GENESYS™

Platform SDK for Java

Release Notes 9.0.x

1/3/2025

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Platform SDK for Java 9.0.x Release Note

This Release Note applies to all 9.0.x releases of Platform SDK for Java. Links in the Available Releases section enable you to access information regarding a specific release.

For information about 8.5.x releases of Platform SDK for Java, see the 8.5 Release Note (Cumulative).

Available Releases

Releases are listed by version number rather than in date order. For this reason, a recent release may be listed after earlier releases, if the version number is lower. Except when otherwise noted in the information for a specific release, each release includes all of the features and corrections that were introduced for the applicable operating system at earlier dates, regardless of the version numbering.

This Release Note lists the supported operating systems for each release at a high level. For more detailed information about the supported versions for each operating system, see the Platform SDK page in the *Genesys Supported Operating Environment Reference Guide*.

You can find Release Notes for particular releases of Platform SDK for Java at the following links:

Release 9.0.0:

Release	Release Date	Release Type	Restrictions	AIX	Linux	Mac	Solaris	Windows	OS-Indep
9.0.010.33	01/03/25	General			X			X	
9.0.010.28	08/01/24	General			X			X	
9.0.010.06	11/20/23	General			X			X	
9.0.010.00	04/10/23	General			X			X	
9.0.009.08	11/15/22	General			X			X	
9.0.009.06	09/30/22	General			X			X	
9.0.008.28	01/26/22	Hot Fix			X			X	
9.0.008.01	07/07/21	General			X			X	
9.0.007.09	01/15/21	Hot Fix			X			X	
9.0.007.07	08/10/20	General			X			X	

Release	Release Date	Release Type	Restrictions	AIX	Linux	Mac	Solaris	Windows	OS-Indep
9.0.007.05	11/15/19	General			X			X	
9.0.007.00	06/25/19	General			X			X	
9.0.005.02	03/07/19	General			X			X	
9.0.004.04	12/21/18	General			X			X	
9.0.003.09	09/14/18	General			X			X	
9.0.002.04	04/18/18	General			X			X	
9.0.001.07	12/27/17	Hot Fix			X			X	
9.0.001.02	09/26/17	General			X			X	
9.0.000.01	06/27/17	General			X			X	

Discontinued Support

This section documents features that are no longer supported in this software. This cumulative list is in release-number order with the most recently discontinued features at the top of the list. For more information on discontinued support for operating environments and databases, see *Discontinued Support in the Genesys Supported Operating Environment Reference Guide*.

Support for the following operating systems and platforms have been discontinued with the Platform SDK 9.0.4 release:

- Java 9

Support for the following operating systems and platforms have been discontinued with the Platform SDK 9.0.0 release:

- AIX (all versions)
- Solaris (all versions)
- RHEL 5
- Microsoft Windows Vista
- JDKs 1.6, 1.7

Link to Known Issues

The Known Issues and Recommendations section is a cumulative list for all 9.0.x releases of the product. It includes information on when individual items were found and, if applicable, corrected. The Corrections and Modifications section for each release may list additional issues that were corrected without first being documented as Known Issues.

You can find information about Known Issues and Recommendations that apply to some 9.0 releases of Platform SDK for Java, including the issues that are specific to Localized (International) releases, at the following links:

- Known Issues and Recommendations
- Internationalization Issues

Additional Information

Additional information on Genesys Telecommunications Laboratories, Inc. is available on our Customer Care website.

The following documentation also contains information about this software. Please consult the *Deployment Guide* first.

- The *Platform SDK Deployment Guide* provides details about installing and configuring Platform SDK for Java.

- The Platform SDK page in the *Genesys Supported Operating Environment Reference Guide* provides detailed information about product support for operating systems.

Release Notes for other Genesys components are available here.

Known Issues and Recommendations

Platform SDK for Java

The Known Issues and Recommendations section is a cumulative list for all 9.0.x releases of Platform SDK for Java. This section provides the latest information on known issues and recommendations associated with this product. It includes information on when individual items were found and, if applicable, corrected. The Resolved Issues section for each release describes the corrections and may list additional issues that were corrected without first being documented as Known Issues.

See also Internationalization Issues.

A `ClassCastException` occurs when EC keys are used with the SunPKCS11 security provider. This known JDK issue is applicable to at least TLS 1.2 and TLS 1.3, reference: https://bugs.openjdk.java.net/browse/JDK-8217610.

