DigitalRoute
MediationZone™

Bug Fix Appendix

MediationZone®9.0 SP2 ER1

1 Fixed Bugs

1.1 Overview

This section gives an overview of the fixed bugs and the subsequent sections describe each bug in more detail.

Version	Case ID	Internal ID	Component	Summary
9.0.0.0		XE-8444	Vaadin Web Desktop	Unable to Terminate Sessions in Web UI After a Period of Inactivity
9.0.0.0		XE-8443	Core System Log	Pico Management Not Updating System Log
9.0.0.0	34957	XE-8181	Data Veracity	Nullpointer Exception Introduced by a Previous Fix
9.0.0.0	35090	XE-7962	OpenAPI Profile	JsonEncodeUdr APL Function Does Not Retain Original Field Name
9.0.0.0		XE-7923	Documentation	Missing Documentation for System Tasks
9.0.0.0		XE-7783	SAP CC	Wrong Password May Allow SAP CC Workflow to Start
9.0.0.0		XE-7763	Netty	Vulnerability in Netty
9.0.0.0		XE-7750	Web Services	Vulnerability in Apache CXF
9.0.0.0		XE-7712	MZSH	Incorrect Handling of Some MZSH Command Failures
9.0.0.0		XE-7677	Apache Commons CVE	Vulnerability in Commons-Net
9.0.0.0	35051,35291	XE-7663	OpenAPI Profile	OpenAPI Throws Error When Decoding Array Schema
9.0.0.0		XE-7658	HTTP/2	Netty Version Upgraded
9.0.0.0		XE-7657	Ultra	bit_block Constructs Not Supported in Switch Statement Prefix
9.0.0.0		XE-7646	Azure 3pp	Vulnerability in Azure Libraries
9.0.0.0		XE-7623	CVE Postgres	Vulnerability in Postgres driver
9.0.0.0	34957	XE-7618	Documentation	Unsupported Data Type for Data Veracity Only Mentioned in the Data Veracity Search Page
9.0.0.0		XE-7529	SFTP	Sort Order Criteria not Always Applied to SFTP Collection Agent
9.0.0.0		XE-7521	CVE OSGI	Outdated bndlib Version
9.0.0.0	34424	XE-7353	Aggregation Couchbase	Properties for Couchbase Incorrectly Displayed in Aggregation Agent for Batch Workflows

Version	Case ID	Internal ID	Component	Summary
9.0.0.0	30923	XE-7347	Workflow Engine	Failing to Stop Workflow May Cause the Workflow to Hang in Stopping State
9.0.0.0		XE-7315	Web Desktop	Vulnerability in WebSwing
9.0.0.0		XE-7228	CVE Jackson	Vulnerability in Jackson libraries
9.0.0.0		XE-7100	CVE Salesforce	Vulnerability in CometD
9.0.0.0	32937, 488087	XE-6676	Core Ultra	udrDecode Leaking Memory Due to ThreadLocal Implementation
9.0.0.0		XE-5976	Documentation	Missing Explanation on APL and Java Numeric Value Handling
9.0.0.0		XE-5162	System Export/Import	Unable to import the Statistics Cleaner Workflow Group
9.0.1.0	40753	XE-9652	Documentation SAP RFC	Error in SAP RFC Agent Documentation
9.0.1.0	40750	XE-9646	Documentation	SAP CC Online Agent Documentation Incorrectly Placed and Missing Library
9.0.1.0		XE-9640	System Export/Import	Exception Thrown When Selected Config Has Circular Dependencies in Vaadin System Exporter
9.0.1.0	40731	XE-9634	Installation	Incorrect value populate in cell.conf from what had been set in install.xml file
9.0.1.0	40176	XE-9596	Pico Upgrade	Erroneous Start for EC After Upgrade from MZ8 to MZ9
9.0.1.0		XE-9575	Data Veracity Vaadin	Data Veracity Web UI Filters Failed to Delete and No Helpful Error Message
9.0.1.0	40176	XE-9557	Documentation	Upgrade Instructions Not Fully Documented
9.0.1.0	40176 40492	XE-9540	Upgrade	Failed to upgrade to MZ9 when mz.security.user.password.reset.enabled is set
9.0.1.0	40495	XE-9530	Documentation SAP Hana	Support for Multi-Version Released 3pp Libraries
9.0.1.0	40415	XE-9521	REST Agents	Cannot Save Workflow When REST Client Enables External References
9.0.1.0		XE-9447	5G Profile	5G Profile NRF Behaviour Inconsistent with 3GPP Documentation
9.0.1.0		XE-9433	Conditional Trace	Disabled UI Buttons in Conditional Trace
9.0.1.0		XE-9432	Conditional Trace	Conditional Trace UI Parameters Not Displayed

