Export Sheet Data
Release Notes

More information can be found on [ESD's GitHub page](#).

V 65

General
- Added "Download" button to the export modal, so users can now download generated files without having to open them first.
- Added support for exporting/importing ESD settings via JSON strings, available by opening the new "Settings" modal.
- Export callback method now takes a single JSON blob as its parameter instead of multiple individual parameters. Custom callback methods will need to implement a blob with the following fields:
  - "filename" : string
  - "content" : string
  - "export-folder" : string
  - "mime" : ContentService.MimeType (either JSON or XML)
  - "visualize" : boolean
  - "replace-file" : boolean
  - "message" : string
  - "message-height" : float
- Export and visualize modals now display how long the export process took.
- Fixed CSS oversight that would cause some tooltips to clip and become unreadable.
- Buttons, checkboxes, and dropdowns now use a pointer cursor.
- Key path parsing now uses enum style values instead of string consts.

XML
- Cached key and namespace values when exporting to improve performance.

V 64

General
- Added what's new popup when opening the sidebar for the first time.
- Added "Support ESD" section to ESD's menu dropdown.
- Visualize window has a new layout with support for easy copying via button click.
- Added several safety checks to more gracefully catch errors, especially errors related to Google's inability to handle multiple accounts being signed in.

V 63

XML

- Fixed oversight in initial XML namespace implementation that didn't properly set namespaces on sheet elements.

V 62

General

- Sidebar layout updates
    - Standardized text input and dropdown widths.
    - Updated section title icons to use arrows (▼, ►) instead of math symbols (+, -).
    - Section titles now highlight in matching colors to the appropriate ESD logo.
    - Added indentation to "sub" options like XML declaration values to make it more obvious that they are related to a "parent" option.
- Updated event listener functions to adjust HTML DOM properties on target elements instead of regenerating HTML.
- Broke misc sidebar generation code out into distinct methods to reduce complexity.

XML

- Added support for colons in keys to allow things like namespaced elements.
- Added support for declaring XML namespaces.

JSON

- Fixed a bug where exporting JSON with both "Export cell arrays" and "Export cell objects" enabled could throw an exception.

V 61

General

- Consolidated release notes, documentation and nested elements menu options into one "About" menu option.
- Added safety check when loading/setting properties to catch a google bug that can occur when multiple accounts are signed in and gracefully load default values.
- Updated several variables to be declared with let instead of var for cleaner scoping.

XML

- Added "Export bools as ints" option for exporting boolean values as integers.
    - TRUE will export as 1
    - FALSE will export as 0

V 60

General

- App runtime environment upgraded to V8. This process was automated by google and cannot be undone, this note is purely informative.
- Minor script cleanup and comments.

- String values are now properly trimmed to remove leading and trailing whitespace.
- Converted some global vars to consts since they are now supported in the V8 runtime.
- Broke Sidebar.html into three files to reduce clutter:
    - Sidebar.html
        - Basic HTML forming the basis of the sidebar.
    - SidebarStyle.html
        - CSS used in the sidebar.
    - SidebarJavaScript.html
        - JavaScript code needed for the sidebar to function.
- Export methods now support callbacks. As of now, these callbacks must have parameters for (in order):
    - Filename (string)
        - Name of the exported file, including file extension (.xml or .json).
    - Content (string)
        - String content to populate the file with.
    - ExportFolder (string)
        - ID of the folder to export the file to. This will be empty if there is no custom folder location (ie the file should export to the same folder as the original sheet)
    - Type (ContentService.MimeType)
        - MIME type for the file, either XML or JSON.
    - Visualize (boolean)
        - If true, the exported data will be visualized in a popup window and will not create a file.
    - ReplaceFile (boolean)
        - If true, the most recent file with the same name and data type being targeted will have its contents replaced with the exported data.
    - ExportMessage (string)
        - Message to show after exporting the data.
    - ExportMessageHeight (float)
        - Height of the export message. Used to increase the size of the popup window.

V 59

General
- Renamed "Include first column in export" option to "Include first column"

JSON
- Unwrap sheet prefix option will now unwrap sheets with multiple rows of data.

V 58

General
- Moved XML's "Include first column in export" option to the General Advanced section as both JSON and XML support it now.

XML
- Rows with the first column cell "!--" will now create a comment node for the row.
  - Note that '-' is a special char for XmlService and cannot be used in comment nodes, so '-' chars are replaced with '_' chars

V 57

General
- Note: This was a committed twice to fix a strange automated rollback on Google's part.

JSON
- Added support for exporting JSON arrays with the "Export cell objects" option by wrapping the cell's contents with square brackets ([ ])
- Can now specify how cells with the string "null" are exported:
  - JSON null values (null)
  - String value ("null")

V 56

General
- Added support for selecting a custom export folder location.
- Added reexportFile() function for use in automation.

