SATVIEW

Frequently Asked Questions

Date of Last Update: 31/07/2023   Details apply to SatView v1.34

FAQ SatView 0001   SatView is not opening properly

? *SatView is not opening and hangs at the initial start-up splash screen.*

This is most likely an issue with one of the dependencies, SqlLocalDB and/or SQLSysCLRTypes file, missing in the machine.

While installing SatView if you (or your IT administrator) have installed through setup.exe file then the setup should have automatically checked and installed the required dependencies from the expected locations. But if you have installed using setup.msi file, then that doesn't install or check for the missing dependencies.

Hence the simple solution is usually to re-run the installation setup using setup.exe and that should install the missing dependencies.

Occasionally, the location of accessing the expected dependencies changes, and the setup.exe may not find the appropriate ones. SatView v1.34 needs Microsoft SQL Server 2019 LocalDB and Microsoft SQLSysCLRTypes to be installed in the machine as they are the specific dependencies required for SatView to work properly. At the time of writing, as used in setup.exe, they are available to download for free using the following links:

SqlLocalDB

https://download.microsoft.com/download/4/1/A/41AD6EDE-9794-44E3-B3D5-A1AF62CD7A6F/sql16_sp2_dlc/en-us/SqlLocalDB.msi

SQLSysCLRTypes

https://www.microsoft.com/en-us/download/details.aspx?id=100451

FAQ SatView 0002   Bing Maps not showing

? *The Bing map background is not showing. I get a message saying "The remote name could not be resolved: 'ecn.t2.tiles.virtualearth.net'*

✓ In order to use Bing Maps in SatView you must be online – do you have a network connection?

✓ If you have got an internet connection, it may be that you need to open some ports in your firewall. On occasions the network administrator blocks access to the internet through some ports. The following URLs must be allowed access (sometimes referred to as white-listed) through the standard http port 80:

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- o http://ecn.t1.tiles.virtualearth.net/
- o http://ecn.t2.tiles.virtualearth.net/
- o http://ecn.t3.tiles.virtualearth.net/
- o http://ecn.t4.tiles.virtualearth.net/
- o http://virtualearth.net
- o http://ak.dynamic.t0.tiles.virtualearth.net
- o http://ak.dynamic.t1.tiles.virtualearth.net
- o http://ak.dynamic.t2.tiles.virtualearth.net
- o http://ak.dynamic.t3.tiles.virtualearth.net

FAQ SatView 0003   Bing Maps taking time

? ***The Bing map background sometimes loads slowly after scrolling or zooming in.***

- ✓ Under certain circumstances this phenomenon occurs. This may be related to connection speed, firewall settings and CPU.

FAQ SatView 0004   Bing Maps satellite images disappearing

? ***The Bing map aerial background doesn't appear after zooming in.***
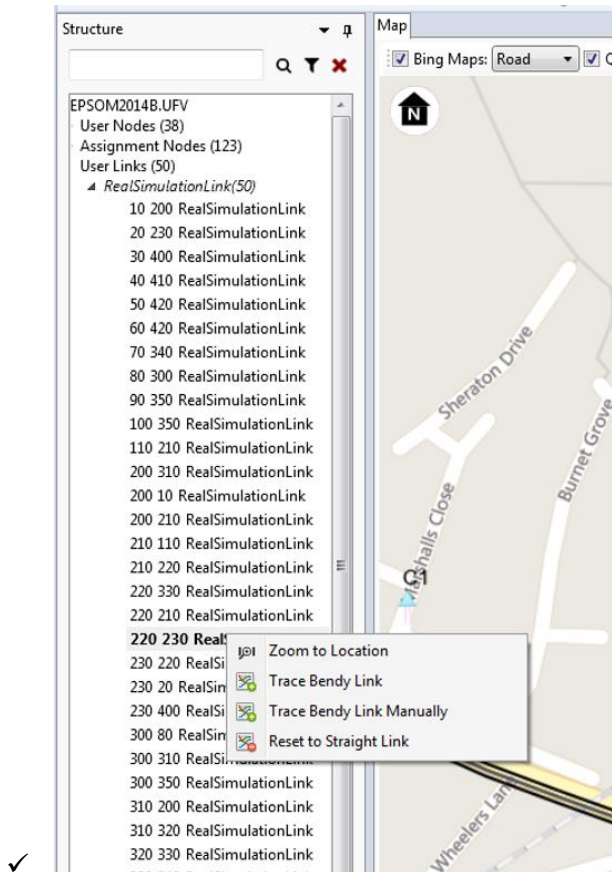
- ✓ At very high zoom levels, Bing maps does not have aerial imageries for all places.