ID: **JDK-8217610**	Found In: **9.0.007.00**	Fixed In:

The standard Java PKCS11 provider in FIPS mode did not support TLS 1.2 or higher, as referenced here: https://bugs.openjdk.java.net/browse/JDK-8029661

This known issue was fixed with the OpenJDK release jdk8u212-b04.

ID: **PSDK-9319**	Found In: **9.0.003.09**	Fixed In: **9.0.007.00**

The Platform SDK pom.xml files and code generation tools have been improved to allow compilation with Java 9+. Refer to the Platform SDK Deployment Guide for more information about this dependency.

ID: **PSDK-9043**	Found In: **9.0.002.04**	Fixed In: **9.0.004.04**

Internationalization Issues

Information in this section is included for international customers.

There are no internationalization issues for this product.

Release 9.0.0

Platform SDK for Java Release Notes

You can find links to Release Notes for particular 9.0.0 releases of Platform SDK for Java, if available, in the tree menu on the left or in the list of Available Releases.

9.0.010.28

Platform SDK for Java Release Notes

Release Date	Release Type	Restrictions	AIX	Linux	Mac	Solaris	Windows
08/01/24	General			X			X

What's New

This release contains the following new features and enhancements:

- Support for Red Hat Enterprise Linux 9. See the Platform SDK page in the Genesys Supported Operating Environment Reference Manual for more detailed information and a list of all supported operating systems.

- The default TLS version in PSDK is now TLSv1.3. (PSDK-9908)

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> ### Important
>
> TLS 1.3 is supported in JDK 8u261 b12 or greater. The TLS version can be configured in the com.genesyslab.platform.commons.connection.tlsDefaultVersion option. The available options are *TLS*, *TLSv1*, *TLSv1.1*, *TLSv1.2*, and *TLSv1.3*.

- The third-party Spring component is updated to version 5.3.34. (PSDK-9900)
- Third-party libraries are updated to their latest version to address security issues. (PSDK-9909)
- The netty library is upgraded to version 4.1.109.Final. (PSDK-9895)

> ### Important

Due to a limitation in Netty, connections to the TLS server may hang up if the TLS for client is not configured.

- The IP installers for Linux are 64-bit starting with this release. (PSDK-9912)

Resolved Issues

This release contains the following resolved issues:

The Log4j2 log/expire value range is updated. (PSDK-9887)

PSDK now supports the unsolicited *MSGCFG_OBJECTCHANGED2* CS message during handshake. (PSDK-9853)

Upgrade Notes

No special procedure is required to upgrade to release 9.0.010.28.

9.0.010.06

Platform SDK for Java Release Notes

Release Date	Release Type	Restrictions	AIX	Linux	Mac	Solaris	Windows
11/20/23	General			X			X

What's New

This release contains the following new features and enhancements:

- The Netty version included with Platform SDK for Java has been upgraded to Netty 4.1.100.Final. (PSDK-9843)

- Supports OpenJDK 17. (PSDK-9826)

- Added a new system property **ReconnectOnErrorRestoreSession** in PsdkCustomization. (PSDK-9830)

- Added a new attribute **msgCheck** for the **MessageText** object of Flex Chat Protocol. (PSDK-9836)

- Added the **ConfCalculateTimeZone()** function in **CfgUtilities**. It transforms the formula stored in **CfgTimeZone** into the real timestamp value. (PSDK-9845)

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Resolved Issues

This release contains the following resolved issues:

Fixed channel opening procedure when server requires reconnection. (PSDK-9830)

Upgrade Notes

No special procedure is required to upgrade to release 9.0.010.06.

9.0.010.00

Platform SDK for Java Release Notes

Release Date	Release Type	Restrictions	AIX	Linux	Mac	Solaris	Windows
04/10/23	General			X			X

What's New

This release contains the following new features and enhancements:

- A new getAttributes method is added to the **ConfObjectBase** class. (PSDK-9764)
- New getReferenceID and setReferenceID methods are added to the **Message** class. (PSDK-9775)

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Resolved Issues

This release contains the following resolved issues:

The MessageCorrelator now correctly handles stopped TimerTasks. (PSDK-9822)

When hang-up detection is enabled and the connection between ESJ and MessageServer is lost, the LCA may miss the 'MSAppenderTimer-HBC' thread heartbeat, which can cause ESJ to restart. This issue was fixed by updating the heartbeats ThreadLiveInfo information. (PSDK-9812)

The module-info file for Jackson module has been fixed. (PSDK-9767)

The exception that occurred due to a blocked thread in the commons connection has been resolved.

