

FIRMWARE EXPLOITATION, BRING CYBER-ATTACKS TO REAL WORLD: BROMMA AIRPORT CASESTUDY



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Abstract

Old and unsupported firmwares represents a serious threat to infrastructure security. Infrastructures are very complex scenarios in which hundreds of devices operate. Each hardware device is managed by a firmware that is in charge also of managing communication with the global platform manager. Bad written and unpatched firmwares are easily exploitable and in some cases they can lead to gain access to the platform manager, compromising the entire infrastructure security.

Bio

Gianni Cuozzo was born in Germany in 1990 into an Italian family originating from Valva (SA) in southern Italy. He specialized early on in the issues concerning the development of advanced technologies and Forecasting models for geopolitical events, coordinating the development of different plug-in for the "R" language. In 2012 he founded Macro Aerospace, a company engaged in the development of a CubeSat satellite constellation for the satellite security storage. In 2013 Macro Aerospace closed the most important round of financing in the field of start-up. In 2014 he founded in Malmö Prism Warfare, a company working in the development of computer weaponry. In that period Cuozzo was active in major contemporary symmetrical conflict areas as combat duty. In May 2016 he founded in Italy Aspisec, a specialized company in the field of cyber security consulting with a strong specialization in the firmware security. Cuozzo has collaborated with several NATO countries in the writing of military doctrines about the use of cyber weapons and for the use of new doctrines of military computer intelligence. He was a speaker at the United Nations in Geneva on some issues relating to firmware security and he is the author of scientific papers published by NATO & IEEE. Cuozzo was awarded also by the famous MIT tech Review as Young Innovators prize for his research on calculus optimization for the firmware security.

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