

# RFP: Gap & Effort Assessment for Open Source Project Documentation

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## Introduction

The OpenAMP open source project members seek to improve the project’s documentation to be more accessible to new users and potential contributors.

General areas of improvement:

- Creating a documentation style guide
- Changing how documentation is organized or structured
- Cleaning up/enhancing existing documentation
- Creating new documentation/examples/demos to fill gaps

Documentation improvement project phases:

- Phase 0: RFP & selection
  - **RFP seeks quotes** from technical writer contractors for their **rate & estimated effort for them to execute only Phase 1**.
  - Shortlisted candidates will be interviewed before a candidate is chosen to be the contractor.
  - Contractor for **Phase 1** will be chosen based on criteria in “Ideal Tech Writer...” section below
- Phase 1: Evaluate/Recommend/Estimate
  - The **contracted** tech writer will evaluate the existing OpenAMP **community-hosted** project documentation & demos from the perspective of a senior-engineer-new-user/contributor. Evaluating includes following the documentation to execute the demos in the [openamp/demo-lite Docker image](#).
  - The **contracted** tech writer will recommend a list of specific improvements for the OpenAMP **community-hosted** project documentation. Reading vendor-hosted documentation will give insights into gaps in the community documentation;

however, recommending improvements to vendor-hosted documentation is out-of-scope for this contract.

- The **contracted** tech writer will estimate the effort required to implement each improvement in the list.
- The **contracted** tech writer will provide the list of specific improvements & effort for each in tabular format.
- Phase 2: Improvement implementation
  - Phase 2 planning will require the output of Phase 1.
  - We will need the knowledge & efforts of multiple contributors to implement the improvements.
  - Phase 2 planning will include the OpenAMP project members determining which improvements are best implemented by the subject matter experts in the OpenAMP developer community and which improvements are best implemented by a highly technical professional writer.

## Ideal Tech Writer for OpenAMP Docs Improvement Project

- Electrical & Computer Engineering/Computer Science background
- Open Source contributor experience, including via GitHub pull requests
- Embedded Software experience
- Tech doc creation experience, including Sphinx and (ideally) Doxygen
- Availability for an initial spike of work in H1CY2024 for Phase 1: Evaluate/Recommend/Estimate
- Phase 2 is out-of-scope for this RFP; however, preference will be given to candidates with availability for Phase 2 implementation:
  - An initial spike of work in H1CY2024 for high priority task(s)
  - Ongoing 1-2 days/month in 2024-2025
    - Includes polishing documentation for 2024.10 OpenAMP Release
- Schedule details below in “RFP Process & Key Dates” table

## What is OpenAMP?

OpenAMP seeks to standardize the interactions between operating environments in a heterogeneous embedded system through open source solutions for Asymmetric MultiProcessing (AMP).

AMP systems need to be able to run different operating environments side-by-side on the same chip. Developing a standard shared memory scheme for the configuration and interaction between these environments will simplify working with SoCs (System on a Chip).

OpenAMP is a framework providing the software components needed to enable the development of software applications for AMP systems. It allows operating systems to interact within a broad range of complex homogeneous and heterogeneous architectures and allows asymmetric multiprocessing applications to leverage parallelism offered by the multicore configuration.

The project provides a set of APIs and tools that allow developers to create and manage communication channels between different cores, as well as to distribute tasks across them. OpenAMP is widely used in embedded systems, such as automotive, aerospace, and industrial applications, where high-performance computing is required. The project is a Linaro Community Project and is supported by a community of developers and companies that contribute to its development and use.

See the Existing Documentation section at the end of this document for more details.

## Who is the audience for OpenAMP documentation?

- Users: Software developers for AMP systems that require kernel & userspace level communication between processors
- Operating system & hypervisor vendors who want to port to their OS/hypervisor to support OpenAMP
- Semiconductor vendors who want to add functionality to OpenAMP to support their chip

## What are the current challenges with OpenAMP documentation?

- Need to make someone quickly understand if “Yes, OpenAMP solves my problem!”
- No clear entry point for new user
- No quick start guide
- Need more centralized contributor onboarding for all types of users
- Some content has gotten out-of-date compared to the code
- New functionality needs more documentation
- Demos are available, but need to help new person find them & understand how it fits into big picture
- No style guide

# RFP Process & Key Dates

Step	Date
Send RFP to candidates	1 Feb 2024
Deadline for candidates to submit proposal for Phase 1 rate & effort quote	26 Feb 2024
Candidates notified if they were/weren't selected for interview shortlist	22 Mar 2024
Shortlist candidates notified if they were/weren't selected to complete Phase 1	12 Apr 2024
<b>Phase 2 is out-of-scope, but these dates are for the availability question:</b>	
2024.10 Release documentation chill (No new major changes, just review & fixes after this date)	1 Oct 2024
2024.10 Release code freeze	15 Oct 2024
2024.10 Release documentation freeze	31 Oct 2024

## How to Respond to this Request for Proposal

This RFP is focused on Phase 1 and **seeks quotes** from technical writer contractors for their **rate & estimated effort for them to execute only Phase 1**.

Implementing documentation improvements is Phase 2 and out-of-scope for this RFP; however, preference will be given to candidates with availability for Phase 2 implementation.

RFP Deliverable: Please take a **quick skim** of the documentation listed in the Existing Documentation section below to know what exists and help you come up with an accurate estimate, and complete the RFP Response form in this [Google form](#) by EOD 26 Feb 2024. The Google form collects the responder's email address to send them a copy of their answers. If you do not receive a separate human-generated email confirmation of receipt of your proposal by EOD 27 Feb 2024, please notify [nathalie.chan-king-choy@amd.com](mailto:nathalie.chan-king-choy@amd.com).

# Existing Documentation

- Elevator pitch presentation: <https://www.openampproject.org/docs/presentations/OpenAMP-Elevator-Pitch-2024-Q1.pdf>
- OpenAMP Project Readthedocs: <https://openamp.readthedocs.io/en/latest/index.html>
  - Samples & Demos: <https://openamp.readthedocs.io/en/latest/demos/index.html>
- OpenAMP GitHub: <https://github.com/OpenAMP>
- Webinar (2h):
  - ▶ OpenAMP and Heterogenous Processing Project Webinar (December 2022)
- Vendor-hosted documentation (to help identify gaps in the OpenAMP community-hosted project docs):
  - AMD Xilinx: <https://xilinx-wiki.atlassian.net/wiki/spaces/A/pages/18841718/OpenAMP>
  - ST: [https://wiki.st.com/stm32mpu/wiki/Coprocessor\\_management\\_overview](https://wiki.st.com/stm32mpu/wiki/Coprocessor_management_overview)
- OpenAMP Project Website: <https://www.openampproject.org/>