
**Intelligent transport systems — Service
architecture of probe vehicle systems**

*Systèmes intelligents de transport — Architecture de services des
systèmes de véhicules traceurs*

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Foreword

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This document was prepared by Technical Committee ISO/TC 204, *Intelligent transport systems*.

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Introduction

More and more attention has been paid to safety, comfort, mitigation of impacts on the environment, and energy efficiency in transport systems. The use of probe data (specified in ISO 22837) is considered to be a key factor of a solution for the above issues.

This document defines a service architecture of probe vehicle systems (PVS). PVS functionalities can be implemented in an ITS station unit specified in ISO 21217 applying applicable protocols specified in other standards. Examples of applicable protocols are the local dynamic map specified in ISO 18750 and generic ITS station facilities layer services specified in ISO/TS 17429. The service architecture classifies ITS services which using PVS. This classification defines service domains for cooperation between PVS.

This document does not prescribe a physical communication medium for transmitting data/information to or from vehicles. This document is intended to be independent of any particular communication medium and to be compatible with any medium that is selected by system developers.

This document focuses on services that can be developed using public sector probe data that are generated by vehicles. The private sector can offer additional applications that require sign-in and identification; however, this document focuses on public sector applications that can be developed using anonymous probe data (specified in ISO 24100).

This document is an extension towards more general and global applicability of FHWA-JPO-13-091.

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