Annual Workshop

December 2019

DUNEDIN

SNUG
SIGNALS NZ USER GROUP

tsl

BRAUMS
"ITS" Moving Traffic

ATC
Moving Traffic

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SUPPLY

INSTALL

MAINTAIN

www.trafficsys.co.nz

What we do_

SUPPLY

INSTALL

MAINTAIN

TRAFFIC SIGNALS

CIVIL CONSTRUCTION

SAFETY SURFACING

TRAFFIC MANAGEMENT

Solution Partners

ATC
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BRAUMS
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scc
smart city components

TRAFFIC TECH

Choose the future

Choose

ATC Moving Traffic

SCATS®

Aldridge Traffic Controllers Pty Ltd

SCATS® VC6 CONTROLLER

THE MOST RECENT ADVANCEMENT IN SCATS® TRAFFIC SIGNAL CONTROLLERS

ATC Moving Traffic

tsl

ATSC4 developments 2019

First 32 Group controller in NZ.

DBW to more regions.

FAT testing complete for VC6.2

ATC Moving Traffic

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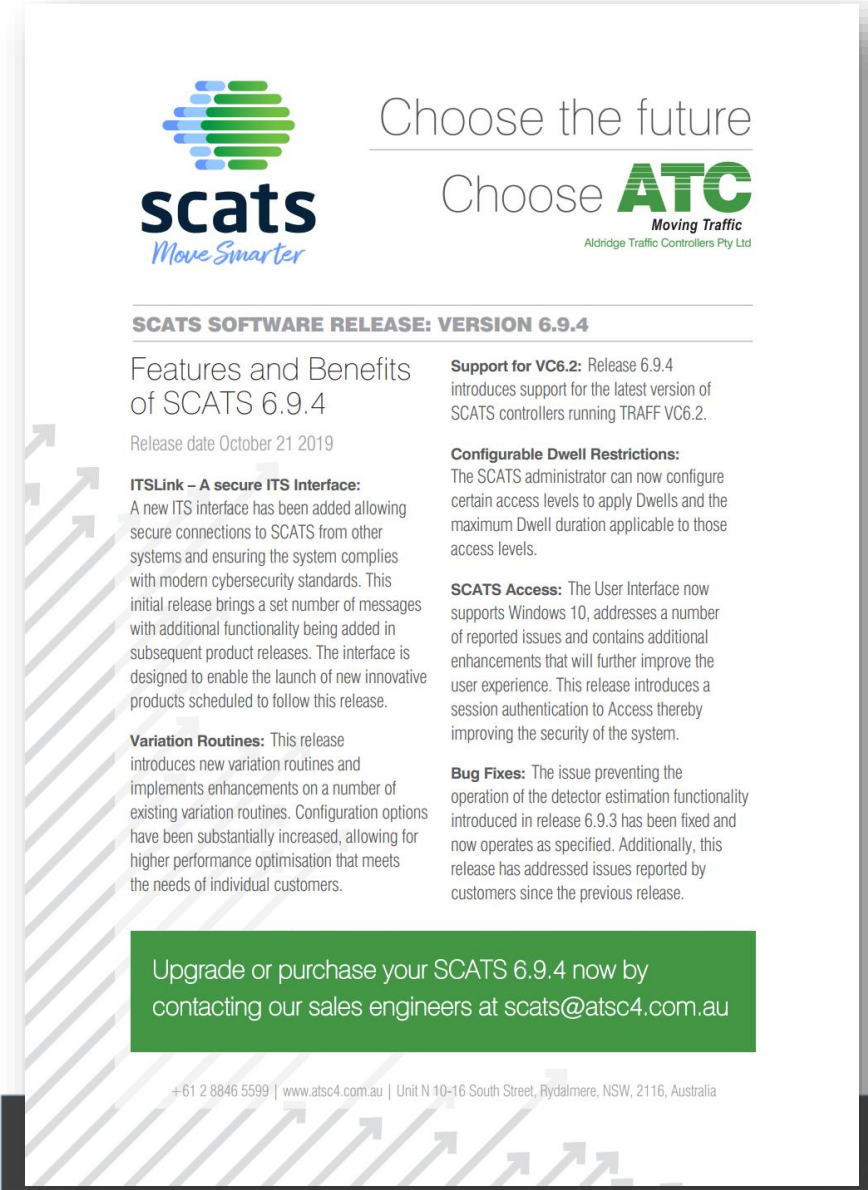
42 Volt DIM By Wire Safety

Extra low voltage Safer for field teams and public.

Dimming Challenges mitigated.

False lamp faults minimised.

