

# Interactive Quality Visualization (IQVis)

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## Introduction

The IQVis tool visualizes the structure and quality properties of software and systems.

Main features:

- Monitored data in graphical representations
- Changes of quality attributes in visual graphs
- Relationships between quality and behaviour of the system/software/space
- Viewing of collected data afterwards for analysis purposes
- Monitoring targets and views for visual representations can be selected at run-time

## Step 1: Set monitoring target

- Set monitoring points into the environment/software system
- Collect data on functionality or/and quality properties
- Select used monitor at run-time

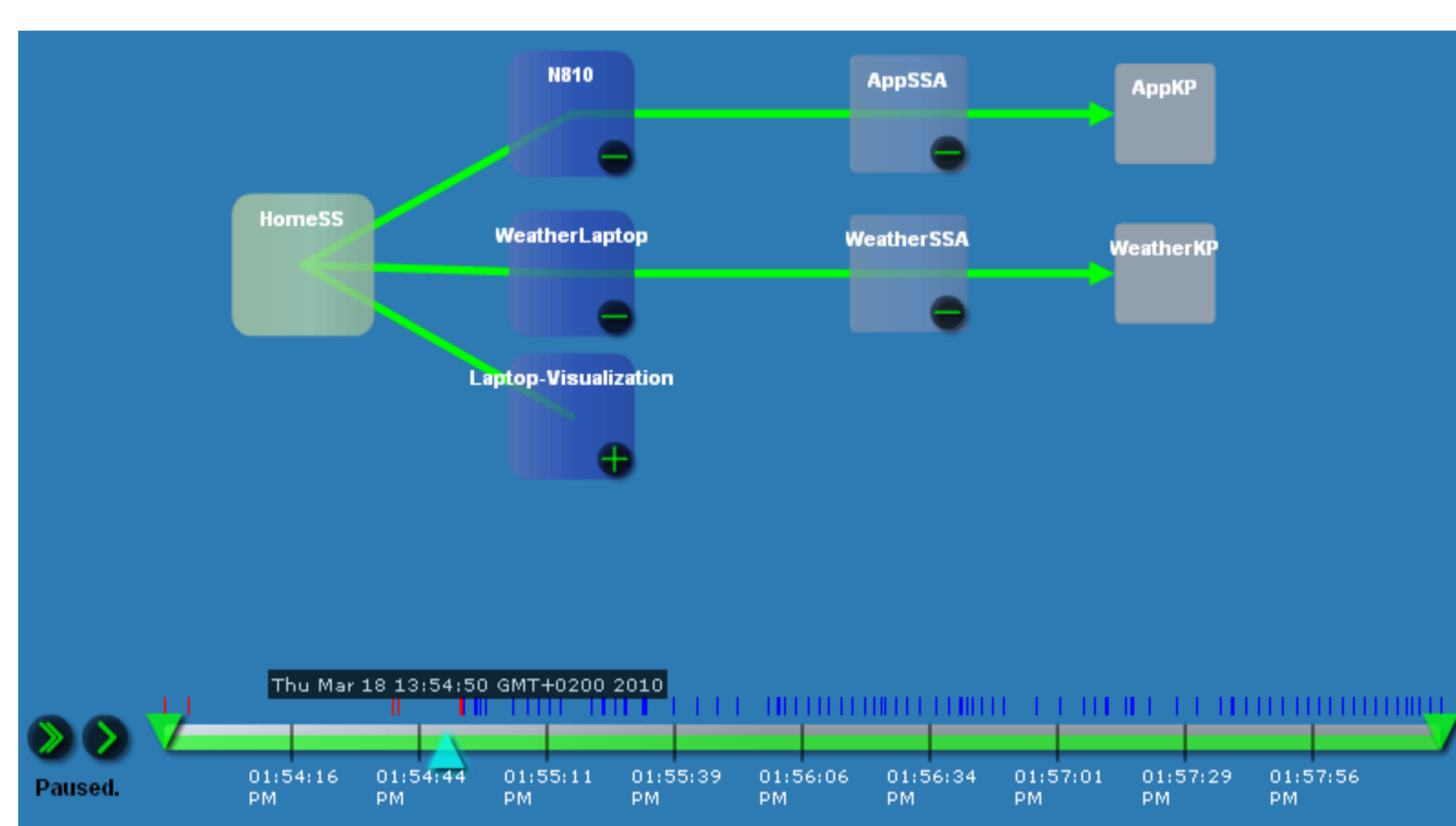
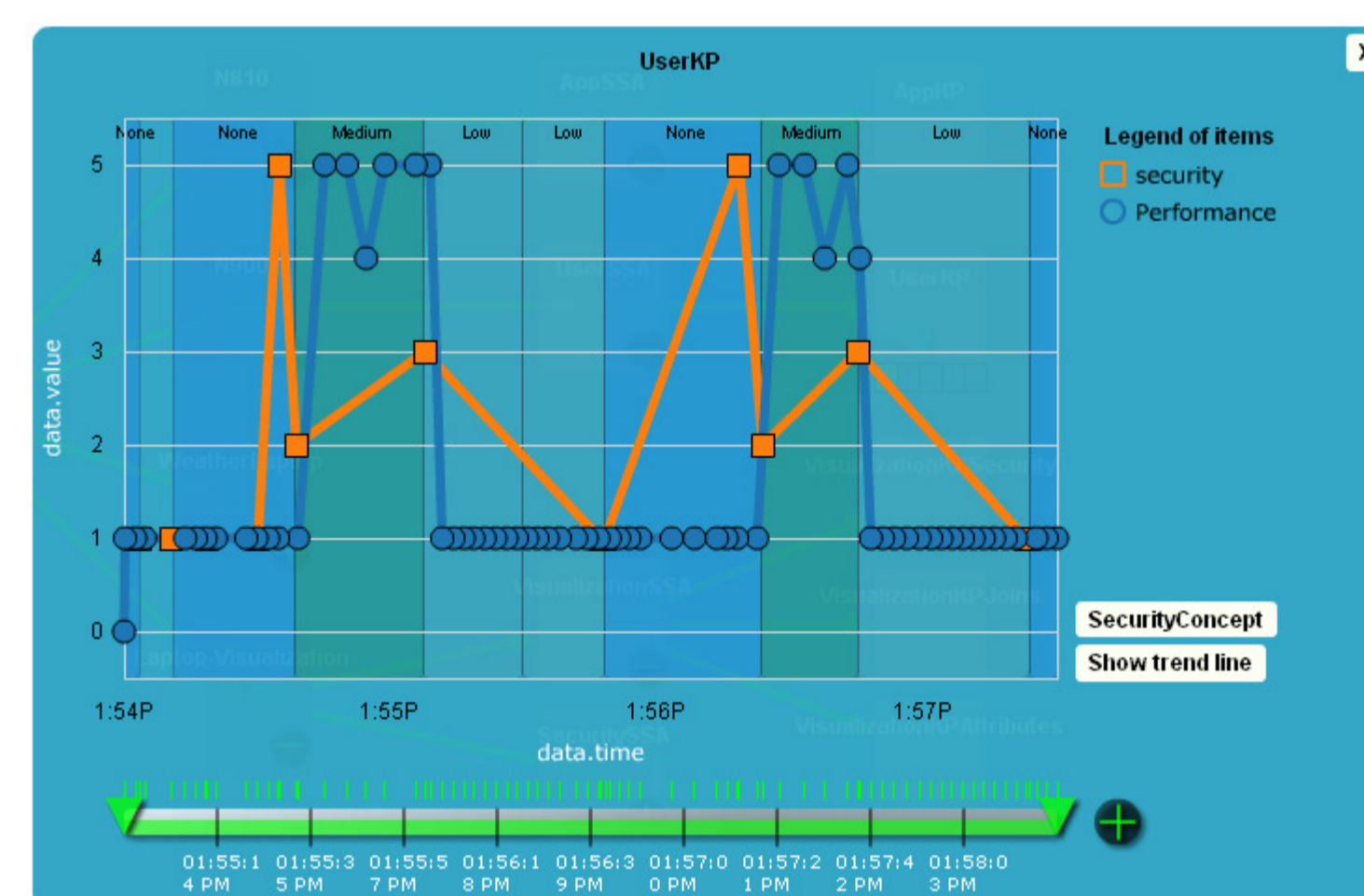
## Step 3: Analyse monitored data

