

Call for Offers:

P_2023_03 – ASAM OpenX standards in offroad applications

ASAM calls for offers to support an ASAM project group. Please send your offers for this project to offers@asam.net.

Offers shall be submitted no later than 08.05.2024.

Project

Industries involving landfill, construction, agriculture, and mining are also looking to deploy or have already deployed highly automated driving functionality. There is a strong overlap in the use cases for ASAM OpenX standards across on-road ADAS/AD and these domains. This project aims to investigate potential extensions to current ASAM standards to support the development and testing of highly automated driving functions for off-road vehicles.

Timetable

Deadline	Topic
May 08, 2024	Final Deadline to submit offer (submit to offers@asam.net) Offers have to be submitted in writing to ASAM within the above stated bidding period, including a clear description of the services provided and deliverables, terms & conditions, time period and costs for the service.
May 15, 2024	Service provider start
Feb 28, 2025	Project end

Project Goal

Evaluating the need for extensions to existing standards or development of new standards to support modeling and simulation of

- (a) vehicle mobility in off -road conditions and
- (b) earth moving for digging, loading, and hauling.

This project aims to investigate potential extensions to current ASAM standards to support the development and testing of highly automated driving functions for off-road vehicles. The following topics shall be covered:

- Use cases for ASAM OpenX standards in off-road vehicles
- Unique requirements for simulations of off-road vehicles
- Current standards for off-road simulation
- Relationship between off-road requirements and existing ASAM standards (e.g., incorporating soil characteristics for driving surfaces, possibly via extension to OpenDRIVE,

OpenCRG, or a new terrain standard; inclusion of environment data in OpenSCENARIO; interactions with OSI)

- Proposed approach for investigating potential gaps in ASAM OpenX standards

The project proposal documentation can be found following the below link:

<https://www.asam.net/project-detail/asam-openx-standards-in-offroad-applications/>

Tasks for Service Provider

Position	Item	Costs
1	Editorial revisions	10000€
2	Technical Support for ASAM OpenX standards	50000€

Table 1: Positions in this RfQ

Editorial revisions

Editorial revisions include the formatting as well as conversion of final deliverables (MS Office documents) into the Pdf-format while maintaining ASAM CI as well as checks on consistency and presentability on the basis of the ASAM Editorial Guide. The ASAM Editorial Guide will be provided to the service provider.

Qualification

In order to be able to carry out the tasks, the service provider shall meet the following conditions:

- Expertise in MS Office and/or Adobe Acrobat would be beneficial.
- High proficiency in technical English required.

Technical Support for ASAM OpenX standards

Technical support for ASAM OpenX standards includes:

- ASAM OpenDrive
- ASAM OpenCRG
- ASAM OpenScenario
- ASAM OSI
- ASAM OpenLabel
- ASAM OpenODD
- ASAM OpenMaterial

The support of the Concept project group for the above-mentioned standards encompasses the technical Input (pseudocode-level) into different scenarios including:

- Moving from Point A to Point B
- Vehicle Interaction
- Load & Haul

Qualification

In order to be able to carry out the tasks, the service provider shall meet the following conditions:

- Expertise in application of the OpenX standards and/or scenario-based simulation in the offroad domain are required.
- High proficiency in English would be beneficial.

Max. Service provider Budget: **60000€**

General Conditions

Please note the following general conditions for the project:

- The project lead, ASAM office and service provider will jointly determine the need for attendance of the service provider in meetings.
- Offers have to be preferably work packaged based (categorization according to the different tasks presented in this document). The offers can be made addressing one, more or all the tasks.
- In the event of variable-price offers, please indicate upper limits for the costs.
- In case a deliverable is found to be defective or not up to customary industry quality standards, the service provider will correct the deliverable without charging ASAM for the extra work. Not completed work is exempted from the service provider's warranty, i.e. if a deliverable is found to be incomplete, then its completion will not be paid by ASAM.
- Modification to deliverables, should they be required, will be jointly reviewed and the order adjusted accordingly.
- All work results of the project (including the sources to create them) will be handed over to ASAM and will become the exclusive property of ASAM. If the general terms & conditions of the service provider contain rules that are in conflict herewith, then they must be identified and explicitly declared as invalid for this offer.
- Offers have to be submitted in writing to ASAM within the above stated bidding period, including a clear description of the provided services and deliverables, terms & conditions, time period and costs for the service.
- Please note that offers will be reviewed by the members of the project group, the Technical Steering Committee of ASAM and the ASAM Office. The project group members will not receive pricing information. For this purpose, please put all pricing information on a separate page