Safer by design.



scats
Move Smarter

Choose the future
Choose ATC
Moving Traffic
Aldridge Traffic Controllers Pty Ltd

SCATS SOFTWARE RELEASE: VERSION 6.9.4

Features and Benefits of SCATS 6.9.4

Release date October 21 2019

ITSLink – A secure ITS Interface:
A new ITS interface has been added allowing secure connections to SCATS from other systems and ensuring the system complies with modern cybersecurity standards. This initial release brings a set number of messages with additional functionality being added in subsequent product releases. The interface is designed to enable the launch of new innovative products scheduled to follow this release.

Variation Routines: This release introduces new variation routines and implements enhancements on a number of existing variation routines. Configuration options have been substantially increased, allowing for higher performance optimisation that meets the needs of individual customers.

Support for VC6.2: Release 6.9.4 introduces support for the latest version of SCATS controllers running TRAFF VC6.2.

Configurable Dwell Restrictions:
The SCATS administrator can now configure certain access levels to apply Dwells and the maximum Dwell duration applicable to those access levels.

SCATS Access: The User Interface now supports Windows 10, addresses a number of reported issues and contains additional enhancements that will further improve the user experience. This release introduces a session authentication to Access thereby improving the security of the system.

Bug Fixes: The issue preventing the operation of the detector estimation functionality introduced in release 6.9.3 has been fixed and now operates as specified. Additionally, this release has addressed issues reported by customers since the previous release.

Upgrade or purchase your SCATS 6.9.4 now by contacting our sales engineers at scats@atsc4.com.au

+61 2 8846 5599 | www.atsc4.com.au | Unit N 10-16 South Street, Rydalmere, NSW, 2116, Australia

Resilient optimized transportation networks with SCATS 6.9.4

RMS Released SCATS 6.9.4 October 2019

Full Functionality is only possible using Controller's running VC6.2

ATSC4 is the only controller available on the market to make use of the full potential of SCATS by running VC 6.2 approved for field trial.

ATSC4 VC5 - VC6

Native Ethernet port Operational
Removed requirements for Media converters at roadside and in network configuration.

Optional Bluetooth data collector

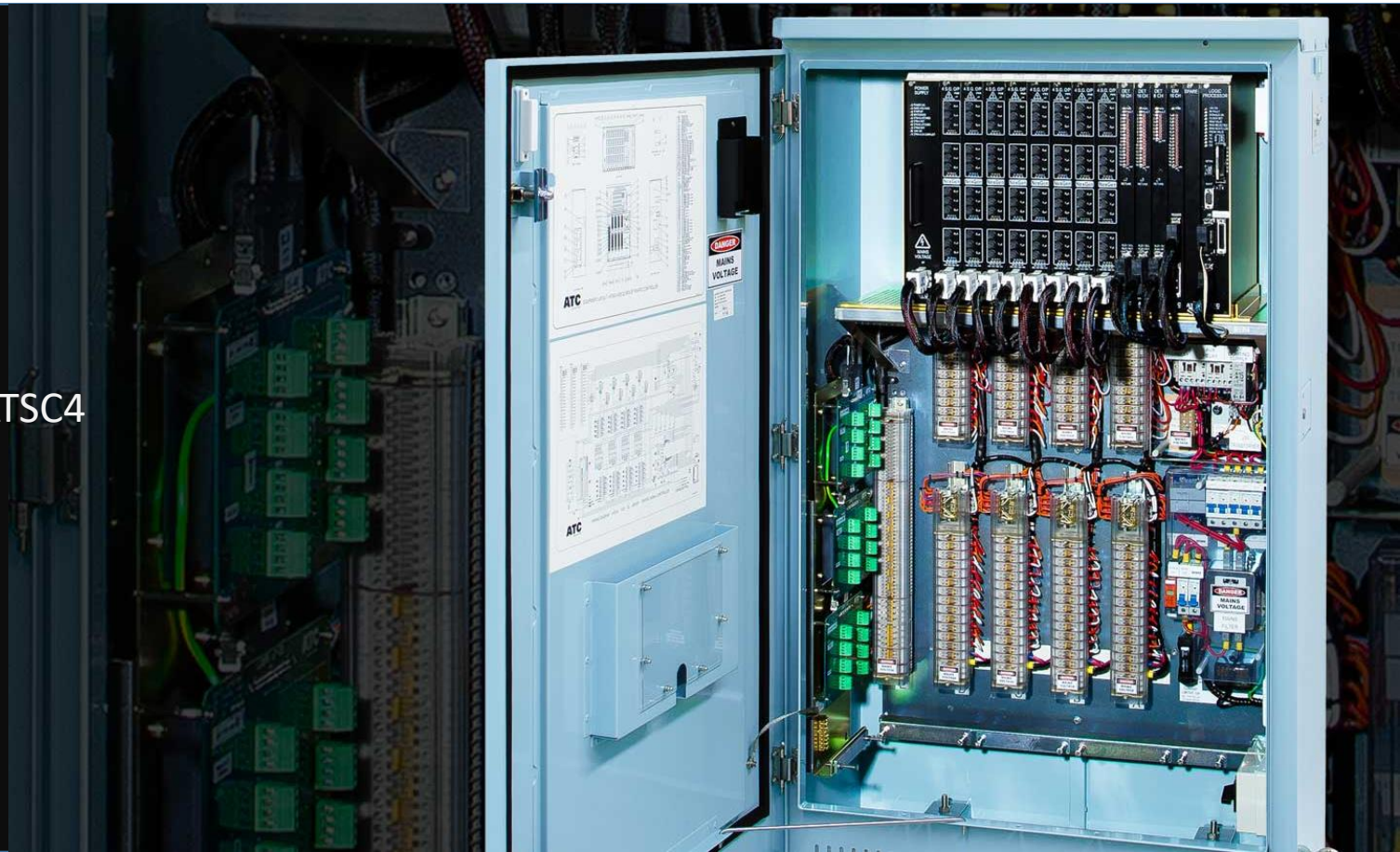
Minor Processor upgrade enables ATSC4 as a simple Bluetooth data collector.