FAQ SatView 0005   Bendy Links Revert to Straight

? ***How do I convert bendy links to straight links?***

- ✓ Use the Links→Straighten Links button which will apply to your selection, view or entire network.

- ✓ First identify the A-node and B-node of that link that needs to be converted from bendy to straight link.

  - o If working with huge networks that have hundreds or thousands of links, then this may be done by the following method.

    - ▪ Select the link from the map window. Ensure that you are selecting the User links (Hint – make only User Links Selectable through 'Selection Layers' button).

    - ▪ The link ID (A-node – B-node) will be displayed in the Summary Panel.   At times, based on the screen resolution, it might be necessary to resize the Summary Panel window to display the A-node – B-node details correctly.

- ✓ In Structure browser,

  - o Click on User Links and then Real Simulation links

  - o From the list of links, select the links that you want to convert to straight link

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- For large networks, enter the A-node or B-node into the Search box and use the Filter option to limit the list to links o or from that node only, and then select from that list.

  o   On selecting the link, the link will be highlighted on the Map Window.

  o   Right click on the Link and select the option 'Reset to Straight Link'

  o   This will reset only for one direction. If you need to reset both directions of a two-way link, then you need to select the other direction link and follow the above steps.

✓

FAQ SatView 0006   UFS2UFV stops

❓ *UFS2UFV doesn't work on my UFS, it just hangs*

✓   SatView   contains a copy of the version of UFS2UFV that is compatible with it. This can be copied to your SATURN programs folder by clicking the appropriate button in SatWin. This should solve the problem.

   Note you may require "administrator privileges" to do the above update – if so contact your IT to do this for you.

✓   If this does not solve your issue, please contact support for further help.

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FAQ SatView 0007   Attributes in Data Manager

? ***All my Data in the Data Manager is marked RED when I open from command line or from some sessions***

- ✓ Have you loaded a UFV network – or is it a UFS network? If UFS try with a UFV instead.

- ✓ This can happen in some circumstances. Try loading it anyway. If it loads, then the data is present and you will be able to display the values or generate bands.

FAQ SatView 0008   Moving Nodes

? ***How do I move a group of nodes at once?***

- ✓ Currently there is no option to move a selection of nodes together in SatView. However, you might use other GIS tools like MapInfo to move the nodes and then create Node card file (similar to the Node coordinate 55555 cards in Saturn Network dat file) and then load it using "Apply Node Coordinates from Dat" option under "Network Adjustment" Tab.

FAQ SatView 0009   P1X does not load any bendy links from my GIS file exported from SatView

? ***I've exported bendy links from SatView and want to use them in P1X. I specify the GIS file but no links are bendy. There are records in the GIS file under the 77777 card. How do I make it readable to P1X?***

- ✓ There is a bug in versions prior to SatView 1.16. To correct, please add a blank line above the 77777 line - this is a required 'Title' line which may be blank but has to be included.

FAQ SatView 0010   Plotting Select Link Analysis data or any secondary analysis data in SatView

? ***Can I do Select Link Analysis or any secondary analysis and plot the results in SatView similar to the way I do in P1X?***

- ✓ SatView does not currently have an option to do Select Link Analysis (SLA) or any other secondary analysis directly. However, they can be done in P1X and the output data brought into SatView for plotting.

- ✓ From SATURN Version 11.5.05N, there is a batch file P1X_SLA that can help in generating such a file for SLAs.

- ✓ The process is to take a UFV already prepared for display in SatView and update it using P1X to have the "additional" fields for the select link analysis data. This revised UFV can then be used to create plots in SatView.

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A step-by-step method of doing this is given below, though of course there are other ways of achieving the same result - the P1X-SLA follows a slightly different approach more suited to non-interactive input.

1) Convert the UFS to UFV using UFS2UFV batch process (if not already done)

2) Open the created UFV from step 1 in P1X

3) From P1X 'Master Menu' select 'Analysis Options' >> 'SLA; Basket'

4) Select the series of SLA's you wish to do and say 'yes' to all to continue

5) Once done selecting all the SLA's you want to perform click 'Return'

6) When asked click 'Yes' to perform SLA

7) Click 'No' when asked whether to close the graphics at the end of the calculations

8) Click 'No' to dump results to a text file

Wait for it to perform the SLAs

9) 'Return' to the 'Master Menu'. For each SLA you will have a new database column created and displayed in P1X.

