ICX35 User Interface Input Validation Issue

Date: May 8, 2017
Version: 1.0

Executive Summary

Several fields in the ICX35 web user interface accept system commands that can be used to gain root privileges to the device. The web UI can be accessed via the cellular network, so this vulnerability can be exploited remotely.

Details

During internal comprehensive penetration testing of the ICX35 cellular gateway, several fields in the web user interface were found to allow the entry of system commands with root privileges. This could allow an attacker to execute malicious commands on the ICX35 processor. Because the user interface is accessible over the cellular connection, this vulnerability could be exploited remotely.

Impact

An attacker could use this vulnerability to execute malicious commands on the ICX35 processor, using it as a platform for malicious code. The ICX35 provides Internet connectivity through its cellular WAN port, which means it could be used as a platform for a broad based attack.

Affected Products

<table>
<thead>
<tr>
<th>Brand</th>
<th>Product Line / Platform</th>
<th>Product</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>ProSoft Technology</td>
<td>Industrial Cellular Gateways</td>
<td>ICX35-HWC-x</td>
<td>1.0, 1.1, 1.1d, 1.2.x</td>
</tr>
</tbody>
</table>

Solution

This vulnerability has been fixed in firmware version 1.3, released on April 12, 2017. Users are encouraged to update the firmware on all ICX35 gateways to version 1.3 or later. Firmware can be updated through ProSoft Connect or by downloading the firmware files from the Downloads section of the ICX35 product web page: [http://www.prosoft-technology.com/Products/Industrial-Wireless/Intelligent-Cellular/Industrial-Cellular-Gateway-ICX35-HWC](http://www.prosoft-technology.com/Products/Industrial-Wireless/Intelligent-Cellular/Industrial-Cellular-Gateway-ICX35-HWC)

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Revisions