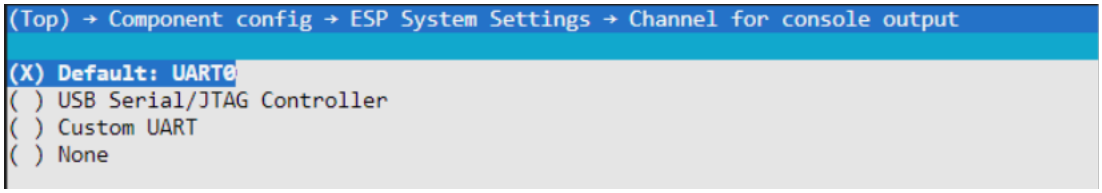
Bug Advisory

Title	Usage Instructions for Configuring the Console Output Channel for the ESP32-C3 Chip Revision v1.1
Issue Date	2025/11/21
Advisory Number	AR2025-006
Serial Number	NA
Version	V1.0

Issue Summary

The ESP32-C3 chip revision v1.1 may experience a continuous reboot cycle, preventing normal startup, when the console output channel is reconfigured from UART0 to either the USB Serial/JTAG Controller or a custom UART.



Impact Analysis

Affected Product Series:

This issue affects ESP32-C3 chip revision v1.1.

ESP-IDF Affected Versions:

ESP-IDF Branch	Affected Commit IDs	Affected ESP-IDF Versions
release/v5.5 and above	Commits before ea902d6 (excluded)	No official release yet

release/v5.4	Commits before 05b6d92 (excluded)	v5.4-beta1 – v5.4-beta2
release/v5.3	Commits before 3e700ef (excluded)	v5.3 – v5.3.1
release/v5.2	Commits before 90f0760 (excluded)	v5.2 – v5.2.3
release/v5.1	Commits before 56aae01 (excluded)	v5.1 – v5.1.5
Release/v5.0	Commits before aa8e013 (excluded)	v5.0 – v5.0.7

Mitigation

ESP-IDF Patched Versions:

ESP-IDF Branch	Fixed Commit IDs	Fixed ESP-IDF Versions
release/v5.5 and above	ea902d6	v5.5
release/v5.4	05b6d92	v5.4
release/v5.3	3e700ef	v5.3.2
release/v5.2	90f0760	v5.2.4
release/v5.1	56aae01	v5.1.6
release/v5.0	aa8e013	v5.0.8

[1] ESP-IDF release/v5.0 has reached End of Life. Espressif will no longer provide support for this version, including adding new features, fixing bugs, or addressing security issues.

Recommendations for Application Developers

If your application changes the default console output to USB Serial/JTAG Controller or Custom UART, and you are using an affected ESP-IDF version, it is recommended to upgrade to the patched ESP-IDF version (see the table above). If you encounter any issues during the upgrade process, please provide Espressif with the ESP-IDF version number or Commit ID. We will confirm and handle related matters as soon as possible.