10) Select SATDB options

11) Select option '16' to 'create new SATURN UF file'

12) Option '0' to carry on

13) For the first SLA DB column - Select option '1' to Export with changed parameter

14) Then input a DA code to have the new SLA column

The fields specifically set up in SatView for holding SLA data (from SatView 1.20). are DAcodes ending in 8 from 3008 to 3298.

That is 30 fields:

    3008   SLA1 - SLA flow 1
    3018   SLA2 - SLA flow 2
    3028   SLA3 - SLA flow 3
    …
    3288   SLA29 - SLA flow 29
    3298   SLA30 - SLA flow 30

15) Select option to retain the DA code type (Road, Node or Link) - 0 for default

16) Give new DA code header, ag "First Select Link"

Note – at the moment, this won't be displayed in the current SatView, but this may change in future releases.

17) Repeat steps 13 to 16 for each SLA DB columns

18) Select option '0' to Set the default value for missing links/turns to 0

19) Save File dialogue box will appear to get name for the output UF file.

    Change file extension at bottom left corner to 'All Files (*.*)' and give a new filename with extension '.UFV'

20) Close P1X

21) Open the resulting new UFV file in SatView

22) Click 'Create Bands' >> scroll down the list of groups in first left column.

23) Select the group 'Select Link Analysis'' and then the appropriate SLA that you wish to use.

24) Change properties for create bands as required and plot bands as you would do normally.

For other analysis, the data will need to be written to the standard DAcodes made available for the user. These now (from SatView 1.20) appear in the group 'User DA codes', and are in similar range to the SLA codes but with the trailing number 3 etc, ie:

    3003   R_USERDA1 - Real User calculated data 1
    3013   R_USERDA2 - Real User calculated data 2
    3023   R_USERDA3 - Real User calculated data 3
    …
    3283   R_USERDA29 - Real User calculated data 29
    3293   R_USERDA30 - Real User calculated data 30

and for completeness a corresponding integer set ending with 4 (less likely to be required).

FAQ SatView 0011   Online Licence Checks

? *Following on from FAQ 0002, are there any additional domains I need to provide access to when managing the licencing activations etc?*

✓ Yes. SatView needs to regularly check the validity of the activated user by contacting the licence server. The following domains (and specific ports if stated) must be allowed access for the software to function:

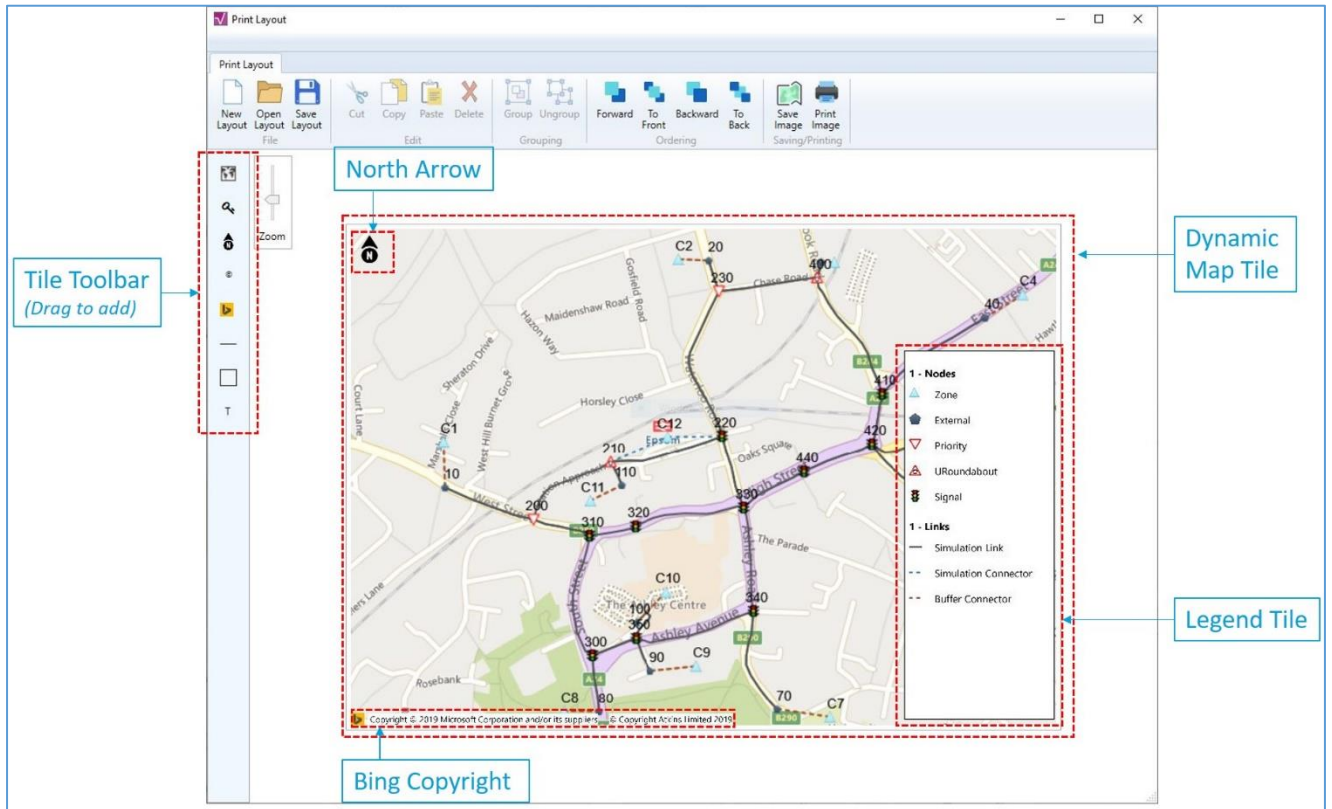   o secure.softwarekey.com (port 443)

