

IPP Tests – Short Description

The tests are fully described in the document “Test Requirements (IPP version 1.0 Server Test System). The scope of this section intention is to outline the testing methodology for IPP/1.0.

The tests are split into two big sections:

- *Mandatory Tests*
- *Optional Tests*

Each section contains one or more subsections, named Test Jobs. Some of the Test Jobs contain other Test Jobs and/or Test Cases.

A Test Job is a collection of Test Cases. A Test Case describes the execution of a test scenario. A test case has clear pass/fail criteria and generally tests only one protocol requirement.

Mandatory Tests

These tests apply only to the REQUIRED IPP operations (*Print-Job, Validate-Job, Cancel-Job, Get-Printer-Attributes, Get-Job-Attributes and Get-Jobs*).

The *Mandatory Tests* include several subsections (Test Jobs):

- “*Version-number*” Tests
- “*Operation-id*” Tests
- “*Request-id*” Tests
- (*The Presence and Order of*) *Attribute Groups* Tests
- *Required Operations* Tests

Optional Tests

These tests apply to the OPTIONAL IPP operations (*Print-URI, Create-Job, Send-Document and Send-URI*).

The *Optional Tests* section contains only one subsection (Test Job):

- *Optional Operation* Tests

Mandatory Tests – Tests Description

Test Job Name	Test Job Description	Tests List
3.1.Version-number	This Job tests if the IPP object checks the major version-number supplied by the client. The tester sends a request with a version-number that is supported (1.0) and the IPP object must not reject it with	M-3-1-01 M-3-1-02 M-3-1-03 M-3-1-04 M-3-1-05

	The tests associated with this Job use different combinations of major and minor version numbers.	
3.2. Operation-id	<p>This Test Job tests if the Printer object checks to see if the "<i>operation-id</i>" attribute supplied by the client is supported as indicated in the Printer object's "<i>operations-supported</i>" attribute.</p> <p>In the first six tests in this Job the tester sends requests using as values for the "<i>operation-id</i>" parameter the values associated with the required IPP operations (<i>Print-Job, Validate-Job, Cancel-Job, Get-Job-Attributes, Get-Jobs, Get-Printer-Attributes</i>). The Printer is expected not to reject the requests with a "server-error-operation-not-supported" status code.</p> <p>In the other tests the tester send request with unsupported values for the "<i>operation-id</i>". The Printer should reject them and return '<i>server-error-operation-not-supported</i>' status code.</p>	M-3-2-01 M-3-2-02 M-3-2-03 M-3-2-04 M-3-2-05 M-3-2-06 M-3-2-07 M-3-2-08 M-3-2-09 M-3-2-10
3.3 Request-id	<p>This Job tests if the Printer object returns the same "<i>request-id</i>" in the response (even if the IPP client supplies a value that is not in the range: between 1 and $2^{31} - 1$).</p> <p>For every IPP required operation, the tester sends requests with various (valid and invalid) values for the "<i>request-id</i>" parameter. The Printer is expected to return the same values in the corresponding responses.</p>	M-3-3-01 M-3-3-02 M-3-3-03 M-3-3-04 M-3-3-05 M-3-3-06
3.4. Attribute Groups	<p>This Test Job tests if an IPP object verifies that the attribute groups are present and in the correct order in requests supplied by clients.</p> <p>The tester sends some requests with all the required attributes groups. The IPP object is not expected to reject these requests.</p> <p>Then are sent various invalid requests (with unknown groups / with groups that are out of order / with repeated groups). The IPP object is expected to reject these requests and return the '<i>client-error-bad-requests</i>' status code.</p>	See the table "3.4. Attribute Groups – Tests Description"

	<p>The Job contains <i>six Jobs</i>:</p> <p>3.4.1. Print-Job 3.4.2. Validate-Job 3.4.3. Cancel-Job 3.4.4. Get-Job-Attributes 3.4.5. Get-Printer-Attributes 3.4.6. Get-Jobs</p>	
3.5. Required Operations	<p>Mainly, this Test Job verifies that the IPP object performs all required syntactic validation checks upon supplied attributes (either REQUIRED or OPTIONAL) in client requests.</p> <p>For every required operation several tests will be performed in order to check for correct responses.</p> <p>The Test Job contains 6 Test Jobs:</p> <p>3.5.1. Print-Job 3.5.2. Validate-Job 3.5.3. Cancel-Job 3.5.4. Get-Printer-Attributes 3.5.5. Get-Job-Attributes 3.5.6. Get-Jobs</p>	<p>See the table “3.5. Required Operations – Tests Description”</p>

3.4. Attribute Groups – Tests Description

<i>Test Job Name</i>	<i>Test Job Description</i>	<i>Tests List</i>
3.4.1 Print-Job	<p>This Job tests if the Printer checks if the client supplied all required attributes groups and in the correct order in Print-Job requests. Also, it tests if the Printer returns in its responses appropriate status-codes and attribute groups or if the Printer ignores some unknown attribute groups situated just before the Document Content group.</p> <p>Some of the tests are repeated with the operational attribute “<i>ipp-attribute-fidelity</i>” having the ‘<i>true</i>’ and ‘<i>false</i>’ values.</p> <p>Here are several tests descriptions:</p> <ul style="list-style-type: none"> • The tester sends a Print-Job request with the Operation Attributes and Document Content groups. The Printer should accept the request and return Operation Attributes and Job Object Attributes groups. 	<p>M-3-4-1-01 M-3-4-1-02 M-3-4-1-03 M-3-4-1-04 M-3-4-1-05 M-3-4-1-06 M-3-4-1-07 M-3-4-1-08 M-3-4-1-09 M-3-4-1-10 M-3-4-1-11 M-3-4-1-12 M-3-4-1-13 M-3-4-1-14 M-3-4-1-15 M-3-4-1-16</p>

	<p>Operation Attributes group duplicated and the Document Content group. The Printer should reject it and return <i>'client-error-bad-request'</i> status code.</p> <ul style="list-style-type: none"> • The tester sends a Print-Job request with Document Content Group missing. The Printer should reject it and return <i>'client-error-bad-request'</i> status code. • The tester sends a Print-Job request with Operation Attributes, Job Template Attributes (containing some attribute that may be or may be not supported by the Printer) and Document Content. The Printer is expected either to accept the request (if it supports the Job Template attribute) or to reject it and return the attribute in the Unsupported Attributes group. 	
<p>3.4.2. Validate-Job</p>	<p>This Job tests if the Printer checks if the client supplied all required attributes groups and in the correct order in Validate-Job requests. Further more, it tests if the Printer returns in its responses appropriate status-codes and attribute groups or if the Printer ignores some unknown attribute groups situated at the end of request.</p> <p>Some of the tests are repeated with the operational attribute <i>"ipp-attribute-fidelity"</i> having the <i>'true'</i> and <i>'false'</i> values.</p> <p>Here are several tests descriptions:</p> <ul style="list-style-type: none"> • The tester sends a Validate-Job request with the Operation Attributes group. The Printer should accept the request and return Operation Attributes group. • The tester sends a Validate-Job request with the Operation Attributes (containing an unsupported attribute) group. The Printer should accept the request and return Operation Attributes, Unsupported Attributes groups. • The tester sends a Validate-Job request with an unknown group as the first attributes group and with the Operation Attributes group as the 2nd. The Printer should reject it and return <i>'client-error-bad-request'</i> status code. • The tester sends a Validate-Job request with the Operation Attributes group duplicated. The Printer should reject it and return <i>'client-error-bad-request'</i> status code. • The tester sends a Validate-Job request with Job Attributes group as the 1st group and the Operation Attributes as the 2nd group. The Printer should reject it and return <i>'client-error-bad-request'</i> status code. 	<p>M-3-4-2-01 M-3-4-2-02 M-3-4-2-03 M-3-4-2-04 M-3-4-2-05 M-3-4-2-06 M-3-4-2-07 M-3-4-2-08 M-3-4-2-09 M-3-4-2-10 M-3-4-2-11 M-3-4-2-12 M-3-4-2-13 M-3-4-2-14 M-3-4-2-15 M-3-4-2-16 M-3-4-2-17 M-3-4-2-18 M-3-4-2-19 M-3-4-2-20 M-3-4-2-21 M-3-4-2-22 M-3-4-2-23 M-3-4-2-24 M-3-4-2-25 M-3-4-2-26 M-3-4-2-27 M-3-4-2-28</p>

	<p>that they are at the end of request. Also, the tests verify if the Job object included only the Operation Attributes group in its responses.</p> <p>Every test in this Job contains a simple Print-Job request, which is expected to be successful (accepted by the Printer). Then the tester makes a Cancel-Job request targeted at the job returned in Print-Job response.</p> <p>Here are some of the Cancel-Job requests/responses descriptions:</p> <ul style="list-style-type: none"> • The tester sends a valid Cancel-Job request. The Job object is expected to return either the <i>'successful-ok'</i> status code (if the job was successfully canceled) or <i>'client-error-not-found'</i>/<i>'client-error-not-possible'</i>/<i>'client-error-gone'</i> status code (if the job has already finished or someone else had aborted/canceled it). • The tester sends a Cancel-Job with duplicated Operation Attributes group. The Job object is expected to reject it and return <i>'client-error-bad-request'</i>. • The tester sends a Cancel-Job with an unknown group as the 1st group and with Operation Attributes as the 2nd group. The Job object is expected to reject it and return <i>'client-error-bad-request'</i>. • The tester sends a Cancel-Job with Operation Attributes as the 1st group and with an unknown group as the 2nd group. The Job object is expected to ignore the unsupported group and to return either the <i>'successful-ok'</i> status code (if the job was successfully canceled) or <i>'client-error-not-found'</i>/<i>'client-error-not-possible'</i>/<i>'client-error-gone'</i> status code (if the job has already finished or someone else had aborted/canceled it). 	M-3-4-3-04 M-3-4-3-05 M-3-4-3-06 M-3-4-3-07 M-3-4-3-08 M-3-4-3-09 M-3-4-3-10 M-3-4-3-11 M-3-4-3-12
3.4.4. Get-Job-Attributes	<p>This Test Job tests if the Job object checks if the client supplied the Operation Attributes group in a Get-Job-Attributes request or, if some other unknown groups are included, that they are at the end of request. Also, the tests verify if the Job object included only the Operation Attributes group in its responses.</p> <p>Every test in this Job contains a simple Print-Job request, which is expected to be successful (accepted by the Printer). Then the tester makes a Get-Job-Attributes request targeted at the job returned in Print-Job response.</p>	M-3-4-4-01 M-3-4-4-02 M-3-4-4-03 M-3-4-4-04 M-3-4-4-05 M-3-4-4-06 M-3-4-4-07 M-3-4-4-08

	<p>Operation Attributes group. The Job object is expected to reject it and return <i>'client-error-bad-request'</i>.</p> <ul style="list-style-type: none"> The tester sends a Get-Job-Attributes with an unknown group as the 1st group and with Operation Attributes as the 2nd group. The Job object is expected to reject it and return <i>'client-error-bad-request'</i>. The tester sends a Get-Job-Attributes with Operation Attributes as the 1st group and with an unknown group as the 2nd group. The Job object is expected to ignore the unsupported group and to return either the <i>'successful-ok'</i> status code and the Job Object Attributes not empty (if the job was found) or <i>'client-error-not-found'</i>/<i>'client-error-not-possible'</i>/<i>'client-error-gone'</i> status code (if the job has already finished or someone else had aborted/canceled it). 	
<p>3.4.5. Get-Printer-Attributes</p>	<p>This Test Job tests if the Printer object checks for the presence and order of attributes groups in client requests. Also, they test if the Printer ignores unknown attribute groups situated at the end of the request.</p> <p>Every test consists of a single (valid or invalid) Get-Printer-Attributes request.</p> <p>Some tests perform Get-Printer-Attributes requests with duplicated Operation Attributes groups or with an unknown attribute group as the 1st group. In these cases, the Printer object is expected to reject the requests and return the <i>'client-error-bad-request'</i> status code.</p> <p>Other tests perform Get-Printer-Attributes requests only with Operation Attributes group or with Operation Attributes group as the 1st group and an unknown group as the 2nd group. The Printer is expected to accept these requests and return some attributes in the Printer Object Attributes group. If the requests include some unsupported operational attributes the Printer is expected to return them in the Unsupported Attributes group.</p>	<p>M-3-4-5-01 M-3-4-5-02 M-3-4-5-03 M-3-4-5-04 M-3-4-5-05 M-3-4-5-06 M-3-4-5-07 M-3-4-5-08</p>
<p>3.4.6. Get-Jobs</p>	<p>This Test Job tests if the Job object checks if the client supplied the Operation Attributes group in a Get-Jobs request or, if some other unknown groups are included, that they are at the end of request. Also, the tests verify if the Job object included the appropriate attributes group in its responses.</p>	<p>M-3-4-6-01 M-3-4-6-02 M-3-4-6-03 M-3-4-6-04 M-3-4-6-05 M-3-4-6-06</p>

	<p>attributes "requested-attributes" with the value 'all'.</p> <p>Here are some of the Get-Jobs requests/responses descriptions:</p> <ul style="list-style-type: none"> • The tester sends a valid Get-Jobs request. The Printer object is expected to accept the request and return the 'successful-ok' status code and zero or more Job Object Attributes groups. • The tester sends a Get-Jobs with duplicated Operation Attributes group. The Printer object is expected to reject it and return 'client-error-bad-request'. • The tester sends a Get-Jobs with an unknown group as the 1st group and with Operation Attributes as the 2nd group. The Printer object is expected to reject it and return 'client-error-bad-request'. • The tester sends a Get-Jobs with Operation Attributes as the 1st group and with an unknown group as the 2nd group. The Printer object is expected to ignore the unsupported group and to return the 'successful-ok' status code and zero or more Job Object Attributes groups. 	<p>M-3-4-6-18 M-3-4-6-19 M-3-4-6-20 M-3-4-6-21 M-3-4-6-22 M-3-4-6-23 M-3-4-6-24</p>
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3.5. Required Operations – Tests Description

Test Job Name	Test Job Description	Tests List
<p>3.5.1 Print-Job</p>	<p>This Test Job tests if the Printer makes all appropriate syntactic validation checks against the Operation and Job Template Attributes supplied by the client in a Print-Job request.</p> <p>The tester will submit various Print-Job requests containing (among other attributes) one specific Operation / Job Template attribute with different valid and invalid syntaxes/values. That's way this Test Job is separated in several Test Jobs:</p> <ul style="list-style-type: none"> A) ipp-attribute-fidelity B) attributes-charset C) attributes-natural-language D) requesting-user-name E) job-name F) document-name G) document-format 	<p>See "3.5.1. Print-Job – Tests Description"</p>

