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**