### Desktop computers

- Choose software components to view / analyse
- Analyse relationships between quality attributes, e.g., security and performance

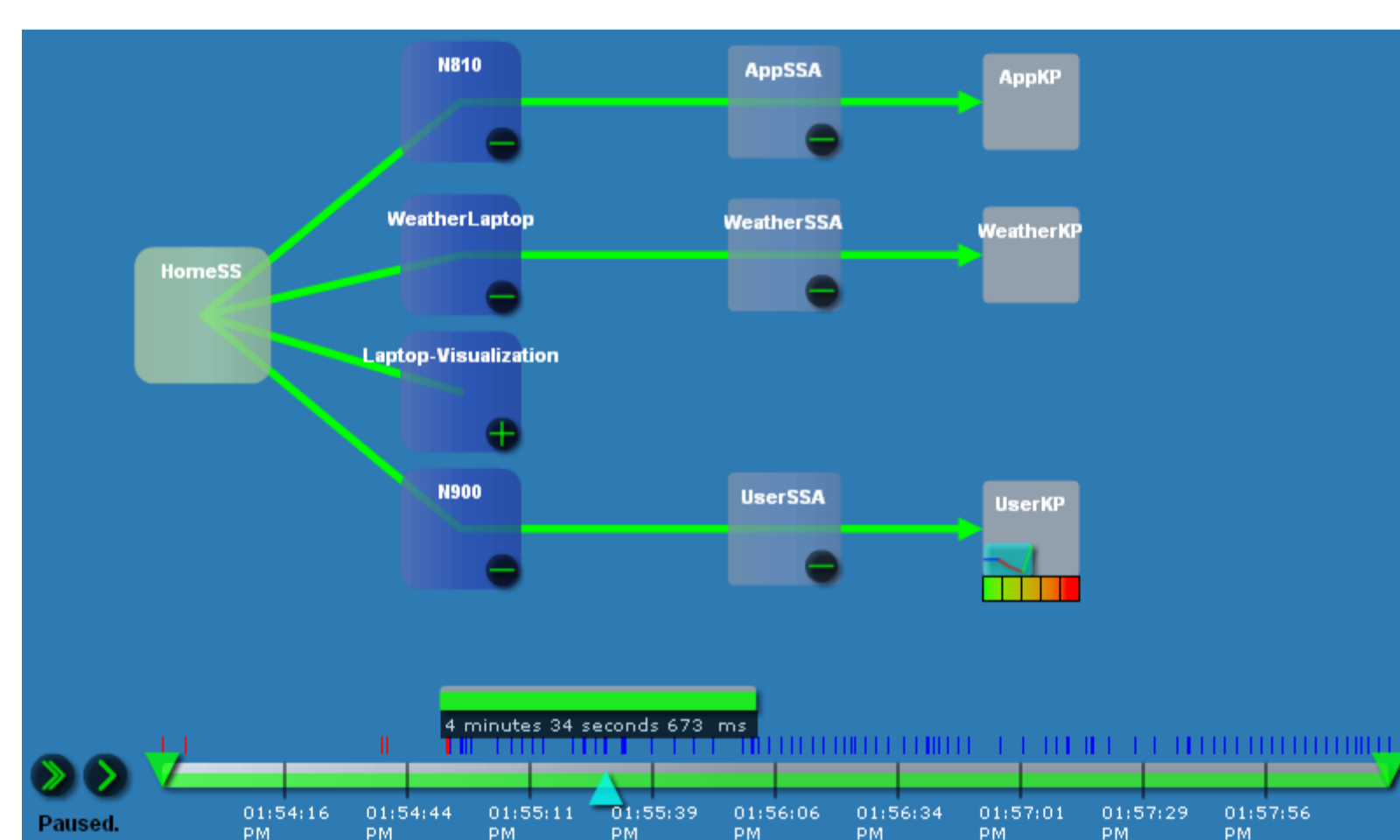
