

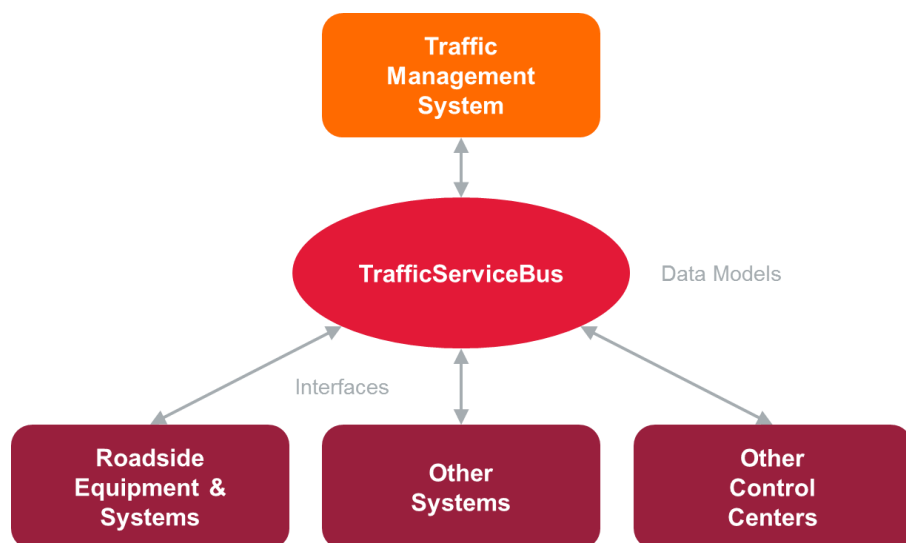
# TrafficServiceBus

Facilitating advanced traffic management systems & information processing

**T**rafficServiceBus simplifies the introduction of new advanced traffic management systems and the largescale processing of traffic information.

Creating and realizing new systems for traffic management and information processing is a complex task. Part of this complexity is generated by the large number of devices that have to be connected to the new system using many different interfaces formats, often spanning many years of development, architectures and standards.

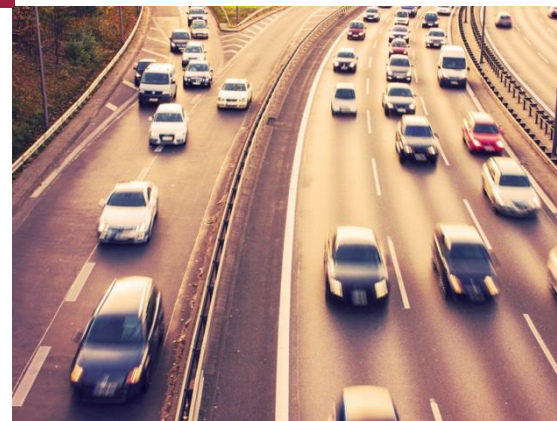
The traffic projects that CGI has worked on over the last 10 years have helped us build knowledge and experience on how to quickly introduce new systems into this complex landscape. This led to the TrafficServiceBus (TSB) product that simplifies the introduction and transition of new traffic management systems. It handles the complexity of existing roadside devices, allowing the new system to focus more on functionality, and less on interfacing and communication.



TSB has facilitated several largescale traffic information and management implementations.

## NATIONAL DATAWAREHOUSE FOR TRAFFIC INFORMATION

TSB collates and distributes all highway related traffic and configuration information for the new NCIS system of the Dutch National Datawarehouse for Traffic Information (NDW). With the assistance of service providers, induction loop and individual passage data is combined with travel time calculations and floating car data to provide an insight into real-time national traffic conditions for the Dutch highway system. This is sent to large numbers of traffic information providers on a per-minute basis, and is used both in traffic centers and by many navigation apps.



### FACT SHEET

#### TRAFFICSERVICEBUS

#### CGI in transport

CGI partners with transport and logistics clients across the globe to provide the expertise and solutions they need to drive energy and process efficiencies, launch innovative offerings, comply with government regulation and enhance overall customer experience.

From aviation, to rail, to road and regional transit, we're at work in various sectors to transform transport and logistics operations and deliver results.

Using TSB has created a number of benefits for the NDW. These include:

- Allowing for faster adoption of new formats for sending and receiving traffic information, creating more flexibility and agility
- Making it possible for service providers to be more easily added to the system
- Increasing traffic information data throughput
- Enabling different sets of traffic information to be more easily assembled for distribution to different clients groups.

## CHARM

CGI, together with Kapsch, is implementing a next-generation traffic management system for CHARM—a consortium of national road authorities from England (Highways England - HE) and the Netherlands (Rijkswaterstaat – RWS). Kapsch TrafficCom and CGI have signed a contract to implement DYNAC, an advanced traffic management system (ATMS). DYNAC will be implemented in all HE and RWS traffic management centers, and will be configured separately for both countries.

TSB is an integral part of this solution. It allows the DYNAC ATMS package to communicate with a complex series of roadside assets, information service providers and other traffic centers, through one single interface. Translation and handling of existing interfaces for roadside equipment is all handled by standard adapters that use TSB.

## Benefits

The following project benefits are realized by using TSB alongside DYNAC:

- TSB facilitates rapid concurrent interface development and tests the connectivity of these interfaces with large numbers of roadside devices.
- It provides a vendor neutral software architecture based on predefined data models and templates to integrate heterogeneous drivers and connected systems.
- TSB allows for an open, scalable communications infrastructure that will allow the road authorities and their chosen integrators to independently add interfaces and services to DYNAC for HE and RWS CHARM systems in the future.

## ABOUT CGI

Founded in 1976, CGI is one of the largest IT and business process services providers in the world. We combine innovative services and solutions with a disciplined delivery approach that has resulted in an industry-leading track record of delivering 95% of projects on time and within budget. Our global reach, combined with our proximity model of serving clients from 400 locations worldwide, provides the scale and immediacy required to rapidly respond to client needs. Our business consulting, systems integration and managed services help clients leverage current investments while adopting technology and business strategies that achieve top and bottom line results. As a demonstration of our commitment, our client satisfaction score consistently measures 9 out of 10.

For more information about CGI, visit [www.cginederland.nl/movesmarter](http://www.cginederland.nl/movesmarter) or email us at [info.nl@cgi.com](mailto:info.nl@cgi.com).