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Version	Case ID	Internal ID	Component	Summary
9.0.1.0		XE-9431	Core	Deserialization of UDRs May Result in a ClassCastException
9.0.1.0	40176	XE-9419	Access control Upgrade	Upgrade Failed Due To Platform Failing to Move auth.properties File Into mzdb
9.0.1.0	40176	XE-9417	Documentation Installation	Missing Information About Desktop In Post Upgrade Instructions
9.0.1.0		XE-9400	Desktop Launcher	Legacy Desktop Launcher Issue with OpenJDK 17
9.0.1.0	40176	XE-9385	Upgrade	Upgrade MZ8 to MZ9 fails when system insight is enabled
9.0.1.0		XE-9368	SAP RFC	Deadlock in SAP JCO RFC Agent When Stopping the Workflow
9.0.1.0		XE-9332	Documentation Upgrade	Updating Upgrades Document on Database Properties Settings
9.0.1.0		XE-9328	MZSH	MZSH Commands Accessible Without Login
9.0.1.0		XE-9325	Diameter	Excessive logging from Diameter
9.0.1.0		XE-9279	OpenAPI Profile	HTTP2 Server Agent Unable to Set UDRs with Read-Only Fields
9.0.1.0		XE-9259	System Export/Import	Vaadin System Exporter Memory Leak Issue
9.0.1.0		XE-9250	Core	Encoder Cannot Handle Large Amounts of Data
9.0.1.0		XE-9186	JMS	JMS Collector Agent Optional Field Issue
9.0.1.0		XE-9116	SQL agents	SQL Forwarder Configuration Import Issues
9.0.1.0		XE-8979	5G Profile	Open API Profile Config Import Issues
9.0.1.0		XE-8794	DynamicWorkflow	Exception Thrown When Editing Workflows
9.0.1.0	40160	XE-8495	Database Agents	Upgrade Oracle Deprecated Methods
9.0.1.0		XE-8276	Data Veracity Vaadin	Unsupported Data Types are Selectable in Data Veracity UDR Browser
9.0.1.0		XE-8269	Data Veracity Vaadin	Unable to Use Save or Save As on Data Veracity Search UI
9.0.1.0		XE-8211	5G Profile	Incompatible 5G Profile and Workflow Instance Table Exported from MZ8
9.0.1.0	33327	XE-6862	Core	Issue With Long Workflow Package Names
9.0.1.0	40036	XE-8829	Documentation	Documentation Update on Keystore Creation
9.0.1.0	40731	XE-9633	Installation	Broken Link to Legacy Desktop Documentation
9.0.1.0		XE-9296	Documentation	Web Desktop Installation Documentation Incomplete

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Version	Case ID	Internal ID	Component	Summary
9.0.2.0		XE-11110	Google Cloud Storage	Vulnerability Detected in Netty and JSON Libraries used by Google Cloud Components
9.0.2.0	00042587	XE-11094	System Export/Import Vaadin	Configuration not exported although in UI was selected
9.0.2.0		XE-10875	Installation Liquibase	Unable to Change Default JDBC Username and Owner of Postgres
9.0.2.0	00040716	XE-10798	Documentation	Insufficient Information on Operating System Requirements
9.0.2.0	40741	XE-10777	Documentation	Unclear Information of Properties in install.xml
9.0.2.0		XE-10747	Postgres	Callable Statements with PostgreSQL
9.0.2.0	00042083	XE-10730	Events	Group Is Not Set For 'Waiting' Workflow State Events
9.0.2.0	00041983	XE-10605	Workflow Engine	Order Service Does Not Work With Bytearray Data
9.0.2.0		XE-10432	OpenAPI Profile	ClassNotFoundException Is Thrown When Running Workflows with HTTP/2 Using OpenAPI Profile
9.0.2.0	41536	XE-10417	HTTP	HTTPS APL Plugin Fails Unless https.apl.keystore_location Property Is Set
9.0.2.0		XE-10303	Disk Collection FTP SCP SFTP	Duplicate Filter Collection Strategy Stops Working After a While
9.0.2.0		XE-10269	OpenAPI Profile	Discriminator Keyword in Open API Schemas Not Supported
9.0.2.0		XE-10179	Installation	No validation on container name format during installation.
9.0.2.0	SF41368	XE-10176	Execution Manager Upgrade	Several incorrect information on Execution Container Upgrade documentation
9.0.2.0		XE-10163	Amazon S3	Amazon Profile Using IAM Role Unable to Access Bucket
9.0.2.0		XE-10150	System Export/Import	System Exporter Page Failed to Load When Login User Does Not Belong to the Administrator Group
9.0.2.0	00041159	XE-10126	Access control	Access Group Permissions not Persisted When Upgrading from MZ8
9.0.2.0		XE-10014	OpenAPI Profile	OpenAPI Profile Does Not Work in HTTP2 Client
9.0.2.0		XE-9950	Core	Synchronizing WorkflowServer State Causes Resource Starvation

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Version	Case ID	Internal ID	Component	Summary
9.0.2.0		XE-9918	Apache Commons	Vulnerabilith in Apache Commons
9.0.2.0		XE-9836	SAP RFC	JCO Agent Throws Unexpected Error at Trace Level 8
9.0.2.0		XE-9831	OpenAPI Profile	HTTP2 Server Agent Unable to Set UDRs with Read-Only Fields
9.0.2.0		XE-9830	OpenAPI Profile	Invalid Vaadin OpenAPI Profile Shows Valid Status
9.0.2.0	40176	XE-9554	Upgrade	Install.xml Not Automatically Updated for SAP HANA Database
9.0.2.0		XE-9234	Ultra	Poor User Experience When Adding Duplicate Key in UDR Default Value List
9.0.2.0		XE-7994	HTTP/2	HTTP2 Client Requests Only Allow Single Value Parameters
9.0.2.0		XE-7679	Installation	Platform Installation Does Not Prompt for New Admin Password When install.security is Set to True
9.0.2.0		XE-7093	OpenAPI Profile	Open API Profile Becomes Invalid When Saved
9.0.2.1		XE-12085	Rebranding	Desktop Shows Wrong Name and Version After Removal of 'Branding' Entry From SDR
9.0.2.1		XE-12143	Core Ultra	Vulnerability Detected in Clojure
9.0.2.1		XE-11585	Avro	Vulnerability Detected in Avro

1.2 Unable to Terminate Sessions in Web UI After a Period of Inactivity

Case ID	Internal ID	Component
	XE-8444	Vaadin Web Desktop

Description:

When the "Reauthenticate Users After Inactivity" field in mzdesktop is set, sessions in Web UI are not terminated after a period of inactivity.

