Coming Soon...

Stratos is a continuous development and new features are constantly being developed and existing ones enhanced. Here's just a few of the things we are working on:

- Full integration with InView, Siemens' fault and asset management software
- Mobile Access for the features you need when you're not in the office
- Next generation Vehicle to Infrastructure applications

Regular Software Updates

There is no need to wait for a visit from a support engineer to get the latest version. Regular software updates are planned and along with service releases these are rolled out at off peak times to minimise disruption.

Flexible Deployment Options

Stratos is primarily designed as a hosted solution managed and supported by Siemens. Where complete hardware control is required it can also be deployed on dedicated customer hardware, providing a robust and cost effective solution.

System Requirements

There is no need for a dedicated client machine. Stratos can be accessed from any computer with an internet connection and a web browser (Internet Explorer 11 is recommended) with the freely available Microsoft Silverlight plug-in installed.

For best user experience a display with a minimum resolution of 1920x1080 (Full HD) is recommended.

On Street Equipment Interfaces[1]

ANPR	PIPS, Sicore
Bluetooth	TDC
Car Parks	UTMC MIB 2.01 & UVMS
Environment	TDC
Stratos Outstation	Siemens enhanced
VMS	UTMC MIB 3.01 & UVMS

System Interfaces[1]

Car Parks	UTC, PES, WPS
Communications	Email, SMS & Twitter
Disruptions	Highways Agency Datex II
Environment	Envirowatch, Findlay Irvine, Breathing Space
Siemens RMS	UTMC & Siemens enhanced[2]
Streetworks	EToN 6
UTC	UTMC & Siemens enhanced[2]
DATEX II	Car Parks, Signs, Journey Time

UTMC

Siemens is working with the UTMC Development Group to encourage the adoption of the European Datex II standards as the preferred method of inter system communication for the future. Advantages include enhanced security and wider industry adoption. In the meantime Stratos continues to support the legacy UTMC system to system Corba interface.

Notes
1) For latest list of supported interfaces please contact the sales team
2) Enables enhanced system to system communication and control features to be delivered

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Stratos

Hosted Traffic Management

Siemens proven traffic management systems have been integrated to create Stratos, the most effective solution available today. Developed using the latest cloud-based technology, Stratos delivers scalable real-time traffic management, information and control, ranging from basic monitoring to strategic control of complex urban traffic environments.

Developed by traffic engineers for traffic engineers, Stratos offers a complete and modular solution for Strategic Traffic Management, including Urban Traffic Control, Remote Monitoring, Journey Time and Environmental Monitoring, Variable Message Sign, Car Park, and Disruptions Management and a Public facing website capability.

Reduced Total Cost of Ownership

Stratos is a hosted (cloud-based) solution, meaning there is no need for dedicated servers or client machines, which in turn means reduced capital cost, depreciation of assets and ongoing hardware maintenance costs.

Underlying software operating system; Microsoft Sever and database software including Microsoft SQL are also updated as required without the need to buy new licences.

System security is taken care of with regular threat analysis audits and patch management, which is one less thing to worry about.
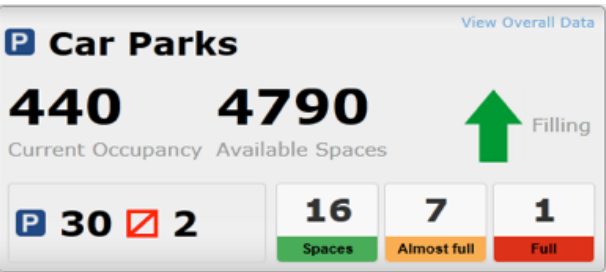
Highly Resilient

Stratos uses the very latest information technology infrastructure to deliver a highly resilient, redundant and scalable solution as standard.

The system delivers a range of different application modules and will continue to evolve to provide a complete solution for all your traffic control and monitoring requirements.

Dashboards

A range of dashboards provide stakeholders with a quick overview of the network status.
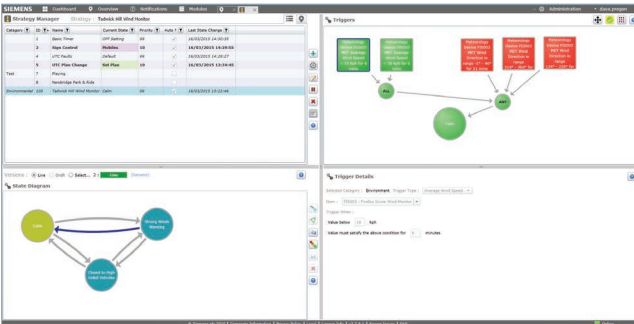

Notifications Centre

Simplification of workflows, thus reducing time spent in front of the screen is just one way Stratos delivers. The notification centre brings faults, abnormal conditions and reminders to a single screen from all the different Stratos modules.