	<p>S) page-ranges T) sides U) number-up V) orientation-requested W) media X) printer-resolution Y) print-quality</p> <p>In every Print-Job request Group 1 will contain the following REQUIRED Operation Attributes: "<i>attributes-charset</i>", "<i>attributes-natural-language</i>", "<i>printer-uri</i>" and in some of them will contain "<i>ipp-attribute-fidelity</i>". Group 2 will be either Document Content or Job Template Attributes (when group 3 will be Document Content).</p>	
<p>3.5.2. Validate-Job</p>	<p>This Test Job tests if the Printer makes all appropriate syntactic validation checks against the Operation and Job Template Attributes supplied by the client in a Validate-Job request.</p> <p>The tester will submit various Validate-Job requests containing (among other attributes) one specific Operation / Job Template attribute with different valid and invalid syntaxes/values. That's way this Test Job is separated in several Test Jobs:</p> <p>A) ipp-attribute-fidelity B) attributes-charset C) attributes-natural-language D) requesting-user-name E) job-name F) document-name G) document-format H) document-natural-language I) compression J) job-k-octets K) job-impressions L) job-media-sheets M) job-priority N) job-hold-until O) job-sheets P) multiple-document-handling Q) copies R) finishings S) page-ranges T) sides</p>	<p>See "3.5.2. Validate-Job – Tests Description"</p>

	others will not have any Group 2.	
3.5.3. Cancel-Job	<p>This Test Job tests if the Job object makes all appropriate syntactic validation checks against the Operation Attributes supplied by the client in a Cancel-Job request.</p> <p>The tester will submit various Cancel-Job requests containing (among other attributes) one specific Operation attribute with different valid and invalid syntaxes/values. That's way this Test Job is separated in several Test Jobs:</p> <ul style="list-style-type: none"> A) attributes-charset B) attributes-natural-language C) requesting-user-name D) message <p>In every Cancel-Job request Group 1 will contain the following REQUIRED Operation Attributes: "<i>attributes-charset</i>", "<i>attributes-natural-language</i>", ("<i>printer-uri</i>" & "<i>job-id</i>") or "<i>job-uri</i>".</p> <p>Before each Cancel-Job request a simple Print-Job will be submitted. The Printer object is expected to accept it and return a valid "<i>job-id</i>" or "<i>job-uri</i>" whose values will be used to specify the target of Cancel-Job requests.</p>	See "3.5.3. Cancel-Job – Tests Description"
3.5.4. Get-Printer-Attributes	<p>This Test Job tests if the Printer makes all appropriate syntactic validation checks against the Operation Attributes supplied by the client in a Get-Printer-Attributes request.</p> <p>The tester will submit various Get-Printer-Attributes requests containing (among other attributes) one specific Operation attribute with different valid and invalid syntaxes/values. That's way this Test Job is separated in several Test Jobs:</p> <ul style="list-style-type: none"> A) attributes-charset B) attributes-natural-language C) requesting-user-name D) requested-attributes E) document-format <p>In every Get-Printer-Attributes request Group 1 will contain the following REQUIRED Operation Attributes:</p>	See "3.5.4. Get-Printer-Attributes – Tests Description"

	<p>syntaxes/values. That's way this Test Job is separated in several Test Jobs:</p> <ul style="list-style-type: none"> A) attributes-charset B) attributes-natural-language C) requesting-user-name D) requested-attributes <p>In every Get-Job-Attributes request Group 1 will contain the following REQUIRED Operation Attributes: "<i>attributes-charset</i>", "<i>attributes-natural-language</i>", ("<i>printer-uri</i>" & "<i>job-id</i>") or "<i>job-uri</i>".</p> <p>Before each Get-Job-Attributes request a simple Print-Job will be submitted. The Printer object is expected to accept it and return a valid "<i>job-id</i>" or "<i>job-uri</i>" whose values will be used to specify the target of Get-Job-Attributes requests.</p>	
<p>3.5.6. Get-Jobs</p>	<p>This Test Job tests if the Printer makes all appropriate syntactic validation checks against the Operation Attributes supplied by the client in a Get-Jobs request.</p> <p>The tester will submit various Get-Jobs requests containing (among other attributes) one specific Operation attribute with different valid and invalid syntaxes/values. That's way this Test Job is separated in several Test Jobs:</p> <ul style="list-style-type: none"> A) attributes-charset B) attributes-natural-language C) requesting-user-name D) requested-attributes E) my-jobs F) limit G) which-jobs <p>In every Get-Jobs request Group 1 will contain the following REQUIRED Operation Attributes: "<i>attributes-charset</i>", "<i>attributes-natural-language</i>" and "<i>printer-uri</i>".</p> <p>Before each Get-Jobs request one or more simple Print-Job request(s) will be submitted. The Printer object is expected to accept them and return valid "<i>job-id</i>" or "<i>job-uri</i>" values.</p>	<p>See "3.5.6. Get-Jobs – Tests Description"</p>

3.5.1 Print-Job – Tests Description

Test Job Name	Test Job Description	Tests List
A) ipp-attribute-fidelity	<p>This Test Job tests if the Printer object validates the “<i>ipp-attribute-fidelity</i>” REQUIRED Operation Attribute in a Print-Job request.</p> <ul style="list-style-type: none"> The tester sends Print-Job requests with the “<i>ipp-attribute-fidelity</i>” not supplied or supplied with the ‘<i>false</i>’ / ‘<i>true</i>’ values. The Printer is expected to accept these requests. The tester sends Print-Job requests with “<i>ipp-attribute-fidelity</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. 	<p>M-3-5-1-A-01 M-3-5-1-A-02 M-3-5-1-A-03 M-3-5-1-A-04 M-3-5-1-A-05 M-3-5-1-A-06</p>
B) attributes-charset	<p>This Test Job tests if the Printer object validates the “<i>attributes-charset</i>” REQUIRED Operation Attribute in a Print-Job request.</p> <ul style="list-style-type: none"> The tester sends Print-Job requests with the “<i>attributes-charset</i>” supplied with the REQUIRED value ‘<i>utf-8</i>’. The Printer is expected to accept these requests. The tester sends Print-Job requests with “<i>attributes-charset</i>” having an unsupported value. The Printer is expected to reject the requests and return ‘<i>client-error-charset-not-supported</i>’ status-code. The tester sends Print-Job requests with “<i>attributes-charset</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. The tester sends Print-Job requests with “<i>attributes-charset</i>” having a wrong value length (> 63 octets). The Printer is expected to reject the requests and return ‘<i>client-error-request-value-too-long</i>’ status-code. The tester performs a Get-Printer-Attributes to find out the Printer’s “<i>charset-supported</i>” attribute values. The request is expected to be successful. Then for each of these values sends a Print-Job with “<i>attributes-charset</i>” having that value. The Printer is expected to accept each request. 	<p>M-3-5-1-B-01 M-3-5-1-B-02 M-3-5-1-B-03 M-3-5-1-B-04 M-3-5-1-B-05 M-3-5-1-B-06 M-3-5-1-B-07 M-3-5-1-B-08 M-3-5-1-B-09 M-3-5-1-B-10 M-3-5-1-B-11 M-3-5-1-B-12 M-3-5-1-B-13</p>
C) attributes-	<p>This Test Job tests if the Printer object validates the</p>	<p>M-3-5-1-C-01</p>

	<ul style="list-style-type: none"> • The tester sends Print-Job requests with “<i>attributes-natural-language</i>” having a wrong value length (> 63 octets). The Printer is expected to reject the requests and return ‘<i>client-error-request-value-too-long</i>’ status-code. • The tester performs a Get-Printer-Attributes to find out the Printer’s “<i>generated-natural-language-supported</i>” attribute values. The request is expected to be successful. Then for each of these value sends a Print-Job with “<i>attributes-natural-language</i>” having that value. The Printer is expected to accept each request. 	M-3-5-1-C-13
D) requesting-user-name	<p>This Test Job tests if the Printer object validates the “<i>requesting-user-name</i>” REQUIRED Operation Attribute in a Print-Job request.</p> <ul style="list-style-type: none"> • The tester sends Print-Job requests with the “<i>requesting-user-name</i>” supplied with valid values (having either <i>nameWithLanguage</i> or <i>nameWithoutLanguage</i> syntax). The Printer is expected to accept these requests. • The tester sends Print-Job requests with “<i>requesting-user-name</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. • The tester sends Print-Job requests with “<i>requesting-user-name</i>” having a wrong value length (> 255 octets). The Printer is expected to reject the requests and return ‘<i>client-error-request-value-too-long</i>’ status-code. 	M-3-5-1-D-01 M-3-5-1-D-02 M-3-5-1-D-03 M-3-5-1-D-04 M-3-5-1-D-05 M-3-5-1-D-06 M-3-5-1-D-07 M-3-5-1-D-08 M-3-5-1-D-09 M-3-5-1-D-10 M-3-5-1-D-11 M-3-5-1-D-12 M-3-5-1-D-13 M-3-5-1-D-14 M-3-5-1-D-15 M-3-5-1-D-16 M-3-5-1-D-17 M-3-5-1-D-18
E) job-name	<p>This Test Job tests if the Printer object validates the “<i>job-name</i>” REQUIRED Operation Attribute in a Print-Job request.</p> <ul style="list-style-type: none"> • The tester sends Print-Job requests with the “<i>job-name</i>” supplied with valid values (having either <i>nameWithLanguage</i> or <i>nameWithoutLanguage</i> syntax). The Printer is expected to accept these requests. • The tester sends Print-Job requests with “<i>job-name</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. • The tester sends Print-Job requests with “<i>job-name</i>” having a wrong value length (> 255 octets). 	M-3-5-1-E-01 M-3-5-1-E-02 M-3-5-1-E-03 M-3-5-1-E-04 M-3-5-1-E-05 M-3-5-1-E-06 M-3-5-1-E-07 M-3-5-1-E-08 M-3-5-1-E-09 M-3-5-1-E-10 M-3-5-1-E-11 M-3-5-1-E-12 M-3-5-1-E-13 M-3-5-1-E-14

	<p>requests.</p> <ul style="list-style-type: none"> • The tester sends Print-Job requests with “<i>document-name</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. • The tester sends Print-Job requests with “<i>document-name</i>” having a wrong value length. The Printer is expected to reject the requests and return ‘<i>client-error-request-value-too-long</i>’ status-code. 	<p>M-3-5-1-F-08 M-3-5-1-F-09 M-3-5-1-F-10 M-3-5-1-F-11 M-3-5-1-F-12 M-3-5-1-F-13 M-3-5-1-F-14 M-3-5-1-F-15 M-3-5-1-F-16 M-3-5-1-F-17 M-3-5-1-F-18</p>
G) document-format	<p>This Test Job tests if the Printer object validates the “<i>document-format</i>” REQUIRED Operation Attribute in a Print-Job request.</p> <ul style="list-style-type: none"> • The tester sends Print-Job requests with “<i>document-format</i>” having an unsupported value. The Printer is expected to reject the requests and return ‘<i>client-error-document-format-not-supported</i>’ status-code. • The tester sends Print-Job requests with “<i>document-format</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. • The tester sends Print-Job requests with “<i>document-format</i>” having a wrong value length (> 255 octets). The Printer is expected to reject the requests and return ‘<i>client-error-request-value-too-long</i>’ status-code. • The tester performs a Get-Printer-Attributes to find out the Printer object’s “<i>document-format-supported</i>” attribute values. The request is expected to be successful. Then for each of these value sends a Print-Job with “<i>document-format</i>” having that value. The Printer is expected to accept each request. 	<p>M-3-5-1-G-01 M-3-5-1-G-02 M-3-5-1-G-03 M-3-5-1-G-04 M-3-5-1-G-05 M-3-5-1-G-06 M-3-5-1-G-07 M-3-5-1-G-08 M-3-5-1-G-09 M-3-5-1-G-10 M-3-5-1-G-11 M-3-5-1-G-12</p>
H) document-natural-language	<p>This Test Job tests if the Printer object validates the “<i>document-natural-language</i>” OPTIONAL Operation Attribute in a Print-Job request.</p> <ul style="list-style-type: none"> • The tester sends Print-Job requests with “<i>document-natural-language</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. • The tester sends Print-Job requests with “<i>document-natural-language</i>” having an unsupported value. The Printer is expected to reject the requests 	<p>M-3-5-1-H-01 M-3-5-1-H-02 M-3-5-1-H-03 M-3-5-1-H-04 M-3-5-1-H-05 M-3-5-1-H-06 M-3-5-1-H-07 M-3-5-1-H-08 M-3-5-1-H-09 M-3-5-1-H-10</p>

<p>I) compression</p>	<p>This Test Job tests if the Printer object validates the “<i>compression</i>” OPTIONAL Operation Attribute in a Print-Job request.</p> <ul style="list-style-type: none"> • The tester sends Print-Job requests with “<i>compression</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. • The tester sends Print-Job requests with “<i>compression</i>” having a wrong value length (> 255 octets). The Printer is expected to reject the requests and return ‘<i>client-error-request-value-too-long</i>’ status-code. • The tester performs a Get-Printer-Attributes to find out the Printer object’s “<i>compression-supported</i>” attribute values. If the Printer doesn’t support the attribute the result of the test is SKIPPED. Otherwise for each value between 1 and the value of “<i>compression-supported</i>” send a Print-Job with “<i>compression</i>” having that value. The Printer is expected to accept each request. If the Printer doesn’t support “<i>compression</i>” it should return the attribute in the Unsupported Attributes group and return ‘<i>successful-ok-ignored-or-substituted-attributes</i>’ status code. 	<p>M-3-5-1-I-01 M-3-5-1-I-02 M-3-5-1-I-03 M-3-5-1-I-04 M-3-5-1-I-05 M-3-5-1-I-06 M-3-5-1-I-07 M-3-5-1-I-08 M-3-5-1-I-09 M-3-5-1-I-10 M-3-5-1-I-11 M-3-5-1-I-12</p>
<p>J) job-k-octets</p>	<p>This Test Job tests if the Printer object validates the “<i>job-k-octets</i>” OPTIONAL Operation Attribute in a Print-Job request.</p> <ul style="list-style-type: none"> • The tester sends Print-Job requests with “<i>job-k-octets</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. • The tester performs a Get-Printer-Attributes to find out the Printer object’s “<i>job-k-octets-supported</i>” attribute value. If the Printer doesn’t support the attribute the result of the test is SKIPPED. Otherwise for each value in the range specified by “<i>job-k-octets-supported</i>” send a Print-Job with “<i>job-k-octets</i>” having that value. The Printer is expected to accept each request. If the Printer doesn’t support “<i>job-k-octets</i>” it should return the attribute in the Unsupported Attributes group and return ‘<i>successful-ok-ignored-or-substituted-attributes</i>’ status code. 	<p>M-3-5-1-J-01 M-3-5-1-J-02 M-3-5-1-J-03 M-3-5-1-J-04 M-3-5-1-J-05 M-3-5-1-J-06 M-3-5-1-J-07 M-3-5-1-J-08 M-3-5-1-J-09</p>
<p>K) job-impressions</p>	<p>This Test Job tests if the Printer object validates the</p>	<p>M-3-5-1-K-01</p>

