile devices.

Survey123 field app and Survey123 Connect

There are no updates to the Survey123 field app and Survey123 Connect for the 1.11 release.

If you want to try what's coming next in these apps, join the 2.0 beta program at <https://earlyadopter.esri.com>. The 2.0 release introduces the ability to edit existing surveys.

Update January 12, 2017

Survey123 field app (Build 1.10.25)

Bug fixes as follows:

- BUG-000101764—Surveys hang on Getting service information action when sending to Portal for ArcGIS.
- BUG-000102016—Error 202 when sending a survey created in Survey123 1.9 or earlier.

Update December 21, 2016

Survey123 Connect (Build 1.10.43)

Fixes and additions include the following:

- You can now create a survey based on a preexisting feature service. For more information, see [Use Survey123 with ArcGIS Server](#).
- Version function support added. The `version()` function can be used to display the version of your survey as defined in the **Settings** sheet.
- Survey123 Connect will now display your owned public surveys.

- The **form_id** field on the **Settings** sheet defines the target table or layer in the feature service. If empty, or if using the default name from previous versions, it defaults to the first layer in the feature service.
- The font has been changed to avoid issues with garbled text.
- The menu to launch your survey on the web has been expanded.
- Images stored in the feature service now reference the name of the question for which they were submitted.

Survey123 field app (Build 1.10.23)

Fixes and additions include the following:

- NaN handling in integer questions has been improved.
- Required fields now honor relevant expressions in groups.
- Completing a survey and choosing **Continue this survey** no longer causes duplicate surveys to be submitted.
- Improved scaling and display of date controls.
- The font has been changed to avoid issues with garbled text.
- Improved translations.

Survey123 website

Fixes and additions include the following:

- Survey results can now be shared with other users. The survey author can choose who can view the survey results on the **Collaborate** page, after which these stakeholders can view the survey's results from their **My Surveys** page.
- New question type: **website** questions only accept website URLs.
- Answers to questions can now be cached in browser cookies for the next record.
- GeoPoint questions now support searching for an address based on geocoding services.
- Improved contrast for accessibility.

Update November 7, 2016

Survey123 field app (Build 1.9.24)

Fixes and additions include the following:

- Calculations and defaults in repeat questions have been improved.
- Support for [enterprise login](#).
- Improved behavior of date and time questions.
- A wider range of Android 4.1 devices are now supported, including Leica Zeno 20 and Cedar Tree CT4 and CT7.
- Survey123 is now available from the [Amazon Marketplace](#).
- Improved support for languages if authored with a locale code for the language name.
- Improved translations.

Survey123 Connect (Build 1.9.24)

Fixes and additions include the following:

- [Integer](#) and [decimal](#) questions now have two new appearance options: `numbers` displays a custom keyboard, while `spinner` displays + and - buttons to increment or decrement the current value.

Note:

These appearance options can be used simultaneously on the same question.

- Support for [enterprise login](#).
- Improved handling of [empty values](#), [calculations](#), and [defaults](#).
- Support for device information to be included in a form using the `property()` function.
- The **default_language** column in the **settings** form sheet will now determine the survey's default language by locale code.
- Improved translations.

Survey123 website

Fixes and additions include the following:

- You can now make your survey public on the **Collaborate** page to share your survey with everyone.
- New question type: **email** only accepts email addresses.
- The **Data** and **Analyze** pages now include a date range filter.
- Improved means to share links on the **Collaborate** page.
- Various bug fixes.

Update September 28, 2016

Survey123 field app (Build 1.8.21)

Fixes and additions include the following:

- Required values in repeats are now honored.
- Notes within repeats will now refresh once calculated.
- Use of italics has been removed to fix the display of non-English language text.
- Surveys launched through a custom URL scheme can now automatically download surveys.

Survey123 Connect (Build 1.8.27)

Fixes and additions include the following:

- Calculation questions based on text, integer, and decimal question types will reflect the field type of their elements.

 **Note:**

When performing calculations with questions of mixed type—for example, add the response of an integer question to the response of a text question—be sure to use functions to normalize the types. For more information, see [calculations](#).

- Empty values in string and numeric questions now have specific meaning for calculations and constraints. For more information, see [formulas](#).
- To display the contents of a geopoint value, you must use the string function when referencing the geopoint question in a calculation. For example, `string(${myPoint})`.
- The `pulldata()` function now supports custom parameters for geopoint questions. Use this to add location metadata to your survey.
- Use of italics has been removed to fix the display of non-English language text. You can continue to use italics in your own surveys, but use caution if your survey users will work with non-English languages on Android. For an explanation, see [known issues](#).