Resolution:

Sessions are revoked after set period of time in "Reauthenticate Users After Inactivity" field in access control.

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1.3 Pico Management Not Updating System Log

Case ID	Internal ID	Component
	XE-8443	Core
		System Log

Description:

If Pico config is updated form Web Pico Management UI then system log is not updated.

Resolution:

System log is added with proper details for updates.

1.4 Nullpointer Exception Introduced by a Previous Fix

Case ID	Internal ID	Component
34957	XE-8181	Data Veracity

Description:

Due to a previous bug fix, an exception is caused due to accessing an uninitialized list.

Resolution:

This problem has now be sovled and a check for an empty null value of the list has been added.

1.5 JsonEncodeUdr APL Function Does Not Retain Original Field Name

Case ID	Internal ID	Component
35090	XE-7962	OpenAPI Profile

Description:

When encoding UDRs with the JsonEncodeUdr APL function, the UDRs containing field names starting with numbers or symbols are modified to satisfy Java class naming rules.

Resolution:

Fix the encoding function to retain the original field name.

1.6 Missing Documentation for System Tasks

Case ID	Internal ID	Component
	XE-7923	Documentation

Description:

Documentation for many System Tasks is missing.

Resolution:

The documentation has now been updated to describe System Tasks.

1.7 Wrong Password May Allow SAP CC Workflow to Start

Case ID	Internal ID	Component
	XE-7783	SAP CC

Description:

When user insert a wrong SAP CC login password, workflow can be start without abort, no authentication failed message at debug mode.

Resolution:

When authentication failed it will immediately showing error and abort the workflow.

1.8 Vulnerability in Netty

Case ID	Internal ID	Component
	XE-7763	Netty

Description:

A CVE regarding Netty, CVE-2022-41881, was detected.

Resolution:

Netty has now been upgraded and this vulnerability is removed.

1.9 Vulnerability in Apache CXF

Case ID	Internal ID	Component
	XE-7750	Web Services

Description:

Apache CXF contains vulnerabilities (`CVE-2022-46364` and `CVE-2022-46363`).

Resolution:

Apache CXF have been upgraded to a non-vulnerable version.

1.10 Incorrect Handling of Some MZSH Command Failures

Case ID	Internal ID	Component
	XE-7712	MZSH

Description:

Some mzsh commands failures are not reported by the mzsh command line tool. Instead mzsh just silently fails, giving no feedback or error message.

Resolution:

This problem has now been fixed and for any exceptions, an explicit message will be displayed.

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1.11 Vulnerability in Commons-Net

Case ID	Internal ID	Component
	XE-7677	Apache Commons
		CVE

Description:

Commons-Net contain a vulnerability (`CVE-2021-37533`).

Resolution:

Commons-net have been upgraded to a non-vulnerable version.

1.12 OpenAPI Throws Error When Decoding Array Schema

Case ID	Internal ID	Component
35051,35291	XE-7663	OpenAPI Profile

Description:

When using the Http agents with Open API Profile, the agent does not handle requests that contains array schema properly and throws null pointer exception.

Resolution:

Fix the agent code to allow handling of array schema. Array schemas will be added to the open api class but will be skipped during decoding.

1.13 Netty Version Upgraded

Case ID	Internal ID	Component
	XE-7658	HTTP/2

Description:

A security vulnerability has been found in Netty versions 3.10.6.Final and 4.1.15.Final.

Resolution:

Netty version is now upgraded to 4.1.73.Final to mitigate the reported vulnerability.

1.14 bit_block Constructs Not Supported in Switch Statement Prefix

Case ID	Internal ID	Component
	XE-7657	Ultra

Description:

Ultra doesn't support declaring bit_blocks in the prefix of a switched_set.

Resolution:

Ultra has been updated to support bit_blocks in the prefix of a switched_set. The fields inside the bit_block can be used as any other field in the prefix.

1.15 Vulnerability in Azure Libraries

Case ID	Internal ID	Component
	XE-7646	Azure 3pp

Description:

The Azure Libraries package contain a vulnerability (`CVE-2022-31684`).

Resolution:

The Azure Libraries package have been upgraded to a non-vulnerable version.

1.16 Vulnerability in Postgres driver

Case ID	Internal ID	Component
	XE-7623	CVE
		Postgres

Description:

The Postgres driver contain a vulnerability (`CVE-2022-41946`).

Resolution:

The Postgres driver has been upgraded to a non-vulnerable version.

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1.17 Unsupported Data Type for Data Veracity Only Mentioned in the Data Veracity Search Page

Case ID	Internal ID	Component
34957	XE-7618	Documentation

Description:

We do not support List and Map types for Data Veracity filter, repair and data masking. The documentation only mentions this fact in the Data Veracity search page.

Resolution:

The note for unsupported data types for Data Veracity has now been added into the other parts of the documentation for Data Veracity. Namely in the filter, repair and data masking pages.

1.18 Sort Order Criteria not Always Applied to SFTP Collection Agent

Case ID	Internal ID	Component
	XE-7529	SFTP

Description:

When using the SFTP Collection Agent, the configured Sort Order criteria is not applied to subfolders when the SFTP collection agent setting is as follows: The Include Subfolder option under the Source tab is selected and the Enable Sort Order option under the Sort Order tab is selected and the specified Directory contains only the specified subfolder. The SFTP collection workflow run is expected to abort when the subfolder does not meet the Sort Order criteri. Instead, the workflow runs successfully without any error.

Resolution:

This is fixed so that Sort Order criteria is applied when there is only 1 subfolder within the specified directory.