	<p>specified by “<i>job-impressions-supported</i>” send a Print-Job with “<i>job-impressions</i>” having that value. The Printer is expected to accept each request. If the Printer doesn’t support “<i>job-impressions</i>” it should return the attribute in the Unsupported Attributes group and return ‘<i>successful-ok-ignored-or-substituted-attributes</i>’ status code.</p>	
L) job-media-sheets	<p>This Test Job tests if the Printer object validates the “<i>job-media-sheets</i>” OPTIONAL Operation Attribute in a Print-Job request.</p> <ul style="list-style-type: none"> • The tester sends Print-Job requests with “<i>job-media-sheets</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. • The tester performs a Get-Printer-Attributes to find out the Printer object’s “<i>job-media-sheets-supported</i>” attribute value. If the Printer doesn’t support the attribute the result of the test is SKIPPED. Otherwise for each value in the range specified by “<i>job-media-sheets-supported</i>” send a Print-Job with “<i>job-media-sheets</i>” having that value. The Printer is expected to accept each request. If the Printer doesn’t support “<i>job-media-sheets</i>” it should return the attribute in the Unsupported Attributes group and return ‘<i>successful-ok-ignored-or-substituted-attributes</i>’ status code. 	<p>M-3-5-1-L-01 M-3-5-1-L-02 M-3-5-1-L-03 M-3-5-1-L-04 M-3-5-1-L-05 M-3-5-1-L-06 M-3-5-1-L-07 M-3-5-1-L-08 M-3-5-1-L-09</p>
M) job-priority	<p>This Test Job tests if the Printer object validates the “<i>job-priority</i>” OPTIONAL Job Template Attribute in a Print-Job request.</p> <ul style="list-style-type: none"> • The tester sends Print-Job requests with “<i>job-priority</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code (if it supports the attribute) or to return it in the Unsupported Attributes group (if it doesn’t support it). • For every integer value between 1 and 100 send a Print-Job with “<i>job-priority</i>” having that value. If the Printer supports “<i>job-priority</i>”, it is expected to accept each request. Otherwise it should return the attribute in the Unsupported Attributes group and return ‘<i>successful-ok-ignored-or-substituted-attributes</i>’ / ‘<i>client-error-attributes-or-values-not-supported</i>’ status code depending on the value of “<i>ipp-attribute-fidelity</i>” 	<p>M-3-5-1-M-01 M-3-5-1-M-02 M-3-5-1-M-03 M-3-5-1-M-04 M-3-5-1-M-05 M-3-5-1-M-06 M-3-5-1-M-07 M-3-5-1-M-08 M-3-5-1-M-09</p>

	<ul style="list-style-type: none"> The tester performs a Get-Printer-Attributes to find out the Printer object's "job-hold-until-supported" attribute values. If the Printer doesn't support the attribute the result of the test is SKIPPED. Otherwise, for every value in the set specified by "job-hold-until-supported" attribute value, the tester sends a Print-Job with "job-hold-until" having that value. If the Printer supports "job-hold-until", it is expected to accept each request. Otherwise it should return the attribute in the Unsupported Attributes group and return 'successful-ok-ignored-or-substituted-attributes' / 'client-error-attributes-or-values-not-supported' status code depending on the value of "ipp-attribute-fidelity" operational attribute. The tester sends a Print-Job request with "job-hold-until" having an unsupported value. The Printer is expected to return it in the Unsupported Attributes group with the 'unsupported' out-of-band value (if the Printer doesn't support the attribute) or with the offending value (if the attribute is supported). 	
O) job-sheets	<p>This Test Job tests if the Printer object validates the "job-sheets" OPTIONAL Job Template Attribute in a Print-Job request.</p> <ul style="list-style-type: none"> The tester sends Print-Job requests with "job-sheets" having a wrong syntax. The Printer is expected to reject the requests and return 'client-error-bad-request' status-code (if it supports the attribute) or to return it in the Unsupported Attributes group (if it doesn't support it). The tester performs a Get-Printer-Attributes to find out the Printer object's "job-sheets-supported" attribute values. If the Printer doesn't support the attribute the result of the test is SKIPPED. Otherwise, for every value in the set specified by "job-sheets-supported" attribute value, the tester sends a Print-Job with "job-sheets" having that value. If the Printer supports "job-sheets", it is expected to accept each request. Otherwise it should return the attribute in the Unsupported Attributes group and return 'successful-ok-ignored-or-substituted-attributes' / 'client-error-attributes-or-values-not-supported' status code depending on the value of "ipp-attribute-fidelity" operational attribute. The tester sends a Print-Job request with "job-sheets" having an unsupported value. The Printer is 	M-3-5-1-O-01 M-3-5-1-O-02 M-3-5-1-O-03 M-3-5-1-O-04 M-3-5-1-O-05 M-3-5-1-O-06 M-3-5-1-O-07 M-3-5-1-O-08 M-3-5-1-O-09

	<p>The Printer is expected to reject the requests and return '<i>client-error-bad-request</i>' status-code (if it supports the attribute) or to return it in the Unsupported Attributes group (if it doesn't support it).</p> <ul style="list-style-type: none"> The tester performs a Get-Printer-Attributes to find out the Printer object's "<i>multiple-document-handling-supported</i>" attribute values. If the Printer doesn't support the attribute the result of the test is SKIPPED. Otherwise, for every value in the set specified by "<i>multiple-document-handling-supported</i>" attribute value, the tester sends a Print-Job with "<i>multiple-document-handling</i>" having that value. If the Printer supports "<i>multiple-document-handling</i>", it is expected to accept each request. Otherwise it should return the attribute in the Unsupported Attributes group and return '<i>successful-ok-ignored-or-substituted-attributes</i>' / '<i>client-error-attributes-or-values-not-supported</i>' status code depending on the value of "<i>ipp-attribute-fidelity</i>" operational attribute. The tester sends a Print-Job request with "<i>multiple-document-handling</i>" having an unsupported value. The Printer is expected to return it in the Unsupported Attributes group with the '<i>unsupported</i>' out-of-band value (if the Printer doesn't support the attribute) or with the offending value (if the attribute is supported). 	<p>M-3-5-1-P-06 M-3-5-1-P-07 M-3-5-1-P-08 M-3-5-1-P-09</p>
<p>Q) copies</p>	<p>This Test Job tests if the Printer object validates the "<i>copies</i>" OPTIONAL Job Template Attribute in a Print-Job request.</p> <ul style="list-style-type: none"> The tester sends Print-Job requests with "<i>copies</i>" having a wrong syntax. The Printer is expected to reject the requests and return '<i>client-error-bad-request</i>' status-code (if it supports the attribute) or to return it in the Unsupported Attributes group (if it doesn't support it). The tester performs a Get-Printer-Attributes to find out the Printer object's "<i>copies-supported</i>" attribute values. If the Printer doesn't support the attribute the result of the test is SKIPPED. Otherwise, for every integer value in the range specified by "<i>copies-supported</i>" attribute value, the tester sends a Print-Job with "<i>copies</i>" having that value. If the Printer supports "<i>copies</i>", it is expected to accept each request. Otherwise it should return the attribute 	<p>M-3-5-1-Q-01 M-3-5-1-Q-02 M-3-5-1-Q-03 M-3-5-1-Q-04 M-3-5-1-Q-05 M-3-5-1-Q-06 M-3-5-1-Q-07 M-3-5-1-Q-08 M-3-5-1-Q-09</p>

	supported).	
R) finishings	<p>This Test Job tests if the Printer object validates the “<i>finishings</i>” OPTIONAL Job Template Attribute in a Print-Job request.</p> <ul style="list-style-type: none"> The tester sends Print-Job requests with “<i>finishings</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code (if it supports the attribute) or to return it in the Unsupported Attributes group (if it doesn’t support it). The tester performs a Get-Printer-Attributes to find out the Printer object’s “<i>finishings-supported</i>” attribute values. If the Printer doesn’t support the attribute the result of the test is SKIPPED. Otherwise, for every <i>enum</i> value in the set specified by “<i>finishings-supported</i>” attribute value, the tester sends a Print-Job with “<i>finishings</i>” having that value. If the Printer supports “<i>finishings</i>”, it is expected to accept each request. Otherwise it should return the attribute in the Unsupported Attributes group and return ‘<i>successful-ok-ignored-or-substituted-attributes</i>’ / ‘<i>client-error-attributes-or-values-not-supported</i>’ status code depending on the value of “<i>ipp-attribute-fidelity</i>” operational attribute. The tester sends a Print-Job request with “<i>finishings</i>” having an unsupported value. The Printer is expected to return it in the Unsupported Attributes group with the ‘<i>unsupported</i>’ out-of-band value (if the Printer doesn’t support the attribute) or with the offending value (if the attribute is supported). 	M-3-5-1-R-01 M-3-5-1-R-02 M-3-5-1-R-03 M-3-5-1-R-04 M-3-5-1-R-05 M-3-5-1-R-06 M-3-5-1-R-07 M-3-5-1-R-08 M-3-5-1-R-09
S) page-ranges	<p>This Test Job tests if the Printer object validates the “<i>page-ranges</i>” OPTIONAL Job Template Attribute in a Print-Job request.</p> <ul style="list-style-type: none"> The tester sends Print-Job requests with “<i>page-ranges</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code (if it supports the attribute) or to return it in the Unsupported Attributes group (if it doesn’t support it). The tester performs a Get-Printer-Attributes to find out the Printer object’s “<i>page-ranges-supported</i>” attribute values. If the Printer doesn’t support the attribute the result of the test is SKIPPED. Otherwise, 	M-3-5-1-S-01 M-3-5-1-S-02 M-3-5-1-S-03 M-3-5-1-S-04 M-3-5-1-S-05 M-3-5-1-S-06 M-3-5-1-S-07 M-3-5-1-S-08 M-3-5-1-S-09

	<p><i>ranges</i>" having an invalid value (the first value is greater than the second value). The Printer is expected to return it in the Unsupported Attributes group with the '<i>unsupported</i>' out-of-band value (if the Printer doesn't support the attribute) or to reject the request and return '<i>client-error-bad-request</i>' status code (if the attribute is supported).</p>	
T) sides	<p>This Test Job tests if the Printer object validates the "<i>sides</i>" OPTIONAL Job Template Attribute in a Print-Job request.</p> <ul style="list-style-type: none"> The tester sends Print-Job requests with "<i>sides</i>" having a wrong syntax. The Printer is expected to reject the requests and return '<i>client-error-bad-request</i>' status-code (if it supports the attribute) or to return it in the Unsupported Attributes group (if it doesn't support it). The tester performs a Get-Printer-Attributes to find out the Printer object's "<i>sides-supported</i>" attribute values. If the Printer doesn't support the attribute the result of the test is SKIPPED. Otherwise, for every value in the set specified by "<i>sides-supported</i>" attribute value, the tester sends a Print-Job with "<i>sides</i>" having that value. If the Printer supports "<i>sides</i>", it is expected to accept each request. Otherwise it should return the attribute in the Unsupported Attributes group and return '<i>successful-ok-ignored-or-substituted-attributes</i>' / '<i>client-error-attributes-or-values-not-supported</i>' status code depending on the value of "<i>ipp-attribute-fidelity</i>" operational attribute. The tester sends a Print-Job request with "<i>sides</i>" having an unsupported value. The Printer is expected to return it in the Unsupported Attributes group with the '<i>unsupported</i>' out-of-band value (if the Printer doesn't support the attribute) or with the offending value (if the attribute is supported). 	<p>M-3-5-1-T-01 M-3-5-1-T-02 M-3-5-1-T-03 M-3-5-1-T-04 M-3-5-1-T-05 M-3-5-1-T-06 M-3-5-1-T-07 M-3-5-1-T-08 M-3-5-1-T-09</p>
U) number-up	<p>This Test Job tests if the Printer object validates the "<i>number-up</i>" OPTIONAL Job Template Attribute in a Print-Job request.</p> <ul style="list-style-type: none"> The tester sends Print-Job requests with "<i>number-up</i>" having a wrong syntax. The Printer is expected to reject the requests and return '<i>client-error-bad-request</i>' status-code (if it supports the 	<p>M-3-5-1-U-01 M-3-5-1-U-02 M-3-5-1-U-03 M-3-5-1-U-04 M-3-5-1-U-05 M-3-5-1-U-06 M-3-5-1-U-07</p>

	<p>Unsupported Attributes group and return <i>'successful-ok-ignored-or-substituted-attributes'</i> / <i>'client-error-attributes-or-values-not-supported'</i> status code depending on the value of <i>"ipp-attribute-fidelity"</i> operational attribute.</p> <ul style="list-style-type: none"> The tester sends a Print-Job request with <i>"number-up"</i> having an unsupported value. The Printer is expected to return it in the Unsupported Attributes group with the <i>'unsupported'</i> out-of-band value (if the Printer doesn't support the attribute) or with the offending value (if the attribute is supported). 	
<p>V) orientation-requested</p>	<p>This Test Job tests if the Printer object validates the <i>"orientation-requested"</i> OPTIONAL Job Template Attribute in a Print-Job request.</p> <ul style="list-style-type: none"> The tester sends Print-Job requests with <i>"orientation-requested"</i> having a wrong syntax. The Printer is expected to reject the requests and return <i>'client-error-bad-request'</i> status-code (if it supports the attribute) or to return it in the Unsupported Attributes group (if it doesn't support it). The tester performs a Get-Printer-Attributes to find out the Printer object's <i>"orientation-requested-supported"</i> attribute value. If the Printer doesn't support the attribute the result of the test is SKIPPED. Otherwise, for every value in the set specified by <i>"orientation-requested-supported"</i> attribute value, the tester sends a Print-Job with <i>"orientation-requested"</i> having that value. If the Printer supports <i>"orientation-requested"</i>, it is expected to accept each request. Otherwise it should return the attribute in the Unsupported Attributes group and return <i>'successful-ok-ignored-or-substituted-attributes'</i> / <i>'client-error-attributes-or-values-not-supported'</i> status code depending on the value of <i>"ipp-attribute-fidelity"</i> operational attribute. The tester sends a Print-Job request with <i>"orientation-requested"</i> having an unsupported value. The Printer is expected to return it in the Unsupported Attributes group with the <i>'unsupported'</i> out-of-band value (if the Printer doesn't support the attribute) or with the offending value (if the attribute is supported). 	<p>M-3-5-1-V-01 M-3-5-1-V-02 M-3-5-1-V-03 M-3-5-1-V-04 M-3-5-1-V-05 M-3-5-1-V-06 M-3-5-1-V-07 M-3-5-1-V-08 M-3-5-1-V-09</p>
<p>W) media</p>	<p>This Test Job tests if the Printer object validates the</p>	<p>M-3-5-1-W-01</p>

	<p>attribute the result of the test is SKIPPED. Otherwise, for every value in the set specified by “<i>media-supported</i>” attribute value, the tester sends a Print-Job with “<i>media</i>” having that value. If the Printer supports “<i>media</i>”, it is expected to accept each request. Otherwise it should return the attribute in the Unsupported Attributes group and return ‘<i>successful-ok-ignored-or-substituted-attributes</i>’ / ‘<i>client-error-attributes-or-values-not-supported</i>’ status code depending on the value of “<i>ipp-attribute-fidelity</i>” operational attribute.</p> <ul style="list-style-type: none"> • The tester sends a Print-Job request with “<i>media</i>” having an unsupported value. The Printer is expected to return it in the Unsupported Attributes group with the ‘<i>unsupported</i>’ out-of-band value (if the Printer doesn’t support the attribute) or with the offending value (if the attribute is supported). 	
<p>X) printer-resolution</p>	<p>This Test Job tests if the Printer object validates the “<i>printer-resolution</i>” OPTIONAL Job Template Attribute in a Print-Job request.</p> <ul style="list-style-type: none"> • The tester sends Print-Job requests with “<i>printer-resolution</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code (if it supports the attribute) or to return it in the Unsupported Attributes group (if it doesn’t support it). • The tester performs a Get-Printer-Attributes to find out the Printer object’s “<i>printer-resolution-supported</i>” attribute value. If the Printer doesn’t support the attribute the result of the test is SKIPPED. Otherwise, for every value in the set specified by “<i>printer-resolution-supported</i>” attribute value, the tester sends a Print-Job with “<i>printer-resolution</i>” having that value. If the Printer supports “<i>printer-resolution</i>”, it is expected to accept each request. Otherwise it should return the attribute in the Unsupported Attributes group and return ‘<i>successful-ok-ignored-or-substituted-attributes</i>’ / ‘<i>client-error-attributes-or-values-not-supported</i>’ status code depending on the value of “<i>ipp-attribute-fidelity</i>” operational attribute. • The tester sends a Print-Job request with “<i>printer-resolution</i>” having an unsupported value. The Printer is expected to return it in the Unsupported 	<p>M-3-5-1-X-01 M-3-5-1-X-02 M-3-5-1-X-03 M-3-5-1-X-04 M-3-5-1-X-05 M-3-5-1-X-06 M-3-5-1-X-07 M-3-5-1-X-08 M-3-5-1-X-09</p>

