StateDMI Training

Network Editor

Version: 3.10.00, 2010-05-10

Duration: Approximately 30 minutes

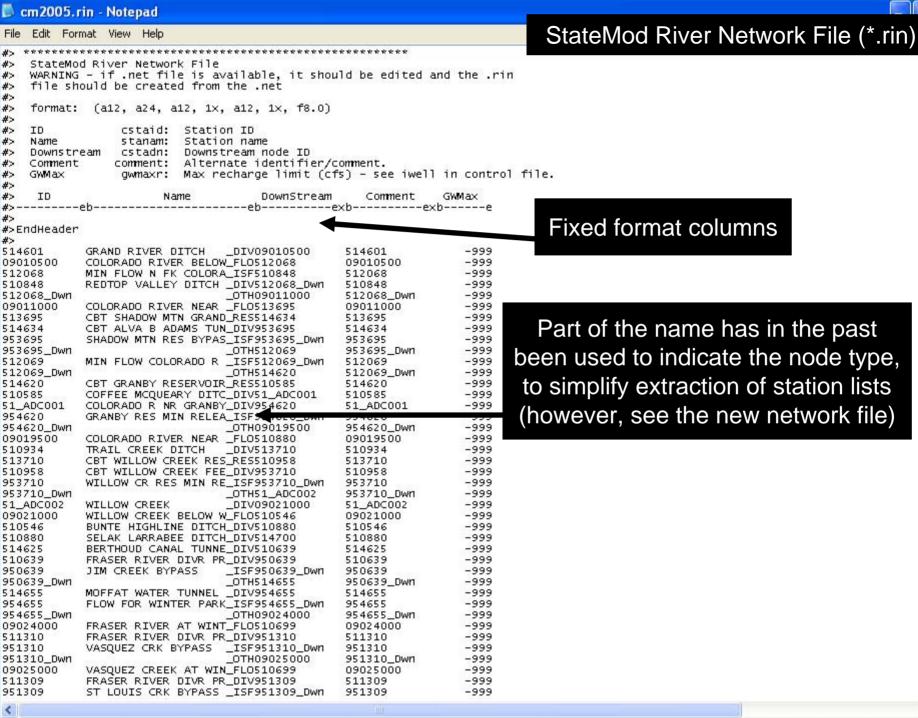
Level: Advanced

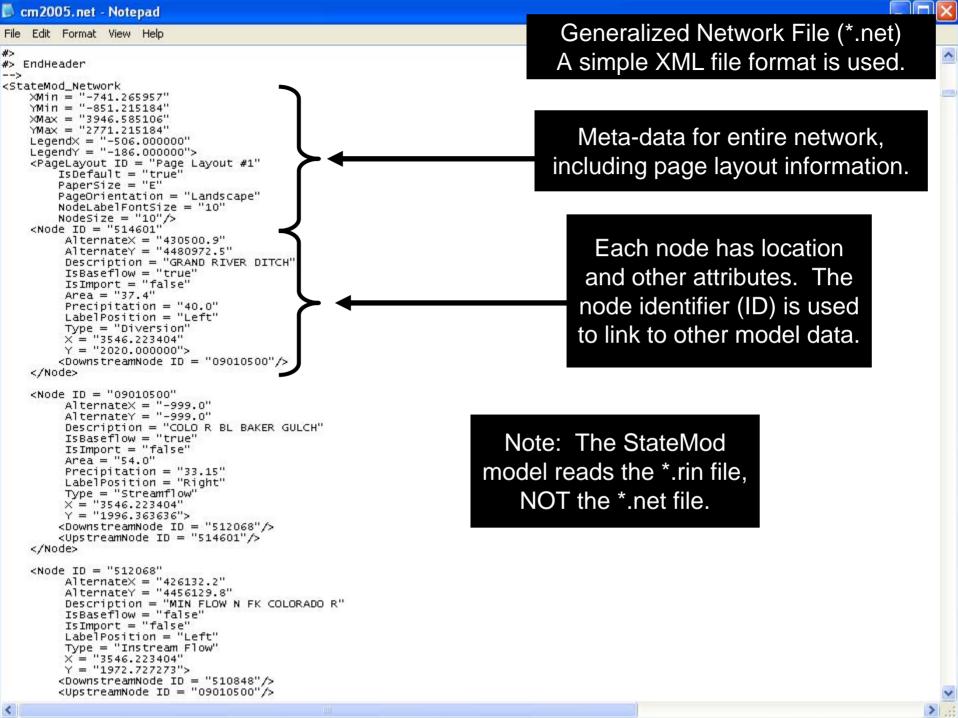
This Presentation

- Provides an overview of the StateDMI model network editor
- Builds on introductory StateDMI training presentations, and supports other advanced training presentations
- Is designed for self-paced training

The StateMod Model Network

- Provides an upstream to downstream representation of a river basin, as a series of nodes
- Serves as the master copy of stations to be included in modeling – often simple lists of identifiers are extracted from the network for use with other data processing



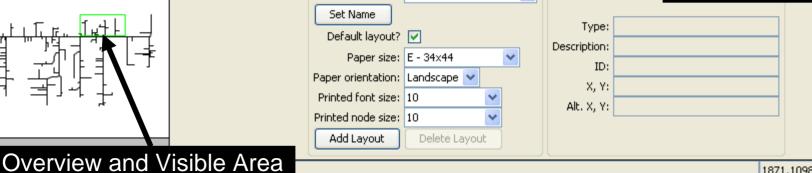


