



# Security Advisory

TBOX-SA-2021-0007

## Summary

- **Document Type** : Security Advisory
- **Id** : TBOX-SA-2021-0007
- **Vulnerability** : CVE-2021-22640
- **Publisher** : Ovarro (vendor)
- **Contact** : [cybersecurity@ovarro.com](mailto:cybersecurity@ovarro.com)
  
- **Current status** : final
- **Current version** : 1.0
- **Initial release date** : 23 March 2021
- **Current release date** : 23 March 2021

## Revision History

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Version	Date	Description
1.0	23 March	First version

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## Vulnerability

A attacker may intercept sensitive information from Modbus communication.

## Vulnerable Products

This vulnerability affects the following products :

- Legacy product families : TBox MS-CPU16, TBox LT, TBox TG, TBox RM, TBox LP, TBox WM (all firmware versions)
- Current product families : TBox MS-CPU32, TBox MS-CPU32-S2, TBox LT2, TBox TG2, TBox RM2 (firmware version **1.45 and earlier**)

## Solution

Modbus is an unsecure protocol and should be encrypted to protect transferred data.

### Current product families

We advise our customers to encrypt unsecured protocols by using a VPN. The TBox supports OpenVPN protocol as server or client. An easy way to do that is by using TConnect which acts as a VPN server and will completely hide the OpenVPN configuration for the user (certificates generation).

When connecting to the TBox through TConnect, TWinSoft will communicate with TConnect which will then redirected Modbus protocol to the VPN.

### Legacy product families

Customers using a legacy product are advised to contact local sales representative to update to an equivalent product family.

## Workaround

There are no workaround available for this vulnerability.

## General Security Recommendations

There is a document explaining the best practices to keep the TBox secured. It can be downloaded from our web site [www.ovarro.com](http://www.ovarro.com) in "Customer Support" section (service portal, manual, "TBox Cybersecurity\_Best Practice").

## Acknowledgment

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- Uri Katz at Clarity for identifying and reporting this

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