

S1 Mobile for Android Release Notes

Version 2.3 (Build 2.3.050) – Released 10/2016

- Improved user interface on tablet devices: attributes data entry and map view can now be viewed concurrently on devices with screen of at least 600dp (typically 7 inch screens); new attribute view on tablets can be minimized and its last know state is remembered by the application; icons and text now also properly resize based on screen size and resolution
- Improved data capture workflow: features can be saved directly from map view, users are not required to access attribute view to save feature; can now capture both geometry & attributes at the same time via new attribute toggle capability.
- Streamlined saving of features: save & cancel buttons removed from bottom of attribute forms, these buttons are now on edit toolbar at top of screen for easier access & fewer button taps
- Enhanced the readability of edit forms through better use of styling (padding, margins, etc), improved related table content layout, improved performance when interacting with complex edit forms
- Ability to read long coded value domain strings in edit form is now improved
- If a required field is not populated by user when saving a record, app now takes you directly to that field after alerting that it was not populated
- Current GPS location is maintained when accessing application screens other than the current map view
- If you select Waypoints from the manage map layers and waypoints are not currently visible they will now be added to the map as visible
- Feature geometry of an unsaved line or area feature will be restored upon application recycle due to uncontrollable Android OS processes
- Deprecated some unused application analytics
- App's target Android SDK version upgraded to 23 (Marshmallow)
- For Android M devices, app now applies all permissions at runtime: user will be prompted once for LOCATION and READ_EXTERNAL_STORAGE permission, after initial prompt will not be asked again, no change to pre-M devices
- App notifications migrated from deprecated method to newer builder method in support of Android M devices
- Widespread code refactoring to increase overall code efficiency
- App documentation updated to reflect app UI color changes from previous release
- Bug Fix: app no longer crashes when clicking on Feature Pop up w/ GPS turned on but no known Location fix
- Bug Fix: if required date field is not entered, app now properly alerts users that it must be populated rather than providing cryptic error message.
- Bug Fix: repeat attributes now works on S1 waypoints when there is no edit GDB loaded in map
- Bug Fix: application no longer crashes when attempting to stop averaging a point feature before expected # of positions are reached.
- Bug Fix: if an expected map layer is missing or corrupted, app no longer freezes when attempting to access the layer
- Bug Fix: Android devices running OS Version 6.x (Android M) can now use Android Mock Locations app to access external Bluetooth GPS receivers

- Bug Fix: Created workaround for known ESRI SDK bug regarding bi-directional synchronizations failing to properly download new changes to device. App now asks whether to download changes, if yes, then the original GDB will be deleted a new one containing all new changes is downloaded to device.
- Bug Fix: Fixed issue regarding working with GDB and subtypes with inherited domains
- Known Issue: Downloading base map tile packages greater than 300MB in size over WiFi or 4G connection can result in considerable download initiation times, consider side loading files via USB or be prepared long wait times for download completion
- Known Issue: External Bluetooth GPS Receivers support requires that the Android setting “Date & Time-> Use Network Provided Time” must be enabled and that the Android device must have connected to a cellular or WiFi network on at least one occasion in order to properly set the device’s date and time
- Known Issue: Current map location must be reacquired when a new data layer is first added to the map view after its download has completed
- Known Issue: Use of Samsung Galaxy S5 camera low-light setting may result in application instability, it is advised to keep this functionality disabled on these devices

Version 2.2 (Build 2.2.003) – Released 7/2016

- Application log in URL for BLM users now directs to organizational URL rather than arcgis.com
- Download notification progress now reports at 10 percent intervals (rather than 5%) when downloading large maps to better improve overall application performance
- Bug Fix: Android devices running OS Version 6.x (Android M) can now fully utilize external storage card for data storage
- Bug Fix: Application no longer crashes if expected layers in current map are no longer on device when application is relaunched
- Known Issue: Downloading base map tile packages greater than 300MB in size over WiFi or 4G connection can result in considerable download initiation times, consider side loading files via USB or be prepared long wait times for download completion
- Known Issue: External Bluetooth GPS Receivers support requires that the Android setting “Date & Time-> Use Network Provided Time” must be enabled and that the Android device must have connected to a cellular or WiFi network on at least one occasion in order to properly set the device’s date and time

Version 2.1 (Build 2.1.032) – Released 6/2016

- Application color scheme changed to improve visibility when operating in bright sunny conditions
- Icons on Edit Toolbar updated for greater consistency with saving and cancelling edit tasks when creating and editing features
- Navigation Pane given solid background to improve visibility when using dark base maps
- Improved general interaction with edit form controls making it easier to scroll through long forms

