Remarks

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Release notes with changes since version 10.0.3.

For upgrade information when upgrading to Appway 10.x from Appway 9.1.x, see the 'System
Upgrade: 9.1 to 10.x' article:
https://community.appway.com/screen/kb/article/system-upgrade-9-1-to-10-x-1913013030042

For new Appway 10 installations, see:
- System Installation guide: https://community.appway.com/screen/kb/article/system-
installation-appway-10-1901075430266
- System Installation Using Containers guide:
https://community.appway.com/screen/kb/article/system-installation-using-containers-appway-10-
1951018786136

For documentation of new and existing features, see the Appway Knowledge Base at:
https://community.appway.com/screen/kb

For information on deprecated and removed features in Appway 10, see:
https://community.appway.com/screen/kb/article/feature-removal-and-deprecation-with-appway-10-
1869373509251

For information on Known Issues, see:
https://community.appway.com/screen/kb/article/appway-10-known-issues-1879068360031

For information on the Appway product lifecycle, see:
https://community.appway.com/screen/kb/article/appway-releases-product-lifecycle-and-end-of-
support-1753664569425
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Appway Platform (Core)

Feature

Area	Importance	Description
Blob Storage	Medium	Added an in-memory cache for Blob metadata, thus making access to such metadata faster.
Data Class Editor	High	Behavior (Summary) ---------- - 'Behavior' is a new concept in a Data Class definition. Behaviors define the way in which a Data Class behaves when it is represented in an automatically-generated UI (Data Gathering). In other words, they allow providing semantic information at Data Class level, to ensure that the final representation of the Data Class in a Data Driven UI is coherent with the data contained in the Data Class. In this release, there is on available Behavior, called 'Summary'. - The 'Summary' Behavior allows the user to display only a summary for each element inside a collection. The Summary can be configured under the 'Behavior' tab of a Data Class, which comprises three other tabs: - 'Configuration' allows configuring the title and icons displayed on the summary card. - 'Labeled Values' includes Label-Value pairs to provide more contextual information in the Workspace representation of the Data Class. - 'Unlabeled Values' are a list of additional values to be shown in the Workspace representation of the Data Class. - It is possible for a child Data Class to override a Behavior defined in a parent Data Class by right-clicking on the Behavior itself, and then selecting the 'Override' option in the context menu. NOTE: The 'Behavior' feature has been developed especially to be used in combination with the Data Gathering. See the following documents: - https://community.appway.com/screen/kb/article/data-class-business-object-1482804734061 - https://community.appway.com/screen/kb/article/data-gathering-2011875823178
Data Class Editor	Low	Inheritance: If a Data Class contains two or more missing inherited properties, it is now possible to delete all of them at once by clicking on the 'Delete All Missing Properties' button on the property context menu.

Data Class Editor	High	Labels and Translations (Internationalization) --- NOTE: The following features refer to the Behavior tab of the Data Class Editor: - In the 'Labeled Values' tab, the selector displayed when clicking on the 'Label' field allows you to select a 'Label' Business Object . You can also create and insert a Label contextually by clicking on the 'Create New' button. Any Translations entered in the Label creation dialog are stored as Overriding Translations in the 'Translations' tab available in the Package overview (except for Labels in the Base Package). This dialog also allows defining variables for Label Business Objects. - It is also possible to assign values to the variables defined for Label Business Objects from the Data Class Editor directly (see also 'Label Business Object' Release Notes). - Labeled values and/or Unlabeled values defined as part of Behaviors can be reordered through drag-and-drop. See the following documents: - https://community.appway.com/screen/kb/article/data-class-business-object-1482804734061 - https://community.appway.com/screen/kb/article/languages-and-labels-1482805527070
Data Class Editor	Medium	Usability/UI enhancements --- - Double-clicking on a property (Data Class or Primitive Type) now opens the corresponding Business Object. - Double-clicking on a Function now opens the Script Editor directly. - Package icons: The Package icon and the star icon (in case of favorite Packages) are now displayed in the right sidebar for better usability. Starred Packages are also shown first. - Validation icons: The 'Validate' icon displayed on the Data Class Editor header now changes based on the validation status of the Data Class to provide immediate feedback when editing the Data Class. - Data Class icons: Data Classes generated for integration purposes through the WebServices Extension now display a different icon to make them more recognizable.
Data Engine	Low	Data Logic Sentries: Sentry scripts that return a null value or do not return anything are now accepted (previously they caused an error). In this case, the Control on which such sentry expression is set inherits the Sentry expression of the container Control, as if no Sentry expression was specified.
Data Logic Editor	Low	Controls - 'Active if binding is a' property --- The 'Active if binding is a' property of a 'Data Class' Control is automatically updated when the binding of the Control is set, updated, or removed. For complete information, see the following document: https://community.appway.com/screen/kb/article/data-logic-business-object-1739928404187
Data Logic Editor	Medium	Data Rule renaming --- - The right-hand side library of the 'Data Rules' tab has been reorganized. Data Rules are now organized in sections, and some rules were renamed as follows (note that this renaming has no functional impact): - 'Consistency Expression' to 'Cross-Data Class Expression' (icon has also changed) - 'Data Class Consistency' to 'Multiple Properties Expression' - 'Catalog' to 'Catalog Values' - 'Correctness Expression' to 'Single Property Expression' (icon has also changed) - Moreover, the 'Expression' property of the Data Rules has been renamed 'Valid'. - Tooltips have been added to Data Rules and their properties for improved usability.

