Remarks

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Release notes with changes since version 2023.5.1

See the following resources for further information:

FNZ Studio 2023 Technical Requirements:
https://community.appway.com/screen/kb/article/system-installation-technical-requirements-
1482807410782

Upgrading from FNZ Studio 2022.2.x to 2023.x.x:
https://community.appway.com/screen/kb/article/system-upgrade-fnz-studio-2022-2-to-2023-
2337811700127

New FNZ Studio 2023.x installations:
- System Installation 2023.x: https://community.appway.com/screen/kb/article/system-
installation-fnz-studio-2023-1-2338606490592
- System Installation Using Containers 2023.x:
https://community.appway.com/screen/kb/article/system-installation-using-containers-fnz-studio
-2023-2338635793395

Deprecated and removed features in FNZ Studio 2023.x:
https://community.appway.com/screen/kb/article/feature-removal-and-deprecation-with-fnz-studio
-2023-2338096720134

FNZ Studio 2023.x Known Issues:
https://community.appway.com/screen/kb/article/system-upgrade-fnz-studio-2022-2-to-2023-x-
internal-2337811700127

FNZ Studio 2023.5.2 Product Card:
https://community.appway.com/screen/products/name/fnz-studio-2023-internal/version/2023-5-2
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Appway Platform (Core)

Feature

Area	Importance	Description
Data Logic	Low	The new Script Functions 'DataRules:GetPhoneNumberCountry' and 'DataRules:SetPhoneNumberCountry' (Functions Extension) allow retrieving and setting the country associated with the prefix of a given phone number field (linked to a Phone Number Data Rule in a Data Logic Business Object). See documentation: https://community.appway.com/screen/kb/article/data-logic-business-object-1739928404187#56-phone-number
Integration Links	Low	Two new configuration properties allow configuring the Camel default thread pool: - nm.integrationlink.camel.threadpool.size (default value = 10) - nm.integrationlink.camel.threadpool.maxsize (default value = 20) See documentation: https://community.appway.com/screen/kb/article/integration-link-business-object-1482802425345#32-configuration
OIDC	Low	OIDC: Returned unauthorized response when a resource is accessed with an invalid token. Note that this feature is intended for FNZ internal projects only.
Value Store Splitting	Medium	Implemented more detailed HTTP Tracing and improved performance during Value Store commit if Value Store Splitting is disabled.

Change

Area	Importance	Description
Process Engine	Medium	Change in Value Store cleanup logic: The root scope remains in the value store until the Process Instance and its value store are deleted. This gives process listeners the opportunity to access data from the root scope when process listener methods such as 'workflowInstanceStatusChanged' or 'workflowInstanceRemoved' are invoked, even after a Process Instance has been cancelled.

Bugfix

Area	Importance	Description
Data Engine	Low	Fixed a NullPointerException that occurred if the binding of a Data Logic Control called a Script Function and the returned entity was pointed by a Data Class instance that had a null property.
Process Validation	Medium	Fixed an issue where validation was not working properly for Processes containing a 'Signal' Start Event, in case the 'Signal Name' property contained an expression.

Appway Extensions

Feature

Area	Importance	Description
Extension	Medium	Functions Extension 14.3.0: New 'User:' Script Functions are available: - 'User:GetPermissionsForRole()' retrieves the list of Studio Permissions assigned to a given Role. - 'User:SetPermissionToRole' sets a given Permission and Permission level to a certain Role. Note that you can use this function if you have Studio Permission and Users/Group/Role Permission (Full Access). (Note that two functions above require the Advanced Studio Permission feature: https://community.appway.com/screen/products/name/advanced-studio-permissions/version/1-0-0) - 'User:GetAllGroups()' retrieves all the Groups available in the system. - 'User:GetAllRoles()' retrieves all the Roles available in the system. See documentation for function details: https://community.appway.com/screen/kb/article/script-language-function-reference-1641896132117
Extension	Low	JsonWebKeys Extension 1.1.1: - The JWKS endpoint can now be accessed in FNZ Studio from 'System Configuration' > 'Extensions' > [JsonWebKeys Extension] > 'Open JWKS endpoint'. - JWKS endpoint: Keys that start with 'PrivateKeyJWT_' are exposed automatically. See documentation: https://community.appway.com/screen/kb/article/jsonwebkeys-extension-2363460135635
Extension	Low	OIDCAuth Extension 4.1.2: Note that these features are intended for FNZ internal projects only. - Feature: The 'Export Providers' option in FNZ Studio Composition (System Configuration > OpenID Connect Providers) allows exporting OpenID Connect Providers. - Feature: Added support for Private Key JWT client authentication method (requires Appway OIDC Authenticator v4.0.1 or higher to work). - Feature: Private Key JWT client authentication method: added x5t claim which contains the certificate thumbprint. - Bugfix: OpenID Connect Providers module in FNZ Studio: Fixed a deserialization issue occurring when the 'username' property contained arrays. See documentation (internal only): https://community.appway.com/screen/kb/article/openid-connect-providers-2355834464304

Change

Area	Importance	Description
Extension	Low	StatisticsCollector Extension 9.0.1:

		Statistics values that are not calculated are saved as zero values in .CSV files and shown as empty strings (i.e. empty cells) in statistics tables in FNZ Studio Composition ('System Maintenance' > 'System Statistics'). See documentation: https://community.appway.com/screen/kb/article/statisticscollector-extension-1696907405798

Bugfix

Area	Importance	Description
Extension	Low	AppTask Extension 2023.5.2: The AppTask Extension is used in Application Business Components (ABCs). See separate Release Notes: https://community.appway.com/screen/support/news/extension-release-apptask-2023-5-2-2365018591800
Extension	Low	WebServices Extension 5.0.2: The classpath.policy to restrict allowed resources is now fixed.