

SIDRA INTERSECTION Version 9

Demonstration of New Features

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SIDRA INTERSECTION Version 9

Demonstration of Selected Features - 1

❖ User Interface << *Network Tests.sip9*

- New ribbon structure with **Network and Route tabs combined** and **output tabs** for Sites, Networks, Routes and Network Sites
- **Folders in Project Panes** for Sites, Networks and Routes
- **CCGs** shown in a tree and integrated CCG output
- **Export Sites and Networks**
- **Map Extract Tool**
- **Output to PDF**
- **Time-Distance displays** enhanced
<< *Network: Two Signals (Coordination)*
- **Interactive Offsets**
<< *Network: Two Signals (Coordination) (2)* [Clone of the above]

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Demonstration of Selected Features - 2

❖ Output Reports and Displays

- **Roundabout layout:** << *Roundabout Layouts.sip9*
 - Variable size
 - Elliptical roundabout shapesSome limitations exist.
- **Pedestrian crossings** in layout pictures (user options)
<< *Pedestrian Analysis Report.sip9 - Site 1, Site 3, Site 4*
- **Pedestrian Analysis** report << *Pedestrian Analysis Report.sip9 - Site 2*
- **Queue Analysis** report << *Pedestrian Analysis Report.sip9 - Site 2*
- **Fuel, Emissions & Cost** report << *Pedestrian Analysis Report.sip9 - Site 2*
- **Strip Island connections** << *Pedestrian Analysis Report.sip9 - Site 5*
- **Layer order in Network** << *Large Network_Road Level Test.sip9*
(by right clicking the connection arrows and connection bars in the Network Configuration dialog)
- **Movement Displays for Sites, Networks and Routes**
<< *Large Network_Road Level Test.sip9 - Network: Three Signals*

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Demonstration of Selected Features - 3

❖ Model Improvements

- Multiple Phase Sequence analysis (Multiple Sequence Analysis report)
<< Large Network _Road Level Test.sip9 – Site 1
- **Clearance 1** parameter in Pedestrian Timing input.
<< Pedestrian Analysis Report.sip9 - Site 2
- Saturation Flows:
 - **"Apply Saturation Flow Estimation"** checkbox allows user-specified saturation flows to be used without estimation.
<< Large Network _Road Level Test.sip9 – Site 1
 - **Short Lane Model Calibration** options.
- **Merge analysis** for exit short lanes.
- **Zebra Crossing on slip lane.**

SIDRA INTERSECTION Version 9 New Features

DETAILED LISTS

SIDRA INTERSECTION Version 9 New Features

Program Efficiency and Other General Software Changes

- Various measures implemented to increase **processing efficiency**.
- **Database changed** from SQL Compact to SQLite.
Smaller file size. Faster operation.
- **The project database file (sip9)** includes new input and output data. Previous version project files can be imported into Version 9.

SIDRA INTERSECTION Version 9 New Features

User Interface

- New ribbon structure with **Network and Route tabs combined** and **output tabs** for Sites, Networks, Routes and Network Sites.
- **Folders for Sites, Networks and Routes** in Project Panes.
- **CCG Sites shown in a tree structure** in the SITES & CCGs IN NETWORK section of the project Pane under the Network tab. **CCG Outputs** integrated.
- **Optional separate display panes** for Site / Network/ Route / Tools tabs allow control of a large number of reports and displays under the relevant tabs.
- **Manage tab** with new **Manage Output** and **User Interface Options** sections with new Customise Output (Site, Network Route), Displays (Approach, Movement, Lane), Site Output (Detailed Output, Volume Displays), Interface and Layout dialogs.
- **Category Setup** facility under the Tools tab.
- **Export function** added to make copies of selected Sites and Networks in a new Project the function creates.

SIDRA INTERSECTION Version 9 New Features

User Interface

- **Output to PDF**
- **Map Extract Tool** for new Sites to be extracted from Open Street Maps.
- Sequences tab of the Phasing & Timing dialog modified to allow **Multiple Sequence Selection**.
- **Import Phase Sequence**: Phase Sequence can be imported from another Site.
- **Quick Input** for Site, Network and Route data extended with new options.
- **Delete Network with Sites** option introduced.
- **Network selection** in the Selected Network Bar **under the Route tab**.
- Option to **open the default in-dialog displays automatically** in Site and CCG input dialogs.
- **Software Info** section introduced in the File tab.
- **Reset to Defaults** function for Network Analysis Settings.

SIDRA INTERSECTION Version 9 New Features

Output Reports and Displays

- Roundabout layout displays allow **variable size** according to the Central Island Diameter size.
- Roundabout layout displays can show **elliptical roundabout shapes** when Central Island Diameter sizes differ for different approaches (subject to some exceptions).
- **Pedestrian crossings** in layout pictures (user options)
- Layout displays allow **Strip Island connections** as specified by the user in the Lane Geometry dialog.
- **Layer order in Network layout pictures** to control vertical position of roads specified by right clicking the connection arrows and connection bars in the Network Configuration dialog.
- **Site Flows** and **Lane Flows** displays with pop-up boxes similar to those for Networks.
- **Approach Displays** and new style **Movement Displays** for Sites, Networks and Routes.

SIDRA INTERSECTION Version 9 New Features

Output Reports and Displays

- **Pedestrian Analysis report** introduced.
- **Queue Analysis** report introduced.
- **Fuel, Emissions & Cost** report introduced.
- **New CCG reports and displays** including all Sites that belong to the same CCG in the same report or display. These include Movement Summary report and all displays except Lane LOS, Movement Displays in Classic format, Demand and Arrival Flows. Other reports for CCG Sites.
- **Timing Analysis and Saturation Flows reports** enhanced.
- **Critical Movements** shown in the Movement Summary report.
- **Roundabout Circulating Flows** display includes Movement Class details.
- **Exit distances** for external exits added to the Approach Distances display for Networks.

SIDRA INTERSECTION Version 9 New Features

Model Improvements

- **Multiple Phase Sequence analysis** in Site timing calculations. Multiple Sequence Analysis report introduced.
- **Variable Sequence selection criteria** enhanced.
- Pedestrian Timing input enhanced by introducing the **Clearance 1 parameter**.
- **Saturation Flows:**
 - **"Apply Saturation Flow Estimation" checkbox** allows user-specified saturation flows to be used without estimation.
 - **Short Lane Model calibration** options.
- **Efficiency Parameters** including Desired Speed by Movement Class for Sites, Networks and Routes with enhanced modelling of Speed Efficiency, Congestion Coefficient and Travel Time Index parameters.
- **Other important model changes.**

END OF PRESENTATION

Thank you!



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