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RVD#2557: Hardcoded Credentials on MiRX00 Control Dashboard #2557

New issue

⊙ Open rvd-bot opened this issue on Jun 24, 2020 · 0 comments

robot: ER200 robot: ER-Flex robot: ER-Lite robot: ER-One robot: MiR100 robot: MiR200 robot: MiR250 robot: MiR500 robot: MiR100 robot: MiR1000 Labels severity: critical vendor: Easy Robotics vendor: Enabled Robotics vendor: Mobile Industrial Robots vendor: Robotplus vendor: UVD Robots vulnerability

rvd-bot commented on Jun 24, 2020 • edited by glerapic 🔻 Contributor id: 2557 title: 'RVD#2557: Hardcoded Credentials on MiRX00 Control Dashboard' type: vulnerability description: Out of the wired and wireless interfaces within MIR100, MIR200 and other vehicles from the MIR fleet, it's possible to access the Control Dashboard on a Venicles from the first leet, it's possible to access the Control Dashboaru on a hardcoded IP address. Credentials to such wireless interface default to well known and widely spread users (omitted) and passwords (omitted). This information is also available in past User Guides and manuals which the vendor distributed. This flaw allows cyber attackers to take control of the robot remotely and make use of the default user interfaces MiR has created, lowering the complexity of attacks and making them available to entry-level attackers. More elaborated attacks can also be established by clearing authentication and sending network requests directly. We have confirmed this flaw in MiR100 and MiR200 but according to the vendor, it might also apply to MiR250, MiR500 and MiR1000. cwe: CWE-798 cve: CVE-2020-10270 keywords: - MiR100, MiR200, MiR500, MiR250, MiR1000, ER200, ER-Lite, ER-Flex, ER-One, UVD, Autentication ystem: MiR100:v2.8.1.1 and before, MiR200, MiR250, MiR500, MiR1000, ER200, ER-Lite, ER-Flex, ER-One, UVD vendor: Mobile Industrial Robots A/S, EasyRobotics, Enabled Robotics, UVD Robots severity: rvss-score: 10.0 rvss-vector: RVSS:1.0/AV:AN/AC:L/PR:L/UI:N/Y:Z/S:U/C:H/I:H/A:H/H:H severity-description: Critical cvss-score: 9.8 cvss-vector: CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H - https://cwe.mitre.org/data/definitions/798.html - https://www.mobile-industrial-robots.com/media/2714/mir100-user-guide_robot-interface-20-v10.pdf - http://bernharddieber.com/publication/taurer2019mirsafety https://github.com/aliasrobotics/RVD/issues/2557 phase: runtime-operation specificity: general-issue architectural-location: Platform code application: All subsystem: UI:Login package: N/A languages: None date-detected: 2019-07-01 detected-by: Alias Robotics (https://aliasrobotics.com/) detected-by-method: testing dynamic, web browser. date-reported: '2020-06-24' reported-by: "Victor Mayoral Vilches (Alias Robotics)" reported-by-relationship: security researcher issue: https://github.com/aliasrobotics/RVD/issues/2557 reproducibility: Always trace: Not disclosed reproduction: Not disclosed reproduction-image: Not disclosed exploitation: description: Not disclosed exploitation-image: Not disclosed exploitation-vector: Not disclosed exploitation-recipe: - network: - driver: overlay - name: mireth-network - encryption: false containers: container - name: mir100 - modules: - base: registry.gitlab.com/aliasrobotics/offensive/alurity/robo_mir100:2.8.1.1 network: mireth-networkcontainer: - name: attacker - base: registry.gitlab.com/aliasrobotics/offensive/alurity/comp ros:latest volume: registry.gitlab.com/aliasrobotics/offensive/alurity/expl_robosploit/expl_robosploit:latest
 volume: registry.gitlab.com/aliasrobotics/offensive/alurity/deve_atom:latest - volume: registry.gitlab.com/aliasrobotics/offensive/alurity/reco_nmap:latest - network: mireth-network flow: - container: - name: attacker - window: - name: attacker - command: 'export TARGET=\$(nslookup mir100 | awk "NR==6{print\$2}" | sed "s/Address: //g")'
command: echo "Waiting until the dashboard launches..."; sleep 10 - command: 'robosploit -m exploits/mir/dashboard/http_default_creds -s "target \$TARGET - container:

- name: mir100 - window: - name: setup - commands: - command: mkdir /var/run/sshd - command: /usr/sbin/sshd - command: /bin/sleep 5 - command: sudo mkdir /run/lock - command: /etc/init.d/apache2 start - split: horizontal - command: /bin/sleep 2 - command: //bin/sleep 2 command: python /usr/local/mir/software/robot/release/db_backup.py command: /etc/init.d/mysql start command: /bin/sleep 2 command: //sr/sbin/mysqld --verbose & - window: - commands: - command: python /usr/local/mir/software/robot/release/db_backup.py - command: sudo apt-key adv --keyserver 'hkp://keyserver.ubuntu.com:80'
--recv-key C1CF6E31E6BADE8868B172B4F42ED6FBAB17C654
- command: sudo apt-get update - command: roslaunch mirCommon mir_bringup.launch
- select: setup - attach: attacker mitigation: description: Not disclosed pull-request: Not disclosed date-mitigation: null 🖔 😭 rvd-bot added robot: ER-Flex robot: ER-Use robot: ER-One robot: ER-One robot: ER-One robot: ER-One robot: ER-One robot: ER-One robot: MiR1000 robot: MiR1000 robot: MiR200 robot: severity: critical vendor: Easy Robotics vendor: Enabled Robotics vendor: Mobile Industrial Robots vendor: UVD Robots vulnerability labels on Jun 24, 2020

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| Prod-bot changed the title Hordeoded-Gredentials on MiRX60 Control Dashboard RVD#2557: Hardcoded Credentials on MiRX00 Control Dashboard on Jun 24, 2020
| Prod-bot changed the title Hordeoded-Gredentials on MiRX60 Control Dashboard on Jun 24, 2020
| Prod-bot changed the vendor: Robotplus label on Jul 10, 2020
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3 participants

No branches or pull requests

