

13. Community Meeting Arduino ESP32 Core

26/10/2023





Content

- *Meeting Rules*
- **Development Updates & Plans**
 - version 2.0.13 and 2.0.14
 - 3.0.0 development release is out, what next?
- **Open Discussion**

Community Meeting Purpose



BRING MORE
TRANSPARENCY



COLLECT VALUABLE
FEEDBACK FOR
DEVELOPMENT



IMPROVE USER
EXPERIENCE



ANSWER AND
ADDRESS COMMUNITY
REQUESTS

Meeting rules

- *Polite and friendly environment*
- *Consider different knowledge levels of the participants*
- *If you have any comments or questions, don't hesitate to ask*

Development Updates – 2.x version (IDF 4.4.x)

- Sep 5 – [v2.0.12](#)
 - Fixes ESP32 BT Memory Releasing [#8551](#)
 - Fix I2S crackling in 2.x [#8583](#)
 - Allows changing HW CDC Buffer Size after or before begin() [#8559](#)
 - Fix pin attachInterrupt(digitalPinToInterrupt(48)) on all S3 based SOC's [#8600](#)
- Sep 15 – [v2.0.13](#)
 - Set ref to 2.0.13 [#8615](#)
 - Uart detach 2.0.13 [#8629](#)
 - removes delay(10) from HardwareSerial::end() [#8634](#)
- Oct 4 – [v2.0.14](#)
 - **Update ESP-IDF to v4.4.6 (with I2S Rollback)** [#8701](#)
 - WiFiClient - Properly initialize and check _rxBuffer [#8699](#)
- [v2.0.15](#)
 - if needed
 - only critical issues, main focus is on v3.0.0

Development Updates – v3.0.0

- Oct 6 – [3.0.0-Alpha](#)
 - development release ([installation Guide](#))

Major changes:

- based on ESP-IDF v5.1
- initial support for ESP32-H2 & C6
- Peripheral Manager ([feature description](#))
- new I2S library
- SPI Ethernet support (w5500)
- Wake Word and Command Recognition (ESP32-S3 only)

Known Issues:

- tooling issues (Arduino IDE2 or 'arduino-cli' support)

- Oct 12 – [3.0.0-Alpha2](#)
 - Fixes installation on Arduino IDE 1.x and RV toolchain on Windows
 - 12k downloads

Migration – v3.0.0

- Breaking changes in APIs of 3.0.0 Release:
 - ADC
 - BLE
 - Hall Sensor (not supported)
 - I2S
 - LEDC
 - RMT
 - SigmaDelta
 - Timer
 - UART (HardwareSerial)

[- Migration Guide from 2.x to 3.x](#)

Collecting Feedback:

- 3.0.0 version Migration related issues [#8796](#)
- ESP32-C6 support [#7713](#)
- Support of ESP32-H2 [#6854](#)



Planning – v3.0.0

- 3.0.0-RC1 (release candidate)
 - in approx. 2 weeks

To be included:

 - 3.0.0 Network Refactoring [#8760](#)
 - 3.0.0 Alpha2 :: Serial + RMT doesn't work. [#8809](#)
- 3.0.0-stable
 - if everything goes as planned - release by end of this year



DevCon23 Arduino talk

Topic:

Using ESP-IDF FreeRTOS Functionality Within an ESP32 Arduino Project

Speaker:

Rodrigo Garcia

You can watch the talk on [YouTube](#).

Open Discussion



Next Community Christmas Meeting Invitation

- Thursday – 21.12.2023 at 4 pm (GMT+1 time zone)



Thank you !

