Draft for Public Comment

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Interested committees:

Title: Draft BS ISO 16499-1 Sustainable mobility and transportation - Automated mobility using physical and digital infrastructure. Part 1: Service role architecture.

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Introduction

This draft standard is based on national and international discussions. Your comments on this draft are invited and will assist in the preparation of the consequent standard.

For international standards, comments will be reviewed by the relevant UK national committee before sending the consensus UK vote and comments to the international committee, which will then decide appropriate action. If the international standard is approved, it is usual for the text to be published as a British Standard.

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Template for comments and secretariat observations

Date: xx/xx/20xx	Document: ISO/DIS xxxx

1	2	(3)	4	5	(6)	7
MB	Clause No./ Subclause No./Annex **(e.g. 3.1)**	Paragraph/ Figure/Table/Note	**Type of comment**	**Commend (justification for change) by the MB**	**Proposed change by the MB**	**Secretariat observations on each comment submitted**
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	

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DRAFT International Standard

ISO/DIS 16499-1

ISO/TC **268**/SC **2**

Secretariat: **JISC**

Voting begins on:
2025-01-23

Voting terminates on:
2025-04-17

Sustainable mobility and transportation — Automated mobility using physical and digital infrastructure —

Part 1:
Service role architecture

ICS: 03.220.01; 13.020.20

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Foreword

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This document was prepared by Technical Committee ISO/TC 268 /SC 2, Sustainable mobility and transportation.

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Introduction

The role of TC268/SC2 is to create necessary standards to create/implement/manage/operate/maintain efficient sustainable mobility and transportation for smart city and communities by utilizing already created standards by ISO/TC22/TC204/TC269 and IEC/TC9. The standards created by the TC268/SC2 are not superseding those standards created by those TCs but are complement to those standards.

To create/implement/manage/operate/maintain sustainable mobility and transportation for smart city and communities by utilizing already created standards by ISO/TC22/TC204/TC269 and IEC/TC9, there are gaps which are needed to be filled by the standards created by TC268/SC2.

Standardization of the service role and functional model is necessary for the introduction of the overall automated mobility services to support land/water/air mobility users using as a means of moving people, goods, and services in smart cities and communities including urban and rural areas in the mode on land (road and guided way), on water and in the air.

There are several standards describing automated mobility services. However, none of these have discussed overall service role and functional model and this document is to describe such role model so that it can contribute to guide the international standard users to create more efficient service without inventing new wheels. This document makes international standard usages to be realized where users are working solving issues in the whole automated mobility service system which utilizes the physical and digital infrastructure in the smart cities and communities.

There are business use cases regarding the automated mobility services currently emerging and more variations are coming to be deployed. Various role and functional model presentation methodologies are possible to be used and there is a need to have common understandable role and functional model presentation document. This document describes common service role and functional model presentation. Future emerging business use cases can refer this document as baseline document. This document does not hinder the development of future business cases but assists them.

ISO16499 series of standards comprises of ISO/TR 16499-1Sustainable mobility and transportation – Automated mobility using physical and digital infrastructure –Part 1: Service role architecture, Part 2: gap analysis and service concept of operations, Part 3: service components.

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