

# KVM Client SDK for Java & .NET

## Release Notes



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Firmware Version: Client SDK 5.3

Release Status: General Availability (GA)

Date: March 14, 2025

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## Client Software Development Kit (SDK) Overview

**Raritan's KVM Client SDK for Java and .NET are a software development kits that support the development of client software for Raritan's Dominion KVM switches. It provides an API and client-side implementation to access functions of the KVM switches across the network.**

The SDK provides an alternative method to access and control computers connected to the KVM switches. Enabling customers who require integration with their own internal systems, more customized software features or want automated access and control of their computers.

The SDK/API can be used for:

- a) Keyboard and mouse input
- b) Video output
- c) Audio
- d) Virtual media
- e) Smartcard access

There are *NO* KVM management/administrative functions in this API.

## Release 5.3.0 Firmware Overview

Client SDK Release 5.3 is a General Availability (GA) Release. This release may include performance and productivity improvements, support for new products and accessories, new features and enhancements, bug fixes, and general fixes for specific model families. Specific updates are outlined below.

## Important Notes

**JAVA SDK:** The Java Client SDK requires Oracle Java 8. The provided libraries are built against this version. Newer Java versions or Java environments provided by other vendors (e.g. OpenJDK) may not work. On Linux systems, other packages may be required (e.g. gtk3) to run Java applications with a GUI.

**.NET SDK:** The .NET Client SDK requires .NET 4.5 or newer. The provided assemblies are built against this .NET version. Newer versions up to 4.7 are also supported. .NET Core and Mono are not supported. Windows 7 or newer is required to run programs built with SDK.

Please contact technical support with any questions or issues.

## Applicability

For use with Dominion KX III and Dominion KX IV KVM switches.

## General Guidelines for this Release

There is limited documentation, use of the Client SDK requires an expert in Java and/or .NET development.

This Client SDK is licensed under the Raritan OpenSource License. For details, see the LICENSE file distributed with the release package.

Raritan provides the Client SDK free of charge. Fees may apply if additional support is required from engineering and technical support teams.

## Release Highlights

### New Features & Enhancements

<i>Issue ID</i>	<i>Description</i>
	Support for DKX III firmware version 3.9 and upcoming 4.0.0
	Fixed wrong colors in image decoding
	Fix sending of Tab when Ctrl+I is pressed (Linux only)
	Fixed sending of keyboard events in Simple (not graphical) version of RcCore
	Support for DKX IV-101 firmware version 4.4.0
	Updated license from proprietary to an open license
	Documentation updates
	Minor Stabilization fixes

Please consult the appropriate Changelog.html for more information on these firmware features at [raritan.com/support](http://raritan.com/support).

## JAVA Client SDK Documentation

The KVM Client SDK for Java is distributed in form of a jar archive that contains the following folders:

- help
  - Contains the API reference manual and other documentation.
    - API Reference in HTML format.
    - A Getting Started guide provides short overview of the most important functions.
    - A short introduction to the example programs provides overview of the example programs.
- example
  - Contains an example project demonstrating the use of the SDK.
- lib
  - Contains runtime libraries implementing KX API in the form of a .jar file.

## .NET Client SDK Documentation

The KVM Client SDK for .NET is distributed in the form of a zip archive. It contains binary libraries to create KVM applications, documents in different formats and 3 different sets of examples with a total of 5 example applications.

- help
  - Contains the API reference manual and other documentation.
    - API Reference in two formats:
      - Compiled HTML help file.
      - API documentation in HTML format
    - A Getting Started guide provides short overview of the most important functions.
    - Explanations of example applications:
      - A short introduction to the example programs provides overview of the example programs.
      - An introduction to the simple example programs.
      - Some words about the video example programs,
- example
  - Contains an example project demonstrating the use of the SDK.
- simple example
  - Contains two very basic and simple example programs.
- video example
  - Demonstrates how to use the KVM SDK as a video recording solution.
- bin
  - Contains runtime assemblies and libraries implementing KX API including XML documentation.

The SDK documentation is available on the Raritan.com website: [www.raritan.com](http://www.raritan.com). Go to the Support section and select either Dominion KX III or Dominion KX IV-101. Click on the appropriate release. Historical firmware version downloads can be found on [raritan.com/support](http://raritan.com/support).

## Release Package Details

The Client SDK v5.3 Firmware is a General Availability release package and will be posted on the Raritan support website at [raritan.com/support](http://raritan.com/support).

## Firmware Upgrades

Raritan provides new firmware upgrade releases that contain software enhancements, new features, and improvements. These upgrades are available on the Raritan Website: [www.raritan.com](http://www.raritan.com). Please go to the Support page and click on Dominion KX III or Dominion KX IV-101 **in the “Choose a Product”** dropdown, or go directly to:

<https://www.raritan.com/support/product/dominion-kx-iii>  
<https://www.raritan.com/support/product/dominion-kx-iv-101>

Locate the entry for the new firmware release. Release Notes are available with: (a) brief descriptions of new features/enhancements, (b) important operating instructions, and (c) firmware upgrade instructions. All of the Client SDK documentation is included in the zip file on the support page.

## Firmware Upgrade Prerequisites

If you have any questions, or do not meet the pre-requisites listed below, please STOP and contact Raritan Technical Support for further instructions. Please read the entire instructions (this document) before proceeding.

## Support & Compatibility with Client SDK 5.3.0

1. *Java SDK*: Java Programming Language.
2. *Java SDK*: Requires Oracle Java 8.
  - a. Windows/Linux: both 32-bit and 64-bit JRE supported, 64-bit JRE strongly recommended.
  - b. **macOS: on ARM based CPUs (M1...M4), an arm64 JRE is recommended; x64 JRE on Intel CPUs.**
3. *Java SDK*: Windows 7 or newer, Linux or macOS are required to run programs built with the SDK.
4. *Java SDK*: Eclipse IDE is recommended but can be used with any other Java IDE.
5. *Java SDK*:
  - a. Windows/Linux: A CPU with x86 (32 bit) or x64 (64 bit) architecture is required; x64 strongly recommended.
  - b. **macOS: A CPU with x64 (Intel) or arm64 (Apple M1...M4) architecture is required.**
6. *.NET SDK*: Microsoft C# Programming Language.
7. *.NET SDK*: Visual Studio IDE and .NET Framework Library.
8. *.NET SDK*: Requires .NET 4.5 or newer.
9. *.NET SDK*: .NET Core and Mono are not supported.
10. *.NET SDK*: Windows 7 or newer is required to run programs built with the SDK.
11. *.NET SDK*: A CPU with x86 (32 bit) or x64 (64 bit) architecture is required; x64 strongly recommended.
12. Limited documentation; requires expert in Java and/or .NET development.

## Additional Upgrade Information:

Please refer to the Getting Started guide located within the Client SDK package ZIP file for a short overview of the Client SDK features.

If you have any questions, please contact Raritan technical Support.

## Contact Us

Go to [raritan.com/support](https://raritan.com/support) for contact options.