ATSC4 VC6.2 Enabled

Take Advantage Of SCATS 6.9.4 Today

Upgrading to VC 6.2 a cost effective solution with ATSC4

No hardware modification required



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Central light source technology by swarco

Energy saving low wattage.

RMS NSW approved.

42V DBW available now

BRAUMS

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BIO

Official distributor for

Addinsight

BIO

BRAUMS Intelligent Outstation

BRAUMS Intelligent Outstation

Bluetooth & WiFi Data collector

Classic Bluetooth

LAP for paired devices

WiFi

Future-proof with V2X capabilities
Beacon Mode

Available variants

Ethernet and Cellular back haul

Solar and mains powered options

Pole mount and cabinet versions

Area of interest.
Alternatives to induction loops.

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SMART MICROWAVE SENSORS

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Area of interest.
Alternatives to induction loops.

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smartmicro
SMART MICROWAVE SENSORS

- One Single Radar for Both Stop Bar and Advance Detection
- Lane-Specific Advance Detection
- Possibility to Add ETA, Counting, Traffic Statistic and Other Applications

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STOP BAR AND ADVANCE DETECTION IN ONE SINGLE SENSOR

STOP+ADVANCE DETECTION

The three statements above summarize the key differences to other detection products, and explain why smartmicro sensors outperform competitors at intersections. Stop+Advance saves costs both in terms of hardware and installation, by integrating many functions in one.
smartmicro HD and UHD sensors allow adaptive control strategies for intersections, because lane-specific advance detection is possible. Therefore, they represent the most universal detection technology on the market. Covering a wide field of view, the sensor provides presence information at the stop bar and at advance zones.
Stop bar, approach, advance and system loops can effectively be replaced. In addition to simple presence detection, the integrated Event Trigger Module can be used to realize dilemma zone protection, signal priority, signal phase extension and other concepts for modern actuated intersections.