1.19 Outdated bndlib Version

Case ID	Internal ID	Component
	XE-7521	CVE
		OSGI

Description:

Newer versions of bndlib has been released that we should upgrade to.

Resolution:

bndlib has now been updated to 6.3.1.

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1.20 Properties for Couchbase Incorrectly Displayed in Aggregation Agent for Batch Workflows

Case ID	Internal ID	Component
34424	XE-7353	Aggregation
		Couchbase

Description:

Despite Couchbase storage not being supported by batch workflows, Couchbase properties are still being displayed when configuring the Aggregation profile.

Resolution:

Couchbase properties will not be displayed during configuration unless it is a real-time workflow.

1.21 Failing to Stop Workflow May Cause the Workflow to Hang in Stopping State

Case ID	Internal ID	Component
30923	XE-7347	Workflow Engine

Description:

If a workflow stop fails, the workflow state may get into an unrecoverable state. It will then be running and can not be stopped unless the Execution Context is restarted.

Resolution:

A workflow stop command will now always attempt to stop the workflow, even if the stop signal has already been sent.

1.22 Vulnerability in WebSwing

Case ID	Internal ID	Component
	XE-7315	Web Desktop

Description:

WebSwing contains vulnerabilities (`CVE-2022-42920` , `CVE-2022-3171` , `CVE-2022-42003` and `CVE-2022-42004`).

Resolution:

WebSwing has been upgraded to a non-vulnerable version.

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1.23 Vulnerability in Jackson libraries

Case ID	Internal ID	Component
	XE-7228	CVE
		Jackson

Description:

The Jackson libraries contain vulnerabilities (`CVE-2022-42003` and `CVE-2022-42004`).

Resolution:

Jackson and Jackson-databind have been upgraded to a non-vulnerable version.{color}

1.24 Vulnerability in CometD

Case ID	Internal ID	Component
	XE-7100	CVE
		Salesforce

Description:

The CometD Library contain a vulnerability (`CVE-2022-24721`).

Resolution:

The CometD library have been upgraded to a non-vulnerable version.

1.25 udrDecode Leaking Memory Due to ThreadLocal Implementation

Case ID	Internal ID	Component
32937, 488087	XE-6676	Core
		Ultra

Description:

When udrDecode or udrEncode is called from the initialize block, certain references held as ThreadLocal values are not be released properly which can cause the system to run out of memory.

Resolution:

The references stored as ThreadLocal values are now cleared properly and the system will release memory when the garbage collector is called by the jvm.

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1.26 Missing Explanation on APL and Java Numeric Value Handling

Case ID	Internal ID	Component
	XE-5976	Documentation

Description:

APL and Java handle numeric values in a different manner. Inappropriate value operation can result in an overflow.

Resolution:

The relevant documentation has been updated to reflect the differences between Java and APL.

1.27 Unable to import the Statistics Cleaner Workflow Group

Case ID	Internal ID	Component
	XE-5162	System Export/Import

Description:

The SystemTask.Statistics_Cleaner_grp workflow group is not possible to import.

Resolution:

The issue is resolved and the workflow group can now be imported.

1.28 Error in SAP RFC Agent Documentation

Case ID	Internal ID	Component
40753	XE-9652	Documentation
		SAP RFC

Description:

Incorrect SAP RFC Agent Preparation Documentation

Resolution:

The correct information has been added to the Container section of the documentation with the common.java.library.path property.

1.29 SAP CC Online Agent Documentation Incorrectly Placed and Missing Library

Case ID	Internal ID	Component
40750	XE-9646	Documentation

Description:

The SAP CC Online Agent Preparations documentation is incorrectly placed in the documentation and the list of libraries is missing _core_admin.jar_.

Resolution:

This issue has now been fixed.

1.30 Exception Thrown When Selected Config Has Circular Dependencies in Vaadin System Exporter

Case ID	Internal ID	Component
	XE-9640	System Export/Import

Description:

In the System Exporter UI, select a config that has circular reference by another config, StackOverflowError exception was thrown.

Resolution:

This issue is fixed. Circular dependencies can now selected.

1.31 Incorrect value populate in cell.conf from what had been set in install.xml file

Case ID	Internal ID	Component
40731	XE-9634	Installation

Description:

Despite configuring _mz.name_ in the _install.xml_ file, the value doesn't reflect in the _cell.conf_ file post installation.

Resolution:

This issue is fixed. _mz.name_ value should now be populated correctly in _cell.conf_.

1.32 Erroneous Start for EC After Upgrade from MZ8 to MZ9

Case ID	Internal ID	Component
40176	XE-9596	Pico
		Upgrade

Description:

When upgrading from MZ8 to MZ9, the ECs would start with errors.

Resolution:

The issue has been fixed and the ECs start without any error.

1.33 Data Veracity Web UI Filters Failed to Delete and No Helpful Error Message

Case ID	Internal ID	Component
	XE-9575	Data Veracity
		Vaadin

Description:

When user has failed to delete Data Veracity filter, there was error notification, however the error message did not contain any helpful information.

Resolution:

When user fail to delete a Data Veracity filter, error notification will now contain useful information for user to troubleshoot further.

1.34 Upgrade Instructions Not Fully Documented

Case ID	Internal ID	Component
40176	XE-9557	Documentation

Description:

The upgrade instructions for the Platform Container were not complete.

Resolution:

The documentation is now updated under section [https://infozone.atlassian.net/wiki/spaces/MD9/pages/4849779/Upgrade+Platform+Container|https://infozone.atlassian.net/wiki/spaces/MD9/pages/4849779/Upgrade+Platform+Container|smart-link] .