	<p>attribute) or to return it in the Unsupported Attributes group (if it doesn't support it).</p> <ul style="list-style-type: none">• The tester performs a Get-Printer-Attributes to find out the Printer object's "<i>print-quality-supported</i>" attribute value. If the Printer doesn't support the attribute the result of the test is SKIPPED. Otherwise, for every value in the set specified by "<i>print-quality-supported</i>" attribute value, the tester sends a Print-Job with "<i>print-quality</i>" having that value. If the Printer supports "<i>print-quality</i>", it is expected to accept each request. Otherwise it should return the attribute in the Unsupported Attributes group and return '<i>successful-ok-ignored-or-substituted-attributes</i>' / '<i>client-error-attributes-or-values-not-supported</i>' status code depending on the value of "<i>ipp-attribute-fidelity</i>" operational attribute. <p>The tester sends a Print-Job request with "<i>print-quality</i>" having an unsupported value. The Printer is expected to return it in the Unsupported Attributes group with the '<i>unsupported</i>' out-of-band value (if the Printer doesn't support the attribute) or with the offending value (if the attribute is supported).</p>	<p>M-3-5-1-Y-08 M-3-5-1-Y-09</p>
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3.5.2 Validate-Job – Tests Description

Test Job Name	Test Job Description	Tests List
A) ipp-attribute-fidelity	<p>This Test Job tests if the Printer object validates the “<i>ipp-attribute-fidelity</i>” REQUIRED Operation Attribute in a Validate-Job request.</p> <ul style="list-style-type: none"> The tester sends Validate-Job requests with the “<i>ipp-attribute-fidelity</i>” not supplied or supplied with the ‘<i>false</i>’ / ‘<i>true</i>’ values. The Printer is expected to accept these requests. The tester sends Validate-Job requests with “<i>ipp-attribute-fidelity</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. 	<p>M-3-5-2-A-01 M-3-5-2-A-02 M-3-5-2-A-03 M-3-5-2-A-04 M-3-5-2-A-05 M-3-5-2-A-06</p>
B) attributes-charset	<p>This Test Job tests if the Printer object validates the “<i>attributes-charset</i>” REQUIRED Operation Attribute in a Validate-Job request.</p> <ul style="list-style-type: none"> The tester sends Validate-Job requests with the “<i>attributes-charset</i>” supplied with the REQUIRED value ‘<i>utf-8</i>’. The Printer is expected to accept these requests. The tester sends Validate-Job requests with “<i>attributes-charset</i>” having an unsupported value. The Printer is expected to reject the requests and return ‘<i>client-error-charset-not-supported</i>’ status-code. The tester sends Validate-Job requests with “<i>attributes-charset</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. The tester sends Validate-Job requests with “<i>attributes-charset</i>” having a wrong value length (> 63 octets). The Printer is expected to reject the requests and return ‘<i>client-error-request-value-too-long</i>’ status-code. The tester performs a Get-Printer-Attributes to find out the Printer’s “<i>charset-supported</i>” attribute values. The request is expected to be successful. Then for each of these values sends a Validate-Job with “<i>attributes-charset</i>” having that value. The Printer is expected to accept each request. 	<p>M-3-5-2-B-01 M-3-5-2-B-02 M-3-5-2-B-03 M-3-5-2-B-04 M-3-5-2-B-05 M-3-5-2-B-06 M-3-5-2-B-07 M-3-5-2-B-08 M-3-5-2-B-09 M-3-5-2-B-10 M-3-5-2-B-11 M-3-5-2-B-12 M-3-5-2-B-13</p>
C) attributes-	<p>This Test Job tests if the Printer object validates the</p>	<p>M-3-5-2-C-01</p>

	<ul style="list-style-type: none"> • The tester sends Validate-Job requests with “<i>attributes-natural-language</i>” having a wrong value length (> 63 octets). The Printer is expected to reject the requests and return ‘<i>client-error-request-value-too-long</i>’ status-code. • The tester performs a Get-Printer-Attributes to find out the Printer’s “<i>generated-natural-language-supported</i>” attribute values. The request is expected to be successful. Then for each of these value sends a Validate-Job with “<i>attributes-natural-language</i>” having that value. The Printer is expected to accept each request. 	M-3-5-2-C-13
D) requesting-user-name	<p>This Test Job tests if the Printer object validates the “<i>requesting-user-name</i>” REQUIRED Operation Attribute in a Validate-Job request.</p> <ul style="list-style-type: none"> • The tester sends Validate-Job requests with the “<i>requesting-user-name</i>” supplied with valid values (having either <i>nameWithLanguage</i> or <i>nameWithoutLanguage</i> syntax). The Printer is expected to accept these requests. • The tester sends Validate-Job requests with “<i>requesting-user-name</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. • The tester sends Validate-Job requests with “<i>requesting-user-name</i>” having a wrong value length (> 255 octets). The Printer is expected to reject the requests and return ‘<i>client-error-request-value-too-long</i>’ status-code. 	M-3-5-2-D-01 M-3-5-2-D-02 M-3-5-2-D-03 M-3-5-2-D-04 M-3-5-2-D-05 M-3-5-2-D-06 M-3-5-2-D-07 M-3-5-2-D-08 M-3-5-2-D-09 M-3-5-2-D-10 M-3-5-2-D-11 M-3-5-2-D-12 M-3-5-2-D-13 M-3-5-2-D-14 M-3-5-2-D-15 M-3-5-2-D-16 M-3-5-2-D-17 M-3-5-2-D-18
E) job-name	<p>This Test Job tests if the Printer object validates the “<i>job-name</i>” REQUIRED Operation Attribute in a Validate-Job request.</p> <ul style="list-style-type: none"> • The tester sends Validate-Job requests with the “<i>job-name</i>” supplied with valid values (having either <i>nameWithLanguage</i> or <i>nameWithoutLanguage</i> syntax). The Printer is expected to accept these requests. • The tester sends Validate-Job requests with “<i>job-name</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. • The tester sends Validate-Job requests with “<i>job-name</i>” having a wrong value length (> 255 octets). 	M-3-5-2-E-01 M-3-5-2-E-02 M-3-5-2-E-03 M-3-5-2-E-04 M-3-5-2-E-05 M-3-5-2-E-06 M-3-5-2-E-07 M-3-5-2-E-08 M-3-5-2-E-09 M-3-5-2-E-10 M-3-5-2-E-11 M-3-5-2-E-12 M-3-5-2-E-13 M-3-5-2-E-14

	<p>requests.</p> <ul style="list-style-type: none"> The tester sends Validate-Job requests with “<i>document-name</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. The tester sends Validate-Job requests with “<i>document-name</i>” having a wrong value length. The Printer is expected to reject the requests and return ‘<i>client-error-request-value-too-long</i>’ status-code. 	<p>M-3-5-2-F-08 M-3-5-2-F-09 M-3-5-2-F-10 M-3-5-2-F-11 M-3-5-2-F-12 M-3-5-2-F-13 M-3-5-2-F-14 M-3-5-2-F-15 M-3-5-2-F-16 M-3-5-2-F-17 M-3-5-2-F-18</p>
G) document-format	<p>This Test Job tests if the Printer object validates the “<i>document-format</i>” REQUIRED Operation Attribute in a Validate-Job request.</p> <ul style="list-style-type: none"> The tester sends Validate-Job requests with “<i>document-format</i>” having an unsupported value. The Printer is expected to reject the requests and return ‘<i>client-error-document-format-not-supported</i>’ status-code. The tester sends Validate-Job requests with “<i>document-format</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. The tester sends Validate-Job requests with “<i>document-format</i>” having a wrong value length (> 255 octets). The Printer is expected to reject the requests and return ‘<i>client-error-request-value-too-long</i>’ status-code. The tester performs a Get-Printer-Attributes to find out the Printer object’s “<i>document-format-supported</i>” attribute values. The request is expected to be successful. Then for each of these value sends a Validate-Job with “<i>document-format</i>” having that value. The Printer is expected to accept each request. 	<p>M-3-5-2-G-01 M-3-5-2-G-02 M-3-5-2-G-03 M-3-5-2-G-04 M-3-5-2-G-05 M-3-5-2-G-06 M-3-5-2-G-07 M-3-5-2-G-08 M-3-5-2-G-09 M-3-5-2-G-10 M-3-5-2-G-11 M-3-5-2-G-12</p>
H) document-natural-language	<p>This Test Job tests if the Printer object validates the “<i>document-natural-language</i>” OPTIONAL Operation Attribute in a Validate-Job request.</p> <ul style="list-style-type: none"> The tester sends Validate-Job requests with “<i>document-natural-language</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. The tester sends Validate-Job requests with “<i>document-natural-language</i>” having an unsupported 	<p>M-3-5-2-H-01 M-3-5-2-H-02 M-3-5-2-H-03 M-3-5-2-H-04 M-3-5-2-H-05 M-3-5-2-H-06 M-3-5-2-H-07 M-3-5-2-H-08 M-3-5-2-H-09</p>

<p>I) compression</p>	<p>This Test Job tests if the Printer object validates the “<i>compression</i>” OPTIONAL Operation Attribute in a Validate-Job request.</p> <ul style="list-style-type: none"> • The tester sends Validate-Job requests with “<i>compression</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. • The tester sends Validate-Job requests with “<i>compression</i>” having a wrong value length (> 255 octets). The Printer is expected to reject the requests and return ‘<i>client-error-request-value-too-long</i>’ status-code. • The tester performs a Get-Printer-Attributes to find out the Printer object’s “<i>compression-supported</i>” attribute values. If the Printer doesn’t support the attribute the result of the test is SKIPPED. Otherwise for each value between 1 and the value of “<i>compression-supported</i>” send a Validate-Job with “<i>compression</i>” having that value. The Printer is expected to accept each request. If the Printer doesn’t support “<i>compression</i>” it should return the attribute in the Unsupported Attributes group and return ‘<i>successful-ok-ignored-or-substituted-attributes</i>’ status code. 	<p>M-3-5-2-I-01 M-3-5-2-I-02 M-3-5-2-I-03 M-3-5-2-I-04 M-3-5-2-I-05 M-3-5-2-I-06 M-3-5-2-I-07 M-3-5-2-I-08 M-3-5-2-I-09 M-3-5-2-I-10 M-3-5-2-I-11 M-3-5-2-I-12</p>
<p>J) job-k-octets</p>	<p>This Test Job tests if the Printer object validates the “<i>job-k-octets</i>” OPTIONAL Operation Attribute in a Validate-Job request.</p> <ul style="list-style-type: none"> • The tester sends Validate-Job requests with “<i>job-k-octets</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. • The tester performs a Get-Printer-Attributes to find out the Printer object’s “<i>job-k-octets-supported</i>” attribute value. If the Printer doesn’t support the attribute the result of the test is SKIPPED. Otherwise for each value in the range specified by “<i>job-k-octets-supported</i>” send a Validate-Job with “<i>job-k-octets</i>” having that value. The Printer is expected to accept each request. If the Printer doesn’t support “<i>job-k-octets</i>” it should return the attribute in the Unsupported Attributes group and return ‘<i>successful-ok-ignored-or-substituted-attributes</i>’ status code. 	<p>M-3-5-2-J-01 M-3-5-2-J-02 M-3-5-2-J-03 M-3-5-2-J-04 M-3-5-2-J-05 M-3-5-2-J-06 M-3-5-2-J-07 M-3-5-2-J-08 M-3-5-2-J-09</p>

	<p>SKIPPED. Otherwise for each value in the range specified by “<i>job-impressions-supported</i>” send a Validate-Job with “<i>job-impressions</i>” having that value. The Printer is expected to accept each request. If the Printer doesn’t support “<i>job-impressions</i>” it should return the attribute in the Unsupported Attributes group and return ‘<i>successful-ok-ignored-or-substituted-attributes</i>’ status code.</p>	
L) job-media-sheets	<p>This Test Job tests if the Printer object validates the “<i>job-media-sheets</i>” OPTIONAL Operation Attribute in a Validate-Job request.</p> <ul style="list-style-type: none"> • The tester sends Validate-Job requests with “<i>job-media-sheets</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. • The tester performs a Get-Printer-Attributes to find out the Printer object’s “<i>job-media-sheets-supported</i>” attribute value. If the Printer doesn’t support the attribute the result of the test is SKIPPED. Otherwise for each value in the range specified by “<i>job-media-sheets-supported</i>” send a Validate-Job with “<i>job-media-sheets</i>” having that value. The Printer is expected to accept each request. If the Printer doesn’t support “<i>job-media-sheets</i>” it should return the attribute in the Unsupported Attributes group and return ‘<i>successful-ok-ignored-or-substituted-attributes</i>’ status code. 	<p>M-3-5-2-L-01 M-3-5-2-L-02 M-3-5-2-L-03 M-3-5-2-L-04 M-3-5-2-L-05 M-3-5-2-L-06 M-3-5-2-L-07 M-3-5-2-L-08 M-3-5-2-L-09</p>
M) job-priority	<p>This Test Job tests if the Printer object validates the “<i>job-priority</i>” OPTIONAL Job Template Attribute in a Validate-Job request.</p> <ul style="list-style-type: none"> • The tester sends Validate-Job requests with “<i>job-priority</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code (if it supports the attribute) or to return it in the Unsupported Attributes group (if it doesn’t support it). • For every integer value between 1 and 100 send a Validate-Job with “<i>job-priority</i>” having that value. If the Printer supports “<i>job-priority</i>”, it is expected to accept each request. Otherwise it should return the attribute in the Unsupported Attributes group and return ‘<i>successful-ok-ignored-or-substituted-attributes</i>’ / ‘<i>client-error-attributes-or-values-not-</i> 	<p>M-3-5-2-M-01 M-3-5-2-M-02 M-3-5-2-M-03 M-3-5-2-M-04 M-3-5-2-M-05 M-3-5-2-M-06 M-3-5-2-M-07 M-3-5-2-M-08 M-3-5-2-M-09</p>

