

# Technical Bulletin – ViconNet Web Release

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## General Description

Vicon is releasing its web based viewer solution for sale. The solution is offered as a web server that provides the user with a web based viewer that can be used with most browsers and does not require any plug-in installation.

## Web Server Options and Configuration

To use the web viewer, the ViconNet system must be configured to have a web server running. There are two options for running the server:

1. Web server on the system Nucleus (Nucleus must be running ViconNet 6 minimum)
  - The system Nucleus is configured as the web server for the viewers. The Nucleus must be running ViconNet version 6 minimum
  - This is compatible with systems that have up to 10 concurrent web viewers (5-7 if the Nucleus is not a dedicated PC)
  - Users will browse to the Nucleus to get the web viewer loaded
2. Dedicated server running the web server as a service
  - Provided as a pre-installed server or as a software for installation on customer hardware
  - Will work with a version 4, 5 or 6 based system (and Nucleus)
  - Runs as a system service and provides web server for the viewers
  - Allows a higher number of concurrent users (up to 25 tested)
  - Designed as a dedicated server and can not run together with ViconNet or VMDC

## Upgrades and compatibility

Users who are running an older ViconNet software version (4.0 or 5) and looking to use the web viewer will have to upgrade their Nucleus (if compatible with version 6) or add a stand alone server. The web viewer supports video from devices running ViconNet 4 or 5, earlier version are not supported and will need to be upgraded.

## Feature Highlights

The following items are the features highlights of the browser solution:

1. Web Port – The server allows selecting which port number to use for connectivity with the traditional port 80 or any other port required by IT
2. Full gateway functionality – the system is designed in a way all camera are provided through a single IP address and prevent the need to browse to each NVR separately
3. Microsoft SilverLight based – the web viewer utilizes Microsoft's SilverLight technology that allows is to work with NO plug-in download and ultimate security (if the browser doesn't have SilverLight updated, the web server will provide it automatically)
4. User password database – because the server is communicating with the ViconNet Nucleus, it will use and verify login details and permissions exactly like in the ViconNet software

## Functionality

The web viewer provides the user with the following functionality:

- Live view any supported cameras \*
  - Various camera layouts single, 2x2, 3x2, 3x3, 4x4 as well as full screen view
  - ViconNet site list for camera selection (No groups no maps)
- PTZ control from GUI
  - Camera PTZ control
  - Preset call up
- Playback of supported camera \*
  - Quick playback for ViconNet base cameras
  - Playback from time for supported Mega pixel and 3<sup>rd</sup> party cameras
- Audio support in both live and playback \*
- Viewing options allow using a corrected or simple full aspect ration (4:3, 16:9 formats)
- Can be moved between monitors on a multi-monitor computer
  - **See limitation for details**

## Limitations

The web viewer has a few limitations:

1. Backward compatible with version 5 and 4 devices only (assuming Nucleus is V6 or stand alone server has been installed)
  2. The web browser does not support MPEG4 video from **any IP camera**
  3. Video recorded in H.264 **and** mega pixel resolution over **1080** pixel (high) or over **1920** pixel (wide) will not be **played back** in the web viewer although those cameras could be viewed live. The video can be played back in the ViconNet or VMDC application without a problem.
    - a. Example of Mega pixel resolution that will have both Live and playback when viewing it with the web viewer:
      - i. 800x600
      - ii. 1280x720
      - iii. 1280x1024
      - iv. 1280x800
      - v. 1280x920
      - vi. 1920x1080
    - b. Example of Mega pixel resolution that will be seen live but wont be played back:
      - i. 1600x**1200**
      - ii. **2560x1600**
- If the recording was done in JPEG format, playback will work for all resolutions

## Product Availability and Release

Version 6 and the web server will be ready for production November 2010. Like every major product release, Vicon will run a controlled process and not switch over to version 6 over night. The default system to sell and offer are still version 5.6d based, however, any customer or project that requires in specific the web viewer feature, it can be offered.

Vicon expects this transition period to take about 60 days and should bring us to the beginning of 2011 for a complete switch over of production to version 6 as the default version.