



IPGard Secure KVM EDID Configuration Guide

DESIGNED AND MADE IN USA

Release Date: January 24th, 2017

Document ID: DOC-IPG-2012

Version: 2.0

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1. Overview

The Secure KVM EDID Configuration Guide designed by IPGard outlines how Authenticated Administrators can learn and configure EDID of particular display in order to support all of your displays' features.

Factory default video EDID is set to HP (1080P max resolution) to allow initial operation with most of the DP display brands. For security reasons, EDID learn of most DP displays' brands can be achieved only by Authenticated Administrator.

This guide is applicable for the following Secure KVM models:

Model	Description
SDPN-2S	2-Port Single-head Secure DP KVM Switch with KB/Mouse USB emulation
SDPN-2S-P	2-Port Single-head Secure Pro DP KVM Switch with KB/Mouse USB emulation and CAC
SDPN-2D	2-Port Dual-head Secure DP KVM Switch with KB/Mouse USB emulation
SDPN-2D-P	2-Port Dual-head Secure Pro DP KVM Switch with KB/Mouse USB emulation and CAC
SDPN-4S	4-Port Single-head Secure DP KVM Switch with KB/Mouse USB emulation
SDPN-4S-P	4-Port Single-head Secure Pro DP KVM Switch with KB/Mouse USB emulation and CAC
SDPN-4D	4-Port Dual-head Secure DP KVM Switch with KB/Mouse USB emulation
SDPN-4D-P	4-Port Dual-head Secure Pro DP KVM Switch with KB/Mouse USB emulation and CAC
SDPN-4Q-P	4-Port Quad-head Secure Pro DP KVM Switch with KB/Mouse USB emulation and CAC

Table 1: Applicable Models

Note: All models support DP video input and DP video output.

2. Intended Audience

The information in this document is for authorized system administrators.

3. System Requirements

1. IPGARD Secure PSS is compatible with standard personal/portable computers, servers, or thin-clients running operating systems such as Windows or Linux. The Administration and Security Management Tool can only run on Windows operating systems (XP, Win 7, Win 8, and Win 10 with framework .NET 2.0 or newer).
2. The peripheral devices that are supported by the KVM TOE are listed in the following table:

Console Port	Authorized Devices
Keyboard	Wired keyboard and keypad without internal USB hub or composite device functions, unless the connected device has at least one endpoint which is a keyboard or mouse HID class, KVM/KM extender;
Display	Display, Projector, Video or KVM extender.
Audio out	Analog amplified speakers, Analog headphones, Digital audio appliances.
Mouse / Pointing Device	Any wired mouse or trackball without internal USB hub or composite device functions, Touch-screen, Multi-touch or digitizer, KVM extender.
User Authentication Device	Smart-card reader, PIV/CAC reader, Token or Biometric reader*

Table 2: Supported Peripheral Devices

*TOE -P models only

4. System Setup

Note: Only one computer connected to KVM port 1 is required for any activity in this guide.

1. Ensure that the KVM's power is turned off or disconnected from both the unit and the computer.
2. Using a USB cable (Type-A to Type-B), connect the PC to the KVM host's K/M port one.
3. Connect a USB keyboard and mouse to the two USB console ports.
4. Connect a DP video cable between the PC and the KVM video 1 port.

5. KVM – Connect a DP display to the KVM console video output connector.
6. Power up the PC and the KVM
7. Download the Administration and Security Management Tool from the following link to your PC - <http://ipgard.com/tools-software/>
8. Run the Administration and Security Management Tool executable file. See Figure 1 below for a screenshot of the tool you should be seeing on your screen.

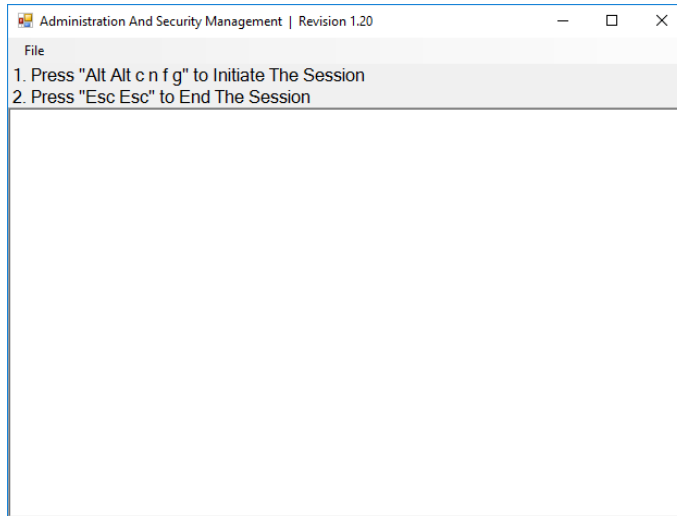


Figure 1: Administration and Security Management Tool

5. Initiate Session

1. Using the keyboard, press “Alt Alt cnfg”
2. At this stage the mouse connected to the KVM will stop functioning.
3. Figure 2 below is a screenshot of the tool you should be seeing on your screen.