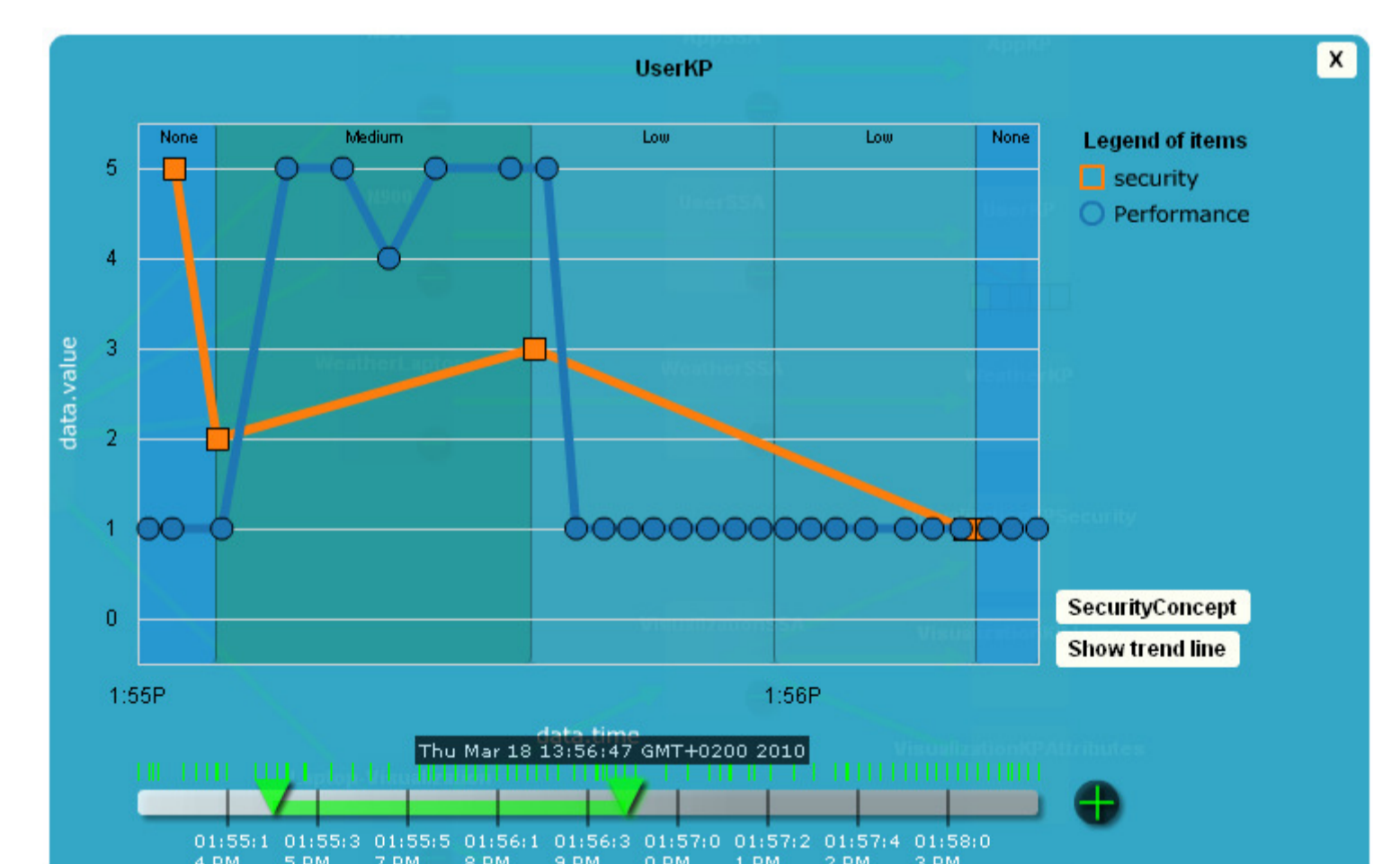
## Step 2: View monitored data

- Select the view at run-time: graph view, timeline view, scatter plot, etc.
- View structure of the environment/system in a graph



