

Integration in Action



Urban Traffic Management and Control

Background

Launched in 1997, the Urban Traffic Management and Control (UTMC) initiative, funded and led by the UK Department for Transport, developed and trialled an open and modular approach to the design and implementation of Intelligent Transport Systems (ITS)

Capabilities of UTMC Systems

Within UTMC systems, a common approach to data management enables the integration and management of intelligent transport systems including:

Strategic network management, facilitating timely operator response to changes in network conditions.

Comprehensive performance monitoring, allowing the benefits of an ITS strategy to be measured through pre and post implementation monitoring and analysis.

Traveller information, to help with accessibility to work, health, leisure and education via the web, mobile devices, public kiosks and other channels.

Congestion monitoring, including management of information to enable targeted investment.

Streamlined fault management, for all integrated systems, enabling faster fault resolution and improved equipment availability.

Consolidated asset management, a single inventory of ITS equipment.

The adoption of a common approach to data management early in the procurement cycle of urban ITS, provides a powerful means of migration, preserving existing investment in legacy systems. New or replacement applications can be introduced as and when needed or affordable.

UTMC Achievements

Framework Technical Specification – development of a framework technical specification which presents the core technical standards recommended for use by UK Traffic Managers in their systems.

Objects Registry - provides format standards for shared data (ie data communicated between applications of a UTMC system, or between a UTMC system and an external system) through:

- holding definitions of current UTMC Objects, and making them available to users;
- receiving submissions for potential new UTMC Objects, and coordinating consultation as necessary;
- facilitating contact between Object developers;
- advising on changes to potential new UTMC Objects;
- registering new UTMC Objects.

It also provides some guidance on how to configure the exchange of data.

Outreach – Every year, a UTMC Conference is held which is a 'must-attend' event for all involved in UTMC. Workshops are also conducted when appropriate.



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UTMC Development Group



Management Group Structure (2009 – 10)



Local Government	National Bodies	Suppliers
Glasgow Hampshire Kent Nottingham Reading Warrington	DfT Transport Scotland Transport Wales Northern Ireland Roads Service Highways Agency ITS(UK)	Atkins Envitia VMS Ltd

Set up in 2003, the main aim of UTMC Development Group (UDG), whose membership is open to UK Local Authorities and UTMC suppliers, is to facilitate the development and implementation of UTMC systems.

Overall, UTMC has helped Local Highway Authorities achieve their goals by adopting an appropriate, but not over constraining, set of standards to allow users, suppliers and integrators of UTMC systems to plan and implement systems cost-effectively in an open market.

However, due to the changing requirements of stakeholders, a fresh approach is now required to consider more than just the urban environment, it is now becoming increasingly important to consider the urban/inter-urban environment and end to end journeys.

Rather than looking at these environments in isolation, an integrated approach is the way forward and this is where the UDG steps in.

Working with organisations which include RTIG, ITS(UK), TIH, ITSO and innovITS, the UDG strives to align strategic direction and ensure that a co-ordinated approach is taken by ITS groups nationally and ultimately improve the quality and reliability of journeys for all.

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**UTMC Conference 2009
will be held
in Bristol, UK
10 & 11 December**

For further information, please visit www.utmc.uk.com