(PSDK-9669)

Upgrade Notes

No special procedure is required to upgrade to release 9.0.010.00.

9.0.009.08

Platform SDK for Java Release Notes

Release Date	Release Type	Restrictions	AIX	Linux	Mac	Solaris	Windows
11/15/22	General			X			X

What's New

This release includes only resolved issues.

Resolved Issues

This release contains the following resolved issues:

Platform SDK for Java now includes Message Broker improvements that prevent thread blocking from occurring in specific scenarios. (PSDK-9751)

Platform SDK for Java logging now behaves correctly when the log level is set to "none" for level reassignment. (PSDK-9761)

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Upgrade Notes

No special procedure is required to upgrade to release 9.0.009.08.

9.0.009.06

Platform SDK for Java Release Notes

Release Date	Release Type	Restrictions	AIX	Linux	Mac	Solaris	Windows
09/30/22	General			X			X

What's New

This release contains the following new features and enhancements:

- Support has been added for Red Hat Enterprise Linux 8. (PSDK-9680)

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Resolved Issues

This release contains the following resolved issues:

The Netty version included with Platform SDK for Java has been upgraded to Netty 4.1.79.Final to address vulnerabilities. (PSDK-9759, PSDK-9758)

Manifest file imports have been updated in protocol.jar and connection.jar. (PSDK-9757)

Upgrade Notes

No special procedure is required to upgrade to release 9.0.009.06.

9.0.008.28

Platform SDK for Java Release Notes

Release Date	Release Type	Restrictions	AIX	Linux	Mac	Solaris	Windows
01/26/22	Hot Fix			X			X

What's New

This release includes only resolved issues.

Resolved Issues

This release contains the following resolved issues:

Platform SDK dependencies now use log4j release 2.17.1. (PSDK-9743)

Platform SDK dependencies now use Netty 4.1.73.Final. (PSDK-9733)

Improved support for Platform SDK threading. Previously, a deadlock condition was possible if a connection was closing when the ADDP timer event occurred. (PSDK-9722)

Platform SDK now supports TLS 1.3. Enable this version by specifying the "TLSv1.3" constant when setting TLS version. (PSDK-9713)

Platform SDK now checks whether an `EventError` from Configuration Server is notifying that database connection has been lost, so that the Warm Standby Application Block can correctly process and react to the event. (PSDK-9698)

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In the Application Template Application Block, "undefined" values for module version are now replaced with empty lines. (PSDK-9697)

Platform SDK modularization is enabled for Java 11. (PSDK-9684)

Upgrade Notes

No special procedure is required to upgrade to release 9.0.008.28.

9.0.008.01

Platform SDK for Java Release Notes

Release Date	Release Type	Restrictions	AIX	Linux	Mac	Solaris	Windows
07/07/21	General			X			X

What's New

This release contains the following new features and enhancements:

- The `DeleteInteraction` message has been extended with new `datasource` attribute. (PSDK-9594)

- The Interaction Server protocol in Platform SDK now supports the following new attributes:
  - `_attr_place_dbid`
  - `_attr_agent_dbid`
  - `_attr_actor_place_dbid`
  - `_attr_actor_agent_dbid`

    (PSDK-9593)

- `EventInteractionListGet` has been extended with new `TotalCount` (int) attribute. `RequestInteractionListGet` and `RequestContactListGet` also support two new fields:
  - `ESQuery` (String)
  - `CloseScroll` (String)

    (PSDK-9589)

- Platform SDK now prevents creation of `RestApiClient` using `RestApiClientBuilder` if the schema or host are not specified. (PSDK-9370)

- Support for Platform SDK custom loggers has been improved for stability. Exceptions in custom logger implementations are now suppressed to avoid breaking main application/Platform SDK functionality. (PSDK-8242)

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Resolved Issues

This release contains the following resolved issues:

Platform SDK now provides improved password protection within `RestApiException` messages, by suppressing any parameters with names that include "pass" or "pwd". (PSDK-9692)

