



**TITLE:** DICOM Response to JPEG2000 Baseline Requirements Survey

**SOURCE:** DICOM

**PROJECT:** JPEG2000

**STATUS:** Final

**REQUESTED ACTION:** Input to Requirements Group

**DISTRIBUTION:** WG1 Seoul Meeting, WG1 Web pages.

**Contact:**  
ISO/IEC JTC 1/SC 29/WG 1 Convener - Dr. Daniel T. Lee  
Hewlett-Packard Company, 11000 Wolfe Road, MS42U0, Cupertino, California 95014,  
USA

Tel: +1 408 447 4160, Fax: +1 408 447 2842, E-mail: Daniel\_Lee@hp.com



		1 to 64 (6 bits) 1 to 256 (8 bits) Other: _____ Independent component quantizations Independent component spatial sizes Colour spaces: Luminance (Y) RGB YUV Other(s): <i>must be reversible (for lossless)</i>
	<i>X</i>	
	<i>X</i>	
	<i>X</i>	
2	<i>- no -</i>	Uncompressed ( <i>thumbnails ok</i> )
3	<i>X</i>	Lossless Compression
4	<i>X</i>	Visually Lossless Compression
5	<i>X</i>	Visually Lossy Compression
6	<i>X</i>	Progressive Spatial
7	<i>X</i>	Progressive Quality
8	<i>- no -</i>	Security
9	<i>- no -</i>	Error Resilience( <i>detection ok</i> )
10		Complexity Scalability
11	<i>X</i>	Strip Processing
12	<i>X</i>	Sensor Specific Compression Flexibility
13	<i>- no -</i>	Information Embedding
14	<i>X</i>	Repetitive Encoding/Decoding
15	<i>- no -</i>	Object-Based Functionality
16		MPEG4 VTC Compatibility
TBD		ITU-T.44 Mixed Raster Content (MRC) Model Compat.
17		Decoder - Backward Compatibility
18	<i>X</i>	Decoder - ROI Decoding
19	<i>X</i>	Decoder - Fast/Random Data Access
20		Decoder - Implementation Complexity
24		Decoder - Geometric Manipulation
21	<i>X</i>	Encoder - ROI Encoding
22	<i>X</i>	Encoder - Fast Encoder
23		Encoder - Implementation Complexity