When dealing with several time series scalability problem overcome. To solve this problem, multiple time series can be organized into a hierarchical structure. We introduce a Streamgraph-based approach to convey this hierarchical structure. Based on a focus+context technique, our visualization allows time series exploration at different granularities (e.g., from overview to details).

**CONTRIBUTIONS**

- A Streamgraph-based approach to convey the hierarchical structure of multiple time series.
- A multiresolution view to depict the hierarchical organization of time series at different levels of abstraction (i.e., aggregation/disaggregation of time series).

**APPROACH**

**OVERVIEW**

Fig. 1. (a) shows a Streamgraph of the entire multiple time series in a high level of abstraction. The highest level represents the top in the hierarchy structure and the thickness of a layer conveys the sum of time series in the group.

**MULTIRESOLUTION VIEW**

This view depicts time series on different levels of granularity (the top and the lowest level of the hierarchy in one view).

Fig. 2. (a) context-areas depict the top level of the hierarchy, (c) detailed-area depicts the lowest level of the hierarchy, and (b) transition-areas depict the transition between the context-area to detailed-area, and vice versa. Color interpolation is used in this area.

**CONTROLLER**

This movable/collapsible tool is designed over the overview to handle the intervals of time used by areas in the multiresolution view.

Fig. 3. Custom configuration. Context-areas are handled by the blue lines. Transition-areas are handled by the red lines. Detailed-area by grey lines.