Remarks

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Release notes with changes since version 7.0.5.

Upgrade notes when upgrading from 7.0.x:
- If your Appway installation uses a Relational database or Cassandra as a cluster storage
backend, you need to create the 'piindexdefinitions', 'piindexstatuses', 'piindexdata', and
'piindexdatasizes' tables manually. See the 'Cluster Storage Update' section in 'System
Upgrade: 6.3 to 7.x' for details: https://community.appway.com/screen/kb/article/system-
upgrade-6-3-to-7-0#22-cluster-storage-update
- To provide better guidance and avoid inadvertent styling specification errors, the
possibility to use 'not set' as a value for style references inside 'Style' Business Objects
was removed. In the unlikely situation that 'not set' was used to define a style reference,
validation returns an error in Appway 7.1. Fix the issue by specifying a 'Style' Business
Object for the affected style reference(s).

For details on upgrading to Appway 7.1 from Appway 6.3, see the article: 'System Upgrade: 6.3
to 7.x' at:
https://community.appway.com/screen/kb/article/system-upgrade-6-3-to-7-0

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

For information on Known Issues in Appway 7, see:
https://community.appway.com/screen/kb/article/appway-7-known-issues

For information on deprecated and removed features in Appway 7 and 7.1, see:
https://community.appway.com/screen/support/news/feature-removal-and-deprecation-planned-with-
appway-7-0

https://community.appway.com/screen/kb/article/feature-removal-and-deprecation-with-appway-7-1
-and-8-0
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Appway Platform (Core)

Feature

Area	Importance	Description
Case Template Editor	Low	The new Action Value field is available in the 'End Case Action' control on the Controls tab. This field allows you to determine where to continue in the Process flow when the Case ends.
Case Template Editor	Medium	The user who last modified the item is now displayed for all items on the Controls, Consistency Rules, and Correctness Rules tabs, clearly indicating who has been working with and changing the Case definition.
Case Template Editor	Low	Variable bindings on the Controls and Correctness Rules tabs can now be edited, making it easier to rapidly adapt your Case definition to changing data structures. Additionally, you can create empty Data Controls (Primitive, Complex, Collection) on the Controls tab and add the bindings manually. On the Correctness Rules tab, Rules can be 'unbound' by deleting the value from the 'Binding' field.
Case Template Editor	Low	When a Catalog is used as a Source on the Correctness Rules tab, it is now possible to set variable assignments for the Catalog.
Cluster	Low	The last active node in a user session is now tracked and displayed in the 'Last Active Node' column of the User Sessions table available in the Studio at System Maintenance > System Overview > User Sessions.
Licensing	Low	You can now download the last 13 months of license logs as a ZIP file. Use the 'Download last 13 months' option available in the Licensing Report section of the Studio.
Packages	Medium	It is now possible to export any of the existing versions of a Package, which makes managing Packages and their different versions more flexible.
Packages	Medium	Package Validation can now be performed from the Package Maintenance tab, allowing you to monitor and improve the state of your Package at any time. Validation reports errors, warnings, and information messages with regards to dependencies, Business Object usage and visibility, and many other areas. For validation messages concerning Business Objects, double-clicking on the message opens the respective Business Object editor (except for Packages and Package Configurations). In the editor, the source of the validation error/warning/info is highlighted, allowing you to quickly examine and fix the

		issue.
Screen Component	High	The new 'Anchor Bar' Screen Component creates a horizontal menu with anchor links to defined targets within the page. By providing an Anchor Bar, you enable end users to get a quick overview of the page content and navigate directly to a section of the page without having to scroll manually. When clicking on an anchor link, the page scrolls to the defined location. The targets within a page can be defined by Anchor Target components or Adaptive Flow Layout Group components. A dedicated 'Style' Business Object is available for comprehensive styling of the Anchor Bar. When pages are viewed on smaller screens or mobile devices, the Anchor Bar adapts accordingly thanks to its built-in responsive design. This Screen Component is part of the ComponentExtension.
Screen Component	High	The new 'Multiple-Selection Field' Screen Component allows users to select more than one of the available options from a list of possible options. A dedicated 'Style' Business Object is available for comprehensive styling of the component. This new component replaces the 'Multiple' option provided by the deprecated Dropdown List [Legacy] Screen Component. A migration tool for the automated substitution of the deprecated component by the newly introduced 'Multiple-Selection Field' is available at Solution Maintenance > Migration Tools > Screen Components. The tool lists all instances of the Dropdown List [Legacy] with the 'Multiple' option enabled, and guides through the migration to Multiple-Selection Field components with an equivalent configuration. This Screen Component is part of the ComponentExtension.