V 55

JSON
- Can now specify how empty cell values are exported:
  - JSON null values (null)
  - Empty strings ("")

V 54

General
- Replace existing file(s) option now detects the most recently modified file with the same name as the export file and replaces its content instead of just trashing all existing matching files and creating a new one. Files aside from the updated one will still be trashed like before.

V 53

JSON
- Arrays will no longer add an empty string element if the cell is empty. (It is now possible to export empty arrays)

V 52

XML
- Removed "Don't format illegal characters" option since the XmlService API always formats reserved characters.
- Moved the "Root element" option from the advanced section to the general XML section.
- Fixed oversight causing reserved characters to be encoded twice.

V 51

General
- Removed "Newline elements" option since XML and JSON exports now use built-in services to generate their output.

V 50

General
- Added "Minify data" option to allow users to export their data in a less human readable format to produce smaller file sizes.

XML
- Ported XML export process to use Google's XmlService API.
- Added support for "Collapse sheet" options.
- Exported XML is now encoded with the target XML encoding (if provided).

V 49

General
- Custom sheet export toggles now format sheet names to prevent unexpected issues when creating their event listeners.

V 48

XML
- Fixed Format Content option not saving between sessions.

JSON
- Fixed Force String option not saving between sessions.

V 47

General
- The visualization window now escapes special HTML chars to ensure correct visual output.

V 46

JSON
- Exporting single sheets as a raw JSON arrays now exports all rows in the sheet as if it was marked to export as a JSON array via the "Export sheet array" option.
- Fixed collapsing single row sheets that are exported as JSON arrays exporting an empty JSON object instead of their array value.

V 45

JSON
- Fixed oversight that exported negative number cell array elements as strings.

V 44

General
- Added option to collapse single row sheets. (Sort of halfway between unwrapped and default outputs) This currently works for JSON but will not work for XML until XML nested elements are implemented.
- Moved "Ignore prefix" option to the Advanced section.
- Added support for unwrap and collapse sheet prefixes. (Collapse is JSON only for now)

JSON
- Fixed oversight that exported all cell arrays as arrays of strings.
- Fixed runaway escaping when exporting arrays with Force string values enabled.
- Exporting cell objects with Force string values enabled will now export an object with string values, instead of a stringified object.

V 43

General
- Fixed oversight in how properties were loaded when opening ESD in a sheet for the first time that prevented the sidebar from loading properly.

V 42

General
- Added accordion behavior for all section titles. Can now collapse and expand individual sections.
- Moved Nested Elements option to new "Advanced" section.
- Streamlined section titles.
- Added "Export" button to visualization modal.
- Properties now store document settings as well as previous export settings. (This will clear saved settings on documents using the old settings storage method)

JSON
- JSON array prefix can now be added to sheet names to force them to export as JSON arrays.
- Added support for Nested Array prefix to force sheets with a specific prefix to export as nested arrays.

V 41

General
- Added support for ignoring rows by prefacing the first cell of a row with the ignore prefix.
- Added a link to the ESD documentation page on GitHub that can be opened in ESD's add-on submenu.

V 40

General
- Added support for complex nested elements when exporting to JSON. (XML coming soon)
- Added menu items to view ESD's release notes and nested element documentation.
- Hovering over option toggles no longer triggers tooltips (only their labels do).
- Tooltips now render below the export and visualize buttons instead of blocking them.
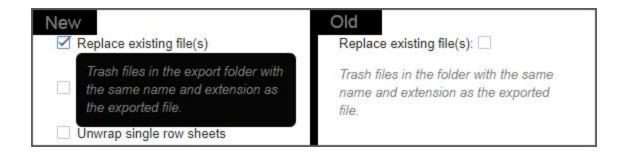
JSON
- Fixed bug that created a trailing comma when ignoring columns at the end of the row.
- JSON cell objects are now validated and will be added as empty object if there is a formatting error.

V 39

General
- Option toggles now precede their labels to give a more unified appearance.
- Option descriptions are now tooltips that will display when hovering over an option.

V 38

General
- Settings are now saved per document, so users no longer need to enter export options each time they open ESD. Export settings are saved automatically after exporting a file, and loaded automatically when opening the sidebar.

V 37

General
- Format settings are now passed via a JSON blob instead of each variable being explicitly sent as individual parameters.

JSON
- Added support for exporting sheets as arrays of values instead of just arrays of objects if the specified sheet contains a single column.
- Fixed minor oversight that didn't add a newline to the closing sheet bracket after exporting a single sheet as a JSON array.

V 36

General
- Changed visualize message to use a colon (:) instead of a hyphen (-) for export modal title.