- Changed the way date fields are displayed on edit forms, saving space on form, allowing users the ability to keep the field NULL rather than auto-populating with today's date and ability to clear previously entered date value
- Keyboard only pops up in edit forms when user taps on a field that allows for free text data entry, does not appear when accessing fields with domain lists
- Vertices now display on top of underlying line when sketching for improved visibility
- While GPS streaming or averaging, it is no longer possible to select existing individual vertices
- Default Base Map now embedded with application, no longer has to download separately
- Incorporated Datum Transformations between WGS84 and NAD83 data sets, improved logic on when to apply transformations when downloading services
- Current User Reference Map is now included in the preview window when downloading feature services
- Adjusted strike zone for GPS Status bar, to reduce inadvertent selection when using the edit toolbar
- Added a confirmation prompt before signing users out of application
- Bug Fix: GDB field type SINGLE now supported by application
- Bug Fix: Services with subtypes with GDB default domain of NULL no longer corrupts domain list displays
- Bug Fix: Copy Geometry no longer produces erratic behavior when initiated after a previous canceling of an existing feature
- Bug Fix: Cannot create a related record unless all required fields of the parent table are populated
- Bug Fix: Commas in coded value domains no longer break display of domain values
- Bug Fix: Default values of foreign key field can no longer override value from the parent's primary key, preserving relationships
- Bug Fix: Resolved application crash when Manage Map Layers is accessed under certain conditions
- Bug Fix: Photo Attachment form now opens properly on Android 4.4 devices, application no longer crashes when accessing the attachment form a second time
- Bug Fix: Delete Vertex button now works as expected
- Bug Fix: application no longer freezes if GPS is activated from within the download base map form
- Bug Fix: Measure tool now functions properly after geometry editing is cancelled of an existing feature
- Bug Fix: Services that are defined in Oregon Washington Albers now download properly if the standard ESRI coordinate system properties file is used to define the projection
- Bug Fix: improved application's ability to correctly set the current map MaxScale
- Bug Fix: resolved issue where OS frees memory due to many apps running concurrently, which resulted in S1 crash
- Bug Fix: Base Map downloads that are interrupted due to network time outs no longer result in application freeze
- Bug Fix: If bi-directional sync fails due to the known ESRI Runtime SDK bug, the application will report "Sync Upload Successful, but download of features from other users failed. Edit Geodatabase will need to be deleted locally and re-downloaded to get features from other users."
- Bug Fix: if Android home button is pushed while data is being collected, the existing application is reopened when user taps application icon rather than restarting the entire activity, which preserves the previous edit sketch data.

- Known Issue: Android devices running OS Version 6.x (Android M) do not utilize external storage card only internal device storage

Version 2.0 (Build 2.0.131) – Released 3/2016

- Added support for editing of feature geometry
- Ability to change GPS location display coordinates & selected feature coordinates (user configurable)
- Added Degrees Decimal Minutes WGS84 as a supported map coordinate system
- Improved ability to select existing map features at different map zoom levels
- Support for external BT GPS receivers (Trimble Geo 6000/7x, Trimble R1, Garmin GLO)
- Added Copy Geometry tool functionality
- When using Copy Geometry tool, attributes are also copied if fields match
- Added support for related table data entry (feature to table & table to table relationships)
- Unique primary key values are auto generated when new features are created where relationship classes exist (for following field types: GUID, text, integers)
- Repeat Attributes functionality extended to related tables
- GPS estimated accuracy can be displayed to 68% or 95% confidence level (user configurable)
- Application units can be displayed in metric or US statute (user configurable)
- Populates estimated accuracy (95% confidence level) and coordinate source fields when feature is created or updated, if fields are present in GDB
- Populates estimated accuracy (95% confidence level) and coordinate source fields for collected waypoints
- Added navigation capabilities with distance/bearing to target & arrival notification
- Added support for new ESRI base map tile levels (L20-L23)
- Support for GPS streaming via distance interval
- Added Measure tool (length & area)
- Updated visual look and feel of the selection menu
- Implemented new Feature Info Pop Up interface
- Added Feature Statistics to Feature Info pop up (X/Y of feature, length and area of feature, distance & direction to feature)
- Ability to sync even if there are no new changes on device, pulls down new changes from server
- Copy/duplicate row in related table functionality
- Support for photo attachments in related tables
- Sync log text file now generated on device to record all sync transaction process steps
- Better validation of attribute field values when entering into attribute form
- Photo Attachment form: added spinner to form when loading existing attachments, fixed bug where thumbnails persisted after photo attachment was deleted by application
- Can add AGOL “My Content” not just content shared with a particular group
- Added support for additional Agency base map download options
- More robust “About Application” information

- Bug Fix: editor tracking fields now correctly populating on both agency and hosted services
- Bug Fix: if application is not authenticated every 30 days with AGOL, user no longer gets cryptic error when attempting to download or sync.
- Bug Fix: Feature Service with spaces in name now supported
- Bug fix: Improved handling of GDB download after deleting a previous GDB with same name
- Bug Fix: Feature info window now displays attributes in expected order
- Bug Fix: Date fields are now properly formatted across application
- Bug Fix: When displaying attributes, descriptions rather than coded value domains are shown
- Bug Fix: When displaying subtype attributes, descriptions rather than subtype integer are shown
- Bug Fix: AGOL user credentials must be valid for chosen organization
- Bug Fix: If poor AGOL connectivity, provide more graceful message to user if process fails when attempting to download content
- Bug Fix: back button during AGOL download provides more consistent behavior
- Bug Fix: AGOL group names with special characters now recognized by application
- Bug Fix: Provides more descriptive message when users attempt action (sync, delete) on a GDB replica that they are not owner of

Version 1.1 (Build 1.1.22) – Released 1/2016

- Improved performance when downloading content on some WiFi networks
- GDB subtypes now fully supported as edit layers
- Download GDB extent areas now only need to intersect rather than be fully contained by current base map in order to add to current map view
- Repeat Attributes functionality added
- Edit GDB layer drawing order fixed – points draw on top, followed by line layers, polygons on bottom
- Ability to zoom in to 1:50 scale when edit geodatabase is present in map
- Warning message for Samsung S5 users who have Low Light Detection camera setting enabled
- Support for OR/WA BLM Cartographic Base Map download

Version 1.0 (Build 1.00.190) – Released 9/2015

- Initial application release

Application Support Documents

[S1 Mobile for Android Website](#)

[How to Get S1 Mobile for Android](#)

[S1 Mobile User Guide](#)

[S1 Mobile Quick Reference Guide](#)