Change

Area	Importance	Description
3rd Party Library	Medium	The following Apache libraries were upgraded: - Httpclient from 4.4 to 4.5 - Httpcore from 4.4. to 4.4.1 These upgrades improve the reliability of Appway network interactions. In particular, these upgrades resolve a known issue in older library versions related to the support of private domains.
Business Object	Low	The terminology used to indicate dependencies has changed: 'Used By' and 'Uses' have replaced 'Incoming' and 'Outgoing'.
Business Object	Low	When filtering Business Objects in the Business Object selector (where you first select a Package, then a Business Object), you can now select a perfect match with the Enter key.
Case Template Editor	Low	Several items in the Editor were renamed: - On the Controls tab, 'End Case Allowed' was renamed to 'End Case Action'. - On the Controls tab, 'Start Subprocess' was renamed to 'Start Subprocess Action` (including labels). - On the Consistency Rules tab, the 'Highlighted Fields' sub-tab was renamed to 'Affected Fields'.
Case Template Editor	Low	When defining a Case on the Controls Tab, you can now place Group Controls within other Group Controls, allowing you to implement more flexible solutions.
Login Page	Low	Borders are now added to all sides of the default login page.
Packages	Low	A black dot is now displayed before the version number of the Package if the Package version has been modified since being created. This makes it easy to identify Packages containing changes not included in a version.
Screen Component	Medium	Both the 'Navigation Menu' Screen Component as well as its entries can be styled comprehensively with newly available 'Style' Business Objects. In addition, the popup menu which is used on smaller screen sizes can also be styled with a dedicated 'Style' Business Object. Note: Since Appway 7.0, the 'Navigation Menu' Screen Component is available for creating a horizontal list of navigation items. In contrast to the new 'Anchor Bar' Screen Component, which is used to navigate within the same page, the Navigation Menu is used to implement the main navigation between different pages of an application. This Screen Component is part of the ComponentExtension.

Script Language	Low	Added the '$queryTimeout' parameter to the SqlCall() function. Using this parameter can help you avoid long-running threads on your platform. This functionality depends on a supporting JDBC driver and database.
Style Business Object	Low	Added a validation error if a style reference in a 'Style' Business Object is set to 'not set' and the Style is not inheriting.

Bugfix

Area	Importance	Description
Case Template Editor	Low	Unified the behavior of the Complex Data Control when "unfolding".
Cluster	Low	Fixed a race condition occurring at startup.
Cluster	Medium	Fixed an issue on multi-node installations, where in some cases an empty Studio window was displayed after a user logged in. The EntitlementService is now initialized correctly and the issue no longer occurs.
Custom Lists	Low	Auto-committing for Custom Lists is now performed correctly when the Custom List has been modified using the 'List Properties' or 'Metadata' context menu options.
Custom Lists	Low	Fixed an issue which occurred when importing a Resource using the 'Import Any' context menu option of a Custom List. The imported Resource is now added to the Custom List as expected.
Info Box	Low	New Info Boxes in Adaptive Flow Layouts look the same as they used to with legacy styles.
Info Box	Low	The Mandatory icon and the Tooltip trigger now keep the defined size and do not shrink when the Info Box is placed inside an Adaptive Flow Layout.
Info Box	Low	The Mandatory icon now respects the alignment set in the 'Style' Business Object when the Info Box is placed inside an Adaptive Flow Layout.
Integration Link	Low	Fixed an issue where opening the editor of a deleted Integration Link led to a null pointer exception.
Integration Link	Low	In the properties of the Directory Scanner start component, the 'Move Filename' option is no longer available if 'Delete' is selected. This change ensures the settings comply with Camel specifications.
Integration Link	Low	The FATAL option was removed from the 'Level' property of the Logger component, as it is not supported by Camel.
Library	Low	Ensured that the Font and Font Style preview renders correctly if a Font Style has no Font ID set.
Packages	Low	Fixed an issue where creating a Package version with a lot of Business Objects ended with a timeout.
Packages	Low	Fixed an issue where double-clicking on the 'Create Version' button created two versions.
PDF Output	Low	Implemented a fix to ensure the editor can be opened if a Font Style has no Font ID set.
Refactoring	Low	Fixed an issue where refactoring Font Styles did not work properly on PDF Outputs when the Font Style was used more than once inside the PDF Output.
Script Language	Low	A check was introduced to prevent the creation of Indexed and Named collections of non-existent types.
Studio - Library	Low	Fixed an issue where resizing the window removed the highlighting from the selected Business Object.
Value Store Splitting	Medium	Added a check to ensure the attributes of a DataObject are correctly loaded before using them.
Workspace	Low	Fixed an issue with permissions which caused Ajax Update Areas to fail when a solution was accessed directly via a URL by a user who has the Administrator role assigned.