		See the following document: https://community.appway.com/screen/kb/article/data-logic-business-object-1739928404187#21-note-on-terminology-and-renaming
Data Logic Editor	Medium	Data Rules ---------- - 'Catalog Values' Data Rules can use Catalogs whose 'id' column contains Long, Integer, Boolean, Date and Money values, in addition to String values, which were the only supported values before the current enhancement. Therefore, only properties of supported Primitive Types (String, Long, Integer, Boolean, Date, Money) can be selected in the 'Property' dropdown list of a 'Catalog Values' Data Rule. - A default message ('Message' property) has been added for 'Catalog Values' Data Rules. The message is provided in the Label 'aw.DataLogic.defaultCatalogRuleMessage' located in the Base Package. - (Change) Empty 'Message' fields in the Data Rules that display the 'Message' property are now reported as validation errors. - (Change) In the 'Data Rules' tab editing area, the color of the icon next to each Rule indicates whether all the necessary values are set. Specifically, the icon is: - Gray when one or more necessary values are not set yet and the Rule cannot be executed by the Data Engine. - Colored when all the necessary values are set and the Rule can be executed by the Data Engine. This is especially useful when you have a series of folded Rules in the editing area. See the following document: https://community.appway.com/screen/kb/article/data-logic-business-object-1739928404187
Data Logic Editor	Medium	Data Rules ---------- - Eligible Types Rule: The 'Data Rules' tab now features the new 'Eligible Types' Rule, which allows users to define the children Data Classes of the selected Data Class that can be instantiated. - Mandatory Fields Rule: The 'Data Rules' tab now features the new 'Mandatory Fields' Rule, which allows users to define a field as conditionally mandatory (e.g. mandatory only for some Roles). - Catalog Values Rule - Size property: Added a setting that allows specifying the expected size of the Catalog used in a 'Catalog Values' Rule. Controls ---------- - Section Group and Field Set Group Controls: Two 'Group' Control types are available in the 'Controls' right-hand side Library: 'Section Group' and 'Field Set Group'. When dragged into the main editing area, they create a 'Group' Control with the 'Type' property set to 'Section' and 'Field Set', respectively. - Start Subprocess Action and End Task Action Controls - Icons: You can now select an icon to be displayed for the 'Start Subprocess Action' and 'End Task Action' Controls by flagging the 'Has Icon' property. - Text Control: A new type of Control, 'Text', has been added to Data Logic 'Controls' to display static or dynamic read-only text. NOTE: These Data Logic features have been developed to be used especially in combination with the Data Gathering. See the following documents: - https://community.appway.com/screen/kb/article/data-logic-business-object-1739928404187 - https://community.appway.com/screen/kb/article/data-gathering-2011875823178
Data Logic Editor	High	Labels and Translations (Internationalization) ---------- - (Change) All Labels in the Data Logic editor are now configured using a Business Object selector instead of the regular input field. For existing Data Logic Business Objects, it is possible to migrate from the regular input field to the Business Object selector by replacing the content of the field with a Label Business Object Id.

