



**19134 Geographic information – Location Based Services - Multimodal routing and navigation**

This international standard specifies the data types, and operations associated with those types, for the implementation of multi-modal location based services for routing and navigation services. This standard is designed to specify web services that may be made available to wireless devices through web-resident proxy applications, but is not restricted to that environment.

This standard relies on interoperability between two or more standardized single mode services for tracking, routing and navigation.

The standard is of particular relevance to the following sectors:

Sector	Of particular interest
Developers of GIS products	Network Data Model
Developers of GIS application systems	Transit Data Model
Producers/ suppliers of geographic data	Transit and Network Data Model
Users of geographic data and GIS	Multi-modal Routing and Navigation Packages
Developers of standards	All Packages and Data Models

For further information on this standard and its implementation, please contact:

Tschangho John Kim  
Seoul National University, and  
University of Illinois at Urbana-Champaign  
111 Buell Hall, 611 Taft Dr.  
Champaign, IL 61820, USA  
Tel: +1-217-244-5369  
[t-kim7@uiuc.edu](mailto:t-kim7@uiuc.edu)