Update August 31, 2016

Survey123 field app (Build 1.7.20)

Fixes and additions include the following:

- EXIF metadata is now captured in photos.
- The **Survey Completed** dialog box now has an option to continue filling out the survey.
- You can now pull down on the **Download Surveys** page to refresh the survey list.
- In surveys with two image questions, rotating the second will no longer rotate the first.
- Improved relevant expression support on iOS.
- The final text question in a survey will no longer have a different font than the other questions.
- Autocomplete now searches anywhere in the string, not just the first letter.
- Improved scrolling on tablet and phone devices when keyboard is displayed.
- Improved translations.

Survey123 Connect (Build 1.7.35)

Fixes and additions include the following:

- New gallery of tutorial videos added.
- The **Create New Survey** dialog box now supports forms with media attachments.
- You can now edit a survey created in the Survey123 website in Survey123 Connect. You can also download surveys that you've stored in ArcGIS that are not on your desktop. This is helpful if you're working on more than one desktop. Create a survey on one, and download it to another to continue working.
- A variety of mathematical functions are now supported. See [Formulas](#) for a full list.
- The XLSForm function `pulldata()` is now supported, allowing you to extract data for your survey from a provided CSV file.

- Improved behavior when incorrect text is entered into the **instance_name** field, which results in a lower likelihood of send surveys errors.
- Improved translations.

Survey123 website

Fixes and additions include the following:

- You can now edit a survey created in the Survey123 website in Survey123 Connect.
- A new question type of **Image** is now available when creating surveys.
- The **Analyze** page now has the option to print your results.
- The **Data** page has a new **Individual Response** view.
- **Single choice, dropdown, and multiple choice** questions now have a **Batch edit** option. This allows you to copy and paste lists of answers from other files or delete many list items at once.

Update July 25, 2016

Survey123 field app (Build 1.6.11)

Fixes and additions include the following:

- Better support for TPKs, in particular, those created in ArcGIS Pro.
- The **Download Maps** screen now warns you if a TPK's map projection is not labelled as Web Mercator.
- Integration with ArcGIS Workforce is now implemented.
- Zooming in geopoint questions with an offline basemap allows you to zoom into existing levels of the basemap only.
- The date used in file names of photos is the current date (in previous releases, the date was incorrect).
- The **Sign In** button is now functional on Windows Phone.
- Sign in is now possible on Android N.

Survey123 Connect (Build 1.6.11)

Fixes and additions include the following:

- A TPK can now be uploaded with a survey by placing it in the survey's media folder before publishing.
- Integration with ArcGIS Workforce is now implemented.
- Surveys with geopoints in repeats can now be published on Windows.
- Improvements have been made to regular expression handling.
- Question names now support hyphens.
- Unicode support in CSV files has been improved.

Update June 23, 2016

Survey123 website

Fixes and additions include the following:

- Improved reporting of survey data.
- More robust data exports and better interactivity with records in the table view.
- Create and use surveys in your web browser.

Survey123 field app (Build 1.5.32)

Fixes and additions to the Survey123 field app include the following:

- Incorrect surveys no longer open after downloading a new survey.
- A **Diagnostic** tab has been added to settings, allowing for console logging.
- Traditional Chinese (Hong Kong), Traditional Chinese (Taiwan), Croatian, and Serbian language support has been added.
- UI/UX redesign.

Survey123 Connect (1.5.35)

Fixes and additions include the following:

- When creating a new survey, you now have the option to create it from a publically-shared survey as well as from surveys published by you or your organization.
- A **Diagnostic** tab has been added to settings, allowing for console logging.
- Options to duplicate and delete a survey have been added to a menu on survey thumbnails.
- Select_one questions now have an autocomplete appearance option. The option is a drop-down list with a text field to narrow your options.
- Repeats now have a minimal appearance option. A minimal repeat is closed by default and opened only when selected.
- Traditional Chinese (Hong Kong), Traditional Chinese (Taiwan), Croatian, and Serbian language support has been added.
- UI/UX redesign.

Update May 16, 2016

Survey123 website

Fixes and additions include the following:

- Faster display times for surveys with a large number of responses.
- Enhanced charting and mapping of survey responses.
- UI/UX redesign.

Survey123 field app (Build 1.4.28)

Fixes and additions include the following:

- Sign in and authentication have been improved, with Okta now supported on all platforms.
- Averaging enabled on geopoint questions.

- Photos can now be renamed, rotated, and deleted. Photo capture, browsing, and selection have been improved.

 **Note:**

Windows Phone will not be updated in this release.