Use the Generalized Network File to Create the River Network File

- The generalized network file is the virtual representation of the physical system and requires significant effort to create (compared to other files)
- An attempt has been made to automate creation of the network from spatial data, but this functionality is experimental
- Lists of stations and the StateMod River
 Network file are created from the generalized network using StateDMI commands

Viewing/Editing the Model Network

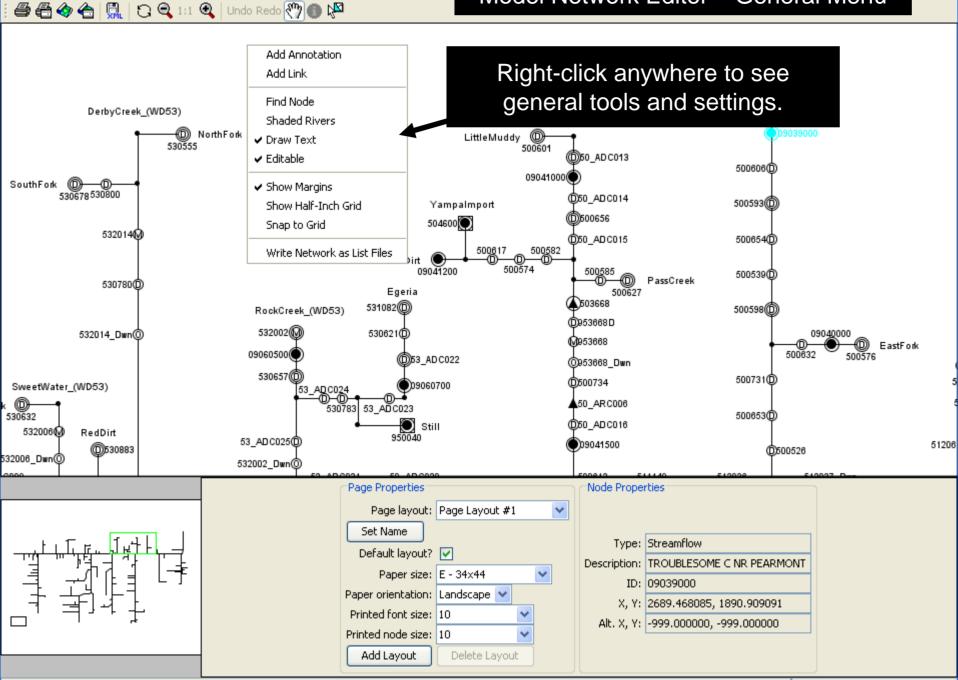
- See StateDMI documentation for instructions on creating a new network (File...New...Model Network)
- To open an existing network:
 - File...Open...Model Network
 - Or, View...Model Network
- See the cm2005.net file in the example1colorado\network folder