`ConfigServerProtocol` includes the new `setAutoupgradeTLSConfigurator` method, which helps work with security keystores and providers that require passwords. (PSDK-9689)

Netty (3rd party dependency) version has been updated to 4.1.63.Final to resolve security vulnerabilities. (PSDK-9640)

Improved Bouncy Castle support provides more useful information when an improper TLS configuration is used. (PSDK-9561)

Improved Bouncy Castle support provides better stability for SSL Context initialization procedure. (PSDK-9560)

Bouncy Castle cryptography module Trusted CA support now works correctly. (PSDK-9557)

Platform SDK now supports multiple CA certificates stored in one unencrypted PEM file. (PSDK-9519)

Platform SDK `AsyncInvoker` internal implementations have been extended to include `InvokerInfo`, which provides more visibility to applications in scenarios where invokers are overloaded. (PSDK-9517)

Platform SDK java modules have been updated to contain the module version. (PSDK-9419)

Upgrade Notes

No special procedure is required to upgrade to release 9.0.008.01.

9.0.007.09

Platform SDK for Java Release Notes

Release Date	Release Type	Restrictions	AIX	Linux	Mac	Solaris	Windows
01/15/21	Hot Fix			X			X

What's New

This release includes only resolved issues.

Resolved Issues

This release contains the following resolved issues:

The PSDKRuntime.awaitTermination() methods now wait for the ThreadPoolExecutor that is being used by Netty to shutdown. Also, Platform SDK explicitly shuts down ThreadPoolExecutor when all Netty channels are closed. (PSDK-9626)

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Upgrade Notes

No special procedure is required to upgrade to release 9.0.007.09.

9.0.007.07

Platform SDK for Java Release Notes

Release Date	Release Type	Restrictions	AIX	Linux	Solaris	Windows
08/10/20	General			X		X

What's New

This release includes only resolved issues.

Resolved Issues

This release contains the following resolved issues:

The Netty version included has been upgraded to 4.1.51 to address vulnerabilities in earlier versions. (PSDK-9596, PSDK-9624, PSDK-9630)

Upgrade Notes

No special procedure is required to upgrade to release 9.0.007.07.

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9.0.007.05

Platform SDK for Java Release Notes

Release Date	Release Type	Restrictions	AIX	Linux	Solaris	Windows
11/15/19	General			X		X

What's New

This release contains the following new features and enhancements:

- Platform SDK for Java now supports Windows Server 2019.

Resolved Issues

This release contains the following resolved issues:

The Netty library is updated to version 4.1.42.Final, fixing major security vulnerabilities. (PSDK-9577, PSDK-9580, PSDK-9581)

The Jackson library is updated to version 2.9.10, fixing major security vulnerabilities. (PSDK-9437, PSDK-9532)

Upgrade Notes

No special procedure is required to upgrade to release 9.0.007.05.

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9.0.007.00

Platform SDK for Java Release Notes

Release Date	Release Type	Restrictions	AIX	Linux	Solaris	Windows
06/25/19	General			X		X

What's New

This release contains the following new features and enhancements:

- Platform SDK Stat Server Protocol now supports Interaction Queue and Tenant actions, and correspondent action masks (PSDK-9473, PSDK-9295)
- Enhanced session recovery for SIP Server Cluster. (PSDK-9472)

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Resolved Issues

This release contains the following resolved issues:

IPV6 and Client Side Port configuration options are now supported for connections to Message Server. (PSDK-9522)

Improved comparison of `CfgTimeZone` calendar objects prevents deltas from being sent to Configuration Server when `CfgTimeZone` has not changed. (PSDK-9518)

IVR types now behave as expected, with conflicting values in the `CfgIVRType` enumeration corrected. (PSDK-9497)

Platform SDK no longer has a dependency on the Netty3 library. (PSDK-9494)

Upgrade Notes

No special procedure is required to upgrade to release 9.0.007.00.