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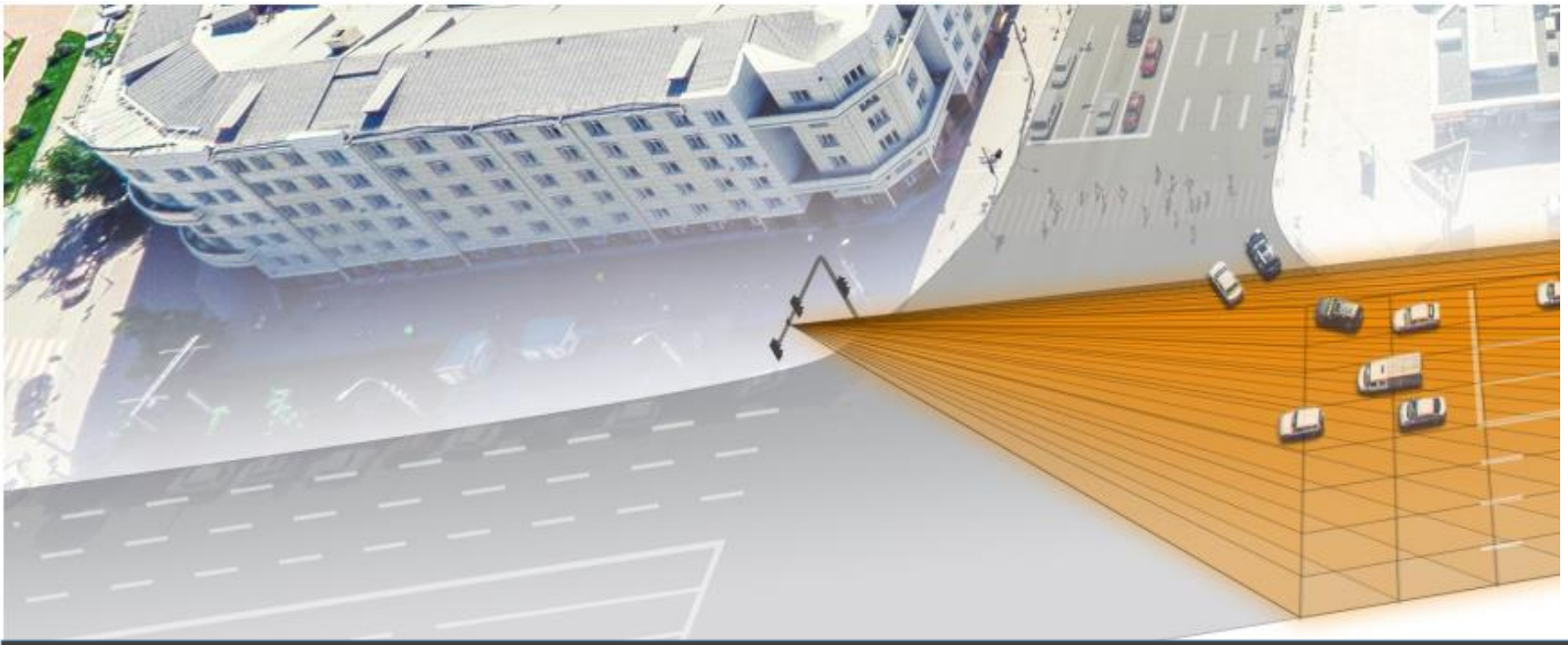
ULTRA-HIGH DEFINITION TRAFFIC RADAR



Volume / Class
- Occupancy
- Average Speed
- 85th percentile speed
- Headway
- Gap

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SMART MICROWAVE SENSORS

UMRR-0C

ULTRA-HIGH DEFINITION TRAFFIC RADAR

100 degree field of view

Up to 450 meters

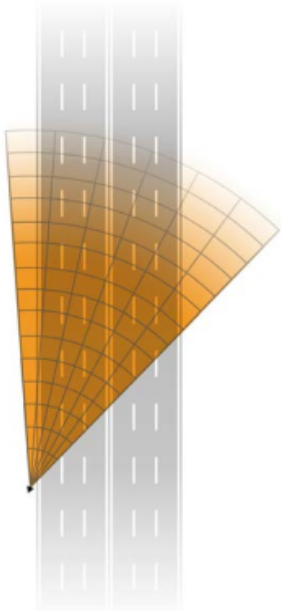
Up to 8 lanes.

The multi-lane 4D object
tracking sensor handles can track up to 256 objects.

4D/UHD capability provides highest resolution capability in scenarios where many
vehicles are closely spaced,
i.e. in dense traffic, traffic jams, stop and-go situations.

UMRR-0C is the highest performance traffic radar available today, it has a wide field of view of up to 100 degree, and at the same time a range of up to 320 m or 450 m (long-range version). It can be used for up to 8 lanes. The multi-lane 4D object tracking sensor provides (X, Y, Z) Cartesian coordinates or polar coordinates range, azimuth, elevation angle, as well as the speed vector simultaneously for up to 256 objects.

4D/UHD capability provides highest reso-lution capability in scenarios where many vehicles are closely spaced, i.e. in many lanes, dense traffic, traffic jams, stop-and-go situations. smartmicro is the only company which has this new 4D/UHD technology available in production, it outperforms any other traffic radar.



4D/UHD
- Measurement in 4 Dimensions
- Separation in Speed
- Separation in Range
- Separation in Angle

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Easy Configuration tool enables 70% of set up prior to establishment on site.

Map import enables suitable site selection.

Site specific limitations to be observed.