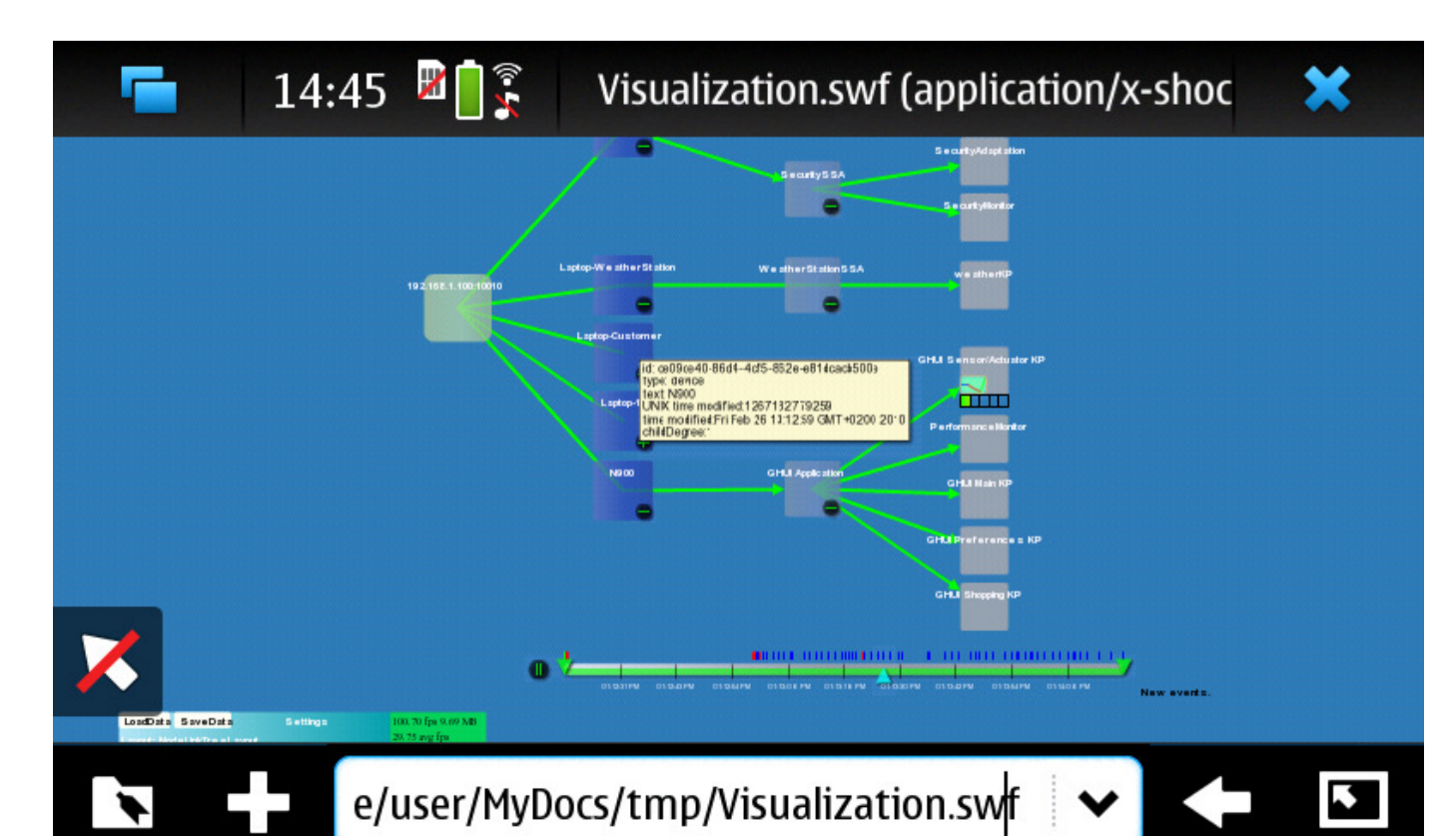
Animation helps in viewing structural changes at real-time

Replay monitored data of a certain time period



Mobile devices

- Visualize run-time situation or real-time quality indicators on a mobile device



Nokia N900

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