XML
- Added support for adding XML declaration to exported document
  - Includes:
    - XML target version (1.0 or 1.1)
    - Encoding target (UTF-8, UTF-16, etc)
    - Standalone document declaration (yes or no)

JSON
- ~~Fixed oversight causing the last element in a JSON object to have a trailing comma if there were ignored rows behind it when exporting~~

V 35

General
- Added support for not exporting columns using keys with a specified prefix

V 34

General
- Moved XML option in format dropdown to be below JSON since JSON is the default value. (Previously, the dropdown would generate upwards when clicked since JSON was the second option, despite being the default)
- Using the "Current sheet only" export setting will now append the current sheet's name to the exported file.

XML
- Automatically format element names to comply with XML standards (https://www.w3schools.com/xml/xml_elements.asp)
- Illegal characters in an element's name are now replaced with either an underscore (-), dash (-) or dot (.) as chosen by the user via a dropdown (a message will display on the export window when this happens)
- Values with illegal characters are now automatically encoded to conform with XML standards (this can be disabled if desired)

JSON
- Fixed oversight that allowed pure number keys with no alphabetical characters to not format properly on export

V 33

General
- Streamlined file export process. Exporting no longer creates a file then creates a copy of said file in the correct folder before deleting the original. Exporting now just re-parents the original file to the desired folder.

V 32

General
- Added option to ignore empty cells when exporting data

V 31

General
- Fixed issues in V 29 so user permissions should be properly handled now

V 30

General
- Rollback to V 28 due to multiple export issues submitted

V 29

General
- Files exported from folders the user does not have write permission for will now generate in the user's root folder on Drive instead of failing to export
  - A message noting this is also displayed on the export complete modal
- Files exported from the user's root folder on Drive will properly generate instead of getting stuck in export
- Exporting a file from the root Drive folder or a folder the user does not have write permission to with the "Replace existing file(s)" option check will properly search and remove same name files from the user's root folder on Drive

V 28

JSON
- Fixed oversight that would improperly format columns preceding ignored keyless columns with subsequent, non-ignored columns when exporting JSON

V 27

General
- Columns with empty keys are now ignored when exporting data

JSON
- Can now specify character used to separate JSON array elements (defaults to the comma char [,])
- Added support for forcing cells in a column starting with a specified prefix to export as arrays

V 25 - 26

General
- Force export prefixes are now trimmed from column keys on export

V 24

General
- Added "Unwrap single row sheets" so sheets containing only one row can be exported without a wrapping element

XML
- Added support for forcing columns starting with a specified prefix to export as inner text for the row element
- The first column is now ignored when exporting by default. It is used to name the row element being exported and can be force exported as a distinct element or attribute of the row if desired

JSON
- "Unwrap single row JSON" option has been absorbed into the general "Unwrap single row sheets" option and removed from the JSON section

V 23

General
- Added "Advanced Options" section for JSON and XML
- Simplified export functions for both XML and JSON

XML
- Added support for renaming document root element
- Added support for forcing columns starting with a specified prefix to export as attributes of the row element
- Added support for forcing columns starting with a specified prefix to export as child elements of the row element

JSON
- Moved "Export contents as array" and "Export cell objects" options to advanced options section

V 19

- Fixed an oversight that removed the last character of a string when exporting to JSON

V 18

General
- Added a notice in the visualization dialogue stating that formatted or escaped characters may not display properly when visualizing, but are formatted properly in the exported data itself

V 17

General
- Removed "JSON" and "XML" additions to file names
- Export and visualize buttons are now always visible, so there is no need to keep scrolling to the bottom of the toolbar to export data
- Set JSON as the default export format instead of XML

JSON
- Wrapping a string in quotes (") to prevent mid-content breaking when exporting cell arrays will no longer export escaped quote characters (\"), only the content they were wrapping as one string value

V 16

General
- Fixed bug that would incorrectly place exported data files next to a file with the same name

V 15

JSON
- Selecting "Unwrap single row JSON" will now override "Export sheet arrays" for sheets with a single row

V 14

General
- Added option for using newline formatting

JSON
- Added support for exporting sheets as arrays of objects

V 13

XML
- Added automatic formatting for illegal characters (<, >, ', &, ") in keys
- Added option to format illegal XML characters in values

V 12

JSON
- Added support for forcing values to export as strings
- Added support for non-string arrays

V 11

JSON
- Fixed upload error that prevented JSON from compiling properly

V 10

JSON
- Added basic support for escaping specific characters

V 9

JSON
- Added support for exporting a cell as an array by separating values with commas

V 8

XML
- Added support for exporting values as child elements of a row element

V 7

General
- Minor adjustments to sidebar layout

V 6

General
- Added support for selecting specific sheets for export

V 5

General
- Usability updates

V 4

General
- ● Added sidebar for easier formatting customization
- ● Added visualization feature for previewing data before exporting

V 3

XML
- ● Exported XML files now use the .xml extension instead of .txt

V 2

JSON
- ● Added support for exporting to JSON

V 1

General
- ● Initial commit and release