Secure Multi-Domain Smart Card Reader

Models:

RS20N-4 – Secure 2-Port Multi-Domain Smart Card Reader
RS40N-4 – Secure 4-Port Multi-Domain Smart Card Reader

Intended Audience

This document is targeted at the following professionals:

- System Administrators.
- IT Managers with adequate knowledge of PKI architecture.

Objectives

This document describes the fundamental configuration procedures that are required to install the HSL Multi-Domain Smart Card Reader.

Prerequisites

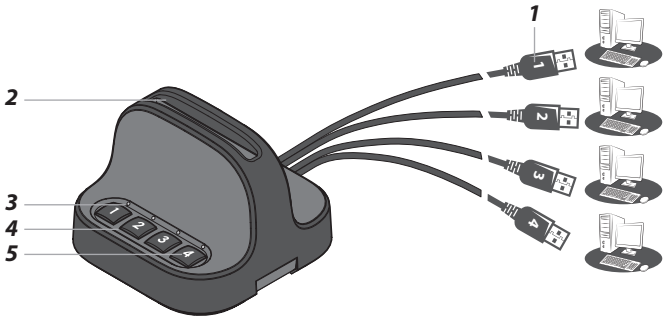
- Obtain and install the applications, drivers and files of the cryptographic software (CSP) which corresponds to your selected smart card vendor.
- Obtain a smartcard from your selected smart card vendor.
- Verify that your smart card setup works correctly each PC using a standard smart card reader prior to connecting the MDR.

Note: Prior to deploying the devices, confirm that after the MDR is connected to at least two PCs and to the smart card reader, select each connected computer on the MDR device and verify that the smart card reader is visible in Windows Device Manager under Smart Card Readers only on the selected computer. The smart card reader should not be visible in Windows Device Manager under Smart Card Readers on non-selected computers. If the smart card reader is visible in Windows Device Manager under Smart Card Readers on non-selected computers, you are instructed to contact the Technical Support team at High Sec Labs.

Hardware Terms

The following terms are used to describe hardware elements in this document:

1. Numbered USB Cables: USB Cables with numbered connectors.
2. Card Reader Slot
3. PC Association Led
4. PC Number Button
5. PC Number Led



Initial MDR Configuration Steps

Table 1 - Describes the initial MDR configuration steps

#	Action	Action Description	Expected Behavior
1	Install Smart Card Applications	Verify that the applications, drivers and files of the cryptographic software (CSP) that corresponds to your selected smart card vendor are installed on all the computers that you plan to connect to the MDR. **Note:** Perform a computer restart in case needed to complete the smart card application installation	
2	Turn PC ON	Make sure that all the PCs are turned ON.	
3	Test Smart Card using a Standard Reader	Verify that your smart card setup works correctly on each PC using a standard smart card reader prior to connecting the MDR.	
4	Connect MDR to Power	Connect the MDR to Power	
5	Connect USB Cables to PCs	Connect the MDR USB cables to the computers. Cable numbers correspond to the numbered MDR buttons.	All PC Number LED lights blink constantly
6	Insert Smart Card into the MDR	Insert your smart card into the MDR reader socket. **Note:** Make sure the smart card chip is facing towards you.	1 second beep sound. All lights are blinking.
7	Initial Association with PC #1	Press PC Number Button#1 to initialize the MDR on PC#1.	PC Number Button#1 light blinks for 5 seconds and when the association is made, the light is ON constantly. The MDR appears as a smart card reader under PC#1 device manager.
8	Initial Association with PC #2	Press PC Number Button#2 to initialize the MDR on PC#2. Notes: Repeat the process for the remaining connected PCs.	PC Number Button#1 light turns OFF. PC Number Button#2 blinking 5 seconds and then light turns ON constantly. Looking at the device manager of PC #1 card will disappear and will appear under device manager of PC #2.

Working with the MDR

Once completing the initial MDR configuration steps the MDR is ready for use allowing usage of a single smartcard with multiple PCs.

Each time the user needs to associate the Smart-Card with another PC, he would press the MDRs appropriate PC channel button. Once the user presses another channel, the previous is disconnected.

Smartcard Removal Behavjor

Removing the smartcard from the MDR immediately de-associates the MDR\Card from all coupled PCs. As a result, smartcard-aware applications will notice the smartcard absence and respond accordingly.

For example, a Windows PC that is configured to require smartcards for user logon may be set to lock the user's desktop once the smartcard is removed.

Re-assocjatjng the MDR after Smartcard Removal

In order to continue using the smartcard (after it's been removed from the MDR), the user has to insert the smartcard into the MDR and complete steps 6-8 in order to re-associated the MDR with all the corresponding PCs.

Power Requjrements

External, wall-mounted power supply 12VDC, 5W maximum

Safety and Regulatory Statements

Safety Symbols

This one or more of the following symbols may be included in your product documentation and/or on the product.

Instructions: This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the product user manual.

Dangerous Voltage: This symbol is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

Power On: This symbol indicates the principal on/off switch is in the ON position.

Power Off: This symbol indicates the principal on/off switch is in the OFF position.

Protective Grounding Terminal: This symbol indicates a terminal which must be connected to earth ground prior to making any other connections to the equipment.

Safety Precautions

WARNING: To avoid a potentially fatal shock hazard and possible damage to equipment, please observe the following precautions.

- Instructions: Do not disable the power grounding plug. The grounding plug is an important safety feature.
- Plug the power cord into a grounded (earthed) outlet that is easily accessible at all times.
- Disconnect the power from the product by unplugging the power cord from either the electrical outlet or the product. The AC inlet is the main disconnect for removing power to this product. For products that have more than one AC inlet, to remove power completely, all AC line cords must be disconnected.
- This product has no serviceable parts inside the product enclosure. Do not open or remove product cover.

CAUTION: Some HSL products contain a lithium battery. This battery is n ot a field replaceable item, and replacement should not be attempted by a user. If errors occur when using the product and the battery is suspected, contact HSL Technical Support.

WARNING: For Service Personnel Only - There is a risk of explosion if the battery is replaced with an incorrect type. Dispose of used batteries according to the manufacturer's instructions.

This product is for use with other products that are Listed or Certified by a Nationally Recognized Testing Laboratory (NRTL).

NIAP Protection Profile

This product is certified to the NIAP Protection Profile PSD version 4.0 certification for peripheral sharing switch devices.

Installation Precautions

Note: HSL Secure MDR devices are protected with Holographic Tamper-Evident Labels on the product's enclosure to provide a visual indication in case the enclosure has been opened or compromised.

Do not connect this product to computing devices that:

- are TEMPEST computers
- include telecommunication equipment
- include frame grabber video cards
- include special audio processing cards.

WARNING: Peripherals' Warning - For security reasons, this product does not support wireless keyboards. It is recommended not to connect a microphone or headset to the audio output port.

Security Vulnerability

If you are aware of a potential security vulnerability while installing this product, contact Technical Support immediately by:

- Web form: www.highseclabs.com/support/case/
- Email: security@highseclabs.com
- Tel: +972-4-9591191/2

WARNING: Unit Enclosure Warning - of the unit's enclosure appears disrupted or if all LEDs flash continuously, remove the product from service immediately and contact Technical Support.

Change Management

For change management tracking, perform a quarterly log check to verify that the RFD was not improperly used to override the current device policy by an unauthorized person.