ATKINS

SatCoder

A SATURN Network Editing Tool

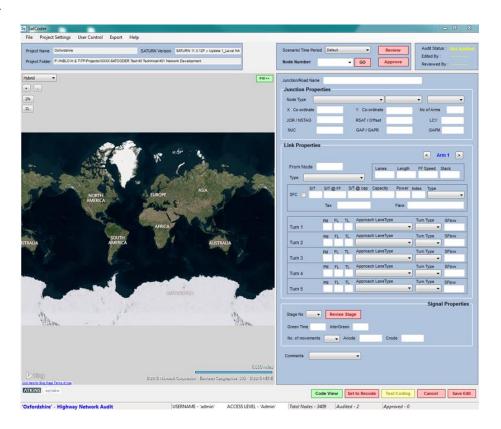


Background

- Tool created by Atkins as a part of SATURNnext programme
 - to edit simulation coding of SATURN Network file in a controlled way
 - carry out the simulation coding in a consistent way by multiple users at the same time seamlessly
- Build upon user feed backs on coding experience
- Developed and tested in-house

SatCoder V0.xx

- First release V0.3 in September 2015
- Latest version V0.5
- Currently used by HERTM consultants



Key Features

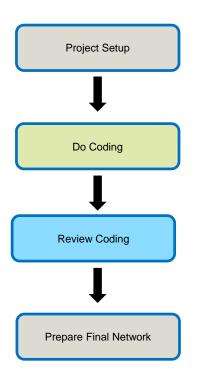
- Windows executable application
- User friendly interface
- Linked with SATURN for testing the code
- Multiple users to work simultaneously
- Template controlled network coding to assure consistency
- Option to add user comments for future reference
- Option to export and import edited node coding
- Quality assurance
- Option for backup

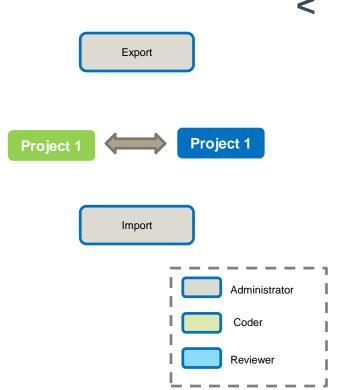
Set up project folders and SATURN Version, create scenarios, add and delegate users - assign nodes, set up coding standards - control file

Edit coding with reference to custom Map background, add comments, test and save to submit the edit when done

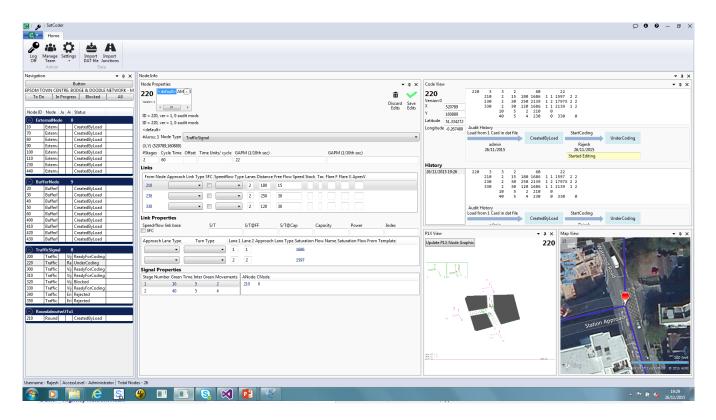
Review / audit the edited code, change if required and approve the coding

Once all nodes audited, prepare the final network – for all scenarios



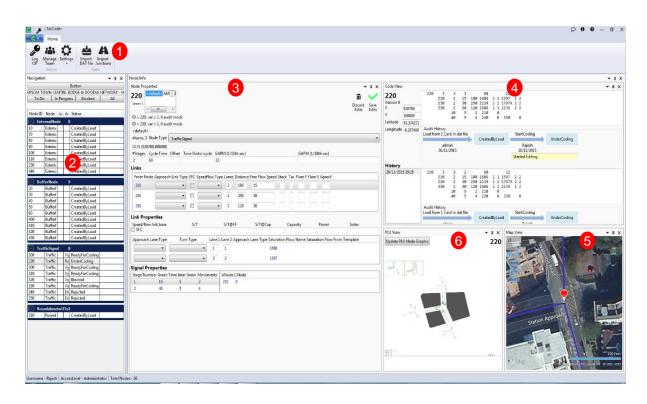


The Future



Sneak Preview

Interface



- 1 Ribbon Control
- 2 Navigation Panel
- 3 Node Property Window
- 4 Code View Window
- 6 Map View Window
- 6 P1X View Window