Appway Extensions

Feature

Area	Importance	Description
Extension	Low	Component Extension 7.1: - Feature: The new 'Popup' Style Business Object is a virtual component that allows you to style Screen Components that display a dropdown element, such as the 'Navigation Menu'.

		- Feature: The new 'List Entry' Style Business Object is a virtual component that allows you to style the entries of a list (e. g. the Dropdown List, and the Multiple Selection Field). - Feature: The new label aw.DropdownList.textIfDisabled.noSelection (set to empty string by default) determines the text displayed when all these conditions are met: the 'Dropdown List' state is set to 'Disabled', no option is selected, and the 'Show as Text If Disabled' checkbox is selected. Change: Updated some of the default values for 'Style' Business Objects. These new default values only take effect for new installations. If you are upgrading to 7.1 from a 7.0.x installation, the default values available when you first installed are persisted. The affected 'Style' Business Objects and values are: Button-navigationToParent (Inner Spacing); Button-navigationToParentInverted (Inner Spacing); TextInput (Text, Border Rounding, Border: Focused (Color). - Bufgix: Fixed an issue in Internet Explorer 11 where, due to the mandatory icon, the icon itself and the label were not vertically aligned with the 'Infobox' content. - Bufgix: Fixed the following issue: When you migrated a batch of components from Legacy Styles to 'Style' Business Objects through the Styling Migration Tool, only the first component was migrated correctly. - Bufgix: Fixed an issue in the 'Adaptive Flow Layout' component (in read-only mode) where the label baseline and the text value were misaligned. - Bufgix: Fixed an issue where the 'Info Box' icons and text were misaligned with its content when the 'Info Box' was placed inside an 'Adaptive Flow Layout' component. Consider that, in order to avoid inconsistent styling and layout, the following properties for the 'InfoBox' and 'InfoBox_Text' Style Business Objects are not applied: Font Spacing Line (InfoBox_Text), Font Size (InfoBox_Text), Inner Spacing (InfoBox), and Outer Spacing (InfoBox). - Bugfix: Fixed the following issue: When you migrated the style of a 'View' component from Legacy Styles to a 'Style' Business Object through the Styling Migration Tool, the style was reset to Legacy Styles. - Bugfix: Fixed an issue where the 'Adaptive Tab' component was rendered as in the mobile view (instead of the default view) when first loaded. - Bugfix: Fixed an issue where an error was thrown when the 'Catalog' option was selected as the Data Source but left as [not set]. - Bugfix: Fixed an issue where the 'Dropdown List' and 'Date Picker' Screen components were not applying the CSS generated by the Style Provider when used in read-only mode. - Bugfix: Fixed an issue in the 'Dropdown List' Screen component where underlined text displayed in the Search results was not clickable when using Internet Explorer or Edge browsers.
Extension	Medium	Deployment Extension 9.1.0: - Feature: The ExportPackages() function was added allowing you to export Packages to an AWDEPLOYMENT file.
Extension	Medium	Inbox Extension 1.3.1: - Feature: Process Instance Indexing is now available for Inbox which improves performance when filtering and searching. This functionality must be enabled by using the config key 'indexing.enabled', which is set to false by default. - Feature: When indexing is enabled in both Appway core and the Inbox extension, the index on WorkflowToken member "queueName" is created. - Bugfix: Fixed a NullPointerException with search filters on user first/last name where the queue name is set to ‘null’. The search filter now checks the inherited queue name and returns false if no queue name or user is found. - Bugfix: Fixed a log exception caused by the declaration of a variable of the type WorkItemBaseFilter with no value assigned.
Extension	Low	NativeAppServices Extension 3.0.2:

		- Feature: Added support for Android App Links. There are three new configuration keys: `applink.enabled`, `applink.packageName`, and `applink.fingerPrint`. The first defaults to false, the other two are empty by default.
Extension	Low	WebServices Extension 2.6.4: - Feature: Refactoring of SOAP and REST services into and between Packages using the Move Business Objects tool is now supported. The tool informs the user if any condition of moving is not fulfilled (e.g. for SOAP, all Data Model Classes need to be moved together with the Client). In addition, the new Move Tool functionality automatically updates the metadata of REST- and SOAP-generated Data Classes and Primitive Types according to the target Package so that the service continues to function correctly when moved. Note that the metadata can only be updated if the Web Services extension is installed. - Feature: TranslateFrom Function: Added a conversion pattern to control the deserialization of entities when the JSON does not contain a node describing the entity. The conversion pattern is Boolean (true or false) and its name is 'DataEntity'. By default, the conversion pattern is false, meaning that it retains the same behavior as in previous versions. If set to true, a null value is assigned instead of creating not null entities with empty values. - Bugfix: Fixed an issue which occurred when creating a REST Service with a name containing a space or number as the first character. Creating a REST service with a name containing invalid characters is not allowed anymore.

Change

Area	Importance	Description
Extension	Medium	CassandraHazelcastStore Extension 21.0.3: - Change: The extension now supports the new Process Instance Indexing functionality. Upgrade notes: - Ensure the table 'piindexdefinitions' exists. - Ensure the table 'piindexstatuses' exists. - Ensure the table 'piindexdata' exists. - Ensure the table 'piindexdatasizes' exists. See the 'System Upgrade: 6.3 to 7.x' article on community.appway.com for more details on creating tables.
Extension	Low	Functions Extension 3.0.6: - Change: Added deprecation information for the LockWorkflowInstance and UnlockWorkflowInstance Script Functions. - Bugfix: The SetKeyFunction was fixed and now properly supports the overwrite flag. The default value is false.
Extension	Low	OfflineWorklistClient 5.0.1: - Change: If the rescan job of the extension is executed in a distributed fashion, it no longer blocks a Hazelcast thread.
Extension	Medium	RelationalDbHazelcastStore Extension 11.0.2: - Change: The extension now supports the new Process Instance Indexing functionality. Upgrade notes: - Ensure the table 'piindexdefinitions' exists. - Ensure the table 'piindexstatuses' exists. - Ensure the table 'piindexdata' exists. - Ensure the table 'piindexdatasizes' exists. See the 'System Upgrade: 6.3 to 7.x' article on community.appway.com for more details on creating tables.

Bugfix

Area	Importance	Description

Extension	Low	BAM (Business Activity Monitoring) Extension 3.4.4: - Bugfix: Fixed the 'Scenario' list in the 'Measure & Analyze' tool to ensure that it is scrollable when more information than can be displayed is available. - Bugfix: Fixed the compatibility with MySQL and DB2 databases. See the compatibility matrix for detailed version information, available in the 'Supported Databases' section of the 'System Installation: Technical Requirements' article. - Bugfix: Fixed the "Table doesn't exists" typo in the Studio modules.
Extension	Low	ClusterTools Extension 4.0.4: - Feature: Added the HazelcastLocksInfo JMX bean that can be used to monitor the total number of locks and the total age of the locks in the system at a given moment.
Extension	Low	LdapSyncAdapter Extension 4.0.2: - Bugfix: Role synchronization now supports the migration of permissions for built-in roles. - Bugfix: Fixed an LDAP sync failure that occurred when removing a user from a role.