ARXOS API Manual

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Prepared by: ARXOS Team

1. Introduction
- **Purpose:** Describe the goal and scope of this document.
- **Audience:** Intended readers (e.g., developers, students, integrators).
- **Scope & Limitations:** Boundaries of what is covered here and what is referenced elsewhere.

2. Overview
- Brief description of the ARXOS context relevant to this document.
- Relation to other ARXOS documents (cross-references where needed).

3. Core Content
(Structure depends on the document - e.g., for Environment Setup, list steps; for API Manual, describe function groups, etc.)
- Section A — [Topic-specific explanation]
- Section B — [Details, examples, figures if needed]
- Section C — [Additional notes, use cases, or warnings]

4. Examples / Use Cases
- Step-by-step walkthroughs.
- Illustrative screenshots or diagrams (if applicable).
- Sample code snippets (if relevant).

5. Best Practices / Recommendations
- Practical tips for efficient use of ARXOS.
- Common pitfalls and how to avoid them.

6. References

1. arxos.pdf — *Getting Started with ARXOS*
2. arx_package_structure.pdf — *Explains repository layout, directories, and files*
3. arx_env_setup.pdf — *Development Environment Setup: toolchains, IDEs, simulators*
4. arx_build_config.pdf — *Building and Configuring ARXOS*
5. arx_hal_guide.pdf — *Hardware Abstraction Layer (HAL) Guide*
6. arx_porting_guide.pdf — *Porting ARXOS*
7. arx_debugging_guide.pdf — *Debugging ARXOS*
8. arx_coding_standards.pdf — *ARXOS Coding Standards*

7. Revision History

Version	Date	Author	Description
v1.0	30/10/2025	ARX Team	Initial draft

About ARX

ARX is a real-time operating system developed and licensed by **ARX Labs Pvt. Ltd.**
It has been designed, developed, and tested by a team including alumni of the **National Institute of Technology Karnataka (NITK)**.
Among existing RTOS solutions, ARX introduces advanced technology to address critical firmware development challenges on real-time platforms.
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The user is solely responsible for:

- Conducting necessary evaluation, validation, and verification.
- Ensuring technical, functional, and performance requirements are fully met before deploying ARX in any operational, commercial, or production environment.

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