    o ocsp.comodoca.com

FAQ SatView 0012   Print Options

? *I notice that SatView v1.30 has a new print option? Clicking on 'Print' takes you to 'Print Layout' window. What can I do there?*

✓ The new 'Print Layout' option enables the contents of the map window to be 'captured' in a tile window and annotated with information by adding further tiles containing copyright logos, a map legend or orientation arrow and user-defined text and lines for example. Additional tiles are added to the layout windows by dragging from the Tile toolbar. Once the print layout has been finalised, it may be printed or saved as a graphics image.

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It's also worth noting that:

o the initial map image visible in layout window takes the top left corner of the main map so it may need some manipulation

o the main map and print map are linked such that dragging and zooming the print map causes the same actions on the main map

o the option to save the map layout stores the print map tile elements but does not save the map position / zoom level

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FAQ SatView 0013   Network not displaying.

?   ***I can't see my network, or I have noticed that some of my network elements aren't showing.***

- ✓ In version 1.34 of SatView, you have to have both the visibility icon switched on in the Structure table (the eye symbol) and the scale of the map being displayed to be within the range set under the "View Settings" part of the Home menu.

- ✓ Ensure the selected element, eg User Links, has the visibility switched on, and then try zooming in and out to see if the network appears. Of course, you may want to click on the "Simulation Extent", or "Full Extent" buttons to ensure you are actually looking in the region of the map your network is actually located. This may not be where you think it is if you haven't set the coordinate system parameters correctly! You can then use the sliders in the "View Settings", possibly moving the left slider fully to 0% and the right slider to 100% - which means the item should display whatever the map scale (as long as visibilty is on).

Known Issues

#Issue SatView 0001 – P1X setting may not always be saved.

The P1X settings set under "Set P1X Path" may at times not get saved properly and may cause problems while trying to view the node graphics in P1X. It is suggested to retry by setting the path again.

#Issue SatView 0002 – Persistence of Straight Lines when Tracing Bendy Links

Occasionally, when Tracing Bendy Lines, straight line representations of the link may remain after the links have been made bendy. Attempts to select the link by clicking on the straight line fails as the link is no longer logically there.

Re-loading the network with a GIS file created from these bendy links (which can be achieved by closing SatView and restarting it with "Resume Last Session") should have the correct bendy links and not display the straight line.

This seems to happen when only one direction of a link has been coded to a bendy line, i.e. by using the pointer Select to select the link, and then using the "Trace Bendy Links" - "Selected Links" method. Even a successful correction of the reverse direction can leave the persistent straight line. This problem can be avoided by always selecting all the appropriate links by using the "Rectangular Select" option to draw a little box across the link (which will pick up both directions etc.).

Investigation of the problem and its resolution is on-going. If you have a good example of where it is happening, especially if the circumstances differ from above, please send us a Problem Report, recording step-by-step what has brought you to the situation.

#Issue SatView 0003 – Progress Bar update may be erratic

While working with long performing tasks like trace bendy links for huge networks, then the percentage complete information displayed in the progress bar might be erratic and sometimes it might stop indicating any progress. However, the process will be happening at the background and it is only that it is not updated correctly in the progress bar.

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#Issue SV0004 – Setup.exe unable to install some of the dependencies

While installing SatView using the setup.exe, SqlLocalDB – a dependency that is required for proper functioning of SatView .does not install. This is due to change in link to the location where the SqlLocalDB is in the Microsoft website. See FAQ 0001 above.

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