Model Hierarchy

The system being modeled consists of a central data store, which is collecting data coming from multiple regional data stores. Each regional data store can collect data from multiple input streams. Each stream may consist of a variety of media types (only one media type can be streamed at a time).

For example, the central data store may be the headquarters of a newsroom. A regional data store would then be an affiliate news center in a specific region (e.g. the Washington bureau). The stream would be a specific device (camera/microphone) in the regional newsroom. The media type would be video, audio, etc.

The central data store has the ability to create or delete regions, to reassign a stream from one regional data store to another, or to duplicate a stream from one region to another (i.e. stream 1 would be received simultaneously in regional data store 1 and regional data store 2).

Regional data stores have the ability to activate streams or deactivate them. Multiple data streams can be active simultaneously.

Streams have the ability to select a media\_type. A stream can only select one media\_type at a time.