User Manual Insert - Tempurity Monitor v3 Viewmaps (Draft)

This version of this document is not currently a Networked Robotics indexed document. It is for preliminary information only.
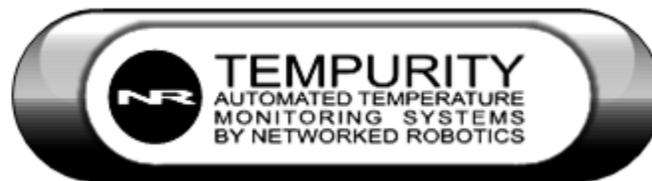
Introduction

The Tempurity Monitor version 3 currently under development enables the creation of "Viewmaps" that allow your population of monitored devices to be visualized in almost any organization. Examples would be to cluster monitored devices by instrument type, e.g. freezers vs incubators, or by parameter type e.g. carbon dioxide concentration vs temperature, or by department, by physical location, or any other organization you wish.

Viewmaps can be easily loaded so that a "view" of the monitored devices on a server can easily be flipped back and forth from one visualization to another. You can also start multiple instances of the Tempurity Monitor, each using a different visualization of your population of monitored devices so that you can view different visualizations simultaneously.

A Viewmap has two components, an optional background image, and an organization or arrangement of the monitored devices from any Tempurity Server in specific locations on the screen.

Background Images

The Viewmap creation process usually begins with the creation of a "background file". The background file must be of a defined size. It should be approximately 1098 x 545 in this version.

Files that deviate from this resolution significantly cannot be loaded. The background file must be in the .bmp graphic format. No other graphic format is currently allowed.

To create a customized background it is best to take the given Networked Robotics background template and modify it as needed using a standard graphic tool like Adobe Illustrator® or Microsoft Paint® rather than starting your own image from scratch.

Examples of Tempurity Monitor background images are now provided on the "utility" section of the "download" section of our website and can be downloaded as needed.

Almost any image of the correct resolution is acceptable to the program, but you may wish to consider the best visualization. Red, green, blue, yellow and gray are colors that indicate monitored device status and as such backgrounds of those colors may make critical information difficult to see.

Once you have created the background image use **File-Viewmap-Load Background**. Load the background file and then follow the instructions below to arrange the icons as desired on top of that background.

A background image is optional. You may wish to simply rearrange monitored device icons, in which case no background image is needed.

Creating the Viewmap

The process to create a viewmap is easy. You will **right-click on any icon. Hold in the mouse button and drag it to where you want it to go.**

If you drag it to the top margin, it will be eliminated from the display. The only way to get that icon back again is to choose an "Original" Viewmap and recreate the Viewmap so be sure that you don't wish to visualize a particular monitored device in this Viewmap before you drag it away.

If you drag the icon to a position that currently contains another monitored device icon, the two icons will swap positions.

Keep working with the icons until you have organized them in the way that best helps you visualize the operational conditions of your laboratory.

The Original Viewmap

The original Viewmap is that defined by the Tempurity Server. It is an organization of icons determined the by Tempurity Server that you are collecting to. It includes every monitored device known (defined) by that server. You can switch to the original view with **File-Viewmap-Original**.
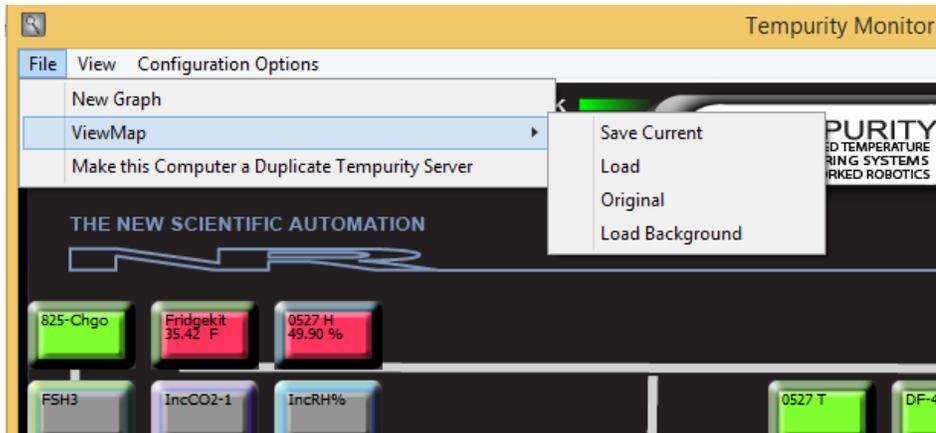
Saving a Viewmap

Once the monitored device icons are visualized as you want them to be, save the Viewmap, so that you can return to the visualization as wished using **File-Viewmap-Save Current**. The currently visualized Viewmap will be saved and can be loaded at any time later. Viewmaps are comma separated value files (.csv files).

Loading a Viewmap

You can load any saved Viewmap using **File-Viewmap-Load.** Select the appropriate file. The Monitor screen will implement the new visualization.

The View at Monitor Launch

When the Tempurity Monitor is started it uses the last saved Viewmap. If you intend to run multiple instances of the Tempurity Monitor on a computer, the first Monitor will use the default Viewmap, but additional Monitor instances require the manual application of the appropriate Viewmap each time that they are launched.

Multiple Monitors – Multiple Views

Because Viewmaps often exclude certain monitored devices you may wish to have secondary Monitor instances that visualize those devices. Simply start multiple instances of the Tempurity Monitor, pointing to a single (or different) Tempurity Server.

Adding or Subtracting Monitored Devices

When the Tempurity Server is modified to add or subtract data collection from monitored devices it invalidates all Viewmaps. In this case all Viewmaps must be recreated and saved after the change has been made.

Viewmap Effect on Alarm Notifications

Even when a device is removed from view, it is monitored as long as an alarm notification group has been defined that includes this device.   Whether or not a device is visible, alarm notifications are generated if the Tempurity Monitor is running.

Example – Using Viewmaps to show Monitored Devices on a Floor Plan

The below shows the implementation of Viewmaps at a facility with monitored devices on three floors. Three different Viewmap files are created, each with a different background file. The Tempurity Monitor is started three times. In each instance a different Viewmap is loaded – the Viewmap appropriate for a single floor. Each Monitor is connected to a single server collecting data from 91 monitored devices but the Viewmap only displays a subset of those 91 devices – the ones on the given floor. In the screenshot visualizations of the status of all three floors is shown on a single computer screen.