9.0.005.02

Platform SDK for Java Release Notes

Release Date	Release Type	Restrictions	AIX	Linux	Solaris	Windows
03/07/19	General			X		X

What's New

This release contains the following new features and enhancements:

- AppTemplate Application Block logging configuration has been extended with option `default-logdir`. Use this option to change the default directory for application log files storage. If not specified, the default value for log file storage is your working directory. (PSDK-9366)

- Platform SDK for Java now uses Netty 4 instead of version 3. (PSDK-9304)

- Platform SDK for Java libraries and jars have been extended to support Java 11 compilation and the new Java modularization feature. (PSDK-9113)

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Resolved Issues

This release contains the following resolved issues:

AppTemplate Application Block logging configuration now includes the `msgsrv-intMsgsLevel` option. Use this option to filter the Platform SDK internal log messages sent to Message Server. (PSDK-9462)

To fix OSGI and Java modularization support, Platform SDK common classes for basic functionality have been moved from `system.jar` to `commons.jar`. (PSDK-9408)

Upgrade Notes

No special procedure is required to upgrade to release 9.0.005.02.

9.0.004.04

Platform SDK for Java Release Notes

Release Date	Release Type	Restrictions	AIX	Linux	Solaris	Windows
12/21/18	General			X		X

What's New

This release contains the following new features and enhancements:

- The AppTemplate Application Configuration Managers' built-in listener for Log4j2 configuration has been improved to check connection configuration options to Message Server.

- This release of Platform SDK for Java adds support for Open JDK 11, and discontinues support for Java 9.

- The Platform SDK pom.xml files and code generation tools have been improved to allow compilation with Java 9 or higher. Refer to the Platform SDK Deployment Guide for more information about this dependency.

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Resolved Issues

This release contains the following resolved issues:

Chat Server Basic and Flex protocols have been corrected to have zero as a default value for `EventId` attribute in protocol structures. (PSDK-9107)

COM Application Block caching logic has been improved to cache data on operations that read multiple objects. (PSDK-9026)

Upgrade Notes

No special procedure is required to upgrade to release 9.0.004.04.

9.0.003.09

Platform SDK for Java Release Notes

Release Date	Release Type	Restrictions	AIX	Linux	Solaris	Windows
09/14/18	General			X		X

What's New

This release contains the following new features and enhancements:

- A new group of document management messages has been added to support `OMService`.

- The `KeyValueCollection.toString()` helper method has been extended to filter out content of sensitive user-defined sections from logging.

- Changes to the Application Template Application Block Log4j2 logging configuration no longer causes log files to rollover unless the filename is changed or segmentation configuration is reached.

- The Application Template Application Block now supports automatic archiving of rotated Log4j2 log files.

- The Application Template Application Block client configuration helper method now uses the Reconnect Timeout value for WarmStandby configuration.

- The Application Template Application Block Log4j2 plugin now generates common LMS messages/events when the Message Server connection state changes.

- The Application Template Application Block logging configuration has been extended to support explicit log message formatting using the new "outputPattern" option.

- Platform SDK now supports the `GroupBy` feature for StatServer.

- The legacy Platform SDK Logger Component has been annotated with deprecation marks.

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Resolved Issues

This release contains the following resolved issues:

The Configuration Server protocol handshake procedure has been corrected to include temporary ADDP suspension during TLS autodetect handshakes. (PSDK-9251)

XmlTransport has been fixed to allow messages of length 16KiB to be sent. (PSDK-9247)

Application Template Application Block Log4j2 logging no longer generates duplicated log file headers. (PSDK-9118)

The Application Template Application Block Log4j2 plugin component no longer removes extra files from the directory with log files during rollover. (PSDK-9110)

The Application Template Application Block Log4j2 GLogFile appender now removes expired log files on start without waiting for rollover. (PSDK-9056)

The Application Template Application Block Log4j2 Message Server appender plugin now releases old connections to message server on logging reconfiguration. (PSDK-9051)

The Application Template Application Block Log4j2 GLogFile appender (`GLogRolloverStrategy`) no longer leaves an extra one log file (numbered N+1). (PSDK-9050)

Upgrade Notes

No special procedure is required to upgrade to release 9.0.003.09.

9.0.002.04

Platform SDK for Java Release Notes

Release Date	Release Type	Restrictions	AIX	Linux	Solaris	Windows
04/18/18	General			X		X

What's New

This release contains the following new features and enhancements:

- Platform SDK supports compatibility with Java 9. See the Prerequisites section on the PSDK page in the *Genesys Supported Operating Environment Reference Guide* for more detailed information and a list of all prerequisites.

