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YC/T 580-2019

Technical specification for network security baseline of industrial control system in tobacco industry

烟草行业工业控制系统网络安全基线技术规范

(English Translation)

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

Please note that certain contents of this document may involve patents. Publication of this document the agency is not responsible for identifying these patents.

This standard was proposed by the State Tobacco Monopoly Administration.

This standard is under the jurisdiction of the National Tobacco Standardization Technical Committee Information Subcommittee (SAC/TC144/SC7).

Drafting organizations of this standard. Longyan Tobacco Industry Co., Ltd., National Tobacco Monopoly Administration Tobacco Economic Information Center, Fujian China Tobacco Industry Co., Ltd., Sichuan China Tobacco Industry Co., Ltd., Chongqing China Tobacco Industry Co., Ltd., Zhejiang China Tobacco Industry Co., Ltd., Shanghai Tobacco Group Co., Ltd., Hunan Provincial Tobacco Monopoly Bureau (Company), Beijing Venus Star Information Security Technology Co., Ltd.

1 Scope

This standard specifies the classification of typical industrial control systems in the tobacco industry, as well as system grading, security domain division and protection requirements.

This standard applies to the construction and management of the industrial control system network security protection system of all units in the tobacco industry.

2 Normative references

The following documents are indispensable for the application of this document. For dated reference documents, only the dated version applies to this document.

For undated references, the latest version (including all amendments) applies to this document.

YC/T 494-2014 Tobacco industry enterprise production network and management network

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interconnection security specification

3 Terms and definitions

The following terms and definitions apply to this document.

Industrial Control System A system for automatic control of equipment and facilities in the processing and manufacturing of tobacco products, logistics, storage and sorting, and power and energy supply.

Note: Industrial control system (hereinafter referred to as "industrial control system") is usually composed of industrial control software, engineer station, operator station, man-machine interface, configuration software, Control server, control equipment (controller), etc.

Industrial Control Network the basic network that supports the operation of the industrial control system.

Note: The industrial control network generally consists of wired or wireless networks running at the process monitoring layer, field control layer and field device layer.

controlling device

A device used to control actuators and collect sensor data during industrial production.

Note: Control equipment includes data acquisition and monitoring (SCADA), distributed control system (DCS), programmable logic controller (PLC) and other field control equipment.

Process monitoring layer it is used to configure, monitor and manage the industrial control system, and realize the software and hardware collection of advanced control, fault diagnosis and quality evaluation in the production process.

Note: The process monitoring layer mainly includes the monitoring server and the human-machine interface (HMI) system functional units.

Field control layer

A collection of devices used to control each execution device.

Note: The field control layer mainly includes various controller units, such as PLC and DCS control units.

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