

**Allen Bradley Micrologix 1100 Family**

**1.**

Model Number:1766-L32BWA, Series A and B, Version 16.00 and prior versions

**Vulnerability discovered:PREDICTABLE VALUE RANGE FROM PREVIOUS VALUES**

Description: This vulnerability allows attackers predict numbers from previous values as the initial TCP sequence numbers generated are not sufficiently random. This could allow attackers to spoof TCP connections associated with the PLC.

**2.**

Model Number:1766-L32BWA, Series A and B, Version 16.00 and prior versions

**Vulnerability discovered:REUSING A NONCE, KEY PAIR IN ENCRYPTION**

Description: The reuse of nonces exposes the device to potential replay attacks until the nonce is changed

**3.**

Model Number:1766-L32BWA, Series A and B, Version 16.00 and prior versions

**Vulnerability discovered:INFORMATION EXPOSURE**

Description: Attackers may gain unauthorised access to user credentials as they are sent to the server using HTTP GET method

**4.**

Model Number:1766-L32BWA, Series A and B, Version 16.00 and prior versions

**Vulnerability discovered:IMPROPER RESTRICTION OF EXCESSIVE AUTHENTICATION ATTEMPTS**

Description: The device is vulnerable to brute force attacks as there is no penalty for repeatedly entering the wrong password

**5.**

Model Number:1766-L32BWA, Series A and B, Version 16.00 and prior versions

**Vulnerability discovered:WEAK PASSWORD REQUIREMENTS**

Description: small maximum password size is use resulting in weak passwords to protect devices that are affected.