TECH SPEAKS - BRIEF

NDAA is a set of US Federal laws that prohibits certain telecommunication devices and video surveillance software and equipment including the SOCs and chipsets thus limiting what can and can't be installed at Government / military and critical installations.

Wavesys Global

Introduction

***Wavesys IP Cameras and Wavesys WVMS Software** <u>don't</u>* support connecting devices via the Chinese standard GB/T28181. This standard is based on SIP over UDP (and over TCP since GB/T28181-2016). The GB/T28181 uses the following protocols over SIP:

- SDP (Session Description Protocol)
- MANSCDP (Monitoring and Alarming Network System Control Description Protocol)
- MANSRTSP (Monitoring and Alarming Network System Real Time Streaming Protocol)

This allows receiving the status of sensors, events from detectors, PTZ and relays control, access the built-in archive of the IP device, etc. within the SIP session. Single-channel and multi-channel devices in single-stream mode and working with the UDP and TCP transport protocols is also supported.

The Chinese Story

With rising domestic security concerns such as terrorist attacks and violent incidents, the Chinese central government has started to promote SVAC with the intention to strengthen national security and fight terrorism. The government has adopted a series of initiatives to promote SVAC, including building an SVAC industry alliance, designating Guangdong as the demonstration province for SVAC roll-out, naming SVAC standard as the preferred standard in the national standard GB/T28181, and supervising the implementation of SVAC by the Ministry of Public Security and other ministries. All manufacturer of Semiconductor Chips in Chinese mainland or a part of Chinese republic has to compulsory make products with an open port which can be used by Chinese government remotely. GB/T standards are like ONVIF which allows any camera to be accessed from any compatible GB/T standard Video Management Software.

- GB/T 28181: Supports access to the VMS platform and decoder.

- GB/T 28181: Connecting a Third-Party Camera Protocol is SIP based.

In practice, the main application appears to be connecting cameras (using SIP) to different Chinese government systems.

Wavesys Statement on GB/ SVAC Protocols

GB/SVAC Standard is applicable to the scheme design, system testing, acceptance of security and protection video monitoring network s and urban monitor and control alarming network system and related equipment R&D and manufacture.

Today in a lot of countries clients are specifically mentioning "Non-compliance to GB/T 28181 " protocol as mandatory in the technical specifications of the cameras. This is the same protocol which some manufacturers allegedly use to access their cameras across the globe and the same has been made compulsory by China govt for every OEM to incorporate in their firmware, thereby gaining access to any online device globally.

At Wavesys Global, we believe in true integration by integrating our Video management Software at SDK level with more than 5500 camera models of all leading camera manufacturers. We additionally are integrated with ONVIF.

However we are not integrated at GB protocol level nor follow SVAC standards. Beside limiting GB protocol at Camera level and its firmware, it is equally important that Video Management Software is also not integrated with GB protocol or with SVAC standards. At Wavesys Global both our cameras and software don't follow these standards.

Additionally, our cameras use Ambarella and / or Qualcomm chips thus we don't fall under the purview of Chinese government tic-tac on their open standards which is perceived by many other countries as an attempt to compromise on their security.

In picture below is the snapshot of Wavesys WVMS, you can see the Generic compliances we support and it does not include GB/T28181 generic integration.