1.35 Failed to upgrade to MZ9 when mz.security.user.password.reset.enabled is set

Case ID	Internal ID	Component
40176 40492	XE-9540	Upgrade

Description:

If MZ8.x platform has enabled property mz.security.user.password.reset.enabled, during MZ9 upgrade it failed due to incorrect password state was migrated.

Resolution:

This issue is fixed. Platform should be upgraded successfully when mz.security.user.password.reset.enabled is set.

1.36 Support for Multi-Version Released 3pp Libraries

Case ID	Internal ID	Component
40495	XE-9530	Documentation
		SAP Hana

Description:

3pp libraries using multi-version packaged jars could not be used. This was with the SAP HANA JDBC driver, which made it impossible to use the _Try connection_ button in the Database profile.

Resolution:

Multi-version jars, including the SAP HAN JDBC driver, can now be used.

1.37 Cannot Save Workflow When REST Client Enables External References

Case ID	Internal ID	Component
40415	XE-9521	REST Agents

Description:

When enabled external reference on REST Client, validation error was thrown even though the reference value are set correctly.

Resolution:

This issue is fixed. External reference should now work on REST Client.

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1.38 5G Profile NRF Behaviour Inconsistent with 3GPP Documentation

Case ID	Internal ID	Component
	XE-9447	5G Profile

Description:

When using the 5G profile with http2 agents, there were some inconsistent behaviour relating to the heartbeat timer, custom specification and response handling.

Resolution:

We enhanced the 5G Profile and its response handling behaviour when used with the http2 agents to be more in line with details stated in the 3GPP documentation.

1.39 Disabled UI Buttons in Conditional Trace

Case ID	Internal ID	Component
	XE-9433	Conditional Trace

Description:

Sometimes in the Conditional Trace UI, both the _Start_ and _Stop_ buttons may be disabled.

Resolution:

The issue has now been corrected so that the _Start_ and _Stop_ buttons are always enabled depending on whether a trace is running.

1.40 Conditional Trace UI Parameters Not Displayed

Case ID	Internal ID	Component
	XE-9432	Conditional Trace

Description:

Conditional Trace UI may not correctly update the displayed parameters for the selected Trace Template.

Resolution:

The issue has been fixed.

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1.41 Deserialization of UDRs May Result in a ClassCastException

Case ID	Internal ID	Component
	XE-9431	Core

Description:

When stored UDRs from earlier versions of MediationZone are deserialized, you may get a ClassCast Exception.

Resolution:

This problem has now been fixed and deserialization should work as intended.

1.42 Upgrade Failed Due To Platform Failing to Move auth.properties File Into mzdb

Case ID	Internal ID	Component
40176	XE-9419	Access control
		Upgrade

Description:

During the upgrade from mz8.3 to mz9.0.0.0, _auth.properties_ failed to update into _mzdb_ if the table is empty.

Resolution:

Add a checking if the table is empty skip the update, and proceed to insert into _mzdb_.

1.43 Missing Information About Desktop In Post Upgrade Instructions

Case ID	Internal ID	Component
40176	XE-9417	Documentation
		Installation

Description:

The information about how to install the desktop or legacy desktop once the upgrade is done was missing from the documentation.

Resolution:

The Post Upgrade section of the documentation is now updated with the relevant links.

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1.44 Legacy Desktop Launcher Issue with OpenJDK 17

Case ID	Internal ID	Component
	XE-9400	Desktop Launcher

Description:

Legacy desktop launcher will not work with OpenJDK 17.

Resolution:

This issue is fixed. Legacy desktop launcher is now compatible with the most recent JDK version.

1.45 Upgrade MZ8 to MZ9 fails when system insight is enabled

Case ID	Internal ID	Component
40176	XE-9385	Upgrade

Description:

If system insight is enabled in the MZ 8.x installation by the property "mz.system.insight" being set, then upgrade to MZ 9.0 will fail. The system will not start up since the system insight packages are no longer available.

Resolution:

The issue has now been fixed and the property will have no effect in the MZ 9 system after upgrade.

1.46 Deadlock in SAP JCO RFC Agent When Stopping the Workflow

Case ID	Internal ID	Component
	XE-9368	SAP RFC

Description:

Deadlock occurs in the SAP JCO RFC agent when the user stops the workflow whenever the UDR queue is full of UDRs.

Resolution:

Removed lengthy loop logic waiting for the UDR queue to become empty when the user stops the workflow. Removed lengthy loop logic waiting for the RFCExecutor Thread to complete when the user stops the workflow. Added a try-catch handler for InteruptedException to exit the RFCExecutor Thread when the user stops the workflow

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1.47 Updating Upgrades Document on Database Properties Settings

Case ID	Internal ID	Component
	XE-9332	Documentation
		Upgrade

Description:

Missing information on database related settings in the Upgrade Preparations document.

Resolution:

The missing information is now updated in the document.

1.48 MZSH Commands Accessible Without Login

Case ID	Internal ID	Component
	XE-9328	MZSH

Description:

In previous versions of MediationZone, some administrative commands were exposed to all users. This could potentially lead an unauthorized user to obtain information about the system.

Resolution:

The verification of access rights has been fixed and sensitive commands are exposed only to authorized users as per design. Additionally, the interactive mode has been removed from mzsh.

1.49 Excessive logging from Diameter

Case ID	Internal ID	Component
	XE-9325	Diameter

Description:

When receiving answers of timed out requests, the Diameter stack log one line for ever message. This can cause very excessive logging in some situations which can impact performance.

Resolution:

When there many log messages like this, the logging is now throttled to a reasonable level

1.50 HTTP2 Server Agent Unable to Set UDRs with Read-Only Fields

Case ID	Internal ID	Component
	XE-9279	OpenAPI Profile

Description:

When UDRs are generated from the Open API schema specification file, certain UDR fields used in the response body are marked as read-only. In some cases, the HTTP2 Server agent needs to initialize and set those fields to generate a proper response.

