

X9 REGISTRY FOR CHECK IMAGE TESTS

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

Image Test Name: IBM Overall Score

Image Test Number: 038.00

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W = Withdrawn (not for use)

*S = Superseded (not for use -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

© ASC X9, Inc. 2007 – All rights reserved

2	Image Test Description	
2.1	Image Test Name:	IBM Overall Score
2.2	Image Test XML Name:	overallscore
2.3	Image Test Definition:	A single metric providing a quick assessment of the image quality
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 provides an “overall score” of an image on a scale of 0 to 1000, where ‘0’ indicates that the image is unusable and ‘1000’, which indicates the image meets all image quality tests that were applied.
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.
2.7	Additional (or Repetitive) Information:	<p>This test is performed by taking a geometric mean of the three lowest image test “scores” generated by other tests performed on the image under test and providing the results as the overall score.</p> <p>The parameters that are reported in this test are also available in XML format from the IBM IQA product. An excerpt of the XML output by the product for this test is shown below:</p> <pre><overallscore>10.0</overallscore></pre> <p>The parameters and test thresholds used for performing this test are settable by the user. Please refer to section 2.10 for information regarding how the test “score” is obtained and how the score is used to decide pass or fail criteria. The value reported by the <overallscore> XML is multiplied by 100 and type cast to integer type when reported by the type 56 record.</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: Overall Score

Test Result XML Name:	Data Type:	Data Units:	Data Range:	Margin of Error (in Data Units) (Where Applicable):
overallscore	Numeric	None	0 to 1000	
Description:	This value provides an assessment of the image quality based on a combination of the results of individual tests that were performed on the image under test. This test will fail if its metric is less than a predetermined value, the test. If the overallscore is greater than or equal to the predetermined value, this test passes .			
Formula and/ or Algorithm:	This value is the result of generating an “overallscore” value and comparing this overall score of the image to a threshold. The test will fail if the score is below a user controllable parameter.			
Additional Information:	The threshold used for this test is controlled by the user. The threshold is reported in the Test Parameters portion of the record. This value is also reported by the IBM IQA product in its XML output, but scaled from 0 to 10. This parameter is reported in the XML as the <overallscore> item. For an example of the IBM IQA XML output of this parameter, see section 2.7. Refer to section 2.10 for detailed information on scoring and thresholding.			

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>
------------	---

2.9.1 First Test Parameter				
Test Parameter Name: Test Threshold				
Test Parameter XML Name:	Data Type:	Data Units:	Data Range:	Recommended Value(s) (Where Applicable):
	Numeric	None	0-1000	700 (default)
Description:	This reported parameter is the threshold used to make the pass/fail decision. This value is settable by the user. If the calculated “score” is greater than or equal to the threshold, the test passes. If the “score” is lower than the threshold, the test fails.			
Additional Information:	This value corresponds to the value that the user sets in the IBM IQA profile that is active for this test execution. The value may be set to any floating point value between 0 and 10.0 by the user. In reporting this parameter, the value is multiplied by 100 and converted to an integer.			

<p>2.10</p>	<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 software will <i>always</i> report this result. There will be two possible results:</p> <ul style="list-style-type: none"> • <i>Condition tested and result = fail</i> This test will fail when the overall score generated for the image under test is <i>less</i> than the test threshold value. • <i>Condition tested and result = pass</i> This test will pass when the overall score generated for the image under test is <i>greater than or equal to</i> the test threshold value.
--------------------	---	--

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.