

Paragon II Platform

Release 4.6

June 10, 2009

Document Revision History

Original Document Release:	June 10, 2009
Revisions:	August 6, 2009: Added fix for issue #20691 and re-released the firmware for the P2-EUST/C user station (updated to version 4F2).

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Introduction

Paragon II release 4.6 provides two new integration features that significantly enhance the platform's access and media support capabilities:

- KX II Integration
- Control Interface for the NVISION NV5128

This release also provides maintenance fixes across several platform components, as is reflected in the "Updated Firmware" table below.

Updated Firmware

Version 4.6 of Paragon II provides firmware updates for several of the platform's components. New firmware updates include:

Firmware	Version Number
P2-UMT	3EI
P2-EUST	3F1
P2-EUST/C	4F2
P2-UST	1FF
P2CIM-AUSB	0F2
P2CIM-PWR	0AB
Paragon Manager	2.0.3.5.0
P2-USTIP	1.2.1.5.14 / LUPMA-0A16
P2-SC	1.2.0.5.13

Updated User Documents

The following Paragon II user documents have been updated:

Document	Version Number
Paragon II User Guide	PII-0S-v4.6-E
Paragon II Quick Start Guide	QSG-P2-0K-v4.6-E
Paragon Manager User Guide	PMG-0I-v2.0.3-E

Obtaining Updates

New release 4.6 firmware and documentation can be accessed at Raritan's Paragon II support page: <http://www.raritan.com/support/Paragon-II/>. Please download the compatibility matrix from this same location and review it before proceeding with your installation of release 4.6.

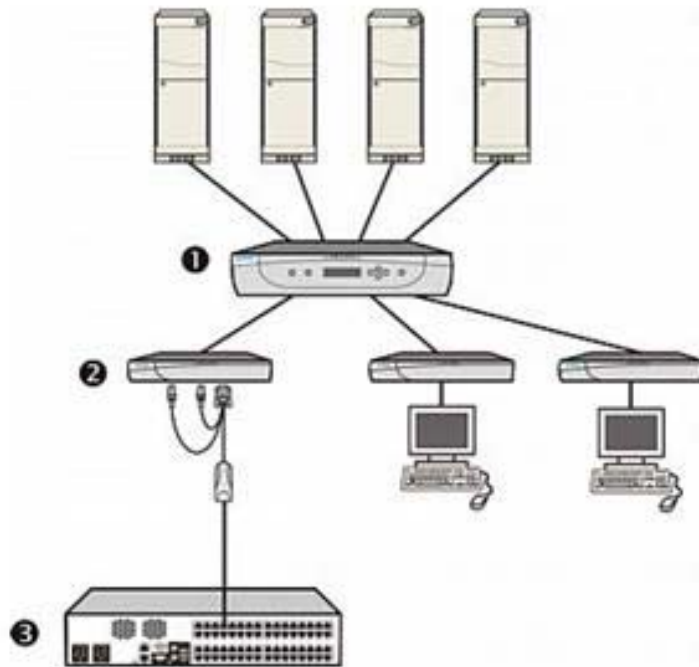
New Features

Version 4.6 delivers the following features and enhancements to the Paragon II platform.

1. Dominion KX II Integration

The KX II switch (including the new 8 user models) is now a supported IP access point for Paragon II. This new feature is especially attractive when a KVM solution calls for both IP and analog access, or when IP access is needed and support for authorization/authentication is required (such as LDAP, AD or RADIUS).*

In this configuration, the KX II is connected to a Paragon II user station's KVM ports by a DCIM. The DCIM-USBG2 and the DCIM-PS2 are supported. The following image depicts this configuration:



- 1) The Paragon II switch
- 2) The Paragon II user station with the DCIM attached
- 3) KX II

The P2-EUST and P2-EUST/C are supported user stations in this configuration. Current customers may also use the P2-UST (note that the P2-UST was discontinued in 2008 and is no longer available for sale). *Note that all user stations and Paragon II switches must be upgraded to release 4.6 in order to use this feature.*

Cabling: When using KX II as the front end to Paragon II, there are some cable distance restrictions that should be observed in order to preserve good video quality:

- The supported distance from KX II to the Paragon II user station is up to 150 cable feet (45 m). Greater distances may result in video degradation.
- The supported distance from the Paragon II user station to the target server is 500 cable feet (152 m).