	<p>group (if it doesn't support it).</p> <ul style="list-style-type: none"> The tester performs a Get-Printer-Attributes to find out the Printer object's "job-hold-until-supported" attribute values. If the Printer doesn't support the attribute the result of the test is SKIPPED. Otherwise, for every value in the set specified by "job-hold-until-supported" attribute value, the tester sends a Validate-Job with "job-hold-until" having that value. If the Printer supports "job-hold-until", it is expected to accept each request. Otherwise it should return the attribute in the Unsupported Attributes group and return 'successful-ok-ignored-or-substituted-attributes' / 'client-error-attributes-or-values-not-supported' status code depending on the value of "ipp-attribute-fidelity" operational attribute. The tester sends a Validate-Job request with "job-hold-until" having an unsupported value. The Printer is expected to return it in the Unsupported Attributes group with the 'unsupported' out-of-band value (if the Printer doesn't support the attribute) or with the offending value (if the attribute is supported). 	M-3-5-2-N-09
<p>O) job-sheets</p>	<p>This Test Job tests if the Printer object validates the "job-sheets" OPTIONAL Job Template Attribute in a Validate-Job request.</p> <ul style="list-style-type: none"> The tester sends Validate-Job requests with "job-sheets" having a wrong syntax. The Printer is expected to reject the requests and return 'client-error-bad-request' status-code (if it supports the attribute) or to return it in the Unsupported Attributes group (if it doesn't support it). The tester performs a Get-Printer-Attributes to find out the Printer object's "job-sheets-supported" attribute values. If the Printer doesn't support the attribute the result of the test is SKIPPED. Otherwise, for every value in the set specified by "job-sheets-supported" attribute value, the tester sends a Validate-Job with "job-sheets" having that value. If the Printer supports "job-sheets", it is expected to accept each request. Otherwise it should return the attribute in the Unsupported Attributes group and return 'successful-ok-ignored-or-substituted-attributes' / 'client-error-attributes-or-values-not-supported' status code depending on the value of "ipp-attribute-fidelity" operational attribute. 	<p>M-3-5-2-O-01 M-3-5-2-O-02 M-3-5-2-O-03 M-3-5-2-O-04 M-3-5-2-O-05 M-3-5-2-O-06 M-3-5-2-O-07 M-3-5-2-O-08 M-3-5-2-O-09</p>

	<p><i>"multiple-document-handling"</i> having a wrong syntax. The Printer is expected to reject the requests and return '<i>client-error-bad-request</i>' status-code (if it supports the attribute) or to return it in the Unsupported Attributes group (if it doesn't support it).</p> <ul style="list-style-type: none"> The tester performs a Get-Printer-Attributes to find out the Printer object's "<i>multiple-document-handling-supported</i>" attribute values. If the Printer doesn't support the attribute the result of the test is SKIPPED. Otherwise, for every value in the set specified by "<i>multiple-document-handling-supported</i>" attribute value, the tester sends a Validate-Job with "<i>multiple-document-handling</i>" having that value. If the Printer supports "<i>multiple-document-handling</i>", it is expected to accept each request. Otherwise it should return the attribute in the Unsupported Attributes group and return '<i>successful-ok-ignored-or-substituted-attributes</i>' / '<i>client-error-attributes-or-values-not-supported</i>' status code depending on the value of "<i>ipp-attribute-fidelity</i>" operational attribute. The tester sends a Validate-Job request with "<i>multiple-document-handling</i>" having an unsupported value. The Printer is expected to return it in the Unsupported Attributes group with the '<i>unsupported</i>' out-of-band value (if the Printer doesn't support the attribute) or with the offending value (if the attribute is supported). 	<p>M-3-5-2-P-05 M-3-5-2-P-06 M-3-5-2-P-07 M-3-5-2-P-08 M-3-5-2-P-09</p>
<p>Q) copies</p>	<p>This Test Job tests if the Printer object validates the "<i>copies</i>" OPTIONAL Job Template Attribute in a Validate-Job request.</p> <ul style="list-style-type: none"> The tester sends Validate-Job requests with "<i>copies</i>" having a wrong syntax. The Printer is expected to reject the requests and return '<i>client-error-bad-request</i>' status-code (if it supports the attribute) or to return it in the Unsupported Attributes group (if it doesn't support it). The tester performs a Get-Printer-Attributes to find out the Printer object's "<i>copies-supported</i>" attribute values. If the Printer doesn't support the attribute the result of the test is SKIPPED. Otherwise, for every integer value in the range specified by "<i>copies-supported</i>" attribute value, the tester sends a Validate-Job with "<i>copies</i>" having that value. If the Printer supports "<i>copies</i>", it is expected to accept 	<p>M-3-5-2-Q-01 M-3-5-2-Q-02 M-3-5-2-Q-03 M-3-5-2-Q-04 M-3-5-2-Q-05 M-3-5-2-Q-06 M-3-5-2-Q-07 M-3-5-2-Q-08 M-3-5-2-Q-09</p>

	attribute) or with the offending value (if the attribute is supported).	
R) finishings	<p>This Test Job tests if the Printer object validates the “<i>finishings</i>” OPTIONAL Job Template Attribute in a Validate-Job request.</p> <ul style="list-style-type: none"> The tester sends Validate-Job requests with “<i>finishings</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code (if it supports the attribute) or to return it in the Unsupported Attributes group (if it doesn’t support it). The tester performs a Get-Printer-Attributes to find out the Printer object’s “<i>finishings-supported</i>” attribute values. If the Printer doesn’t support the attribute the result of the test is SKIPPED. Otherwise, for every <i>enum</i> value in the set specified by “<i>finishings-supported</i>” attribute value, the tester sends a Validate-Job with “<i>finishings</i>” having that value. If the Printer supports “<i>finishings</i>”, it is expected to accept each request. Otherwise it should return the attribute in the Unsupported Attributes group and return ‘<i>successful-ok-ignored-or-substituted-attributes</i>’ / ‘<i>client-error-attributes-or-values-not-supported</i>’ status code depending on the value of “<i>ipp-attribute-fidelity</i>” operational attribute. The tester sends a Validate-Job request with “<i>finishings</i>” having an unsupported value. The Printer is expected to return it in the Unsupported Attributes group with the ‘<i>unsupported</i>’ out-of-band value (if the Printer doesn’t support the attribute) or with the offending value (if the attribute is supported). 	M-3-5-2-R-01 M-3-5-2-R-02 M-3-5-2-R-03 M-3-5-2-R-04 M-3-5-2-R-05 M-3-5-2-R-06 M-3-5-2-R-07 M-3-5-2-R-08 M-3-5-2-R-09
S) page-ranges	<p>This Test Job tests if the Printer object validates the “<i>page-ranges</i>” OPTIONAL Job Template Attribute in a Validate-Job request.</p> <ul style="list-style-type: none"> The tester sends Validate-Job requests with “<i>page-ranges</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code (if it supports the attribute) or to return it in the Unsupported Attributes group (if it doesn’t support it). The tester performs a Get-Printer-Attributes to find out the Printer object’s “<i>page-ranges-supported</i>” attribute values. If the Printer doesn’t support the 	M-3-5-2-S-01 M-3-5-2-S-02 M-3-5-2-S-03 M-3-5-2-S-04 M-3-5-2-S-05 M-3-5-2-S-06 M-3-5-2-S-07 M-3-5-2-S-08 M-3-5-2-S-09

	<ul style="list-style-type: none"> The tester sends a Validate-Job request with “<i>page-ranges</i>” having an invalid value (the first value is greater than the second value). The Printer is expected to return it in the Unsupported Attributes group with the ‘<i>unsupported</i>’ out-of-band value (if the Printer doesn’t support the attribute) or to reject the request and return ‘<i>client-error-bad-request</i>’ status code (if the attribute is supported). 	
T) sides	<p>This Test Job tests if the Printer object validates the “<i>sides</i>” OPTIONAL Job Template Attribute in a Validate-Job request.</p> <ul style="list-style-type: none"> The tester sends Validate-Job requests with “<i>sides</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code (if it supports the attribute) or to return it in the Unsupported Attributes group (if it doesn’t support it). The tester performs a Get-Printer-Attributes to find out the Printer object’s “<i>sides-supported</i>” attribute values. If the Printer doesn’t support the attribute the result of the test is SKIPPED. Otherwise, for every value in the set specified by “<i>sides-supported</i>” attribute value, the tester sends a Validate-Job with “<i>sides</i>” having that value. If the Printer supports “<i>sides</i>”, it is expected to accept each request. Otherwise it should return the attribute in the Unsupported Attributes group and return ‘<i>successful-ok-ignored-or-substituted-attributes</i>’ / ‘<i>client-error-attributes-or-values-not-supported</i>’ status code depending on the value of “<i>ipp-attribute-fidelity</i>” operational attribute. The tester sends a Validate-Job request with “<i>sides</i>” having an unsupported value. The Printer is expected to return it in the Unsupported Attributes group with the ‘<i>unsupported</i>’ out-of-band value (if the Printer doesn’t support the attribute) or with the offending value (if the attribute is supported). 	M-3-5-2-T-01 M-3-5-2-T-02 M-3-5-2-T-03 M-3-5-2-T-04 M-3-5-2-T-05 M-3-5-2-T-06 M-3-5-2-T-07 M-3-5-2-T-08 M-3-5-2-T-09
U) number-up	<p>This Test Job tests if the Printer object validates the “<i>number-up</i>” OPTIONAL Job Template Attribute in a Validate-Job request.</p> <ul style="list-style-type: none"> The tester sends Validate-Job requests with “<i>number-up</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-</i> 	M-3-5-2-U-01 M-3-5-2-U-02 M-3-5-2-U-03 M-3-5-2-U-04 M-3-5-2-U-05 M-3-5-2-U-06

	<p>accept each request. Otherwise it should return the attribute in the Unsupported Attributes group and return <i>'successful-ok-ignored-or-substituted-attributes'</i> / <i>'client-error-attributes-or-values-not-supported'</i> status code depending on the value of <i>"ipp-attribute-fidelity"</i> operational attribute.</p> <ul style="list-style-type: none"> The tester sends a Validate-Job request with <i>"number-up"</i> having an unsupported value. The Printer is expected to return it in the Unsupported Attributes group with the <i>'unsupported'</i> out-of-band value (if the Printer doesn't support the attribute) or with the offending value (if the attribute is supported). 	
<p>V) orientation-requested</p>	<p>This Test Job tests if the Printer object validates the <i>"orientation-requested"</i> OPTIONAL Job Template Attribute in a Validate-Job request.</p> <ul style="list-style-type: none"> The tester sends Validate-Job requests with <i>"orientation-requested"</i> having a wrong syntax. The Printer is expected to reject the requests and return <i>'client-error-bad-request'</i> status-code (if it supports the attribute) or to return it in the Unsupported Attributes group (if it doesn't support it). The tester performs a Get-Printer-Attributes to find out the Printer object's <i>"orientation-requested-supported"</i> attribute value. If the Printer doesn't support the attribute the result of the test is SKIPPED. Otherwise, for every value in the set specified by <i>"orientation-requested-supported"</i> attribute value, the tester sends a Validate-Job with <i>"orientation-requested"</i> having that value. If the Printer supports <i>"orientation-requested"</i>, it is expected to accept each request. Otherwise it should return the attribute in the Unsupported Attributes group and return <i>'successful-ok-ignored-or-substituted-attributes'</i> / <i>'client-error-attributes-or-values-not-supported'</i> status code depending on the value of <i>"ipp-attribute-fidelity"</i> operational attribute. The tester sends a Validate-Job request with <i>"orientation-requested"</i> having an unsupported value. The Printer is expected to return it in the Unsupported Attributes group with the <i>'unsupported'</i> out-of-band value (if the Printer doesn't support the attribute) or with the offending value (if the attribute is supported). 	<p>M-3-5-2-V-01 M-3-5-2-V-02 M-3-5-2-V-03 M-3-5-2-V-04 M-3-5-2-V-05 M-3-5-2-V-06 M-3-5-2-V-07 M-3-5-2-V-08 M-3-5-2-V-09</p>

	<p>attribute value. If the Printer doesn't support the attribute the result of the test is SKIPPED. Otherwise, for every value in the set specified by "<i>media-supported</i>" attribute value, the tester sends a Validate-Job with "<i>media</i>" having that value. If the Printer supports "<i>media</i>", it is expected to accept each request. Otherwise it should return the attribute in the Unsupported Attributes group and return '<i>successful-ok-ignored-or-substituted-attributes</i>' / '<i>client-error-attributes-or-values-not-supported</i>' status code depending on the value of "<i>ipp-attribute-fidelity</i>" operational attribute.</p> <ul style="list-style-type: none"> The tester sends a Validate-Job request with "<i>media</i>" having an unsupported value. The Printer is expected to return it in the Unsupported Attributes group with the '<i>unsupported</i>' out-of-band value (if the Printer doesn't support the attribute) or with the offending value (if the attribute is supported). 	
<p>X) printer-resolution</p>	<p>This Test Job tests if the Printer object validates the "<i>printer-resolution</i>" OPTIONAL Job Template Attribute in a Validate-Job request.</p> <ul style="list-style-type: none"> The tester sends Validate-Job requests with "<i>printer-resolution</i>" having a wrong syntax. The Printer is expected to reject the requests and return '<i>client-error-bad-request</i>' status-code (if it supports the attribute) or to return it in the Unsupported Attributes group (if it doesn't support it). The tester performs a Get-Printer-Attributes to find out the Printer object's "<i>printer-resolution-supported</i>" attribute value. If the Printer doesn't support the attribute the result of the test is SKIPPED. Otherwise, for every value in the set specified by "<i>printer-resolution-supported</i>" attribute value, the tester sends a Validate-Job with "<i>printer-resolution</i>" having that value. If the Printer supports "<i>printer-resolution</i>", it is expected to accept each request. Otherwise it should return the attribute in the Unsupported Attributes group and return '<i>successful-ok-ignored-or-substituted-attributes</i>' / '<i>client-error-attributes-or-values-not-supported</i>' status code depending on the value of "<i>ipp-attribute-fidelity</i>" operational attribute. The tester sends a Validate-Job request with "<i>printer-resolution</i>" having an unsupported value. The 	<p>M-3-5-2-X-01 M-3-5-2-X-02 M-3-5-2-X-03 M-3-5-2-X-04 M-3-5-2-X-05 M-3-5-2-X-06 M-3-5-2-X-07 M-3-5-2-X-08 M-3-5-2-X-09</p>

	<p><i>error-bad-request</i> status-code (if it supports the attribute) or to return it in the Unsupported Attributes group (if it doesn't support it).</p> <ul style="list-style-type: none"> The tester performs a Get-Printer-Attributes to find out the Printer object's "<i>print-quality-supported</i>" attribute value. If the Printer doesn't support the attribute the result of the test is SKIPPED. Otherwise, for every value in the set specified by "<i>print-quality-supported</i>" attribute value, the tester sends a Validate-Job with "<i>print-quality</i>" having that value. If the Printer supports "<i>print-quality</i>", it is expected to accept each request. Otherwise it should return the attribute in the Unsupported Attributes group and return '<i>successful-ok-ignored-or-substituted-attributes</i>' / '<i>client-error-attributes-or-values-not-supported</i>' status code depending on the value of "<i>ipp-attribute-fidelity</i>" operational attribute. The tester sends a Validate-Job request with "<i>print-quality</i>" having an unsupported value. The Printer is expected to return it in the Unsupported Attributes group with the '<i>unsupported</i>' out-of-band value (if the Printer doesn't support the attribute) or with the offending value (if the attribute is supported). 	<p>M-3-5-2-Y-07 M-3-5-2-Y-08 M-3-5-2-Y-09</p>
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3.5.3. Cancel-Job – Tests Description

