



# Service Bulletin 160050

## 3xLOGIC – Assessment and Response – Mirai Malware IoT Device Botnet

Service Bulletin #:	160050-1
Date:	October 27 <sup>th</sup> , 2016
Products Affected:	3xLOGIC Cameras and Video Management Systems (Recording Appliances).
Purpose:	This document contains 3xLOGIC’s official assessment and response to the Mirai Malware Internet of Things Device Botnet.
*Importance:	Low

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### 1 Assessment

Mirai malware continuously scans the internet for (IoT) devices and infects them by using a table of common factory default usernames and passwords to gain access to the devices. These infected devices can then be remotely controlled as “bots” and can be coordinated together as part of a “botnet” to launch large-scale network attacks.

### 2 Response

As the vast majority of 3xLOGIC cameras currently in deployment utilize 3xLOGIC’s proprietary VIGIL Connect™ communication protocol, these cameras do not forward any ports to the internet. Effectively, the Mirai malware cannot locate or identify these 3xLOGIC cameras. Consequentially, these devices are assessed as free of risk.

Under rare circumstances, some unique field applications may see 3xLOGIC cameras utilizing manual port forwarding for communication with VIGIL as opposed to utilizing the VIGIL Connect™ service. However, no SSH or Telnet ports are forwarded on these devices. As the Mirai malware cannot install software without access via Telnet or SSH, these cameras are assessed to be free of risk.

As 3xLOGIC video managements systems (NVRs, DVRs) also employ these proprietary technologies and practices, they are also assessed to be free of risk in regards to the Mirai malware.

In a continuing effort to enforce modern security standards, 3xLOGIC reminds all users to always change default login credentials for all your devices, 3xLOGIC-branded and otherwise. This should always be considered imperative and is best practice in safeguarding your devices, network and data.

### 3 Contact Information

If you require more information, or if you have any questions or concerns, please contact 3xLOGIC Support:

Email: [helpdesk@3xlogic.com](mailto:helpdesk@3xlogic.com)

Online: [www.3xlogic.com](http://www.3xlogic.com)

<b>* Importance:</b>	High	Mandatory Upgrade – Will affect the recording functionality of the VIGIL Server System and may cause loss of video records
	Medium	Recommended Upgrade – Will not cause loss of video records, may affect usability of the System.
	Low	VIGIL Server System will function properly – Affects non-critical system features only.