

X9 REGISTRY FOR CHECK IMAGE TESTS

CONTROLLING SPECIFICATION: ANS X9.100-40 Parts 1 & 2

Image Test Name: IBM Decompress Status
Image Test Number: 024.00
Image Test Version: 00
Image Test Status: A

Where:

A = Active (approved for use)

W = Withdrawn (not for use)

*S = Superseded (not for use -
replaced by specified test)*

1	Applicant Information	
1.1	Organization Name:	IBM Corporation
1.2	Organization Address:	8501 IBM Drive MG83/202-3 Charlotte, NC 28262
1.3	Organization Web Site URL:	http://www.ibm.com

Approved by: X9 RMG for Check Image Tests March 30, 2007

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2	Image Test Description	
2.1	Image Test Name:	IBM Decompress Status
2.2	Image Test XML Name:	decompressfail
2.3	Image Test Definition:	A metric used to report the success or failure in extracting the image data from the image file
2.4	Image Test Applicability: Check all that apply.	<input checked="" type="checkbox"/> <i>Front Image</i> <input checked="" type="checkbox"/> <i>Rear Image</i> <input checked="" type="checkbox"/> <i>B/W Image</i> <input checked="" type="checkbox"/> <i>Grayscale Image</i> <input type="checkbox"/> <i>Color Image</i>
2.5	Intended Use: Intended business use/ application, business context, and business impact when test fails.	This metric will report a failure if the Image Analysis software is unable to extract the image data from the image file.
2.6	Possible Causes for Condition Being Tested:	This test will execute whenever an image is processed. This metric will be generated for every image. Failure will be reported if the software encounters a problem in decoding the compressed data within the image. This metric can fail when there is a problem with the image. For example, one could have invalid G4 encoding within a black/white image, or due to a code problem, non-image data might be sent to IQA by mistake.
2.7	Additional (or Repetitive) Information:	<p>This check is performed on every image.</p> <p>An excerpt of the XML output generated by IQA for this metric is shown below:</p> <pre><decompressfail>-1</decompressfail></pre> <p>There are no parameters associated with this metric.</p>

2.8 Test Results Reported

A test result is the outcome realized from executing an image test. The outcome will typically be the observed or measured value of some attribute pertaining to the image being tested.

Any dependency of a test result on an image side (front or rear), image rendition (B/W, Gray, Color), or other condition shall be fully defined in the Additional Information section.

Data types allowed are as defined in ANS X9.100-180-2006, but are typically alphabetic, numeric, alphanumeric, signed numeric (using “+” and “-“ to denote sign), etc.

2.8.1 First Image Test Result

Test Result Name: Compressed Score Low

Test Result XML Name:	Data Type:	Data Units:	Data Range:	Margin of Error (in Data Units) (Where Applicable):
decompressstatus	Numeric	None	0 to -100000	

Description: This value provides the decompress status of the image. **Note:** These values are generally of use only when debugging a particular image operation. They are not generally useful for users.

Formula and/ or Algorithm: This value can be generated from within the Image Quality Analysis software. If the image data was successfully extracted from the image, this value will be '0'. If there was a problem in extracting the data, the value will be negative. Because these codes are not generally useful to users, and additional values may be added if required, the values shown in the following table are split up into ranges, with the type of error reported listed

Value	Definition
0	No problems noted. Decompression operation was successful.
-1 through -100	General failures – generally due to invalid images
-101 through -129	TIFF wrapper problem, may also be due to invalid images
-130 through -149	IOCA wrapper problem, may also be due to invalid images
-150 through -199	MO:DCA wrapper problem, may also be due to invalid images
-200 through -220	JPEG or Buffer Size mismatch problem, may also be due to invalid images
-230 through -36640	General image decompression problems, may also be due to invalid images

Additional Information:

2.9	<p>Test Parameters Reported</p> <p><i>Examples of image test parameters are threshold values used to compute a pass/fail image test flag condition, and constant values used in a formula or algorithm to compute an image test result.</i></p> <p><i>Any dependency of a test parameter on an image side (front or rear), image rendition (B/W, Gray, Color), or other condition shall be fully defined in the Additional Information section.</i></p> <p><i>Any dependency of recommended values on an image side (front or rear), image rendition (B/W, Gray, Color), or other condition shall be fully defined in the Recommended Values section.</i></p> <p><i>Data types allowed are as defined in ANS X9.100-180-2006, but are typically alphabetic, numeric, alphanumeric, signed numeric (using "+" and "-" to denote sign), etc.</i></p>
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No Test Parameters defined for this test.

2.10	<p>Image Test Flag Pass/Fail Criteria:</p> <p><i>The Image Test Flag (see ANS X9.100-40-1-2006 for details) will convey one of the following four test conditions:</i></p> <ul style="list-style-type: none"> • <i>Condition not tested</i> • <i>Condition tested and result = fail</i> • <i>Condition tested and result = pass</i> • <i>Condition tested and result=indeterminate</i> 	<p>The criteria used for setting the pass/fail test flag for this image is the value of the decompress status. If the image decompresses with no problem and returns a value of '0', then this test will pass. If the decompress operation provides a return code of anything other than '0', then the decompression of the image has failed and the pass/fail flag will be set to <i>fail</i>.</p>
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3	Restrictions & Intellectual Property	
3.1	Are there any known restrictions in the use of the submitted check image test and related technology (technical, performance, legal, business, platform, etc.)?	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes - <i>please provide details:</i>
3.2	Are proprietary Intellectual Property (IP) rights in the form of Patents associated with the description and use of the submitted check image test?	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes – <i>Please provide patent and/or patent application numbers and indicate who owns the IP. Also provide evidence that the patent holder agrees to comply with the X9 Procedures including the X9 patent policy:</i>
3.3	Are proprietary Intellectual Property (IP) rights in the form of proprietary material and/or other intellectual property (e.g. specific to a vendor tool, device, or product) associated with the description and use of the submitted check image test?	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes – <i>Please provide evidence that the owner agrees to provide the Proprietary IP Holder Statement contained in Annex B of ANS X9.100-40-2006 Part 2:</i>

Notice: By accepting a check image test for registration, ASC X9 is not endorsing, certifying validity, certifying performance, nor providing any warranty for the registered check image test. The organization using the test shall determine which test(s) to use based on their own business needs, perceived benefit, and validation/assessment of any test results provided by the check image test supplier, their own testing, or a third party.