Documentation

Installation & Configuration

signotec Virtual Channel Driver Linux

Version: 8.1.0
Date: 18.10.2023

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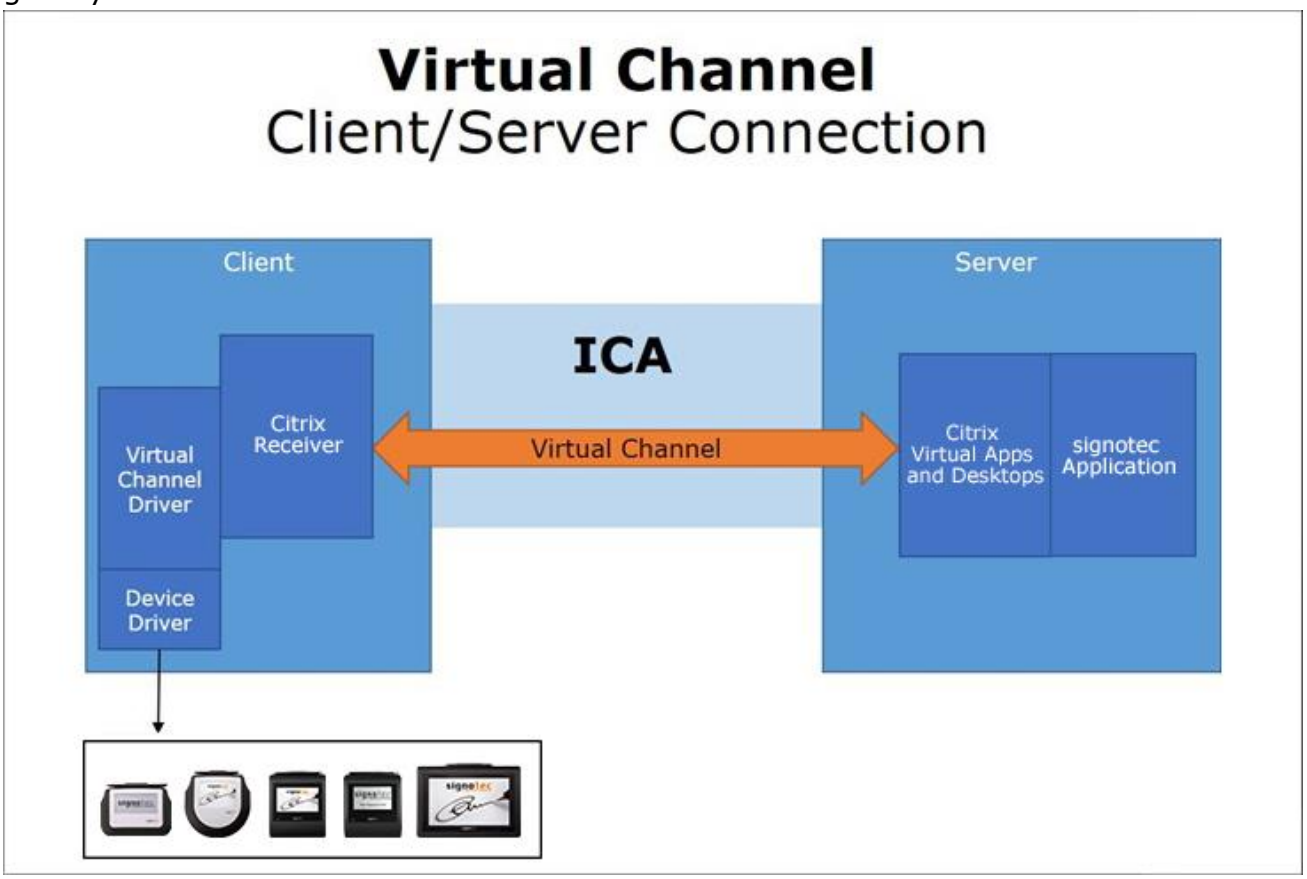
Document history

Version	Date	Agent	State / Remark
1.0.0	21.11.18	Andreas Brockmöller	Documentation created
8.0.11	05.12.22	Paul Grütter	Changes in chapters "Product description" and „Requirements"
8.1.0	18.10.23	Paul Grütter	Changes in chapter „Requirements"

1. Product description

The Virtual Channel technology offers a fast, easy and stable way to provide locally attached signotec signature pads (USB or FTDI) to a Citrix ICA remote session. The use of the classical COM-Port redirection is not needed any more.

