**Temporal play back:** Sometimes, no matter how you look at the current patterns, the vital information cannot be presented in the ‘snapshot view.’ The pattern is only visible over time. A way to reveal an attack pattern is to show the historical traffic pattern.

The user can select one or more networks/hosts to playback. A slider control is provided to let the user manipulate the time index. The user can see how the patterns were changed and the positions of the objects in the work space.

**Traffic rareness weighted value:**
We give uncommon traffic a higher weight value. The weight indicates level of suspicion. For example, the use of uncommon ports and high traffic volume are suspicious.

1. Too many hosts/networks in the workspace
   Possible solutions:
   a. Multiple screens for different part of the network
   b. Fisheye/distorted view – display entire, yet part of the details is revealed

2. Pattern presentation using a ‘plot graph icon’
   A challenge to find suitable plane in the multi-dimension space to show the significance of anomaly patterns

3. Feature selection for plot graph icon
   The number of important features in from the input is huge. A proper selection of features is directly related to the effectiveness of the interface.

4. Definition of the traffic rareness weighted value it

5. Other issues?
   Your input will be greatly appreciated!