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Request For Proposal (RFP):
A Modeling Tool for Collaborative Data Model Development within the Open Footprint™ Forum
The Open Group

Version 1.0
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1 Introduction

The Open Group issues this RFP to select a supplier to provide a Collaborative Modeling Tool to support collaborative development and delivery of the Open Footprint™ Data Model.

The Open Group Open Footprint Forum members currently use multiple separate Modeling Tools to develop various data schemas and components of The Open Footprint Data Model. The Open Group is now seeking a Collaborative Modeling Tool to provide similar modeling capabilities in one tool that enables multiple members to simultaneously develop model components in a common environment, producing one model output that is version controlled, vs. many disjoint versions of the model that need to be manually merged.

For the Collaborative Modeling Tool selected, we expect that usage by our diverse membership in the OFP Forum will create a great deal of awareness of the tool among our additional 900+ members.

The supplier should read the background information along with any terms and conditions outlined in this document and complete all of the required sections. Once complete the RFP should be returned to ofp-rfp-response@opengroup.org

2 Background

The Open Group is a global consortium that enables the achievement of business objectives through technology standards. Our diverse membership of more than 900 organizations includes customers, systems and solutions suppliers, tool vendors, integrators, academics, and consultants across multiple industries.

The Open Group works with customers, suppliers, consortia and other standard bodies to:

- Capture, understand and address current and emerging requirements, and establish policies and share best practices
- Facilitate interoperability, develop consensus, and evolve and integrate specifications and open source technologies
- Offer a comprehensive set of services to enhance the operational efficiency of consortia
- Operate the industry’s premier certification service

The Open Group is a consortium with a foundation in its members: a diverse group that spans all sectors of the IT community – IT customers, systems and solutions suppliers, tool vendors, integrators and consultants, as well as academia and researchers.

For more information about The Open Group, visit the web site: http://www.opengroup.org.

2.1 Collaborative Modeling Tool for The Open Group

The Open Group desires to provide Members with a Collaborative Modeling Tool to support collaborative development, delivery, and evolution of the Open Footprint Data Model, following an approach that is aligned with The Open Group Principles and strategy. Such a Collaborative Modeling Tool fits into The Open Group business strategy to provide our members with the required collaboration systems to allow members and staff to deliver valuable, pragmatic and executable standards to the market.

This Collaborative Modeling Tool is intended to augment the collaboration systems that The Open Group provides for use by its Members by adding the means to simultaneously develop model
components in a common environment, producing one model output that is version controlled and whose model components are expressed in The Open Group ArchiMate® Modeling Language version 3.2, or the Object Management Group UML® (Unified Modeling Language) Specification, version 2.5.1.

3 Business Goals and Drivers

This section details the Business Goals and Business Drivers of The Open Group. These goals and drivers represent the main motivations for defining and advancing the procurement and use of a Collaborative Modeling Tool and should be addressed in the final solution.

3.1 Business Goals

- Continuously improve the capabilities and ease of use of the collaboration systems offered by The Open Group to its members

The Open Group would like to offer its members the means to simultaneously develop data model components in a common environment, producing one model output that is version controlled. Procurement of a Collaborative Modeling Tool will bring this to fruition. While the initial use will be for the Open Footprint Forum membership, other standards forums of The Open Group may over time utilize the Collaborative Modeling Tool for their purposes.

- Accelerate the delivery of executable standards in alignment with The Open Group principles and processes

The Open Group would like to offer its members a tool to simplify and accelerate their development of new architecture models and data model components, while still meeting the rigor defined in The Open Group Standards process and Publications Development process. Using a Collaborative Modeling Tool will expedite and streamline development – members will no longer have many disjoint versions of the model that need to be manually merged prior to review, approval, and delivery.

- Maintain an archive proving that the consensus rigor of consensus and The Open Group processes were followed for each model that is published

The Open Group brand value centers around its market promise of trusted open standards produced in a collaborative, consensus-driven, vendor-neutral process and environment. The Collaborative Modeling Tool must support preserving a record of how this trusted process was followed.