		- In particular, the 'Label' and 'Extended Label' properties of Controls in the 'Controls' tab are no longer initialized with static Strings. Instead, the 'Extended Label' property is left empty, while the 'Label' property is populated for Data Controls (where applicable) with a default label corresponding to the Data Class or property. - (Change) As a consequence, empty 'Label' and 'Extended Label' properties of Controls in the 'Controls' tab are no longer reported as validation warnings. - Variable assignments: It is now possible to assign variables to Label Business Objects from the Data Logic Editor directly (see also 'Label Business Object' Release Notes). - Translations tool: The Data Logic Editor now provides the 'Translations' tool, which can be used to add translations for Label Business Objects used in the Data Logic. The tool can be accessed through the 'Edit Labels' button in the header of the editor. The 'Translations' tool allows: Translating labels for the current Business Object (which are stored in the 'Translations' tab of the Package overview); Creating missing Labels Business Objects on the spot; Automatically generating English texts based on the Label ID. See the following document for details: https://community.appway.com/screen/kb/article/data-logic-business-object-1739928404187#22-labels-and-translations
Data Logic Editor	Medium	Usability/UI enhancements --- - It is now possible to open the Business Object selected in the 'Controls' or 'Data Rules' tab by double-clicking on it. For example, double-clicking on a 'Data Class' Control opens the selected Data Class. The same action is also available in the context menu that appears when right-clicking on the Control or Data Rule. - (Change) Improved user experience for Data Rules when adding 'Affected Fields': clicking on the 'Add' button after selecting a property is no longer necessary. - Icons: Improved Package display in the 'Controls' and 'Data Rules' tabs. The Package icon and the star icon (in case of favorite Packages) now appear in the right sidebar. Starred Packages are also shown first in the list. - Assigned Variables: The Data Logic Editor UI for assigning variables to the Business Objects used by the Data Logic (Catalogs, Processes, other Data Logic Business Objects) has been improved. - Icons: The icon identifying the type of Control is now displayed next to each Control in the editing area of the 'Controls' tab for easier visual identification. - Highlighting: Improved highlighting of selected Controls, Data Rules and of their properties when using 'Search' and 'Validate' features.
Format Business Object	High	The new 'Format' Business Object is used to support number input. A compatible 'Format' Business Object can be assigned to Data Class properties of type Integer, Long, Double and Float. NOTE: The 'Format Business Object' feature has been developed especially to be used in combination with the Data Gathering. See the following documents: - https://community.appway.com/screen/kb/article/format-business-object-2038615533611 - https://community.appway.com/screen/kb/article/data-gathering-2011875823178
Label Business Objects	Medium	Variables that can be assigned for Labels are now visible in Label Business Object Library, and in the 'Translations' tab of the Package overview in Studio. See the following document: https://community.appway.com/screen/kb/article/languages-and-labels-1482805527070
Platform Packages	Low	The 'Format' and 'Label' Platform Packages are now automatically installed when starting Appway. They allow using the Business Object Reference functionality. Refer also to the 'Functions Extension 6.1.1' Release Notes. See the following document: https://community.appway.com/screen/kb/article/packages-1496136140789
Style Value	Medium	The 'Font' and 'Font Family' Style Value Business Objects are now available, with

Business Object		dedicated editors. NOTE: These feature have been developed to be used especially in combination with the Data Gathering. See the following document: - https://community.appway.com/screen/kb/article/data-gathering-2011875823178#7-theming
Theme Package	Medium	Theme Package --- - The new 'Theme' Packages are used by the Data Gathering to contain branding information (colors, sizes, and so on). IMPORTANT NOTE: The 'Theme Package' feature has been developed to be used only in combination with the Data Gathering. For Data Gathering 1.0.0, the 'CustomTheme' Package is already provided to Data Gathering users, with no need to create one. See the following documents: - https://community.appway.com/screen/kb/article/packages-1496136140789#8-special-package-types - https://community.appway.com/screen/kb/article/data-gathering-2011875823178#7-theming

