Weidmüller ✕

Managed Switches Value Line

Firmware 3.6.28 or higher (5-port models)
Firmware 3.5.32 or higher (8-port models)

IE-SW-VL05M-5TX & IE-SW-VL05MT-5TX

IE-SW-VL08MT-6TX-2SC & IE-SW-VL08MT-6TX-2SCS

IE-SW-VL08MT-6TX-2ST

IE-SW-VL08MT-8TX

IE-SW-VL08MT-5TX-1SC-2SCS

Managed Switches Value Line

This Security Data Sheet provides you with a condensed overview of the security functions of the devices. It is an addition to the product specific
- Hardware Installation Guide
- User manual

Security intended use:
The device is intended for the realization of communication networks within an industrial environment, It is intended to be used in a restricted access location (e.g. locked cabinet) with no direct internet connection.

In order to protect equipment, systems, machines and networks against cyber threats, it is necessary to implement (and maintain) a complete state-of-the-art industrial security concept. The customer is responsible for preventing unauthorized access to his equipment, systems, machines and networks. Systems, machines and components should only be connected to the corporate network or the Internet if necessary and appropriate safeguards (such as firewalls and network segmentation) have been taken.

Lite Managed Switches Advanced Line

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General information

Weidmüller PSIRT (Product Security Response Team)

Comment	Link
Weidmueller has established a PSIRT and provides information on product-specific security vulnerabilities and their elimination on the Weidmüller website "Security Advisory Board"	https://support.weidmueller.com/support-center/popular-resources/security-advisory-board
Weidmueller publishes security vulnerabilities of its products at VDE @CERT.	https://cert.vde.com/en/

Additional Security Documents

Comment	Reference
Weidmüller Security Guideline (in preparation)	„Industrial Product Security Guideline" at https://support.weidmueller.com/support-center

Weidmüller security activities

Weidmüller will implement a certified Secure Product Development Process according to IEC62443-4-1.

Weidmüller will offer "Secure by Design" products in accordance with IEC62443-4-2. If required, please contact our sales staff

How to find product information

Device type	**Physical/optic:** Type plate on device, Label on packaging **Web interface:**„Model" on the top part of any web page **Command Line Interface**: „Basic Settings" -> „Switch Name", Note 1 **SNMP**: „sysNamer" (mib-2.system), Note 1 **Fieldbus:** „Product Name" via Modbus/TCP, Note 1 Note 1: changeable by customer
Software version	**Physical/optic:** no **Web interface:**„Firmware Version"on the top part of any web page **Command Line Interface**: „show system-info" -> „Software Version" **SNMP**: „firmwareVersion" (private mib) **Fieldbus:** „Firmware Version" via Modbus/TCP
Hardware version	**Physical/optic:** Type plate on device, Label on packaging
MAC address	**Physical/optic:** Type plate on device **Web interface**: „MAC Address"on the top part of any web page **Command Line Interface**: „Basic Settings" -> „MAC address"
Serial number	**Physical/optic:** Type plate on device, Label on packaging **Web interface:**„Serial NO"on the top part of any web page

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Technical information

Interfaces

Type	No	Default	Can be changed	Comment
Ethernet	Device type dependent	Active	Yes	Disable unused ports
Console	1	Active	No	Command-Line interface using serial interface
External Backup & Restore module	1	Active	Yes	User can select if the switch configuration is automatically uploaded in the module or not when the switch boots up

Network access functions

Function	Default	Can be changed	Comment
Port usage	Active	Yes	Disable unused ports
VLAN segmentation	Disabled	Yes	Isolate different users in the network thanks to VLAN segmentation

Component access functions

Function	Default	Can be changed	Comment
Login & Password	Active	Yes	Default credentials: Login: admin, Password: Detmold Strongly recommended to change to a strong and individual password!
Web via HTTPS	Active	No	Secure web access. Recommended for web access.
Web via HTTP	Active	Yes	Not secure web access. Not recommended, disable function
CLI via Console	Active	No	Secure console input via Command Line Interface (CLI)
CLI via Ethernet port using TELNET	Active	Yes	Not secure CLI access
SNMP (V1,V2c, V3)	Active	Yes	Recommended SNMP V3 if required because SNMP V1/V2c is not secure
Specific IP addresses	Disabled	Yes	Specify the IP address (or IP address range) that can access to the management of the switch
Modbus/TCP	Active	Yes	Get switch information via unsecure Modbus/TCP. Recommended to disable if Modbus/TCP is not used to get information of the switch
Profinet	Active	Yes	Get switch information via unsecure Profinet. Recommended to disable if the switch is not used as a Profinet device
Ethernet/IP	Disabled	Yes	Get switch information via unsecure Ethernet/IP
Management VLAN ID	VLAN ID: 1	Yes	Program a specific VLAN ID to access to the management of the switch. It will only be possible to manage the switch using ports where this specific VLAN ID is accepted

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Software and Data

Function	Default	Can be changed	Comment
Backup & Restore	On demand		The configuration of the switch can be stored in a file; similarly, a configuration file can be uploaded on a swiitch.
Firmware update	On demand		From the management of the switch the user can easily upgrade its firmware (FW) whenever any new version is available. Latest FW version of every product will always be available at Weidmüller's online catalogue.
Logging	Active	No	The switch will always store the main events in a log. This log can be displayed and downloaded from the Management System and can also be sent to a Syslog server..
Syslog	Disabled	Yes	Send logging information to an external Syslog server

Services and Ports

Function	Port	Protocol	Status	Comment
HTTP	80	TCP	Opened	Web access unsecure
HTTPS	443	TCP	Opened	Web access secure
TELNET	23	TCP	Opened	CLI access
FTP	21	TCP&UDP	Opened	Firmware update
SNMP	161	UDP	Opened	Simple Network Management Protocol
DHCP	67	UDP	Opened	Dynamic Host Configuration Protocol
Modbus/TCP	502	TCP&UDP	Opened	Access to Modbus registers
Profinet	1024	UDP	Opened	Profinet Conformance Class B
Ethernet/IP	44818	TCP	Opened	EtherNet/IP controler compatible
NTP Client	Random port above 1024	UDP	Closed	Time synchronization. Opened only when NTP client enabled

Additional Support Center information

Headline	Comment	Reference
General	Further product-specific information and help can be found in the Weidmüller Support Center. Use the product type (e.g. IE-SW-VL08MT-8TX) in the search field.	https://support.weidmueller.com/support-center/