- Platform SDK Connection layer component has been updated to use newer version of Netty (3.10.6) to resolve known vulnerabilities of its earlier versions.

- Application Template AB Log4j2 plugin has been updated to work with Log4j v2.10.0.

- Application Template AB Log4j2 configuration has been extended to support custom log messages format; layout pattern may be specified explicitly.

- Application Template AB Log4j2 configuration functionality has been extended with ability to pass the application configuration options to custom FileHeaderProvider.

- Application Template AB Log4j2 Logging functionality has been updated to comply with the Microservices Requirement to have unique log files names.

- Common GEnum based enumerations values, including COM AB, configuration, and other servers' protocols attributes are now properly serializable.

- Configuration protocol schema generation stability has been improved.

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Resolved Issues

This release contains the following resolved issues:

Application Template Log4j2 plugin has been fixed to remove expired log files from "external" log directory by absolute path. (PSDK-9014)

Handling of HA split brain recovery have been improved. (PSDK-8908)

Upgrade Notes

No special procedure is required to upgrade to release 9.0.002.04.

9.0.001.07

Platform SDK for Java Release Notes

Release Date	Release Type	Restrictions	AIX	Linux	Solaris	Windows
12/27/17	Hot Fix			X		X

What's New

This release includes only resolved issues.

Resolved Issues

This release contains the following resolved issues:

Jackson version changed from 2.4.3 to 2.9.3 (PSDK-8972)

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Upgrade Notes

No special procedure is required to upgrade to release 9.0.001.07.

9.0.001.02

Platform SDK for Java Release Notes

Release Date	Release Type	Restrictions	AIX	Linux	Solaris	Windows
09/26/17	General			X		X

What's New

This release contains the following new features and enhancements:

- The Application Template application configuration structure has been extended to provide information about referred tenants.

- ESP-based cluster protocols have been extended with `RequestorInfo` support

- Platform SDK now supports Windows Server 2016.

- TLS target name checking now works correctly, even for TServer protocol.

- The Application Template Application Configuration Manager has been extended with internal state control methods: `init(boolean)` and `refresh(boolean)`. Set the boolean argument to `true` for synchronous waiting for application configuration readiness.

- Reading helpers for Platform SDK TLS properties have been corrected to treat null source values as empty, instead of throwing `IllegalArgumentException`.

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Resolved Issues

This release contains the following resolved issues:

`COMBrokerService` no longer throws `ConcurrentModificationException` errors if a subscriber tries to unregister itself from inside the subscriber handler. (PSDK-8833)

The GEnum hash code evaluation function has been corrected to correspond to the actual values of GEnum comparison logic. (PSDK-8803)

StatServer protocol has improved `ActionsMask` static initialization logic, allowing concurrent initialization without throwing `ConcurrentModificationException` on startup. (PSDK-8795)

Upgrade Notes

No special procedure is required to upgrade to release 9.0.001.02.

9.0.000.01

Platform SDK for Java Release Notes

Release Date	Release Type	Restrictions	AIX	Linux	Solaris	Windows
06/27/17	General			X		X

What's New

This release contains the following new features and enhancements:

- The build procedure for Platform SDK for Java has been updated to use Java version 8, allowing the latest versions of dependencies to be used.
- The Application Template Application Block Log4j logging configurator has been updated for the Log4j 2.7+ configuration API.
- Cluster Protocol now allows substitutes for the default implementation of the Cluster Protocol load balancer.
- Basic and Chat protocols have been extended with the new `eventAttribute` attribute of type `kvlist`.
- Interaction Server Protocol has been extended with three new messages in order to support ESP messages:
  - `EspRequest3rdServer`
  - `EspEvent3rdServerResponse`
  - `EspEvent3rdServerFault`
- You can now change the default BACKLOG size, or set it for a specified server channel.
- `ConfService` is now able to use the channel's invoker.

Resolved Issues

This release contains the following resolved issues:

In the Stat Server protocol, Media Actions IDs have been corrected for "Coaching" and "InteractionStartedUnknown". (PSDK-8720)

Configuration Server protocol initialization logic has been improved to not cause redundant failed class load requests from external resources (for example, in a context such as a browser applet). (PSDK-8197)

The clone function for KeyValueCollection objects now provides a deep copy. (PSDK-8652)

Upgrade Notes

No special procedure is required to upgrade to release 9.0.000.01.