3.2 Business Drivers

- Support members in developing and releasing “executable standards” to make The Open Group standards more valuable to the market and accelerate market adoption

Interest by members to release architecture and data models has increased since 2017, when The Open Group Governing Board added the new principle to enable the release of “Executable Standards” - see https://www.opengroup.org/standardsprocess/main.html#2, Principle 7

- Increase market adoption of the Open Footprint (OFP) Data Model standard and The Open Group standards

The Open Footprint (OFP) Data Model is playing a critical role in advancing the adoption of greenhouse gas (GHG) emissions data standards through the development of an open source standard data model, reference Application Programming Interfaces (APIs), an open-source reference implementation and
tools, and accompanying documentation. While the Open Footprint forum started its work focused on GHG emissions, the focus has now broadened to include all emissions. These efforts are essential to provide companies with a common language for communicating their emissions data, which allows for easier tracking, comparison, and benchmarking across industries.

With the release and publication of approved OFP models, The Open Group expects to see increased adoption of these models by many companies for carbon footprint data measurement.

4 General Requirements

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GR001</td>
<td>The modeling tool should be installed and managed by the vendor or designated third party under the Software as a Service model (SaaS)</td>
</tr>
<tr>
<td>GR002</td>
<td>Facility to integrate with the Open Group collaboration system and allow access to members in a secure way</td>
</tr>
<tr>
<td>GR003</td>
<td>The Modeling Tool shall have no restriction on the number of members connecting to participate in data model development activities</td>
</tr>
<tr>
<td>GR004</td>
<td>Secure logons to authenticate users and protect sensitive data, secure environment</td>
</tr>
<tr>
<td>GR005</td>
<td>Must integrate with The Open Groups SSO system through a standard protocol</td>
</tr>
<tr>
<td>GR006</td>
<td>Ensure that all sensitive transactions in the web browser are done using a secure protocol (e.g. HTTPS).</td>
</tr>
<tr>
<td>GR007</td>
<td>Ensure data is protected down to the database level.</td>
</tr>
<tr>
<td>GR008</td>
<td>Backup and recovery of data with minimal disruption to the business</td>
</tr>
<tr>
<td>GR009</td>
<td>Transactions can be committed or rolled back without causing data inconsistency</td>
</tr>
<tr>
<td>GR010</td>
<td>Intuitive to use with online help where appropriate</td>
</tr>
<tr>
<td>GR011</td>
<td>Provide clear error messages</td>
</tr>
<tr>
<td>GR012</td>
<td>Provide a scalable solution (storage, load, users etc.)</td>
</tr>
<tr>
<td>GR013</td>
<td>Should allow real-time integration with industry standard reporting tools; MS Excel, Crystal Reports etc.</td>
</tr>
<tr>
<td>GR014</td>
<td>Transfer of sensitive data should be done in a secure manner (e.g. encryption)</td>
</tr>
<tr>
<td>GR015</td>
<td>Provide a highly configurable solution that can be tailored to the users’ needs</td>
</tr>
<tr>
<td>GR016</td>
<td>Provide different levels of user access and control</td>
</tr>
<tr>
<td>Ref No</td>
<td>Description</td>
</tr>
<tr>
<td>--------</td>
<td>-------------</td>
</tr>
<tr>
<td>IT001</td>
<td>Modeling Tool availability for members of The Open Group should be 24/7</td>
</tr>
<tr>
<td>IT002</td>
<td>Modeling Tool should have the Backup and recovery feature for all data.</td>
</tr>
<tr>
<td>IT023</td>
<td>Should maintain the security and confidentiality of all information, including compliance with GDPR.</td>
</tr>
<tr>
<td>IT024</td>
<td>Average page load time under 5 seconds. Speed of interactive response, for model viewing and commenting criteria should be similar.</td>
</tr>
<tr>
<td>IT038</td>
<td>A scalable solution for a targeted number of users that should not affect response time.</td>
</tr>
</tbody>
</table>
5  **Collaborative Modeling Tool Requirements**

The following details the requirements for The Open Group’s Collaborative Modeling Tool. The requirements are grouped into general requirements and more specific requirements for each component. The ordering of requirements within each section is not significant.

