

# Codonics Virtua DICOM Tag Configuration

**Technical Brief**

## Overview

This document explains how DICOM tags can be added to a Virtua<sup>®</sup> Medical Disc Publisher configuration to increase the amount of information that is displayed in an image viewer and to improve image loading performance. It is intended for Virtua system resellers.

## Adding DICOM Tags

Virtua normally includes a small set of DICOM information in the DICOMDIR file included on each disc. Some image viewers can benefit from including additional DICOM tags in this file.

You can add DICOM tags to the DICOMDIR file by entering multi-valued addTagToDicomDir parameter entries to the file storescp.default.txt in the profiles\dicom folder on the SmartDrive. This parameter is described below.

Parameter: **addTagToDicomDir**  
Settings: **<patient|study|series|instance> :  
<Dicom Tag>**  
Default: Blank  
Description: Configures extra DICOM tags to include at specific medical hierarchy levels (in a colon-separated format) in the **DICOMDIR** file generated for a disc. For each multi-valued item, if the specified DICOM tag exists in a DICOM image, it will be included in the **DICOMDIR** file at the specified medical hierarchy level.

## Example addTagToDicomDir Entries

### Adding Other Patient Names and Image Orientation

In this example, an image viewer supports displaying the contents of the Other Patient Names DICOM tag in its initial screen. Also, it will start more quickly if the DICOMDIR file contains the Image Orientation (Patient) DICOM tag for each image (otherwise, it needs to read every image on the disc before loading them).

By adding the following addTagToDicomDir parameter entries to the storescp.default.txt file so that the corresponding DICOM tags are included in the DICOMDIR file, the Other Patient Names would appear on the initial image viewer screen, and the image loading would occur much more quickly:

```
addTagToDicomDir = patient:0010, 1001  
addTagToDicomDir = instance:0020, 0037
```

## Improving GE Centricity Viewer Performance

In this example, entering the following addTagToDicomDir parameter entries to the storescp.default.txt file so that the corresponding DICOM tags are included in the DICOMDIR file would significantly improve GE Centricity viewer performance. The images would load in less than 30 seconds, instead of the several minutes it could take to read this set of information from each image file on the disc.

```
addTagToDicomDir = instance:0008, 0008  
addTagToDicomDir = instance:0008, 0016  
addTagToDicomDir = instance:0008, 0018  
addTagToDicomDir = instance:0008, 0022  
addTagToDicomDir = instance:0008, 0032  
addTagToDicomDir = instance:0018, 0050  
addTagToDicomDir = instance:0018, 5100  
addTagToDicomDir = instance:0020, 0012  
addTagToDicomDir = instance:0020, 0013  
addTagToDicomDir = instance:0020, 0032  
addTagToDicomDir = instance:0020, 0037  
addTagToDicomDir = instance:0020, 1041  
addTagToDicomDir = instance:0028, 0004  
addTagToDicomDir = instance:0028, 0010  
addTagToDicomDir = instance:0028, 0011  
addTagToDicomDir = instance:0028, 0030  
addTagToDicomDir = instance:0028, 0100  
addTagToDicomDir = instance:0028, 0101  
addTagToDicomDir = instance:0028, 0103  
addTagToDicomDir = instance:0028, 1050  
addTagToDicomDir = instance:0028, 1051  
addTagToDicomDir = instance:0028, 1052  
addTagToDicomDir = instance:0028, 1053  
addTagToDicomDir = instance:0028, 1055
```

## Technical Support

If problems occur while using a Virtua system, contact Codonics Technical Support.

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Email: support@codonics.com  
Website: www.codonics.com

*Get it all with just one call*  
**1.800.444.1198**

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