Strategic Network Management

Stratos provides effective strategic management using visual "drag and drop" methodology. Strategies can be created quickly and effectively to manage the most complex conditions with minimal effort. Using multiple states, with varying priority levels, it is now possible to completely automate routine network management with confidence using Stratos.

Move between states automatically based on a single trigger input or when combinations of multiple conditions are met. Testing is made easy with visual click and check.

The retention of historic versions of your strategies provides complete confidence when evaluating new ideas or methods of control, allowing easy fallback to a previous version if required.
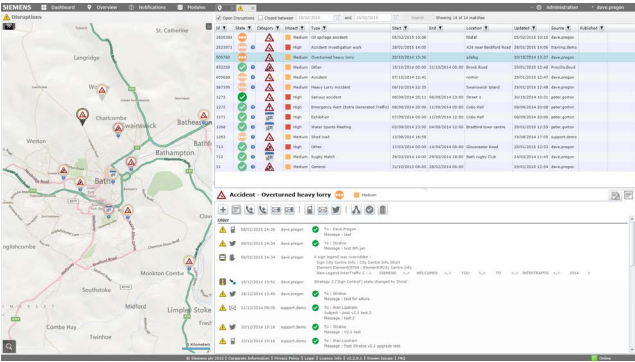
With integration to external systems using industry standard UTMC interfacing, Stratos seamlessly manages the complete network, sharing information with other stakeholders and ensuring trouble free journeys for network users.

Disruptions Management

Stratos provides effective management of Disruptions; Roadworks, Events, Incidents and Collisions with user focused workflows and built in comprehensive audit trails to help streamline the handling process of disruptions.
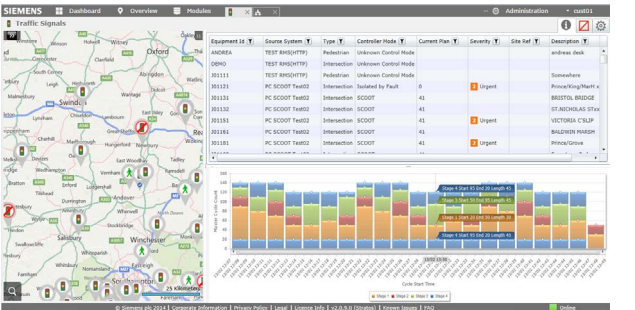
Built in email, text messaging and Twitter allows stakeholders and the public to be informed of potential network disruptions quickly and easily.

Connections to external Streetworks registers using the EToN6 standard, and to other data providers including the Highways Agency using Datex II the Disruptions module helps you take control.

Traffic Signals

The Stratos Traffic Signals module combines the very best of Siemens UTC (PC-SCOOT), RMS and the new Stratos Outstation into a unified user experience.

Connecting Stratos to existing Siemens UTC and RMS systems already enables a single point from which to visualise where the sites are, manage faults, change plans, view current plan status and establish handset sessions to the Outstation or Controller.

The Stratos Outstation and latest firmware release of the ST950 controller now enable a new level of integration with both control and detailed monitoring functions available at the same time.

Plug and Play setup and enhanced security is standard with instation to device communication certification, as well as the option to have managed certificates for user access, enabling changes made via the web pages of the controller and outstation to be tracked.
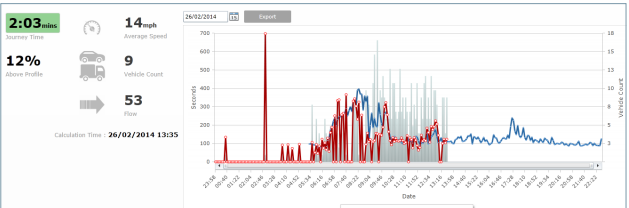
Outstation Management

The Outstation Management module works with the new Stratos Outstation and ST950, enabling new firmware versions to be distributed easily.

Configuration changes, system, fault and MOVA logs are also backed up centrally.