Delete Layout

Add Layout





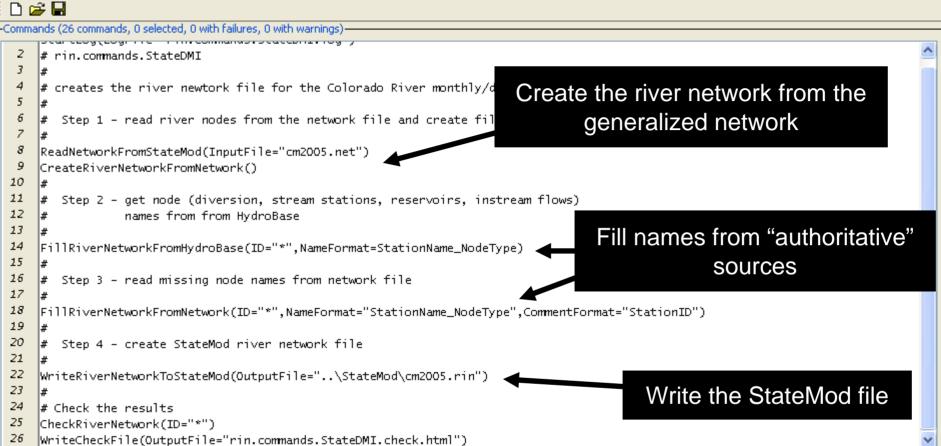
Processing the Network with Commands

- See the example1-colorado\rin.commandsupdated.StateDMI command file
- To generate lists of stations, use commands that read stations from the network (e.g., ReadDiversionStationsFromNetwork()) and commands that write list files (e.g., WriteDiversionStationsToList())

StateDMI (StateMod) - C:\Develop\StateDMI_SourceBuild\StateDMI\do Edit View Commands Run Results Tools Help

Creating the StateMod River Network File





Run Selected Commands

Run All Commands

Clear Commands

-Results -

Output Files Problems | StateCU Components | StateMod Components

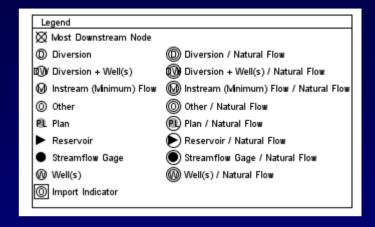
C:\Develop\StateDMI SourceBuild\StateDMI\doc\Training\50-advanced-StateMod-NetworkEditor\example1-colorado\network\rin.commands.StateDMI.log

C:\Develop\StateDMI SourceBuild\StateDMI\doc\Training\S0-advanced-StateMod-NetworkEditor\example1-colorado\statemod\cm2005.rin

C:\Develop\StateDMI SourceBuild\StateDMI\doc\Training\50-advanced-StateMod-NetworkEditor\example1-colorado\network\rin.commands.StateDMI.check.html

Network Node Types

- Generally correspond to StateMod station files
- "D&W" nodes have information in diversion and well station files
- "Other" nodes are in the river network, but no station files
- Node symbol "decorators" indicate natural flow locations (outer circles) and imports (square)



Other Network Editor Features

- Annotations can be added
- Dashed lines can be used to connect nodes to illustrate relationships
- The network can be printed and images captured

More Information

Help...View Documentation to view the StateDMI documentation.

Basin model documentation describes in detail the sources of data, estimates, and processes that were used to create the data sets, and summarizes results.

Numerous task memoranda, reports, software documentation, and other documents provide technical information and are available on the CDSS web site:

http://cdss.state.co.us (see Products links)