**Pre-production checklist**

**Deployment**

Ensure Endpoint URL, API addresses, and Dashboard access permissions are set up.

Confirm that the payment method for the AWS account is ready.

Verify that all configurations post-deployment have been completed.

Consider user scenarios, such as SES and SNS concurrency limits, and production access enabled.

Determine if additional services or skills (e.g., OAuth/Webhook) are required.

Ensure that the deployment is up to date (it is recommended to update to the latest stable version before production).

**Phone App**

Ensure push notification settings are correctly configured.

Confirm that a developer account for mobile application publishing is available.

Obtain necessary compliance approvals like ICP (China only), Google Play, and iOS Store licenses.

Establish clear privacy and permission-related prompts.

Consider the cost of retrieving data from the cloud.

Display the Node ID/Device ID in the application for easier maintenance.

**Firmware**

Update ESP-IDF to the latest recommended version before releasing firmware.

Ensure MQTT endpoint links and configurations are correctly set.

Conduct thorough reliability testing for OTA updates (validated through multiple iterations).

Assess and validate the data cost for parameter reporting (like Time Series and simple Time Series, param updates, and config updates).

Optimize memory usage, including RAM and Flash.

Please satisfy all requirements in the **pre-production firmware checklist**.

(This checklist is in the Firmware section under “Development” in the documentation hub)

**Licensing**

Obtain sufficient certificate licenses.

Understand how to generate device certificates and ensure they are properly registered in the cloud.

**Factory Manufacturing Considerations**

Use the correct flashing files for production.

Implement robust factory process management, ensuring one-to-one record tracking.

Validate production testing procedures on the assembly line.

**SW/HW Compatibility Check and RF Performance Verification**

Ensure the latest chip and module versions are used in production.

Verify hardware compatibility to prevent ESP module functionality and performance issues due to PCB design constraints.

Check the RF performance of the product to ensure it meets the requirements of the usage scenario.

**Certification**

Obtain all mandatory certifications required for product sales.

Acquire additional certifications that enhance product credibility and user recognition.

**System Testing**

Conduct comprehensive system tests, including user experience testing, potential OTA updates, and production workflow assessments.

For more assistance, please contact **esp-rainmaker-support@espressif.com**