Change

Area	Importance	Description
3rd Party Library	Low	The following third-party libraries have been upgraded: - Caffeine from version 2.7.0 to 2.8.5 - Jackson Databind from version 2.9.10.5 to 2.9.10.6
Business Object	Low	The 'Format Pattern' Business Object has been renamed 'Date Format Pattern' in Appway Studio.
Configuration	Low	Configuration: The default value of configuration property 'nm.applicationserver' has been changed from 'tomcat' to 'auto'. If the configuration property is set to 'auto' (new default value), Appway tries to auto-detect the type of application server used to host Appway. It is able to detect Apache Tomcat, IBM WebSphere, JBoss EAP, WildFly, and Oracle WebLogic. As a result, installations on WebSphere no longer require this configuration property to be set to 'websphere' manually. Appway detects that an installation runs on WebSphere and automatically adjusts some behavior to be WebSphere-compatible, e.g., redirect users to the WebSphere-specific logout URL.
Debugger	High	Fixed an issue where the debugger was showing the code from the Head filter instead of the actual filter used during the execution of the code.
Label Business Objects	Medium	The context menu available in several Business Object Editors when right-clicking on a text field now contains only the 'Label' option, which allows selecting or creating a new Label. Previously available options (such as 'Color', 'Snippet', and so on) have been removed in favor of other existing alternatives. The 'Label' modal dialog has also been improved. See the following document: https://community.appway.com/screen/kb/article/languages-and-labels-1482805527070
Process Engine	High	The default strategy for assigning a version filter to a new Process Instance has changed in Appway 10.1.0. If a new Process Instance is started with a TimestampFilter where the timestamp is greater than the timestamp of the latest commit operation on Business Objects or Packages, the timestamp of that TimestampFilter is adjusted to the latest commit timestamp. Example: The latest commit to production has been a deployment of a new Package on May 1st. If a new Process Instance is started on July 1st with a TimestampFilter of that current day, the actual TimestampFilter used by the new Process Instance will point to May 1st as timestamp, the date when the latest commit has taken place. This has no functional impact on the selection of Business Object versions in the Business Object Repository. But it has the positive effect that many Process Instances will now share the same version filter, and version filters can be used as keys for system caches to improve performance. The new function 'Migration:AlignTimestampFilters' contained in the Functions Extension

		can be used to modify all existing Process Instances to use Timestamp Version Filters aligned with commit timestamps (See the 'Function Extension 6.1.1.' Release Notes) For complete information, see the following documents: - https://community.appway.com/screen/kb/article/system-upgrade-9-1-to-10-x-1913013030042#344-migrating-process-instances-to-align-timestamp-filters-optional - https://community.appway.com/screen/kb/article/new-default-strategy-for-version-filters-of-process-instances-in-appway-10-1-2047304668696
Script Language	Medium	Some DataMap and DataArray functions have been deprecated. See documentation: https://community.appway.com/screen/kb/article/feature-removal-and-deprecation-with-appway-10-1869373509251
Security	Low	CSRF Prevention: The entropy of the auto-generated random access token used for CSRF prevention has been increased from 32 bits to over 128 bits. Instead of 8 random hex characters (0-9, A-F), an access token now consists of 22 random alphanumeric characters (a-z, A-Z, 0-9).
Security	Low	Security: The third-party JavaScript library jQuery has been patched to fix four known security vulnerabilities present in jQuery 2.2.4: CVE-2015-9251, CVE-2019-11358, CVE-2020-11022, and CVE-2020-11023. The patched library has a new version number 2.2.4-1. The fix for CVE-2015-9251 has an impact on an existing solution if it satisfies all of the following conditions: - The solution contains custom JavaScript code. - This JavaScript code sends an ajax request using jQuery's functions "$.ajax", "$.get", or "$.post". - The ajax request is sent to a third-party system, not the Appway server. - The JavaScript code does not set the "dataType" property on the ajax request. - The response to the ajax request has the content type "text/javascript". - The response contains JavaScript code. - The solution expects from jQuery that it immediately executes the JavaScript code in the response. Note that an upgrade to jQuery 3.0.0 or greater would have the same effect. This is not a special behavior of the patched jQuery version, but the official new behavior in jQuery. If a solution is affected by this change, the JavaScript code can be changed so that the ajax request have a "dataType" property set to "script". This tells jQuery that evaluation of the returned JavaScript code is intended. To check whether a solution is potentially affected, run a global search for the jQuery functions "$.ajax", "$.get", or "$.post" in Appway. See the following document: https://community.appway.com/screen/kb/article/system-upgrade-9-1-to-10-x-1913013030042
Security	Low	Security: Web Application: The new configuration property "nm.security.http.strict-transport-security.force" can be used to force Appway to always set a "Strict-Transport-Security" header, even in responses to requests on non-HTTPS connections. This is useful when Appway is running behind a load balancer and the HTTPS/SSL connection is offloaded/terminated at the load balancer. The default value of the new configuration property is "false", meaning that the header is set only if Appway detects an HTTPS/SSL connection. If set to "true", Appway will always set the header. See the following document: https://community.appway.com/screen/kb/article/http-headers-set-by-appway-to-protect-users-1868135894572
Style Business Object	Medium	Some default values for 'Style' and 'Style Value' Business Object have changed. See all details in: https://community.appway.com/screen/kb/article/system-upgrade-9-1-to-10-x-1913013030042#311-new-default-values-in-style-and-style-value-business-objects

