
Command Reference: AppendNetwork ()

Read generalized network from a StateMod XML network file and append to existing network

StateMod Command

Version 3.12.02, 2013-04-17

This command is under development.

The `AppendNetwork()` command reads a generalized network from a StateMod XML network file and appends to the network that has previously been read (e.g., with the `ReadNetworkFromStateMod()` command). The merged network can then be manipulated and utilized by other commands. StateDMI also can be used to merge other data set files (by reading multiple files and then writing out) or the SmLink StateMod utility program can be used. It is likely that the plotting coordinates for different networks will not be consistent and therefore the appended network must be scaled and shifted to achieve a desirable layout. After processing, the network can be interactively edited in the network editor, although changes will be overwritten when rerunning commands. This command may be updated in the future to better handle discontinuities between networks.

The following dialog is used to edit the command and illustrates the syntax of the command.

Edit AppendNetwork() Command

This command reads a generalized network from a StateMod network file (XML format) and appends to an existing network that has previously been read. The merged network can then be used, for example, to process model files for a merged data set. It is recommended that the location of the file be specified using a path relative to the working directory. The working directory is: C:\Develop\StateDMI_SourceBuild\StateDMI\test\regression\commands\AppendNetwork

StateMod file:

Append how?: Required - how to append the network.

Existing downstream node ID: Required - downstream node in existing network.

Appended upstream node ID: Required - node to start appending.

Scale appended network by: Optional - scale factor for appended network.

Shift appended network by: Optional - x,y shift for appended network (after scale).

Command:

```
AppendNetwork (InputFile="gm2004.net", AppendHow=ReplaceUpstreamOfDownstream, ExistingDownstreamNodeID="420520", AppendedUpstreamNodeID="gunn_end", ScaleXY=.5, ShiftXY="0,-3000")
```

AppendNetwork

AppendNetwork () Command Editor

The command syntax is as follows:

```
AppendNetwork (Parameter=Value,...)
```

Command Parameters

Parameter	Description	Default
InputFile	The name of the StateMod XML network file to read.	None – must be specified.
AppendHow	Indicates how the network should be appended, one of: <ul style="list-style-type: none"> ReplaceUpstreamOfDownstream – replace all nodes upstream of the existing downstream node with the appended network. AddUpstreamOfDownstream – add the appended network as a reach upstream of the existing downstream node. 	None – must be specified.
ExistingDownstreamNodeID	The node identifier in the existing network that will be downstream of the appended network.	None – must be specified.
AppendedUpstreamNodeID	The node identifier in the appended network that will be upstream of the ExistingDownstreamNodeID. All nodes in the appended network below the appended node will be discarded.	None – must be specified.
ScaleXY	The scale to be applied to the appended network. The appended network is first shifted so that the plotting coordinates for AppendedUpstreamNodeID are 0,0. The appended network coordinates are then scaled by ScaleXY relative to this origin. The scale should be specified to equilibrate the spacing of nodes in the existing and appended network.	1.0
ShiftXY	The X,Y plotting coordinates to shift the appended network after the scale is applied, to position the appended nodes relative to the existing network.	0,0

The following example illustrates how to append the Gunnison model network to the Colorado model network:

```
# Test appending Colorado and Gunnison networks
StartLog(LogFile="LinkedModel.StateDMI.log")
ReadNetworkFromStateMod(InputFile="cm2005.net")
# Add upstream of 420520 so that the nodes in the Gunnison network replace
# duplicates in the Colorado model.
AppendNetwork(InputFile="gm2004.net", AppendHow=ReplaceUpstreamOfDownstream,
    ExistingDownstreamNodeID="420520",
    AppendedUpstreamNodeID="gunn_end", ScaleXY=.5, ShiftXY="0,-3000")
WriteNetworkToStateMod(OutputFile="LinkedModel.net")
```