Resolution:

Added a checkbox in the Open API profile to allow users to have the option to ignore the read-only tag for the selected schema specification file.

1.51 Vaadin System Exporter Memory Leak Issue

Case ID	Internal ID	Component
	XE-9259	System Export/Import

Description:

Navigating system exporter back and forth cause UI pico out of memory when the system has a lot of configurations.

Resolution:

System exporter memory leak issue has been fixed.

1.52 Encoder Cannot Handle Large Amounts of Data

Case ID	Internal ID	Component
	XE-9250	Core

Description:

When running really large UDR through a workflow, the Encoder may not have capacity enough and throw an error.

Resolution:

The Encoder has now been redesigned to allow larger UDRs and the the problem with processing large amounts of data is fixed.

1.53 JMS Collector Agent Optional Field Issue

Case ID	Internal ID	Component
	XE-9186	JMS

Description:

The Subscription Client ID for the JMS Collector agent will fail the workflow validation although the field is optional as mentioned in the documentation.

Resolution:

The Subscription Client ID Field is removed from the validation list.

1.54 SQL Forwarder Configuration Import Issues

Case ID	Internal ID	Component
	XE-9116	SQL agents

Description:

Specific fields or configuration save states are lost when importing the SQL forwarder from MediationZone 8.x to MediationZone 9.x.

Resolution:

Added logic to handle imports from MZ 8.x to MZ 9.x.

1.55 Open API Profile Config Import Issues

Case ID	Internal ID	Component
	XE-8979	5G Profile

Description:

Certain fields or config save state is lost when importing the Open API Profile from MZ 8.x to MZ 9.x

Resolution:

Add logic to handle imports from MZ 8.x to MZ 9.x

1.56 Exception Thrown When Editing Workflows

Case ID	Internal ID	Component
	XE-8794	DynamicWorkflow

Description:

When editing a workflow using Workflow Editor, an exception can be thrown.

Resolution:

The issue has been fixed.

DR

1.57 Upgrade Oracle Deprecated Methods

Case ID	Internal ID	Component
40160	XE-8495	Database Agents

Description:

The database forwarding agent was using two obsolete methods for Oracle's batch update functions. This causes performance issues when running toward Oracle 19c.

Resolution:

The function calls have now been updated to no longer use deprecated implementations of the JDBC driver.

1.58 Unsupported Data Types are Selectable in Data Veracity UDR Browser

Case ID	Internal ID	Component
	XE-8276	Data Veracity
		Vaadin

Description:

Unsupported data types like Map and List are selectable in Data Veracity Restricted Field Edit/New dialog.

Resolution:

Unsupported data types are hidden from a user in Data Veracity Restricted Field Edit/New dialog.

1.59 Unable to Use Save or Save As on Data Veracity Search UI

Case ID	Internal ID	Component
	XE-8269	Data Veracity
		Vaadin

Description:

The existing Data Veracity Search page has no option for Save New and Update. Users can only load a saved filter and modify the queries.

Resolution:

This has been fixed by adding two new options added to Save, namely Save New and Update, allowing the user to save as new or update existing.

1.60 Incompatible 5G Profile and Workflow Instance Table Exported from MZ8

Case ID	Internal ID	Component
	XE-8211	5G Profile

Description:

5G Profile and workflows exported from MediationZone 8 not compatible with Private Edition and MediationZone 9. Some fields in the 5G Profile and workflow instance table columns have gone missing when imported into PE and MZ9.

Resolution:

Some fields in the 5G Profile and some fields in the workflow instance table column exported from MZ8 are given special handling when being imported into PE and MZ9.

1.61 Issue With Long Workflow Package Names

Case ID	Internal ID	Component
33327	XE-6862	Core

Description:

Sometimes workflow packages with long names would exceed the DB column limit of 64 characters for the workflow key. This would break the workflow handling.

Resolution:

This issue has been fixed by adding a character limit check to workflow packages. Validation has been added to the export of workflow packages to prevent this from happening. A (dynamic) limit has been added to the workflow package name. This limit is dynamic and not a "hard" limit because the key itself is comprised of other dynamic parts besides the workflow package name, such as version, system name, and instance ID.

1.62 Documentation Update on Keystore Creation

Case ID	Internal ID	Component
40036	XE-8829	Documentation

Description:

The references to "mzsh keytool" are no longer valid.

Resolution:

Documentation has been updated to replace these references with valid information on creating Keystore.

1.63 Broken Link to Legacy Desktop Documentation

Case ID	Internal ID	Component
40731	XE-9633	Installation

Description:

The link to the Legacy Desktop section in the user documentation is broken.

Resolution:

The link has now been fixed and points to the right place.

1.64 Web Desktop Installation Documentation Incomplete

Case ID	Internal ID	Component
	XE-9296	Documentation

Description:

Web Desktop installation documentation had instances of service context and some extraneous information.

Resolution:

The documentation is now updated accordingly.

1.65 Vulnerability Detected in Netty and JSON Libraries used by Google Cloud Components

Case ID	Internal ID	Component
	XE-11110	Google Cloud Storage

Description:

CVEs detected in multiple Netty and JSON libraries used by Google Cloud components.

Resolution:

The Netty and JSON libraries have now been upgraded and the vulnerability is mitigated.

1.66 Configuration not exported although in UI was selected

Case ID	Internal ID	Component
00042587	XE-11094	System Export/Import
		Vaadin

Description:

When a configuration with multiple dependencies is selected, unchecking one of the dependencies will still show the correct result. However, after an export is performed, some configurations that are selected are missing from the export file.

