ASAMとは
About ASAM

ASAM概要/About ASAM

- ASAM e.V.（Association for Standardization of Automation and Measurement Systems）は、自動車業界内で標準化を積極的に推進している非営利団体です。
  ASAM e.V. (Association for Standardization of Automation and Measuring Systems) is a non-profit organization that actively promotes standardization within the automotive industry.

- ASAMは、OEM、サプライヤ、ツールベンダ、サービスプロバイダ、研究機関など、すべての利害関係者間の協働を可能にする中立的なプラットフォームを提供します。
  ASAM provides a neutral platform that enables collaboration among all stakeholders: OEMs, suppliers, tool vendors, service providers and research institutes.

- ASAMの目標は、一般的で非競争的な課題を特定し、それらを共に解決することです。
  The goal is to identify common, non-competitive challenges and to solve them together.

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ASAMの標準化/ASAM Standardization

- ASAMは、（ISO / SAEなどのプロセスレベルの標準ではなく）**実装レベルの標準**に焦点を合わせています。
  ASAM focuses on **implementation level standards** (rather than the process level standards of e.g. ISO/SAE)

- ASAM標準は**推奨事項**であり、規制の枠組みに影響を与えません。
  ASAM standards are **recommendations**, they do not have an impact on regulatory framework

- ASAM標準は、**オープンで非競争的**なグループで開発されています
  ASAM standards are developed in **open, non-competitive** standard development groups

- ASAM標準化プロジェクトは**メンバーシップ主導型**です（ASAMメンバーによって開始および開発されます）
  ASAM standardization projects are **membership driven** (initiated and developed by ASAM members)

- ASAM標準化プロジェクトはプロジェクトの提案書である、Project Proposalドキュメントを提出することで始めます。
  The project can start with a submitted document, **Project Proposal**.

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Project Proposalとは
About Project Proposal

Project Proposal

モチベーション:なぜこの標準(の更新)が必要か / Motivation why the standard is needed (updated)

2.1.1 Background

Safety standards in the automobile field require compliance with ISO 26262, and an easy-to-understand explanation is required on how safety is ensured. The safety concept required by ISO 26262 requires the specification of safety requirements to be realized in a semi-formal notation, by using mathematical notation such as equations, graphs, diagrams, flowcharts, and timing diagrams, or graphical notation such as SysML. It needs to be formalized. The main structure of safety activities in ISO 26262 are "Requirements" and "Elements", but existing notations such as SysML have various expressions according to user preferences when expressing the relationship between requirements and architecture, is possible. So that, the need for unified notation was required.

The SCN-SG has been established to meet these challenges, and the SCDL is being formulated. Participating companies in this study group such as Automotive OEMs, Tier1s, semiconductor manufacturers, consultants, tool vendors, third-party certifiers, and tool vendors, SCDL has been used in safety activities, but nowadays, beyond the framework of this study group, it has found usage at development filed. Furthermore, tools that support SCDL have been gradually expanded, and by providing the SCDL XML format, data exchange through tools collaboration have been being realized. In the future, the need to ensure the sustainability of the SCDL specification has arisen as a common issue in situations where the use of SCDL has become widespread and further development is expected. In order to ensure and explain safety, it is necessary to have a global understanding without depending on a specific region or environment, and there is an increasing need for international standardization.

As the development of autonomous driving and connected technology continues to expand in the future, the need for visualization of safety architecture has become important.