The signotec Virtual Channel Driver creates a communication channel between client and server, through which the data traffic between software solution and signotec signature pad is passed. This exclusive connection speeds up the data transfer and reduces the latency. Through data compression the network traffic can also be reduced greatly.



2. Requirements

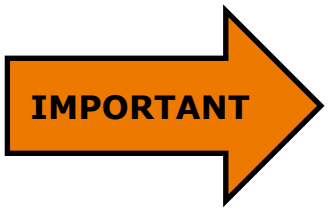
The installation of the signotec Virtual Channel Driver requires root privileges.

The driver is supported for operating systems in 64-Bit only.

The requirements for using the Virtual Channel Driver are at least XenApp 6.5 or XenDesktop 5 on the server side and Citrix Workspace App 1908 or later and a Linux with Kernel 5.4 or later on the client side.

All signotec signature signature in USB and FTDI variant are supported. Pen Displays are not supported.

For the use of USB signature pads, at least the libUSB1.0-16 is required. Relevant permissions can be set through uDev rules.



Up to two Virtual Channels can be created per client and used within a Citrix ICA terminal session.
Microsoft RDP sessions are not supported.

3. Installation

The installation of signotec Virtual Channel driver should be processed with root permissions.

To install the signotec Virtual Channel driver, unpack the driver component stvcpad.so into the installation directory of Citrix Receiver and set the proper permissions in order to be able to execute. If there is a need for a second signotec Virtual Channel, repeat the procedure with the stvcpad2.so.

4. Configuration

In order to use the signotec Virtual Channel, the Citrix Receiver configuration has to be adjusted. This can be done within the module.ini which can be found in the "config" subdirectory of Citrix Receiver.
Example: */opt/Citrix/ICAClient/config/module.ini*

Under section **[ICA 3.0]** all Virtual Channels can be found.

A new entry for the signotec Virtual Channel has to be added here as follows:
VirtualDriver=(...), STVCPAD

Once the Virtual Channel STVCPAD has been added, it needs to be activated:
STVCPAD=On

Once the Virtual Channel has been added and activated, it needs to be configured.

To do so, a new section for STVCPAD has to be added, which points to the driver component "stvcpad.so". Please note that the driver component stvcpad.so has to be located within the Citrix Receivers installation directory with the proper execute permissions set.

[STVCPAD]
DriverName=stvcpad.so
LogLevel=0

Valid values for the LogLevel are:
0 => no logging
1 => basic logging
2 => standard logging
3 => extended logging

The logfile will be created in /var/log/.

After the configuration has been finished, please restart the system in order for the changes to take effect.

Within a Citrix ICA terminal session any supported and connected signotec signature pad (USB or FTDI) on the client side can be accessed and used.

The search for signotec signature pads provided to the terminal session through the signotec Virtual Channel Driver has to be made on COM-Ports / serial devices, as the signotec Virtual Channel will always be shown on COM-Port 1 (COM1) within a Citrix ICA terminal session. Please note that even though the signature pad may be in USB mode on the client side, it will only be found on a serial Port in the terminal environment.

If the custom installation type is chosen in order to make a second Virtual Channel available to the Citrix ICA terminal session, please note that the second Virtual Channel will show on COM-Port 2 (COM2).

4.1. Citrix generic USB redirection

If the signotec Virtual Channel driver is used in parallel to Citrix generic USB redirection, a policy for denying the signotec signature pads has to be configured. The easiest way to achieve this is by configuring the policy by VendorID.

Example for denying USB redirection for all signotec signature pads:

DENY: vid=2133 # signotec signature pads

Further information on adding and configuring USB policies can be found within the Citrix documentation.