Resolution:

This issue is fixed, the configuration dependencies are now exported as expected.

DR

1.67 Unable to Change Default JDBC Username and Owner of Postgres

Case ID	Internal ID	Component
	XE-10875	Installation
		Liquibase

Description:

It was not possible to install and run MZ with other username on JDBC user or pg.owner than the default ones.

Resolution:

It is now possible to have other names for Postgres users.

1.68 Insufficient Information on Operating System Requirements

Case ID	Internal ID	Component
00040716	XE-10798	Documentation

Description:

The current documentation does not mention Linux distributions required for Java installation.

Resolution:

The 'Operating Systems' documentation in Infozone is now updated with the Linux versions supported for different Java versions.

1.69 Unclear Information of Properties in install.xml

Case ID	Internal ID	Component
40741	XE-10777	Documentation

Description:

The install and upgrade notes contain unclear information of all properties in the install.xml.

Resolution:

The documentation is updated with the information for all properties, including database related properties.

DR

1.70 Callable Statements with PostgreSQL

Case ID	Internal ID	Component
	XE-10747	Postgres

Description:

MediationZone only calls the JDBC driver's getErrorCode() method to retrieve the error code. It works for other databases except for PostgreSQL because the JDBC driver of PostgreSQL returns error codes in getSQLState(), not getErrorCode().

Resolution:

If MediationZone is connected to a PostgreSQL database, the error code is retrieved via the JDBC driver's getSQLState() method. The value is then set to the newly introduced "sqlState" property of DBErrorUDR which can be accessed from the APL code by calling DBErrorUDR.SqlState.

1.71 Group Is Not Set For 'Waiting' Workflow State Events

Case ID	Internal ID	Component
00042083	XE-10730	Events

Description:

Event notification for workflow state provides workflow group name 'null' for WF state 'Waiting' instead of the correct Workflow Group name.

Resolution:

The group field is now set in the event when the workflow has been scheduled by a Workflow Group.

1.72 Order Service Does Not Work With Bytearray Data

Case ID	Internal ID	Component
00041983	XE-10605	Workflow Engine

Description:

When you have a realtime workflow with the Order Service configured as a workflow service, then no routing of bytearray data will work. This means for example that some agents such as the Encoder Agent are unusable.

Resolution:

Now bytearray data is routed normally, even if the Order Service is enabled.

1.73 ClassNotFoundException Is Thrown When Running Workflows with HTTP/2 Using OpenAPI Profile

Case ID	Internal ID	Component
	XE-10432	OpenAPI Profile

Description:

A ClassNotFoundException is seen in the EC log when an HTTP2 server/client workflow run with OpenAPI Profile contains schema type Array.

Resolution:

A checking mechanism for any OpenAPI scheme type before trying to retrieve its runtime class has been added to avoid retrieving runtime class of schema type Array.

1.74 HTTPS APL Plugin Fails Unless https.apl.keystore_location Property Is Set

Case ID	Internal ID	Component
41536	XE-10417	HTTP

Description:

When using HTTPS, the APL plugin fails if the "https.apl.keystore_location" property has not been set. This property is not required unless the server requires 2-way authentication.

Resolution:

If the properties are provided, they will be used. Otherwise, it will be ignored.

1.75 Duplicate Filter Collection Strategy Stops Working After a While

Case ID	Internal ID	Component
	XE-10303	Disk Collection
		FTP
		SCP
		SFTP

Description:

The list of registered files that are used to check for duplication never gets updated. As the number of files to be collected is greater than the file list size, the Duplicate Filter fails to detect the files that have been collected in the previous workflow runs.

Resolution:

Whenever new files are collected, the list of registered files must be updated to the most recent set of files dynamically. Hence the Duplicate Filter will be able to work correctly even if the number of files to be collected is greater than the file list size.

1.76 Discriminator Keyword in Open API Schemas Not Supported

Case ID	Internal ID	Component
	XE-10269	OpenAPI Profile

Description:

Open API Schema objects using the discriminator keyword are not validated correctly during processing.

Resolution:

Support for schemas containing the discriminator keyword has now been added.

1.77 No validation on container name format during installation.

Case ID	Internal ID	Component
	XE-10179	Installation

Description:

No validation done on container name during installation which will cause issues in retrieving the state of its picos.

Resolution:

Add missing container name validation.

1.78 Several incorrect information on Execution Container Upgrade documentation

Case ID	Internal ID	Component
SF41368	XE-10176	Execution Manager Upgrade

Description:

In the documentation, there are several incorrect information on the Execution Container upgrade section.

Resolution:

The issues have now been corrected in the documentation.

DR

1.79 Amazon Profile Using IAM Role Unable to Access Bucket

Case ID	Internal ID	Component
	XE-10163	Amazon S3

Description:

When using the Amazon profile with IAM Role Selection it is not possible to access the AWS Bucket.

Resolution:

This problem has now been fixed and AWS Buckets can be accessed when using IAM Role Selection.

1.80 System Exporter Page Failed to Load When Login User Does Not Belong to the Administrator Group

Case ID	Internal ID	Component
	XE-10150	System Export/Import

Description:

When the login user does not belong to the Administrator group, Vaadin System Exporter fails to load the page.

Resolution:

This issue is resolved. The System Exporter page should now load properly.

1.81 Access Group Permissions not Persisted When Upgrading from MZ8

Case ID	Internal ID	Component
00041159	XE-10126	Access control

Description:

After upgrading from mz8.x to mz9.x in the Swing Desktop, the access groups created in mz8 are present but lack the execute/write permissions that were originally assigned.