Supported / Unsupported Features in this Configuration: Some primary features of note that are supported / unsupported include:

- Supported
 - Tiering
 - All current PII CIMs, including dual CIMs
 - BladeCenter access
 - PC Share and Public View modes
 - P2-HUBPAC
- Not Supported
 - Virtual Media (a KX II feature)
 - Smart Cards

When first accessing Paragon II through KX II, do not attempt to synchronize the mouse manually. A mouse is not needed when selecting targets in the Paragon II menu and mouse synchronization will delay the keyboard response for several seconds.

You can also connect Paragon II to a KX II device that is managed by Raritan's **CommandCenter Secure Gateway (CC-SG)**, allowing access to Paragon II from the CC-SG client. For complete compatibility when using CC-SG, it is recommended that the KX II device connected to Paragon II is running version 2.1 or later. Note that in this configuration, if Raritan's P2-SC is not used, Paragon II will simply be seen as a node connected to KX II and the Paragon II on screen interface will be accessed.

*The P2-USTIP is also available as an IP access point, but does not support authentication. The KX II fills this void. The advantage of P2-USTIP is that it provides access to servers through an HTML client. When using the KX II for IP access, the Paragon II switch is seen as a KX II target, and the Paragon II on-screen display is presented.

2. Audio/Video Router Interface

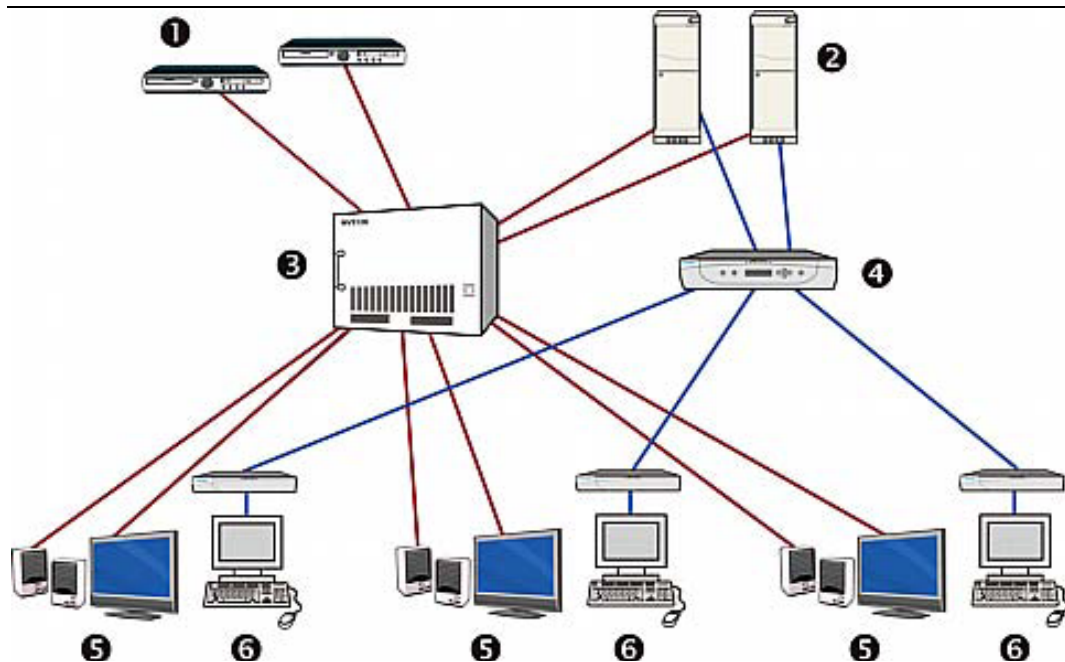
Paragon II release 4.6 includes a control interface for the NVISION® NV5128 audio/video router. NVISION's NV5128 is a router commonly used in the broadcast and video production industries and enables users to switch between a large variety of industry devices with multiple audio and video formats. Only the model NV5128 is supported for use in this configuration.

This feature not only delivers audio to Paragon II users, but also allows them to switch digital video to their workstation. *The control interface is built*

into *Paragon Manager*, the free management application available as an option for Paragon II administration.