Survey123 Connect (Build 1.4.30)

Fixes and additions include the following:

- Ability to republish surveys without deleting existing feature services and data.
- Ability to relate a new survey to an existing feature service.
- Questions inside a repeat can now contain constraints, calculations, and required fields.
- Bar code questions now have a minimal appearance option, allowing for a simpler display.

Update April 2, 2016

Survey123 field app (Build 1.3.38)

Fixes include the following:

- Fewer errors returned when using input masks.
- Size of text and input controls can now be adjusted by the user.
- When choosing a value from a long list in a select_one question, it's now displayed as expected.
- Select_one questions that change the relevant state of a group of questions now display as expected.
- When progressing to the next record in a set of repeated questions, no previous data is displayed.
- Constraints and calculations now work with date fields.
- Integer fields no longer accept commas.
- Switching between front and back cameras has been added.
- Improved success rate when scanning bar codes.
- Improved display of the repeat navigation controls on devices where this was poor.
- Android back button no longer closes the app.

Survey123 Connect (Build 1.3.17)

Fixes and additions include the following:

- The new bind:esri::fieldAlias column replaces the field's alias with the value contained, inheriting the value contained, instead of inheriting the label value as the default.
- When inheriting the label value, the alias field no longer repeats HTML tags.
- Additional samples and templates are included.
- Size thresholds have been added to allow user control of images saved.

Update March 5, 2016

Survey123 field app (Build 1.2.89)

Fixes include the following:

- Performance—Very long lists in select questions now load faster, particularly if you use the minimal appearance.
- Date, time, and dateTime questions—Improved widgets now provided for choosing dates.
- Likert and distress appearances—Use Likert appearance on select_one type questions to display a like-dislike scale or distress appearance on an integer type question to display a green to red colored scale.
- Integer and decimal type questions—Bug fixed that was forcing these question types to be required when not flagged as required by the survey author.
- Parent record ID in repeat questions—Bug fixed that was omitting parent record IDs in repeated questions. Parent record ID is now captured as expected.
- Bar code and input masks introduced—Use these with caution, they are still a work in progress.

Survey123 Connect (Build 1.2.62)

Performance improvements experienced in the app are also experienced when previewing a survey in Survey123 Connect. You can also see how long a survey takes to load with a counter now visible at the bottom of the survey.

Survey123 website

Survey results can now be displayed at <http://survey123.arcgis.com> in map and table view. The **Summary** tab includes charts that aggregate responses to your questions.

Update February 9, 2016

Survey123 field app (Build 1.2.49)

Fixes include the following:

- Performance—Surveys now load significantly faster.
- Geopoint questions—Map preview on iOS has returned.

Survey123 Connect (Build 1.2.18)

Fixes include the following:

- Performance—Performance improvements experienced in the app are also experienced when previewing a survey in Survey123 Connect.
- Upgrade surveys—Existing surveys need to be upgraded to be able to share and download in <http://survey123.esri.com/>. Surveys that need to be upgraded display a warning symbol and can be upgraded with one click.

Survey123 website

Fixes include the following:

- Surveys can be shared with other ArcGIS users from <http://survey123.esri.com/>.
- Survey data can be downloaded from <http://survey123.esri.com/>.

Update January 6, 2016

Survey123 field app (Build 1.2.19)

New features include the following:

- [Enable copy and paste on sign-in dialog box.](#)
- [Support offline basemaps.](#)
- [Support offline basemaps.](#)

Update September 8, 2015

Survey123 Connect (Build 1.1.4)

- Fixes include the following:
 - [Relevant expressions work again.](#)
 - [Required signature image is recognized \(hotfix\).](#)
- New features include the following:
 - First implementation of cascading selects and repeats.
 - To test cascading selects and repeats in the app, it is necessary to install the beta version from HockeyApp (requests to join beta program must be sent to survey123@esri.com).
 - Support for cascading selects and repeats is planned for October update.

Update August 31, 2015

Survey123 Connect (Build 1.0.158)

Fixes include the following:

- [Run Survey123 Connect in Windows 10.](#)
- [Solved issues using Survey123 Connect through proxy servers, causing XLSForm Conversion Failed errors.](#)
- [Create surveys using special characters in the name.](#)

Survey123 field app

All new features planned for this milestone have been pushed to the next planned update (October 1, 2015). This includes cascaded selects and Windows Phone 8 and 8.1 support. Support for XLSForm repeats continues to be planned for the October 1 update as well.

A known issue is that relevant expressions are not being honored in the form preview in Survey123 Connect. Relevant expressions are still honored as expected in the Survey 123 app. Note: This issue is fixed in version 1.1.4 (see September 8, 2015 update).