All the windows can be moved and resized as per user requirements

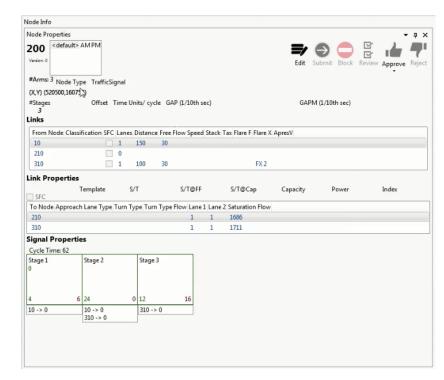
Navigation Panel

- Quickly view all the nodes with their status by type.
- Apply filters
- Assign nodes for coding/reviewing to the team
- Change the status of the node
- Export junction log for reporting



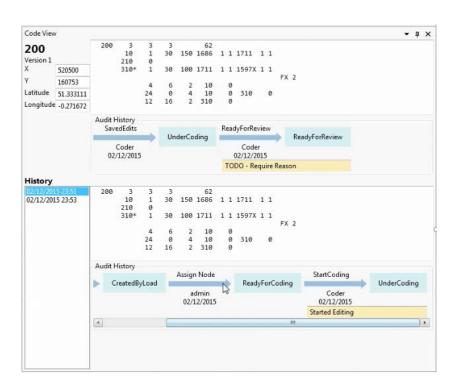
Node Property Window

- Window to view and edit the node properties.
- Switch between scenarios/Time period
- Different templates based on Node type
- Options to change node type
- User friendly signal coding interface



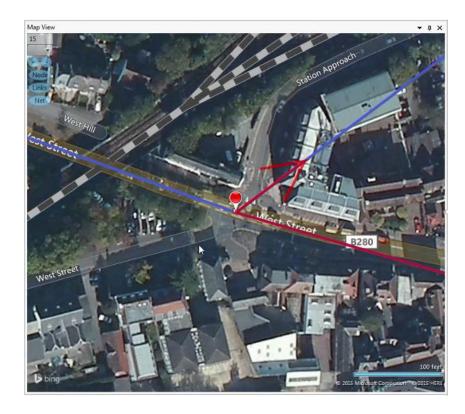
Code View Window

- Panel to view the coding similar to the SATURN dat file format.
- Track changes carried out by coders/ reviewers
- Easy comparison between different versions / time period / scenario
- History with comments



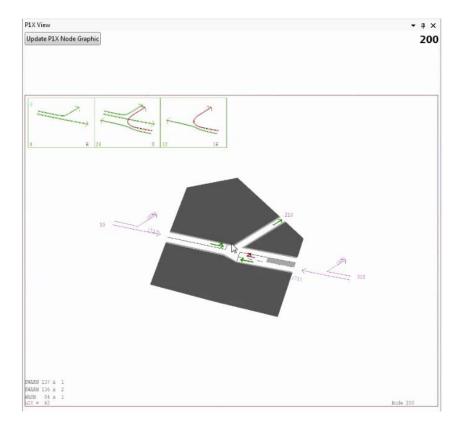
Map View Window

- Connection to online Bing Maps.
- Fully licensed and can be used in reports and analysis
- Switch between different map layers (Aerial, Hybrid, Road)
- Displays node, links and turn selected
- Control the extent of network to be displayed



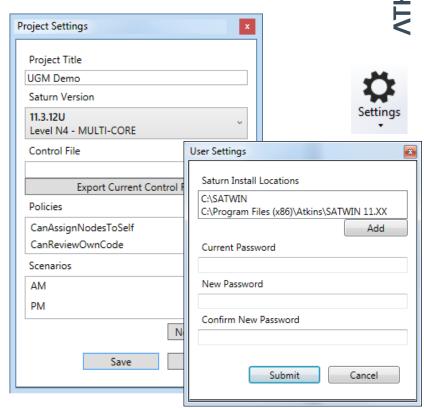
P1X View Window

- P1X node graphics most familiar window
- Easy to view coding changes
- Updates on the fly



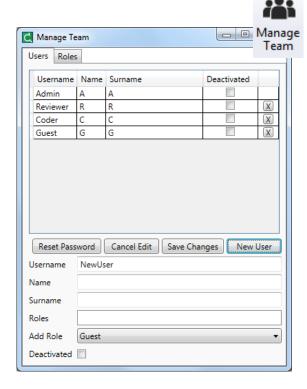
Manage Project and User Settings

- Project Settings
 - Choose SATURN version
 - Use custom control network template for the project
 - Set Policies
 - Define Time periods / Scenarios
 - Password protected Admin controlled
- User Settings
 - Set SATURN installation path
 - Manage password



Manage Team

- Setup team for the project
- Different access levels
 - Administrator
 - Reviewer
 - Coder
 - Guest
- Add, delete users or change access level



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Questions?