Bugfix

Area	Importance	Description
Business Object Editors	High	Fixed an issue that caused some Business Object Editors not to open in the specific case in which a Package had a dependency on the Business Object itself (e.g. an entry point).

Business Object Selector	Low	Fixed the following issues in some occurrences of the Business Object selector (e.g in the Data Class Editor), when opening it for the first time: - The first item in the preselected Package could not be selected - The order of the items changed when reopening the selector after a short time interval - The selected Package appeared as empty
Data Class Editor	Low	Business Object selector --- - Fixed an issue that caused the Business Object selector popup to change position when opened. - Fixed an issue when opening the Business Object selector for Data Class properties where some of the items displayed could not be selected.
Data Class Editor	Low	Data Class deletion: Fixed an issue that prevented the deletion of a parent Data Class in specific situations, e.g. when that Data Class contained missing inherited properties.
Data Class Editor	Medium	Input: Fixed an issue that caused part of the user's input (e.g. in property names, descriptions, and so on) to be ignored and removed while typing. This happened for slow connections or specific typing patterns.
Data Class Editor	Low	Script --- - Fixed an issue in the Expression Editor of a Data Class function (accessible from 'Functions' > 'Script' tab) where some characters remained hidden in case of long lines of code, thus making it difficult to edit it. - Fixed an issue that prevented copying the code contained in the 'Definition' field of a Data Class function ('Functions' > 'Script' tab).
Data Class Editor	Medium	Validation: Validation messages are now correctly sorted by descending severity, with higher-severity validation messages displayed first.
Data Logic Editor	Low	Data Logic Editor performance improvement: Opening a Data Logic containing a large number of Controls is now much quicker.
Data Logic Editor	Low	Scrolling: Fixed an issue that caused the 'Controls' tab to scroll to the top when a new Control was added or moved.
Move Business Objects	Medium	Fixed an issue that prevented the metadata of Business Objects that were moved/refactored from containing information of the original or final Business Object name after the move/refactor operation.
Script Language	High	The Functions 'Collection:RemoveElement' and 'Collection:SetElement' have been deprecated since, in some cases, they did not process the given Script Function arguments correctly. New alternative functions dedicated to Indexed and Named have been introduced. The new collection functions are: 'Collection:SetElementWithName' and 'Collection:RemoveElementWithName' for Named collections; 'Collection:SetElementAtIndex' and 'Collection:RemoveElementAtIndex' for Indexed collections. See also: Functions Extension 6.1.2 Release Notes See: https://community.appway.com/screen/kb/article/feature-removal-and-deprecation-with-appway-10-1869373509251
Value Store Splitting	Medium	Data Entities are no longer marked as 'dirty' after reading if they contain a 'Date' property. This avoids unnecessary writes to the distributed maps and the Cluster Storage underneath.
Value Store Splitting	High	Invalid links or exposed Data Entities are now detected before the commit operation is performed and, therefore, before the Value Store is merged back. This prevents exceptions during the commit operation.

Appway Extensions

Feature

Area	Importance	Description
Extension	Medium	AppTask Extension 1.0.0: For information on this extension, see: https://community.appway.com/screen/support/news/release-data-gathering-1-0-0-