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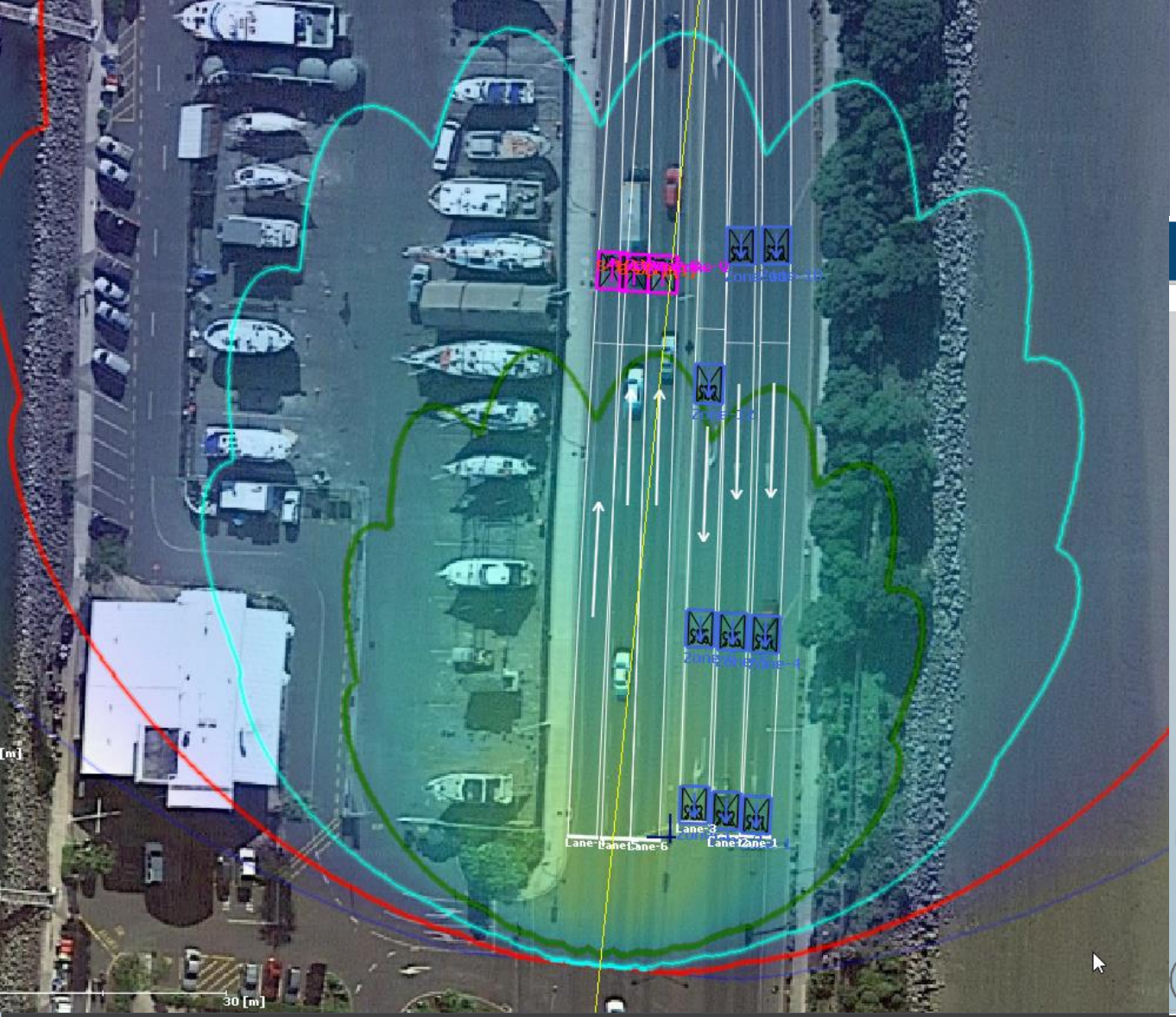

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Event Triggers
... define and configure outputs

Installation | Maintenance

- **Site Plan**
  - Location
  - Overlay Picture
  - Lanes
  - Zones
  - Sensor Positions
  - **Event Triggers**
  - Traffic Statistics
  - Help Lines
- Communication
- Guided Alignment

Do you need assistance? Show Video Don't show again

Sensor: UMRR-1

Zone-1
Zone-2
Zone-3
Zone-4
Zone-5
Zone-6
Zone-7
Zone-8
Zone-9
Zone-10
Zone-11
Zone-12

Zone-1
Width 3.50 m from Lane Lane-1 + 0 + -4.50 m

O-1 [UMRR-1<->Zone-1]

Output
1 16

Function: Presence detection

Object Classes
All

In the meantime Sub surface loops