Journey Time Management

Reliable real-time journey information is an essential element of any traffic management system and invaluable to the operator in a traffic control centre to ensure optimal network operation. ANPR cameras, Bluetooth detectors, SCOOT loops and links to third party systems all contribute to the rich source of information which can be integrated and used for traffic management within Stratos.

Create longer routes from different data sources and automatically publish journey time information to signs or use as triggers within Strategy Manager to automatically make changes to your network.
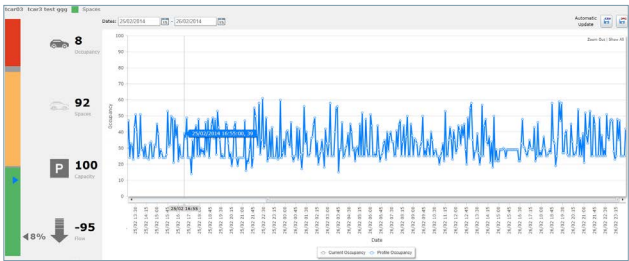
Variable Message Signs

Real time information displayed to drivers through variable message signs is a key component of effective network management, allowing road users to avoid incidents and delays, as well as easily find vacant parking spaces.

Stratos includes comprehensive legend management for signs with messages categorised by size and type. Signs can be set automatically based on pre-determined strategies and the intuitive user interface enables individual or multiple signs to be set quickly, minimising delay in publishing information.

Car Parks

The car park management module of Stratos continually analyses the number of free spaces in each car park, automatically determining the most appropriate messages to be displayed on your variable message signs.

This information is automatically integrated within the wider system for Traffic Managers and is available for use by third party systems as well as for analysis of car park performance and related congestion.
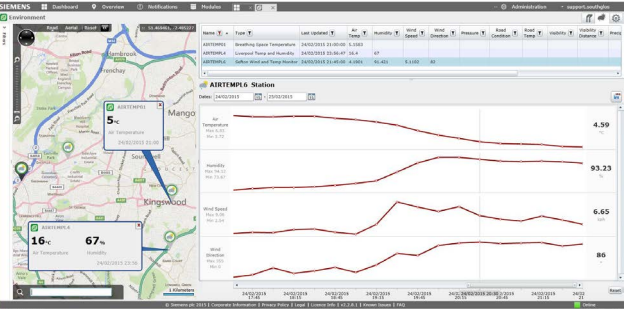
Intelligent On-Street Car Parking

Understanding where on-street car parking spaces are and being able to direct drivers to those spaces can reduce circulating traffic significantly.

Individual sensors are grouped into Bays (a section of road) and then into Zones (comparable to an off street car park). The Stratos Intelligent parking module gives the traffic manager the same set of tools used for off street parking enabling trends to be analysed and driver guidance to be automatically provided.

Links to Car Park payment providers and 3rd party data publishers including Parkopedia complete the package.
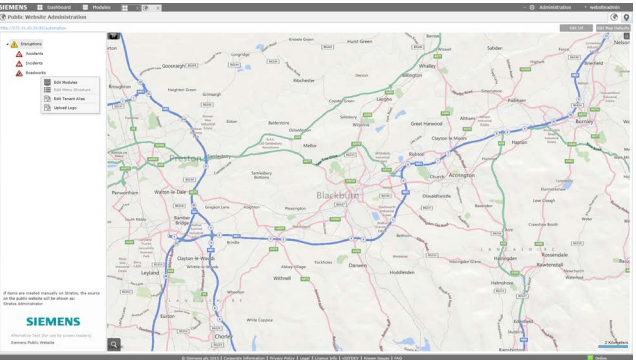
Environmental Monitoring

The environmental module brings air pollution and metrological data into the traffic domain and new graphing tools allow trends to be spotted quickly. Whilst direct links into the Strategy Manager enable decisive action based on measured conditions to be taken quickly and efficiently, adding another dimension to traffic control.

Public Website

Choose defaults including map style, default co-ordinates, zoom levels and a customisable logo. Decide what data types to publish including disruptions, car park status, variable message sign status and journey times. Next add custom points of interest with links to external websites.

The public facing website capability of Stratos, Emerge, is highly configurable and uses the benefits of cloud computing to automatically scale resources as consumer demand changes. Emerge is securely partitioned from the main application protecting the core operational system from external attack.

The user interface has been designed with the Equalities Act at the heart of the design, supporting screen readers, keyboard only operation and high contrast colour schemes.