### 5.1 Modeling Tool Requirements

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MT01</td>
<td>Modeling Tool shall support the ArchiMate® Modeling Language</td>
</tr>
<tr>
<td>MT02</td>
<td>Modeling Tool shall support the Unified Modeling Language® (UML)</td>
</tr>
<tr>
<td>MT03</td>
<td>Modeling Tool shall support true model development (not just drawings)</td>
</tr>
<tr>
<td>MT04</td>
<td>Modeling Tool shall support full XMI file exchange support (import, export – including model splitting/merging).</td>
</tr>
<tr>
<td>MT05</td>
<td>Modeling Tool shall support full ArchiMate Open Exchange File Format support (import, export – including model splitting/merging).</td>
</tr>
<tr>
<td>MT06</td>
<td>Modeling Tool shall provide capability to validate constructed models.</td>
</tr>
<tr>
<td>MT07</td>
<td>Modeling Tool shall provide capability to generate XSD, JSON and RDFS schemas.</td>
</tr>
<tr>
<td>MT08</td>
<td>Modeling Tool shall support version control of Models in a repository, such as GitLab</td>
</tr>
<tr>
<td>MT09</td>
<td>Modeling Tool shall support simultaneous collaboration of multiple users</td>
</tr>
<tr>
<td>MT10</td>
<td>Modeling Tool should handle the consistency checks on multiple model updates from different users, and should be able to handle parallel updating on the same model.</td>
</tr>
<tr>
<td>MT11</td>
<td><strong>Modeling Tool independency</strong> - any tool compliant with the ArchiMate standard should be used for modeling and output sharing.</td>
</tr>
<tr>
<td>MT12</td>
<td><strong>Modeling Tool independency</strong> - any tool compliant with the UML standard should be used for modeling and output sharing.</td>
</tr>
<tr>
<td>MT13</td>
<td>Modeling Tool shall allow users to take the model offline and support model exchange via the XMI export facility for the model to be open in another UML compliant tool.</td>
</tr>
<tr>
<td>MT14</td>
<td>Related with the requirement in row 9 above, Modeling Tool shall also handle an import functionality that should automatically change the font upon importing to the centrally selected font for the model.</td>
</tr>
<tr>
<td>MT15</td>
<td>Modeling Tool should allow users to take the model offline having the ArchiMate Exchange File Format export facility for the model to be open in another ArchiMate compliant tool.</td>
</tr>
</tbody>
</table>
Related with the requirement in row 11 above, Modeling Tool should also handle an import functionality that should automatically change the font upon importing to the centrally selected font for the model.

Modeling Tool shall support generation of HTML-based online documentation.

Modeling Tool shall provide capability to export diagrams as PNG and SVG files.

### 5.2 Modeling Tool Desirable (Optional) Requirements

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>DESIRABLE – OPTIONAL</td>
</tr>
<tr>
<td>MTD01</td>
<td>Related with previous requirements, Modeling Tool might allow users to reload their model with the changes posted off-line, so they would be loaded in the system with the proper synchronization mechanism with the proper integrity considerations</td>
</tr>
<tr>
<td>MTD02</td>
<td>Should allow team collaboration functions – discussion threads about specific topics</td>
</tr>
<tr>
<td>MTD03</td>
<td>Should be friendly, so users can easily identify the different sections in the model</td>
</tr>
</tbody>
</table>

### 6 Proposal format

All responses to this proposal must be submitted in Microsoft ® Word format.

#### 6.1 Multiple Proposals from a Single Respondent

Each Respondent may submit more than one proposal.

In this case, please complete a separate proposal for each proposed solution, detailing very clearly the differences between them.

### 7 Technical proposal

Please detail the technical solution here.
Please note, whether or not the technical solution meets all the conditions defined above. If specific additional technical considerations are needed that should be specified in the proposal, and should not imply additional costs beyond the ones defined in the Price proposal below.

8  Price proposal
Please detail the time and cost of this proposal. All major milestones and items must be detailed and considered in the final price.

9  Submission deadline
All responses must be submitted to The Open Group no later than 4 weeks after receiving this RFP. Within this time period, The Open Group may discuss any issues in advance of the RFP being submitted.

10 Submission Address
All responses must be emailed to: ofp-rfp-response@opengroup.org

11 For Additional Information or Clarification
For additional information or clarification on any information within this RFP please email: ofp-rfp-response@opengroup.org

12 Evaluation and Selection
The Open Group will conduct a comprehensive, fair, and impartial evaluation of proposals received in response to the RFP.

The Open Group RFP evaluation committee must evaluate each proposal that is properly submitted based on the information and material contained in that proposal and make recommendations for selection to The Open Group management.

12.1 Information from Other Sources
The Open Group and the evaluation committee reserve the right to obtain information concerning a respondent, which The Open Group or the evaluation committee deems pertinent to the RFP, and to consider such information in the proposal evaluation.

12.2 Clarification Process
The evaluation committee may request that a respondent clarify any ambiguities or clarify any other information presented in its proposal.