Resolution:

To optimize the time and technical effort, we have implemented a workaround by updating the documentation. It is now imperative to export users and access groups in the access controller before the upgrade and re-import them afterward.

1.82 OpenAPI Profile Does Not Work in HTTP2 Client

Case ID	Internal ID	Component
	XE-10014	OpenAPI Profile

Description:

Description: The schema name's first character must be capitalized for the OpenAPI profile to work on the HTTP2 Client Agent. **Resolution** : Using lowercase for the schema name's first character is now allowed.

Resolution:

1.83 Synchronizing WorkflowServer State Causes Resource Starvation

Case ID	Internal ID	Component
	XE-9950	Core

Description:

When restarting the platform during heavy execution, it is possible to end up in a scenario with several workflow server state threads spawning. This is not intended and may, in some cases, lead to resource starvation on the platform making the system unresponsive.

Resolution:

The underlying issue has been fixed by introducing thread synchronization measures to critical parts of the workflow server startup code.

1.84 Vulnerabilith in Apache Commons

Case ID	Internal ID	Component
	XE-9918	Apache Commons

Description:

The Apache Commons library contains a vulnerability (CVE-2023-34411).

Resolution:

Apache Commons has been upgraded to a version where this vulnerability does not exist.

1.85 JCO Agent Throws Unexpected Error at Trace Level 8

Case ID	Internal ID	Component
	XE-9836	SAP RFC

Description:

When the SAP JCO Agent trace level is set to 8 or above, it will try to retrieve the session attributes to be output. This will cause a runtime exception if the session has not been initialized.

Resolution:

A check to initialize a session, if it is not already initialized has been added in situation where the session attributes need to be read.

1.86 HTTP2 Server Agent Unable to Set UDRs with Read-Only Fields

Case ID	Internal ID	Component
	XE-9831	OpenAPI Profile

Description:

When UDRs are generated from the Open API schema specification file, certain UDR fields used in the response body are marked as read-only. In some cases, the HTTP2 Server agent needs to initialize and set those fields to generate a proper response.

Resolution:

Added a checkbox in the Open API profile to allow users to have the option to ignore the read-only tag for the selected schema specification file.

1.87 Invalid Vaadin OpenAPI Profile Shows Valid Status

Case ID	Internal ID	Component
	XE-9830	OpenAPI Profile

Description:

When saving an invalid Vaadin OpenAPI profile it will be displayed as valid.

Resolution:

This problem has now been fixed, and the correct status will be displayed when saving an OpenAPI profile.

1.88 Install.xml Not Automatically Updated for SAP HANA Database

Case ID	Internal ID	Component
40176	XE-9554	Upgrade

Description:

When upgrading to MediationZone 9 and the system database is SAP Hana, the install.xml generates some incorrect values.

Resolution:

The values, install.admin.password, mz.jdbc.user, mz.jdbc.password, mz.jdbc.url, install.db.jdbc.user, install.db.jdbc.password, install.sap.ssl.encrypt, are now correctly updated from the old installation.

1.89 Poor User Experience When Adding Duplicate Key in UDR Default Value List

Case ID	Internal ID	Component
	XE-9234	Ultra

Description:

The Ultra Format Converter does not inform the user when trying to add a duplicate key in the default value list of a UDR.

Resolution:

This has been fixed by displaying a validation error pop-up with an appropriate message in case the user tries to add a duplicate key in the default value list of a UDR.

1.90 HTTP2 Client Requests Only Allow Single Value Parameters

Case ID	Internal ID	Component
	XE-7994	HTTP/2

Description:

The HTTP2 RequestCycle UDR only allows single value parameters even though the OpenAPI 3.0 spec allows multi-value parameters.

Resolution:

A new field named "multiValuedParameters" which is of type Map<String, List<String>> has now been added to the HTTP2 Client RequestCycleUDR to support the addition of multi-value parameters. For backward compatibility and usage of the new field, see the user documentation of the HTTP2 Client RequestCycleUDR.

DR

1.91 Platform Installation Does Not Prompt for New Admin Password When install.security is Set to True

Case ID	Internal ID	Component
	XE-7679	Installation

Description:

When running a new platform installation, the installation process does not prompt for new admin password although the install.security was set to true in the install.xml.

Resolution:

This issue is fixed, the installation process will now prompt for new admin password when install.security is set to true.

1.92 Open API Profile Becomes Invalid When Saved

Case ID	Internal ID	Component
	XE-7093	OpenAPI Profile

Description:

If the Open API profile has an invalid yaml file, it becomes invalid when saved because some inner schema name under Properties contain invalid characters.

Resolution:

This problem has now been fixed by adding a validation step for inner schema name under Properties. The validation dialog will be displayed to inform the user whenever invalid characters are detected.

1.93 Desktop Shows Wrong Name and Version After Removal of 'Branding' Entry From SDR

Case ID	Internal ID	Component
	XE-12085	Rebranding

Description:

Removal of the 'Branding' entry from SDR caused the display of the wrong name and version on the Desktop.

Resolution:

This is fixed now by adding a logic to check the product name and rebrand it accordingly.

DR

1.94 Vulnerability Detected in Clojure

Case ID	Internal ID	Component
	XE-12143	Core
		Ultra

Description:

A vulnerability was detected in the version of clojure used.

Resolution:

This is fixed now by upgrading Clojure.

1.95 Vulnerability Detected in Avro

Case ID	Internal ID	Component
	XE-11585	Avro

Description:

The Avro library included with the Ultra Avro support package is impacted by the vulnerability CVE-2023-39410. This could allow for Denial of Service attacks by manipulating the input data.

Resolution:

Avro has been upgraded.