Test Job Name	Test Job Description	Tests List
A) attributes-charset	<p>This Test Job tests if the Job object validates the “<i>attributes-charset</i>” REQUIRED Operation Attribute in a Cancel-Job request.</p> <ul style="list-style-type: none"> • The tester sends Cancel-Job requests with the “<i>attributes-charset</i>” supplied with the REQUIRED value ‘<i>utf-8</i>’. The Job object is expected to accept these requests. • The tester sends Cancel-Job requests with “<i>attributes-charset</i>” having an unsupported value. The Job object is expected to reject the requests and return ‘<i>client-error-charset-not-supported</i>’ status-code. • The tester sends Cancel-Job requests with “<i>attributes-charset</i>” having a wrong syntax. The Job object is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. • The tester sends Cancel-Job requests with “<i>attributes-charset</i>” having a wrong value length (> 63 octets). The Job object is expected to reject the requests and return ‘<i>client-error-request-value-too-long</i>’ status-code. • The tester performs a Get-Printer-Attributes to find out the Printer’s “<i>charset-supported</i>” attribute values. The request is expected to be successful. Then for each of these values sends a Cancel-Job with “<i>attributes-charset</i>” having that value. The Job object is expected to accept each request. 	<p>M-3-5-3-A-01 M-3-5-3-A-02 M-3-5-3-A-03 M-3-5-3-A-04 M-3-5-3-A-05 M-3-5-3-A-06 M-3-5-3-A-07 M-3-5-3-A-08 M-3-5-3-A-09 M-3-5-3-A-10</p>
B) attributes-natural-language	<p>This Test Job tests if the Job object validates the “<i>attributes-natural-language</i>” REQUIRED Operation Attribute in a Cancel-Job request.</p> <ul style="list-style-type: none"> • The tester sends Cancel-Job requests with the “<i>attributes-natural-language</i>” supplied with an unsupported value or with a possibly supported value. The Job object is expected to accept these requests. • The tester sends Cancel-Job requests with “<i>attributes-natural-language</i>” having a wrong syntax. The Job object is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. • The tester sends Cancel-Job requests with “<i>attributes-natural-language</i>” having a wrong value 	<p>M-3-5-3-B-01 M-3-5-3-B-02 M-3-5-3-B-03 M-3-5-3-B-04 M-3-5-3-B-05 M-3-5-3-B-06 M-3-5-3-B-07 M-3-5-3-B-08 M-3-5-3-B-09 M-3-5-3-B-10</p>

<p>C) requesting-user-name</p>	<p>This Test Job tests if the Job object validates the “<i>requesting-user-name</i>” REQUIRED Operation Attribute in a Cancel-Job request.</p> <ul style="list-style-type: none"> • The tester sends Cancel-Job requests with the “<i>requesting-user-name</i>” supplied with valid values (having either <i>nameWithLanguage</i> or <i>nameWithoutLanguage</i> syntax). The Job object is expected to accept these requests. • The tester sends Cancel-Job requests with “<i>requesting-user-name</i>” having a wrong syntax. The Job object is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. • The tester sends Cancel-Job requests with “<i>requesting-user-name</i>” having a wrong value length (> 255 octets). The Job object is expected to reject the requests and return ‘<i>client-error-request-value-too-long</i>’ status-code. 	<p>M-3-5-3-C-01 M-3-5-3-C-02 M-3-5-3-C-03 M-3-5-3-C-04 M-3-5-3-C-05 M-3-5-3-C-06 M-3-5-3-C-07 M-3-5-3-C-08 M-3-5-3-C-09 M-3-5-3-C-10 M-3-5-3-C-11 M-3-5-3-C-12</p>
<p>D) message</p>	<p>This Test Job tests if the Job object validates the “<i>message</i>” REQUIRED Operation Attribute in a Cancel-Job request.</p> <ul style="list-style-type: none"> • The tester sends Cancel-Job requests with the “<i>requesting-user-name</i>” supplied with valid values (having either <i>textWithLanguage</i> or <i>textWithoutLanguage</i> syntax). The Job object is expected to accept these requests. If the attribute is not supported the Job object is expected to return it in the Unsupported Attributes group with “<i>unsupported</i>” out-of-band value. • The tester sends Cancel-Job requests with “<i>message</i>” having a wrong syntax. The Job object is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code (if it supports the attribute) or to ignore the attribute and return the attribute in the Unsupported Attributes group with “<i>unsupported</i>” out-of-band value (if it doesn’t support the attribute). • The tester sends Cancel-Job requests with “<i>message</i>” having a wrong value length (> 127 octets). The Job object is expected to reject the requests and return ‘<i>client-error-request-value-too-long</i>’ status-code (if it supports the attribute) or to ignore the attribute and return the attribute in the Unsupported Attributes group with “<i>unsupported</i>” out-of-band value (if it doesn’t support the attribute). 	<p>M-3-5-3-D-01 M-3-5-3-D-02 M-3-5-3-D-03 M-3-5-3-D-04 M-3-5-3-D-05 M-3-5-3-D-06 M-3-5-3-D-07 M-3-5-3-D-08 M-3-5-3-D-09 M-3-5-3-D-10 M-3-5-3-D-11 M-3-5-3-D-12</p>

3.5.4. Get-Printer-Attributes – Tests Description

Test Job Name	Test Job Description	Tests List
A) attributes-charset	<p>This Test Job tests if the Printer object validates the “<i>attributes-charset</i>” REQUIRED Operation Attribute in a Get-Printer-Attributes request.</p> <ul style="list-style-type: none"> • The tester sends Get-Printer-Attributes requests with the “<i>attributes-charset</i>” supplied with the REQUIRED value ‘<i>utf-8</i>’. The Printer is expected to accept these requests. • The tester sends Get-Printer-Attributes requests with “<i>attributes-charset</i>” having an unsupported value. The Printer is expected to reject the requests and return ‘<i>client-error-charset-not-supported</i>’ status-code. • The tester sends Get-Printer-Attributes requests with “<i>attributes-charset</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. • The tester sends Get-Printer-Attributes requests with “<i>attributes-charset</i>” having a wrong value length (> 63 octets). The Printer is expected to reject the requests and return ‘<i>client-error-request-value-too-long</i>’ status-code. • The tester performs a Get-Printer-Attributes to find out the Printer’s “<i>charset-supported</i>” attribute values. The request is expected to be successful. Then for each of these value sends a Get-Printer-Attributes with “<i>attributes-charset</i>” having that value. The Printer is expected to accept each request. 	<p>M-3-5-4-A-01 M-3-5-4-A-02 M-3-5-4-A-03 M-3-5-4-A-04 M-3-5-4-A-05</p>
B) attributes-natural-language	<p>This Test Job tests if the Printer object validates the “<i>attributes-natural-language</i>” REQUIRED Operation Attribute in a Get-Printer-Attributes request.</p> <ul style="list-style-type: none"> • The tester sends Get-Printer-Attributes requests with the “<i>attributes-natural-language</i>” supplied with an unsupported value or with a possibly supported value. The Printer is expected to accept these requests. • The tester sends Get-Printer-Attributes requests with “<i>attributes-natural-language</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. • The tester sends Get-Printer-Attributes requests with “<i>attributes-natural-language</i>” having a wrong 	<p>M-3-5-4-B-01 M-3-5-4-B-02 M-3-5-4-B-03 M-3-5-4-B-04 M-3-5-4-B-05</p>

C) requesting-user-name	<p>This Test Job tests if the Printer object validates the “<i>requesting-user-name</i>” REQUIRED Operation Attribute in a Get-Printer-Attributes request.</p> <ul style="list-style-type: none"> • The tester sends Get-Printer-Attributes requests with the “<i>requesting-user-name</i>” supplied with valid values (having either <i>nameWithLanguage</i> or <i>nameWithoutLanguage</i> syntax). The Printer is expected to accept these requests. • The tester sends Get-Printer-Attributes requests with “<i>requesting-user-name</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. • The tester sends Get-Printer-Attributes requests with “<i>requesting-user-name</i>” having a wrong value length (> 255 octets). The Printer is expected to reject the requests and return ‘<i>client-error-request-value-too-long</i>’ status-code. 	M-3-5-4-C-01 M-3-5-4-C-02 M-3-5-4-C-03 M-3-5-4-C-04 M-3-5-4-C-05 M-3-5-4-C-06
D) requested-attributes	<p>This Test Job tests if the Printer object validates the “<i>requested-attributes</i>” REQUIRED Operation Attribute in a Get-Printer-Attributes request.</p> <ul style="list-style-type: none"> • The tester sends Get-Printer-Attributes requests with “<i>requested-attributes</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. • The tester sends Get-Printer-Attributes requests with an unsupported value for the attribute “<i>requested-attributes</i>”. The Printer is expected to accept the request and return ‘<i>successful-ok-ignored-or-substituted-attributes</i>’ status-code. The Printer may return the attribute and the unsupported value in the Unsupported Attributes group. • The tester sends Get-Printer-Attributes requests with the “<i>requested-attributes</i>” supplied with a valid value. The Printer is expected to accept these requests. This test is repeated for all Printer Description and Job Template attributes (the value of the “<i>requested-attributes</i>” being the keyword that represents the name of the attribute). Similar tests are provided for special keywords ‘<i>all</i>’, ‘<i>job-template</i>’, ‘<i>printer-description</i>’. If the Printer object doesn’t support an attribute, it is expected to return ‘<i>successful-ok-ignored-or-substituted-attributes</i>’ and some implementations <i>may</i> even return the attribute “<i>requested-attributes</i>” with the unsupported value in the Unsupported Attributes group. Other implementations 	M-3-5-4-D-01 M-3-5-4-D-02 M-3-5-4-D-03 M-3-5-4-D-04 M-3-5-4-D-05 M-3-5-4-D-06 M-3-5-4-D-07 M-3-5-4-D-08 M-3-5-4-D-09 M-3-5-4-D-10 M-3-5-4-D-11 M-3-5-4-D-12 M-3-5-4-D-13 M-3-5-4-D-14 M-3-5-4-D-15 M-3-5-4-D-16 M-3-5-4-D-17 M-3-5-4-D-18 M-3-5-4-D-19 M-3-5-4-D-20 M-3-5-4-D-21 M-3-5-4-D-22 M-3-5-4-D-23 M-3-5-4-D-24 M-3-5-4-D-25 M-3-5-4-D-26 M-3-5-4-D-27

		M-3-5-4-D-39 M-3-5-4-D-40 M-3-5-4-D-41 M-3-5-4-D-42 M-3-5-4-D-43 M-3-5-4-D-44 M-3-5-4-D-45 M-3-5-4-D-46 M-3-5-4-D-47 M-3-5-4-D-48 M-3-5-4-D-49 M-3-5-4-D-50 M-3-5-4-D-51 M-3-5-4-D-52 M-3-5-4-D-53 M-3-5-4-D-54 M-3-5-4-D-55 M-3-5-4-D-56 M-3-5-4-D-57 M-3-5-4-D-58 M-3-5-4-D-59 M-3-5-4-D-60 M-3-5-4-D-61 M-3-5-4-D-62 M-3-5-4-D-63
E) document-format	This Test Job tests if the Printer object validates the “ <i>document-format</i> ” REQUIRED Operation Attribute in a Get-Printer-Attributes request. <ul style="list-style-type: none"> • The tester sends Get-Printer-Attributes requests with “<i>document-format</i>” having an unsupported value. The Printer is expected to reject the requests and return ‘<i>client-error-document-format-not-supported</i>’ status-code. • The tester sends Get-Printer-Attributes requests with “<i>document-format</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. • The tester sends Get-Printer-Attributes requests with “<i>document-format</i>” having a wrong value length (> 255 octets). The Printer is expected to reject the requests and return ‘<i>client-error-request-value-too-long</i>’ status-code. • The tester performs a Get-Printer-Attributes to find out the Printer object’s “<i>document-format-supported</i>” attribute values. The request is expected 	M-3-5-4-E-01 M-3-5-4-E-02 M-3-5-4-E-03 M-3-5-4-E-04

Test Job Name	Test Job Description	Tests List
A) attributes-charset	<p>This Test Job tests if the Job object validates the “<i>attributes-charset</i>” REQUIRED Operation Attribute in a Get-Job-Attributes request.</p> <ul style="list-style-type: none"> • The tester sends Get-Job-Attributes requests with the “<i>attributes-charset</i>” supplied with the REQUIRED value ‘<i>utf-8</i>’. The Job object is expected to accept these requests. • The tester sends Get-Job-Attributes requests with “<i>attributes-charset</i>” having an unsupported value. The Job object is expected to reject the requests and return ‘<i>client-error-charset-not-supported</i>’ status-code. • The tester sends Get-Job-Attributes requests with “<i>attributes-charset</i>” having a wrong syntax. The Job object is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. • The tester sends Get-Job-Attributes requests with “<i>attributes-charset</i>” having a wrong value length (> 63 octets). The Job object is expected to reject the requests and return ‘<i>client-error-request-value-too-long</i>’ status-code. • The tester performs a Get-Printer-Attributes to find out the Printer’s “<i>charset-supported</i>” attribute values. The request is expected be successful. Then for each of these value sends a Get-Job-Attributes with “<i>attributes-charset</i>” having that value. The Job object is expected to accept each request. 	M-3-5-5-A-01 M-3-5-5-A-02 M-3-5-5-A-03 M-3-5-5-A-04 M-3-5-5-A-05 M-3-5-5-A-06 M-3-5-5-A-07 M-3-5-5-A-08 M-3-5-5-A-09 M-3-5-5-A-10
B) attributes-natural-language	<p>This Test Job tests if the Job object validates the “<i>attributes-natural-language</i>” REQUIRED Operation Attribute in a Get-Job-Attributes request.</p> <ul style="list-style-type: none"> • The tester sends Get-Job-Attributes requests with the “<i>attributes-natural-language</i>” supplied with an unsupported value or with a possibly supported value. The Job object is expected to accept these requests. • The tester sends Get-Job-Attributes requests with “<i>attributes-natural-language</i>” having a wrong syntax. The Job object is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. • The tester sends Get-Job-Attributes requests with “<i>attributes-natural-language</i>” having a wrong value length (> 63 octets). The Job object is 	M-3-5-5-B-01 M-3-5-5-B-02 M-3-5-5-B-03 M-3-5-5-B-04 M-3-5-5-B-05 M-3-5-5-B-06 M-3-5-5-B-07 M-3-5-5-B-08 M-3-5-5-B-09 M-3-5-5-B-10