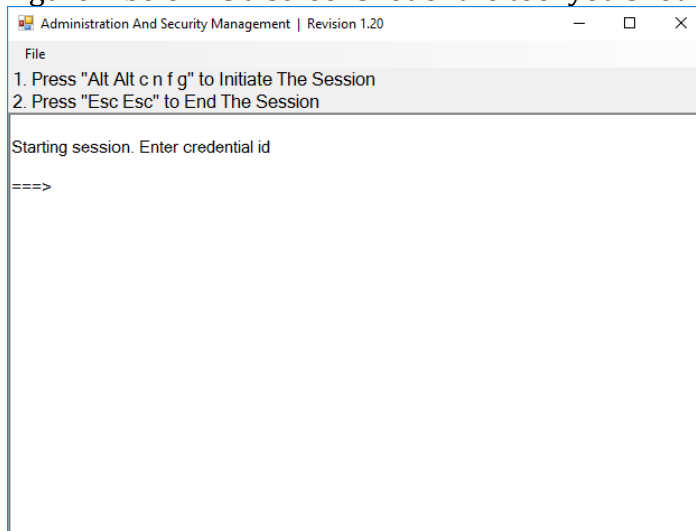


Figure 2: Initiate Session Capture

6. Administrator Functions

Administrator - Log-in

1. Enter the default username “admin” and press Enter.
2. Enter the default password “12345” and press Enter.
3. Figure 3 below is a screenshot of the tool you should be seeing on your screen.

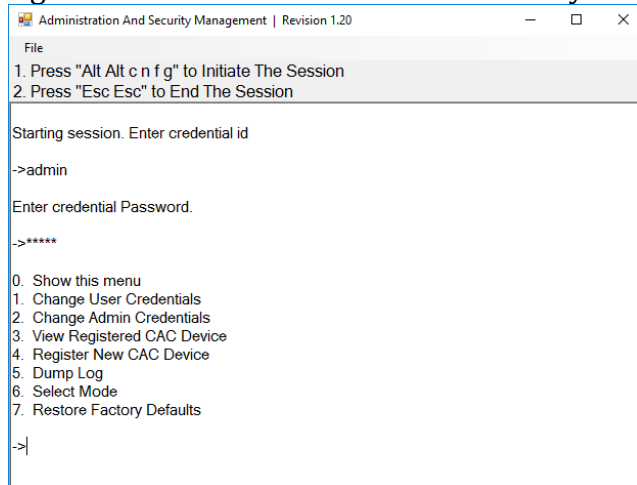


Figure 3: Administrator Log-in

Administrator - Select Mode (KVM/KM) Option #6

1. Select option 6 from the menu on your screen and press enter.
2. The following menu will be presented (see Figure 4 below):

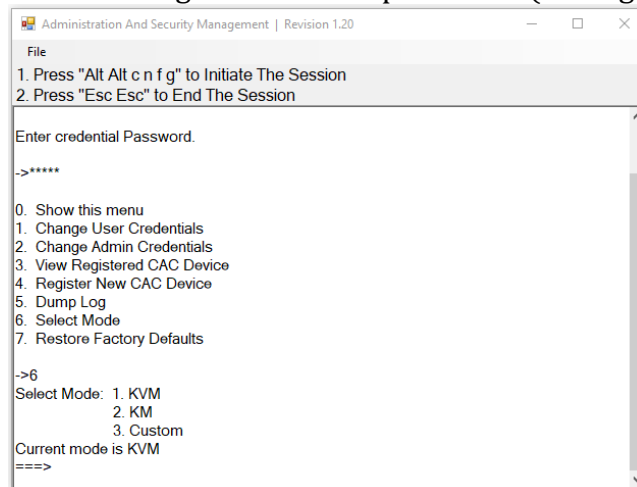


Figure 4: Admin Select Mode

3. Type “local” for reading and learning the connected display’s EDID.
4. Press the Enter key on your keyboard. The learned EDID will be stored and the device will be reset.

5. At the end of the boot-up, ensure that all computers are connected to the KVM and switch through each port to verify that all are properly presenting video on the connected display.

7. Troubleshooting

No Video after Setting Local EDID

If there is no video output after performing the above, please follow the following steps:

1. Disconnect the display from the KVM Console Video port and connect it directly to your PC.
2. Run the Administration and Security Management Tool per instruction above.
3. Access the Administration and Security Management Tool per instruction above.
4. Select option 6 from the menu on your screen and press enter.
5. The following menu will be presented (see Figure 5 below):

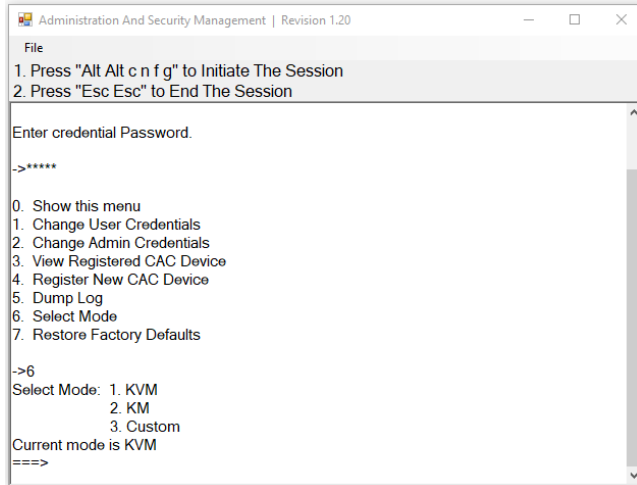


Figure 5: Admin Select Mode

6. Type:
 - a) "dell" if the display brand you are trying to work with is DELL brand.
 - b) "samsung" if the display brand you are trying to work with is Samsung Brand.
 - c) "lg" if the display brand you are trying to work with is LG Brand.
 - d) "hp" if the display brand you are trying to work with is HP Brand.
7. Press the Enter key on your keyboard. The learned EDID will be stored and the device will be reset.
8. At the end of the boot-up, ensure that all computers are connected to the KVM, connect your display back to the KVM Console Video Port and verify that all ports are presenting video on the connected display by switching ports.

No Video after Switching Display

If there is no video output after switching your display with a different display brand, repeat steps under section 7 - No Video after Setting Local EDID.

Contact IPGARD support line if any additional video issues inspected.