When this feature is configured and activated, Paragon Manager continuously monitors usage of the Paragon II switch, and, through the NV5128, switches audio and/or digital video accordingly.

The following image displays a typical configuration at a high level:



- 1) Audio/video output devices, such as video editing stations
- 2) Audio/video output devices, such as servers
- 3) NV5128 router
- 4) Paragon II switch
- 5) Audio/video input devices, such as speakers and DVI monitors
- 6) Paragon II user stations with a keyboard, mouse and monitor attached

It's important to note that when using this feature, for each NVISION router, a **maximum Paragon II configuration of 16 users and 128 targets** is supported. Also note that the solution may only consist of a single tier with a single Paragon II base switch and, optionally, a stacking switch.

Instructions on configuring this feature are found in the newly updated *Paragon Manager User Guide* and the *Paragon II User Guide*. Paragon Manager includes a new menu for correlating NVISION and Paragon II inputs & outputs.

Support: Note that Raritan does not resell or support the NVISION switch. Raritan Tech Support will address questions and provide assistance with configuring this feature in Paragon Manager. Questions about deploying and using an NV5128 router should be referred to NVISION.

Note: NVISION was acquired by Miranda Technologies in 2008. However the product name has not changed. Information on the NVISION line of routers can be found at www.miranda.com.

Special Notes (General)

1. The UKVMSPD, which is a Paragon I Z-CIM, is not compatible with Paragon II as of release 4.4.1. Customers that wish to continue using the UKVMSPD in its Z-CIM capacity should not upgrade to 4.4.1 or future Paragon II releases. Additionally, please be aware of the following:
 - If a UKVMSPD user has upgraded their Paragon II components to 4.4.1, they should roll back to 4.4. Prior releases are provided along with the current one at <http://www.raritan.com/support/Paragon-II/>.
 - If a UKVMSPD user desires to upgrade to 4.4.1 and requires the use of Z-CIMs, they will need to replace them. The direct replacement for the UKVMSPD is the P2ZCIM-PS2. For USB connections, the P2ZCIM-USB is also available. Note that replacements for the UKVMSPD will be provided under warranty only if the customer is required to upgrade to 4.4.1 in order to fix a serious system issue.
 - The UKVMSPD can continue to be used for its “local PC” access feature, in which the CIM is connected to the I/O ports of a PC located near the Paragon user station, thereby enabling access from the user station to both the PC and the Paragon switch.
 - The Paragon II Z-CIMs (P2ZCIM-PS2 and P2ZCIM-USB) do not support the local PC feature.
2. Using Combo Keyboards: Many keyboards sold today have USB ports built into them, allowing for the use of a variety of peripherals. In many cases, users have begun to utilize these USB ports for the purpose of connecting a mouse. It's important to note that the Paragon II user station's USB ports may only be used for connecting one keyboard and one mouse. If a mouse is connected to the keyboard, the second USB port on the user station automatically deactivates. In other words, if the keyboard and mouse is connected through one USB port, the user station has reached its keyboard/mouse limit and cannot accept another I/O device in the open port. Please see the updated user guide for details on using this type of keyboard/mouse configuration.

Issues Fixed or Closed in This Release

(Note – ID numbers in this section are reference numbers internal to Raritan.)

ID #	Description
4709/4711/8276	USTIP / IBM P5 issue
9204	Mouse jumping
13368	Database Refreshing Message Has Wrong Syntax
15293	Blackout screen and System freeze
16558	over 35 Power Associations not possible
17644	SNMP issue on USTIP
17830	Authentication certificate
18031	Definition of “Switch Busy” documented
18359	UST-IP FW 1.2.1 header
19202	NFR: USTIP supports to turn on/off channels of PCS16 and PCS24
19272	Paragon Mgr - v 2.02 does not work well on Win XP, Vista or Win2008 Server
19496	T1700 / USTIP issue
20691	Addressed support for Dept. of Defense CAC card type 2048.

Issues Deferred to a Future Update

ID #	Description
7014	Resizing ZCIM chain
11306	Partial view of OSUI
19573	Paragon Manager freezing
19605	Issue with 6 users in PCShare mode
19634	Issue reported regarding connection between P2SC and UMT
19698	Remote channel access failure