<p>C) requesting-user-name</p>	<p>This Test Job tests if the Job object validates the “<i>requesting-user-name</i>” REQUIRED Operation Attribute in a Get-Job-Attributes request.</p> <ul style="list-style-type: none"> • The tester sends Get-Job-Attributes requests with the “<i>requesting-user-name</i>” supplied with valid values (having either <i>nameWithLanguage</i> or <i>nameWithoutLanguage</i> syntax). The Job object is expected to accept these requests. • The tester sends Get-Job-Attributes requests with “<i>requesting-user-name</i>” having a wrong syntax. The Job object is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. • The tester sends Get-Job-Attributes requests with “<i>requesting-user-name</i>” having a wrong value length (> 255 octets). The Job object is expected to reject the requests and return ‘<i>client-error-request-value-too-long</i>’ status-code. 	<p>M-3-5-5-C-01 M-3-5-5-C-02 M-3-5-5-C-03 M-3-5-5-C-04 M-3-5-5-C-05 M-3-5-5-C-06 M-3-5-5-C-07 M-3-5-5-C-08 M-3-5-5-C-09 M-3-5-5-C-10 M-3-5-5-C-11 M-3-5-5-C-12</p>
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<p>D) requested-attributes</p>	<p>This Test Job tests if the Job object validates the “<i>requested-attributes</i>” REQUIRED Operation Attribute in a Get-Job-Attributes request.</p> <ul style="list-style-type: none"> • The tester sends Get-Job-Attributes requests with “<i>requested-attributes</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. • The tester sends Get-Job-Attributes requests with an unsupported value for the attribute “<i>requested-attributes</i>”. The Printer is expected to accept the request and return ‘<i>successful-ok-ignored-or-substituted-attributes</i>’ status-code. The Job object may return the attribute and the unsupported value in the Unsupported Attributes group. • The tester sends Get-Job-Attributes requests with the “<i>requested-attributes</i>” supplied with a valid value. The Job object is expected to accept these requests. This test is repeated for all Job Description and Job Template attributes (the value of the “<i>requested-attributes</i>” being the keyword that represents the name of the attribute). Similar tests are provided for special keywords ‘<i>all</i>’, ‘<i>job-template</i>’, ‘<i>job-description</i>’. If the Job object doesn’t support an attribute, it is expected to return ‘<i>successful-ok-ignored-or-substituted-attributes</i>’ and some implementations <i>may</i> even return the attribute “<i>requested-attributes</i>” with the unsupported value in the Unsupported Attributes group. Otherwise, the Job object is expected to return the attribute in the Job Object Attributes group. 	<p>M-3-5-5-D-01 M-3-5-5-D-02 M-3-5-5-D-03 M-3-5-5-D-04 M-3-5-5-D-05 M-3-5-5-D-06 M-3-5-5-D-07 M-3-5-5-D-08 M-3-5-5-D-09 M-3-5-5-D-10 M-3-5-5-D-11 M-3-5-5-D-12 M-3-5-5-D-13 M-3-5-5-D-14 M-3-5-5-D-15 M-3-5-5-D-16 M-3-5-5-D-17 M-3-5-5-D-18 M-3-5-5-D-19 M-3-5-5-D-20 M-3-5-5-D-21 M-3-5-5-D-22 M-3-5-5-D-23 M-3-5-5-D-24 M-3-5-5-D-25 M-3-5-5-D-26 M-3-5-5-D-27 M-3-5-5-D-28 M-3-5-5-D-29 M-3-5-5-D-30 M-3-5-5-D-31 M-3-5-5-D-32 M-3-5-5-D-33 M-3-5-5-D-34 M-3-5-5-D-35 M-3-5-5-D-36 M-3-5-5-D-37 M-3-5-5-D-38 M-3-5-5-D-39 M-3-5-5-D-40 M-3-5-5-D-41 M-3-5-5-D-42 M-3-5-5-D-43 M-3-5-5-D-44 M-3-5-5-D-45</p>
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		M-3-5-5-D-57 M-3-5-5-D-58 M-3-5-5-D-59 M-3-5-5-D-60 M-3-5-5-D-61 M-3-5-5-D-62 M-3-5-5-D-63 M-3-5-5-D-64 M-3-5-5-D-65 M-3-5-5-D-66 M-3-5-5-D-67 M-3-5-5-D-68 M-3-5-5-D-69 M-3-5-5-D-70 M-3-5-5-D-71 M-3-5-5-D-72 M-3-5-5-D-73 M-3-5-5-D-74 M-3-5-5-D-75 M-3-5-5-D-76 M-3-5-5-D-77 M-3-5-5-D-68 M-3-5-5-D-79 M-3-5-5-D-80 M-3-5-5-D-81 M-3-5-5-D-82 M-3-5-5-D-83 M-3-5-5-D-84 M-3-5-5-D-85 M-3-5-5-D-86
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3.5.6. Get-Jobs – Tests Description

Test Job Name	Test Job Description	Tests List
A) attributes-charset	<p>This Test Job tests if the Printer object validates the “<i>attributes-charset</i>” REQUIRED Operation Attribute in a Get-Jobs request.</p> <ul style="list-style-type: none"> • The tester sends Get-Jobs requests with the “<i>attributes-charset</i>” supplied with the REQUIRED value ‘<i>utf-8</i>’. The Printer is expected to accept these requests. • The tester sends Get-Jobs requests with “<i>attributes-charset</i>” having an unsupported value. The Printer is expected to reject the requests and return ‘<i>client-error-charset-not-supported</i>’ status-code. • The tester sends Get-Jobs requests with “<i>attributes-charset</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. • The tester sends Get-Jobs requests with “<i>attributes-charset</i>” having a wrong value length (> 63 octets). The Printer is expected to reject the requests and return ‘<i>client-error-request-value-too-long</i>’ status-code. • The tester performs a Get-Printer-Attributes to find out the Printer’s “<i>charset-supported</i>” attribute values. The request is expected to be successful. Then for each of these values sends a Get-Jobs with “<i>attributes-charset</i>” having that value. The Printer is expected to accept each request. 	<p>M-3-5-6-A-01 M-3-5-6-A-02 M-3-5-6-A-03 M-3-5-6-A-04 M-3-5-6-A-05</p>
B) attributes-natural-language	<p>This Test Job tests if the Printer object validates the “<i>attributes-natural-language</i>” REQUIRED Operation Attribute in a Get-Jobs request.</p> <ul style="list-style-type: none"> • The tester sends Get-Jobs requests with the “<i>attributes-natural-language</i>” supplied with an unsupported value or with a possibly supported value. The Printer is expected to accept these requests. • The tester sends Get-Jobs requests with “<i>attributes-natural-language</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. • The tester sends Get-Jobs requests with “<i>attributes-natural-language</i>” having a wrong value 	<p>M-3-5-6-B-01 M-3-5-6-B-02 M-3-5-6-B-03 M-3-5-6-B-04 M-3-5-6-B-05</p>

<p>C) requesting-user-name</p>	<p>This Test Job tests if the Printer object validates the “<i>requesting-user-name</i>” REQUIRED Operation Attribute in a Get-Jobs request.</p> <ul style="list-style-type: none"> • The tester sends Get-Jobs requests with the “<i>requesting-user-name</i>” supplied with valid values (having either <i>nameWithLanguage</i> or <i>nameWithoutLanguage</i> syntax). The Printer is expected to accept these requests. • The tester sends Get-Jobs requests with “<i>requesting-user-name</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. • The tester sends Get-Jobs requests with “<i>requesting-user-name</i>” having a wrong value length (> 255 octets). The Printer is expected to reject the requests and return ‘<i>client-error-request-value-too-long</i>’ status-code. 	<p>M-3-5-6-C-01 M-3-5-6-C-02 M-3-5-6-C-03 M-3-5-6-C-04 M-3-5-6-C-05 M-3-5-6-C-06</p>
<p>D) requested-attributes</p>	<p>This Test Job tests if the Printer object validates the “<i>requested-attributes</i>” REQUIRED Operation Attribute in a Get-Jobs request.</p> <ul style="list-style-type: none"> • The tester sends Get-Jobs requests with “<i>requested-attributes</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. • The tester sends Get-Jobs requests with an unsupported value for the attribute “<i>requested-attributes</i>”. The Printer is expected to accept the request and return ‘<i>successful-ok-ignored-or-substituted-attributes</i>’ status-code. The Printer may return the attribute and the unsupported value in the Unsupported Attributes group. • The tester sends Get-Jobs requests with the “<i>requested-attributes</i>” supplied with a valid value. The Printer is expected to accept these requests. This test is repeated for all Job Description and Job Template attributes (the value of the “<i>requested-attributes</i>” being the keyword that represents the name of the attribute). Similar tests are provided for special keywords ‘<i>all</i>’, ‘<i>job-template</i>’, ‘<i>printer-description</i>’. If the Printer object doesn’t support an attribute, it is expected to return ‘<i>successful-ok-ignored-or-substituted-attributes</i>’ and some implementations may even return the attribute “<i>requested-attributes</i>” with the unsupported value in the Unsupported Attributes group. 	<p>M-3-5-6-D-01 M-3-5-6-D-02 M-3-5-6-D-03 M-3-5-6-D-04 M-3-5-6-D-05 M-3-5-6-D-06 M-3-5-6-D-07 M-3-5-6-D-08 M-3-5-6-D-09 M-3-5-6-D-10 M-3-5-6-D-11 M-3-5-6-D-12 M-3-5-6-D-13 M-3-5-6-D-14 M-3-5-6-D-15 M-3-5-6-D-16 M-3-5-6-D-17 M-3-5-6-D-18 M-3-5-6-D-19 M-3-5-6-D-20 M-3-5-6-D-21 M-3-5-6-D-22 M-3-5-6-D-23 M-3-5-6-D-24 M-3-5-6-D-25 M-3-5-6-D-26 M-3-5-6-D-27</p>

		M-3-5-6-D-39 M-3-5-6-D-40 M-3-5-6-D-41 M-3-5-6-D-42 M-3-5-6-D-43
E) my-jobs	<p>This Test Job tests if the Printer object validates the “<i>my-jobs</i>” REQUIRED Operation Attribute in a Get-Jobs request.</p> <ul style="list-style-type: none"> • The tester sends a Get-Jobs request with “<i>my-jobs</i>” having a wrong syntax. The Printer is expected to reject the request and return ‘<i>client-error-bad-request</i>’ status-code. • The tester sends Get-Jobs requests with “<i>my-jobs</i>” having ‘<i>true</i>’ / ‘<i>false</i>’ values. The Printer is expected to accept the requests and return appropriate Job Object Attribute groups (if “<i>my-jobs</i>” is ‘<i>true</i>’ only the jobs created or submitted by the same user as the Get-Jobs request; otherwise, all the jobs). • The tester sends a Get-Jobs request with “<i>my-jobs</i>” not supplied. The Printer object is expected to assume the default ‘<i>false</i>’ value and return all the jobs in the queue/history. 	M-3-5-6-E-01 M-3-5-6-E-02 M-3-5-6-E-03 M-3-5-6-E-04 M-3-5-6-E-05 M-3-5-6-E-06
F) limit	<p>This Test Job tests if the Printer object validates the “<i>limit</i>” REQUIRED Operation Attribute in a Get-Jobs request.</p> <ul style="list-style-type: none"> • The tester sends a Get-Jobs request with “<i>limit</i>” having a wrong syntax. The Printer is expected to reject the request and return ‘<i>client-error-bad-request</i>’ status-code. • The tester sends Get-Jobs requests with “<i>limit</i>” having different valid values. The Printer is expected to accept the requests and return appropriate Job Object Attribute groups (the number of jobs returned must not be greater the “<i>limit</i>” attribute value). • The tester sends a Get-Jobs request with “<i>limit</i>” not supplied. The Printer object is expected return all the jobs in the queue/history (no matter how many). 	M-3-5-6-F-01 M-3-5-6-F-02 M-3-5-6-F-03 M-3-5-6-F-04 M-3-5-6-F-05 M-3-5-6-F-06
G) which-jobs	<p>This Test Job tests if the Printer object validates the “<i>which-jobs</i>” REQUIRED Operation Attribute in a Get-Jobs request.</p> <ul style="list-style-type: none"> • The tester sends a Get-Jobs request with “<i>which-jobs</i>” having a wrong syntax. The Printer is expected 	M-3-5-6-G-01 M-3-5-6-G-02 M-3-5-6-G-03 M-3-5-6-G-04 M-3-5-6-G-05

	<p>the job-state value; else only the jobs with the job-state values).</p> <ul style="list-style-type: none">• The tester sends a Get-Jobs request with “<i>which-jobs</i>” not supplied. The Printer object is expected to assume the ‘<i>not-completed</i>’ default value).	
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4.1. Optional Operations – Tests Description

Test Job Name	Test Job Description	Tests List
<p>4.1.1. Create-Job</p>	<p>This Test Job tests if the Printer makes all appropriate syntactic validation checks against the Operation and Job Template Attributes supplied by the client in a Create-Job request.</p> <p>The tester will submit various Create-Job requests containing (among other attributes) one specific Operation / Job Template attribute with different valid and invalid syntaxes/values. That's way this Test Job is separated in several Test Jobs:</p> <ul style="list-style-type: none"> A) ipp-attribute-fidelity B) attributes-charset C) attributes-natural-language D) requesting-user-name E) job-name F) job-k-octets G) job-impressions H) job-media-sheets I) job-priority J) job-hold-until K) job-sheets L) multiple-document-handling M) copies N) finishings O) page-ranges P) sides Q) number-up R) orientation-requested S) media T) printer-resolution U) print-quality <p>In every Create-Job request Group 1 will contain the following REQUIRED Operation Attributes: "<i>attributes-charset</i>", "<i>attributes-natural-language</i>", "<i>printer-uri</i>" and in some of them will contain "<i>ipp-attribute-fidelity</i>". In some requests Group 2 will be Job Template Attributes, the others will not have any Group 2.</p> <p>Note that a possible error in a Create-Job response is '<i>server-error-operation-not-supported</i>' if the Printer doesn't support the Create-Job operation.</p>	<p>See "4.1.1. Create-Job – Tests Description"</p>

- A) ipp-attribute-fidelity
- B) attributes-charset
- C) attributes-natural-language
- D) requesting-user-name
- E) job-name
- F) document-name
- G) document-format
- H) document-natural-language
- I) compression
- J) job-k-octets
- K) job-impressions
- L) job-media-sheets
- M) job-priority
- N) job-hold-until
- O) job-sheets
- P) multiple-document-handling
- Q) copies
- R) finishings
- S) page-ranges
- T) sides
- U) number-up
- V) orientation-requested
- W) media
- A) printer-resolution
- B) print-quality

In every Print-URI request Group 1 will contain the following REQUIRED Operation Attributes: "*attributes-charset*", "*attributes-natural-language*", "*printer-uri*", "*document-uri*" and in some of them will contain "*ipp-attribute-fidelity*". In some requests Group 2 will be Job Template Attributes, the others will not have any Group 2.

Note that possible errors in Print-URI responses are:

- '*server-error-operation-not-supported*' if the Printer doesn't support the Print-URI operation;
- '*client-error-uri-scheme-not-supported*' if the scheme of the URI supplied in the "document-uri" operational attribute is not supported by the Printer;
- '*client-error-not-found*' if the Printer makes a preliminary existence check on the URI supplied in the "document-uri" operational attribute and the document cannot be reached (due to an invalid URI or a network error).