Requests for clarification may occur throughout the proposal evaluation process. A request for clarification by the evaluation committee must include appropriate references to the RFP or the respondent's proposal.
A respondent's response to a request for clarification must be in writing and shall address only the information requested.

The respondent may not modify, alter, or revise its proposal through its response to a question.

A respondent must not include any cost information in response to a request for clarification, unless the request for clarification relates specifically to the respondent's proposal.

The inclusion of cost information in a response to a request for clarification relating to the respondent's technical proposal may result in disqualification of the respondent.

A respondent must respond to a request for clarification within the time required in the request. Usually, no more than three (3) business days will be given for the respondent to prepare and submit its response.

12.3 **Presentations, Demonstrations and Site Visits**

The Open Group may require a respondent to demonstrate its proposed solution. The demonstration must show the Respondent's general ability to meet the requirements of the RFP. The Open Group will select the site of the Demonstration.

13 **Terms and Conditions**

By submitting a proposal, the respondent certifies that it agrees to be bound by the terms and conditions contained in the RFP, except as specifically noted in exceptions that are attached to any response. The Open Group reserves the right to evaluate any exceptions as to their satisfaction of The Open Group’s requirements.

13.1 **Confidentiality**

If a proposal includes any information that constitutes a trade secret of the respondent, or constitutes security-related information that cannot be disclosed without compromising the security interests of the respondent (or of The Open Group), such information must be clearly marked as CONFIDENTIAL.

An entire page or paragraph in which such information appears should not be marked "CONFIDENTIAL" unless the entire page or paragraph consists of such confidential information. Only the confidential portion(s) should be so identified and marked.

It is the responsibility of the respondent to defend the confidentiality of its trade secrets through the judicial process.

The Open Group shall hold confidential any material contained in sections so marked.

13.2 **Costs Associated with the Proposal**

A response to this request for proposal is at the service provider’s own cost and is not refundable under any circumstances.

13.3 **Litigation and Investigations**

Respondents must list and summarize, as part of their proposal, all pending litigation, administrative or regulatory proceedings, or similar matters that may affect the ability to produce and/or deliver the desired product or services.
Failure to disclose such matters may result in rejection of the proposal or in termination of any subsequent agreement. This is a continuing disclosure requirement; any such matter commencing after submission of a proposal and, with respect to the successful respondent after agreement, must be disclosed in a timely manner in a written statement to The Open Group.

13.4 Proposal Content
Respondents should provide The Open Group with information, evidence, and demonstrations in a manner that best serves the stated interests of The Open Group.

All items relevant to the proposal (as appropriate) must be included in the final delivered system upon installation unless otherwise specified (with the exception of options not selected by The Open Group).

Each proposal must identify any requirement of the RFP that the respondent cannot satisfy.

13.5 Response to Requirements
The proposal should provide all of the information concerning the particular subject area that the respondent believes would be helpful to The Open Group in determining its ability to meet the specifications or perform the requirements.

In the respondent's description of its services, the respondent must state whether a subcontractor or consultant will provide any of the critical deliverables and/or services.

If any of the critical deliverables and/or services will be provided by a subcontractor or consultant, the respondent must state the name of the subcontractor or consultant, and state the function or service that will be performed by that subcontractor or consultant.

13.6 Price Proposal
The price proposal must contain all of the information required in Section 8 (Price Proposal) of the RFP. A price proposal must be complete. A price proposal that does not provide all information requested may be rejected.

13.7 Modification/Withdrawal of a Proposal
A respondent may modify or withdraw a proposal by written notice received prior to the proposal submission date specified in the RFP.

A proposal may also be withdrawn or modified in person by the respondent before a specific time (as specified by The Open Group), or the proposal submission date whichever is the sooner.

The Open Group shall not consider verbal telephone requests to withdraw or modify a Proposal.

After the proposal submission date and time, a proposal must not be modified, except to the extent of a respondent’s response to a request for clarification pursuant to the clarification process of the RFP.

13.8 Acceptance Period
Proposals must remain valid for a 90 day period, following the proposal submission date.

Proposals containing a term of less than the number of days specified above may be rejected.
The contents of the RFP and the proposal will become binding obligations in the event of an agreement between the parties.

Failure of the successful respondent to accept these obligations may result in cancellation of any agreement between the parties.

13.9 Accounts and Financial References

As part of the procurement process the vendor should make available 3 years of accounts and financial references, plus copies of PI and Commercial Insurance documents to help assess the long-term viability of any business arrangements.