**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**