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Project Proposal

ユースケース:SCDLを取り巻く活動とは / Use case: Activities around SCDL
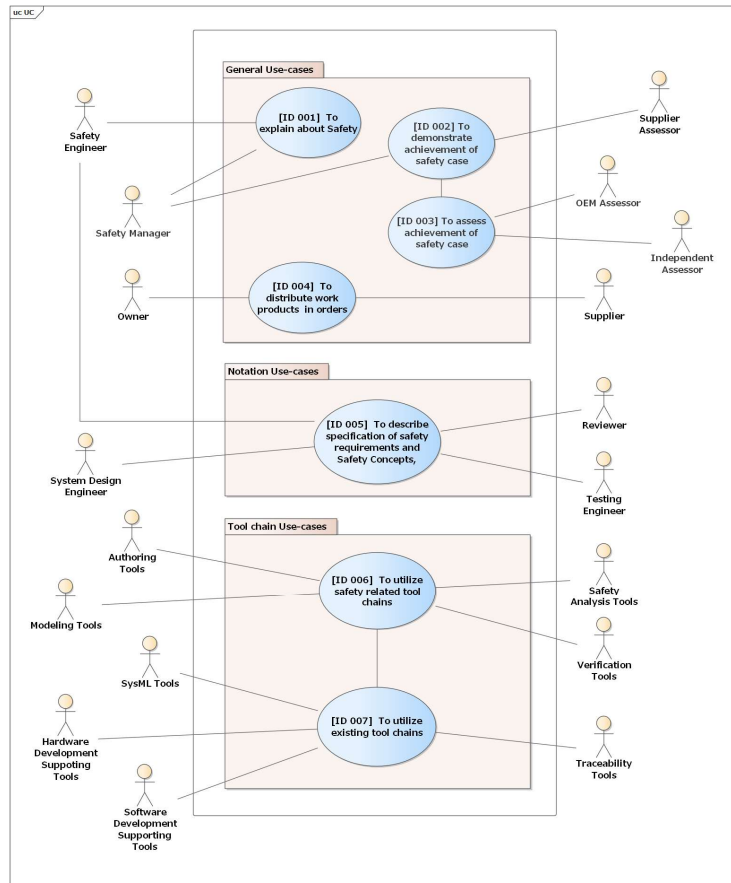
- 左図のようなUMLユースケース図でSCDLを取り巻く活動を示します。
  The SCDL use case explains UML use case picture on the left side one.

- ユースケースを元にどの様に標準化するかが決まります。
  The standard is implemented by the use case picture.

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Project Proposal

要求事項、技術内容、リソース、スケジュール / Requirement, Technical Contents, Resource, and Schedule

- 要求事項：ユースケースに基づく要求は何か？に対する答え
  Requirement: The answer to what is required along with the use cases?
  例/Example：
  The notation shall correspond to ISO 26262 element structure.

- 技術内容：どの様な技術およびその内容が使用されるのか？に対する答え
  Technical Contents: The answer to what kind of technology and its contents are taken?
  例/Example：
  The XML schema is taken by machine readable SCDL format.

- リソース：標準化プロジェクトに参加するメンバーと作業量
  Resources: Participants of the standardization project and estimated committed work by man days

- スケジュール：作業項目とそのスケジュール
  Schedule: Tasks for completion of the standard and schedule of each task

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まとめと次のステップ/ Summary and the next step

- ASAM SCDL V1.6.0から検討している３つの領域における拡張を紹介いたしました。
  ASAM SCDL V1.6.0 and the three expansions for the next generation have been introduced.

- ３つの領域における拡張を元にASAM SCDLをバージョンアップするための標準化プロジェクトとして進めます。
  We are going to start a new standardization project based on the three expansions. ASAM SCDL new version will be released by the project.

- ASAMの標準化プロジェクトを進めるためのProject Proposalについて紹介しました。
  Project Proposal document, which starts ASAM standardization project has been introduced.

- Project Proposalの内容を決定するためのWorkshopとしてProposal Workshopを今後開催します。
  We are going to hold a Proposal Workshop to determine contents of Project Proposal.

- Proposal Workshopへの参加、更には標準化プロジェクトへの参加をお願いします。
  We will invite you to the workshop and the following standardization project.

- 本日はありがとうございました。何か在りましたら **yoshiaki.shoi@asam.net** 迄ご連絡ください。
  Thanks for your participation today. We you have any question or request, please contact **yoshiaki.shoi@asam.net**.

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Thank you!

For more information
on ASAM visit

www.asam.net

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