		2060217186748
Extension	Medium	AppTaskAPI Extension 1.0.0: For information on this extension, see: https://community.appway.com/screen/support/news/release-data-gathering-1-0-0-2060217186748
Extension	Medium	DataGathering Extension 1.0.0 For information on this extension, see: https://community.appway.com/screen/support/news/release-data-gathering-1-0-0-2060217186748
Extension	Medium	Functions Extension 6.1.1: - Feature: Function: The 'Format:Number' function has been created to support the Format Business Object via Script Language. - Feature: Platform Packages: The 'Format:NewReference' and 'Label:NewReference' Business Object References have been created to be used with the new 'Format' and 'Label' Platform Package, respectively. See documentation: https://community.appway.com/screen/kb/article/business-object-references-1760163550154 - Feaure: The new function 'Migration:AlignTimestampFilters' can be used to modify all existing Process Instances to use Timestamp Version Filters aligned with commit timestamps (See the 'Appway Core Platform 10.1.0' Release Notes) For complete information, see the following documents: - https://community.appway.com/screen/kb/article/system-upgrade-9-1-to-10-x-1913013030042#344-migrating-process-instances-to-align-timestamp-filters-optional - https://community.appway.com/screen/kb/article/new-default-strategy-for-version-filters-of-process-instances-in-appway-10-1-2047304668696 - Bugfix: The 'RotateImage', 'ScaleImage', 'TransformImage' function descriptions have been fixed.
Extension	Low	LdapSyncAdapter Extension 7.0.0: The 'LDAP Configuration' submodule in Appway Studio (under 'System Configuration') is now available through the Extension. See documentation: https://community.appway.com/screen/kb/article/ldap-sync-adapter-extension-1482803556548
Extension	Low	SystemHealthSensors Extension 5.1.3: The 'Sensor State Cleaner' job is now available See documentation: https://community.appway.com/screen/kb/article/system-administration-system-health-1482807177758

Change

Area	Importance	Description
Extension	Low	AWSBlobStorage Extension 2.0.0: - A separate S3 object is used to store metadata. - The AWS S3 SDK library has been upgraded to version 2.14.8. - The AWS access key and secret key, after being manually configured, are encrypted, stored in the Appway internal vault, and marked as [ENCRYPTED]. See documentation: https://community.appway.com/screen/kb/article/blob-storage-user-guide-1956522328698#6-awsblobstorage-extension NOTE: When upgrading from AWSBlobStorage Extension 1.x, please contact Appway Support for help on migrating the existing metadata.
Extension	Low	Inbox Extension 3.1.0: CaseUtils has been renamed DataLogicUtils.

Extension	High	SystemHealthSensors Extension 5.1.2: The 'Automatically pause too large Value Stores' functionality is enabled by default. The following configuration property, therefore, is now set to true by default: 'ValueStoreSize.pauseprocessinstances.enabled' See the following documents: https://community.appway.com/screen/kb/article/system-upgrade-9-1-to-10-x-1913013030042#315-large-values-stores-paused-by-default https://community.appway.com/screen/kb/article/system-administration-system-health-1482807177758#655-value-store-sizes-sensor
Extension	Medium	WebServices Extension 2.11.3: The Extensions uses the new functions 'Collection:SetElementWithName' and 'CollectionSetElementAtIndex'. See: https://community.appway.com/screen/kb/article/feature-removal-and-deprecation-with-appway-10-1869373509251
Extension	Low	WorkitemFinder Extension 4.1.0: CaseUtils has been renamed DataLogicUtils.

Bugfix

Area	Importance	Description
Extension	Low	AWSBlobStorage Extension 2.0.1: Fixed an issue where the extension properties were cleared at startup, thus causing exceptions.
Extension	Low	AWSBlobStorage Extension 2.0.2: Parsing metadata properties have been extracted into BlobStorageServiceMetadataUtils. This also fixes an issue where the '=' character was not allowed in metadata values.
Extension	High	AWSBlobStorage Extension 2.0.3: Fixed an issue where file upload was not supported.
Extension	Low	Functions Extension 6.1.0: - Fixed ValueStore:AnalyzeIfSplittable function parameter name. - Fixed CropImage function description.
Extension	High	Functions Extension 6.1.2: - The Functions 'Collection:RemoveElement' and 'Collection:SetElement' have been deprecated since, in some cases, they did not process the given Script Function arguments correctly. New alternative functions dedicated to Indexed and Named have been introduced. The new collection functions are: 'Collection:SetElementWithName' and 'Collection:RemoveElementWithName' for Named collections; 'Collection:SetElementAtIndex' and 'Collection:RemoveElementAtIndex' for Indexed collections. Auto-migration is available for the 'Collection:SetElement' and 'Collection:RemoveElement' Script Functions. See documentation: https://community.appway.com/screen/kb/article/feature-removal-and-deprecation-with-appway-10-1869373509251 - The function 'Label:Translate' is available to perform Label translation and assign variables to Labels. See: https://community.appway.com/screen/kb/article/languages-labels-and-translations-1482805527070