	<p>A) last-document B) attributes-charset C) attributes-natural-language D) requesting-user-name E) document-name F) document-format G) document-natural-language H) compression</p> <p>In every Send-Document request Group 1 will contain the following REQUIRED Operation Attributes: "<i>attributes-charset</i>", "<i>attributes-natural-language</i>", "<i>last-document</i>" and ("<i>printer-uri</i>" & "job-id") or "<i>job-uri</i>". Group 2 will be Document Content (not empty).</p> <p>Before each Send-Document request a simple Create-Job will be submitted. If the Printer doesn't support the Create-Job operation the result of any test will be SKIPPED. If the Printer supports the operation, it is expected to accept the Create-Job request and return a valid "<i>job-id</i>" or "<i>job-uri</i>" whose values will be used to specify the target of Send-Document requests.</p> <p>Note that possible errors in Send-Document responses are:</p> <ul style="list-style-type: none"> • '<i>server-error-operation-not-supported</i>' if the Printer doesn't support the Send-Document operation; • '<i>server-error-job-canceled</i>' if the job was already canceled by the administrator or someone else; • '<i>client-error-timeout</i>' if the request was sent after the Printer closed the job, because it has not received a Send-Document or Send-URI operation within the Printer's "<i>multiple-operation-time-out</i>" period. 	
<p>4.1.4. Send-URI</p>	<p>This Test Job tests if the Job object makes all appropriate syntactic validation checks against the Operation Attributes supplied by the client in a Send-URI request.</p> <p>The tester will submit various Send-URI requests containing (among other attributes) one specific Operation attribute with different valid and invalid syntaxes/values. That's way this Test Job is separated in several Test Jobs:</p>	<p>See "4.1.4. Send-URI – Tests Description"</p>

	<p><i>charset</i>", <i>attributes-natural-language</i>", <i>last-document</i>", <i>document-uri</i>" and (<i>printer-uri</i>" & <i>job-id</i>") or <i>job-uri</i>".</p> <p>Before each Send-URI request a simple Create-Job will be submitted.</p> <p>If the Printer doesn't support the Create-Job operation the result of any test will be SKIPPED. If the Printer supports the operation, it is expected to accept the Create-Job request and return a valid <i>job-id</i>" or <i>job-uri</i>" whose values will be used to specify the target of Send-URI requests.</p> <p>Note that possible errors in Send-URI responses are:</p> <ul style="list-style-type: none">• <i>server-error-operation-not-supported</i> if the Printer doesn't support the Send-URI operation;• <i>client-error-uri-scheme-not-supported</i> if the scheme of the URI supplied in the <i>document-uri</i>" operational attribute is not supported by the Printer;• <i>client-error-not-found</i> if the Printer makes a preliminary existence check on the URI supplied in the <i>document-uri</i>" operational attribute and the document cannot be reached (due to an invalid URI or a network error);• <i>server-error-job-canceled</i> if the job was already canceled by the administrator or someone else;• <i>client-error-timeout</i> if the request was sent after the Printer closed the job, because it has not received a Send-Document or Send-URI operation within the Printer's <i>multiple-operation-time-out</i>" period.	
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4.1.1. Create-Job – Tests Description

Test Job Name	Test Job Description	Tests List
A) ipp-attribute-fidelity	<p>This Test Job tests if the Printer object validates the “<i>ipp-attribute-fidelity</i>” REQUIRED Operation Attribute in a Create-Job request.</p> <ul style="list-style-type: none"> The tester sends Create-Job requests with the “<i>ipp-attribute-fidelity</i>” not supplied or supplied with the ‘<i>false</i>’ / ‘<i>true</i>’ values. The Printer is expected to accept these requests. The tester sends Create-Job requests with “<i>ipp-attribute-fidelity</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. 	<p>O-4-1-1-A-01 O-4-1-1-A-02 O-4-1-1-A-03 O-4-1-1-A-04 O-4-1-1-A-05 O-4-1-1-A-06</p>
B) attributes-charset	<p>This Test Job tests if the Printer object validates the “<i>attributes-charset</i>” REQUIRED Operation Attribute in a Create-Job request.</p> <ul style="list-style-type: none"> The tester sends Create-Job requests with the “<i>attributes-charset</i>” supplied with the REQUIRED value ‘<i>utf-8</i>’. The Printer is expected to accept these requests. The tester sends Create-Job requests with “<i>attributes-charset</i>” having an unsupported value. The Printer is expected to reject the requests and return ‘<i>client-error-charset-not-supported</i>’ status-code. The tester sends Create-Job requests with “<i>attributes-charset</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. The tester sends Create-Job requests with “<i>attributes-charset</i>” having a wrong value length (> 63 octets). The Printer is expected to reject the requests and return ‘<i>client-error-request-value-too-long</i>’ status-code. The tester performs a Get-Printer-Attributes to find out the Printer’s “<i>charset-supported</i>” attribute values. The request is expected be successful. Then for each of these value sends a Create-Job with “<i>attributes-charset</i>” having that value. The Printer is expected to accept each request. 	<p>O-4-1-1-B-01 O-4-1-1-B-02 O-4-1-1-B-03 O-4-1-1-B-04 O-4-1-1-B-05 O-4-1-1-B-06 O-4-1-1-B-07 O-4-1-1-B-08 O-4-1-1-B-09 O-4-1-1-B-10 O-4-1-1-B-11 O-4-1-1-B-12 O-4-1-1-B-13</p>
C) attributes-natural-language	<p>This Test Job tests if the Printer object validates the “<i>attributes-natural-language</i>” REQUIRED Operation</p>	<p>O-4-1-1-C-01 O-4-1-1-C-02</p>

	<p><i>“attributes-natural-language”</i> having a wrong value length (> 63 octets). The Printer is expected to reject the requests and return <i>‘client-error-request-value-too-long’</i> status-code.</p> <ul style="list-style-type: none"> The tester performs a Get-Printer-Attributes to find out the Printer’s <i>“generated-natural-language-supported”</i> attribute values. The request is expected to be successful. Then for each of these value sends a Create-Job with <i>“attributes-natural-language”</i> having that value. The Printer is expected to accept each request. 	
D) requesting-user-name	<p>This Test Job tests if the Printer object validates the <i>“requesting-user-name”</i> REQUIRED Operation Attribute in a Create-Job request.</p> <ul style="list-style-type: none"> The tester sends Create-Job requests with the <i>“requesting-user-name”</i> supplied with valid values (having either <i>nameWithLanguage</i> or <i>nameWithoutLanguage</i> syntax). The Printer is expected to accept these requests. The tester sends Create-Job requests with <i>“requesting-user-name”</i> having a wrong syntax. The Printer is expected to reject the requests and return <i>‘client-error-bad-request’</i> status-code. The tester sends Create-Job requests with <i>“requesting-user-name”</i> having a wrong value length (> 255 octets). The Printer is expected to reject the requests and return <i>‘client-error-request-value-too-long’</i> status-code. 	O-4-1-1-D-01 O-4-1-1-D-02 O-4-1-1-D-03 O-4-1-1-D-04 O-4-1-1-D-05 O-4-1-1-D-06 O-4-1-1-D-07 O-4-1-1-D-08 O-4-1-1-D-09 O-4-1-1-D-10 O-4-1-1-D-11 O-4-1-1-D-12 O-4-1-1-D-13 O-4-1-1-D-14 O-4-1-1-D-15 O-4-1-1-D-16 O-4-1-1-D-17 O-4-1-1-D-18
E) job-name	<p>This Test Job tests if the Printer object validates the <i>“job-name”</i> REQUIRED Operation Attribute in a Create-Job request.</p> <ul style="list-style-type: none"> The tester sends Create-Job requests with the <i>“job-name”</i> supplied with valid values (having either <i>nameWithLanguage</i> or <i>nameWithoutLanguage</i> syntax). The Printer is expected to accept these requests. The tester sends Create-Job requests with <i>“job-name”</i> having a wrong syntax. The Printer is expected to reject the requests and return <i>‘client-error-bad-request’</i> status-code. The tester sends Create-Job requests with <i>“job-name”</i> having a wrong value length (> 255 octets). The Printer is expected to reject the requests and 	O-4-1-1-E-01 O-4-1-1-E-02 O-4-1-1-E-03 O-4-1-1-E-04 O-4-1-1-E-05 O-4-1-1-E-06 O-4-1-1-E-07 O-4-1-1-E-08 O-4-1-1-E-09 O-4-1-1-E-10 O-4-1-1-E-11 O-4-1-1-E-12 O-4-1-1-E-13 O-4-1-1-E-14 O-4-1-1-E-15

	<p>find out the Printer object's "<i>job-k-octets-supported</i>" attribute value. If the Printer doesn't support the attribute the result of the test is SKIPPED. Otherwise for each value in the range specified by "<i>job-k-octets-supported</i>" send a Create-Job with "<i>job-k-octets</i>" having that value. The Printer is expected to accept each request. If the Printer doesn't support "<i>job-k-octets</i>" it should return the attribute in the Unsupported Attributes group and return '<i>successful-ok-ignored-or-substituted-attributes</i>' status code.</p>	O-4-1-1-F-09
G) job-impressions	<p>This Test Job tests if the Printer object validates the "<i>job-impressions</i>" OPTIONAL Operation Attribute in a Create-Job request.</p> <ul style="list-style-type: none"> The tester sends Create-Job requests with "<i>job-impressions</i>" having a wrong syntax. The Printer is expected to reject the requests and return '<i>client-error-bad-request</i>' status-code. The tester performs a Get-Printer-Attributes to find out the Printer object's "<i>job-impressions-supported</i>" attribute value. If the Printer doesn't support the attribute the result of the test is SKIPPED. Otherwise for each value in the range specified by "<i>job-impressions-supported</i>" send a Create-Job with "<i>job-impressions</i>" having that value. The Printer is expected to accept each request. If the Printer doesn't support "<i>job-impressions</i>" it should return the attribute in the Unsupported Attributes group and return '<i>successful-ok-ignored-or-substituted-attributes</i>' status code. 	O-4-1-1-G-01 O-4-1-1-G-02 O-4-1-1-G-03 O-4-1-1-G-04 O-4-1-1-G-05 O-4-1-1-G-06 O-4-1-1-G-07 O-4-1-1-G-08 O-4-1-1-G-09
H) job-media-sheets	<p>This Test Job tests if the Printer object validates the "<i>job-media-sheets</i>" OPTIONAL Operation Attribute in a Create-Job request.</p> <ul style="list-style-type: none"> The tester sends Create-Job requests with "<i>job-media-sheets</i>" having a wrong syntax. The Printer is expected to reject the requests and return '<i>client-error-bad-request</i>' status-code. The tester performs a Get-Printer-Attributes to find out the Printer object's "<i>job-media-sheets-supported</i>" attribute value. If the Printer doesn't support the attribute the result of the test is SKIPPED. Otherwise for each value in the range specified by "<i>job-media-sheets-supported</i>" send a Create-Job with "<i>job-media-sheets</i>" having that 	O-4-1-1-H-01 O-4-1-1-H-02 O-4-1-1-H-03 O-4-1-1-H-04 O-4-1-1-H-05 O-4-1-1-H-06 O-4-1-1-H-07 O-4-1-1-H-08 O-4-1-1-H-09

	<p>expected to reject the requests and return '<i>client-error-bad-request</i>' status-code (if it supports the attribute) or to return it in the Unsupported Attributes group (if it doesn't support it).</p> <ul style="list-style-type: none"> For every integer value between 1 and 100 send a Create-Job with "<i>job-priority</i>" having that value. If the Printer supports "<i>job-priority</i>", it is expected to accept each request. Otherwise it should return the attribute in the Unsupported Attributes group and return '<i>successful-ok-ignored-or-substituted-attributes</i>' / '<i>client-error-attributes-or-values-not-supported</i>' status code depending on the value of "<i>ipp-attribute-fidelity</i>" operational attribute. 	<p>O-4-1-1-I-06 O-4-1-1-I-07 O-4-1-1-I-08 O-4-1-1-I-09</p>
J) job-hold-until	<p>This Test Job tests if the Printer object validates the "<i>job-hold-until</i>" OPTIONAL Job Template Attribute in a Create-Job request.</p> <ul style="list-style-type: none"> The tester sends Create-Job requests with "<i>job-hold-until</i>" having a wrong syntax. The Printer is expected to reject the requests and return '<i>client-error-bad-request</i>' status-code (if it supports the attribute) or to return it in the Unsupported Attributes group (if it doesn't support it). The tester performs a Get-Printer-Attributes to find out the Printer object's "<i>job-hold-until-supported</i>" attribute values. If the Printer doesn't support the attribute the result of the test is SKIPPED. Otherwise, for every value in the set specified by "<i>job-hold-until-supported</i>" attribute value, the tester sends a Create-Job with "<i>job-hold-until</i>" having that value. If the Printer supports "<i>job-hold-until</i>", it is expected to accept each request. Otherwise it should return the attribute in the Unsupported Attributes group and return '<i>successful-ok-ignored-or-substituted-attributes</i>' / '<i>client-error-attributes-or-values-not-supported</i>' status code depending on the value of "<i>ipp-attribute-fidelity</i>" operational attribute. The tester sends a Create-Job request with "<i>job-hold-until</i>" having an unsupported value. The Printer is expected to return it in the Unsupported Attributes group with the '<i>unsupported</i>' out-of-band value (if the Printer doesn't support the attribute) or with the offending value (if the attribute is supported). 	<p>O-4-1-1-J-01 O-4-1-1-J-02 O-4-1-1-J-03 O-4-1-1-J-04 O-4-1-1-J-05 O-4-1-1-J-06 O-4-1-1-J-07 O-4-1-1-J-08 O-4-1-1-J-09</p>
K) job-sheets	<p>This Test Job tests if the Printer object validates the</p>	<p>O-4-1-1-K-01</p>

	<p>attribute the result of the test is SKIPPED. Otherwise, for every value in the set specified by “<i>job-sheets-supported</i>” attribute value, the tester sends a Create-Job with “<i>job-sheets</i>” having that value. If the Printer supports “<i>job-sheets</i>”, it is expected to accept each request. Otherwise it should return the attribute in the Unsupported Attributes group and return ‘<i>successful-ok-ignored-or-substituted-attributes</i>’ / ‘<i>client-error-attributes-or-values-not-supported</i>’ status code depending on the value of “<i>ipp-attribute-fidelity</i>” operational attribute.</p> <ul style="list-style-type: none"> • The tester sends a Create-Job request with “<i>job-sheets</i>” having an unsupported value. The Printer is expected to return it in the Unsupported Attributes group with the ‘<i>unsupported</i>’ out-of-band value (if the Printer doesn’t support the attribute) or with the offending value (if the attribute is supported). 	
<p>L) multiple-document-handling</p>	<p>This Test Job tests if the Printer object validates the “<i>multiple-document-handling</i>” OPTIONAL Job Template Attribute in a Create-Job request.</p> <ul style="list-style-type: none"> • The tester sends Create-Job requests with “<i>multiple-document-handling</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code (if it supports the attribute) or to return it in the Unsupported Attributes group (if it doesn’t support it). • The tester performs a Get-Printer-Attributes to find out the Printer object’s “<i>multiple-document-handling-supported</i>” attribute values. If the Printer doesn’t support the attribute the result of the test is SKIPPED. Otherwise, for every value in the set specified by “<i>multiple-document-handling-supported</i>” attribute value, the tester sends a Create-Job with “<i>multiple-document-handling</i>” having that value. If the Printer supports “<i>multiple-document-handling</i>”, it is expected to accept each request. Otherwise it should return the attribute in the Unsupported Attributes group and return ‘<i>successful-ok-ignored-or-substituted-attributes</i>’ / ‘<i>client-error-attributes-or-values-not-supported</i>’ status code depending on the value of “<i>ipp-attribute-fidelity</i>” operational attribute. • The tester sends a Create-Job request with “<i>multiple-document-handling</i>” having an unsupported value. The Printer is expected to return it in the 	<p>O-4-1-1-L-01 O-4-1-1-L-02 O-4-1-1-L-03 O-4-1-1-L-04 O-4-1-1-L-05 O-4-1-1-L-06 O-4-1-1-L-07 O-4-1-1-L-08 O-4-1-1-L-09</p>

	<p><i>error-bad-request</i> status-code (if it supports the attribute) or to return it in the Unsupported Attributes group (if it doesn't support it).</p> <ul style="list-style-type: none"> The tester performs a Get-Printer-Attributes to find out the Printer object's "<i>copies-supported</i>" attribute values. If the Printer doesn't support the attribute the result of the test is SKIPPED. Otherwise, for every integer value in the range specified by "<i>copies-supported</i>" attribute value, the tester sends a Create-Job with "<i>copies</i>" having that value. If the Printer supports "<i>copies</i>", it is expected to accept each request. Otherwise it should return the attribute in the Unsupported Attributes group and return '<i>successful-ok-ignored-or-substituted-attributes</i>' / '<i>client-error-attributes-or-values-not-supported</i>' status code depending on the value of "<i>ipp-attribute-fidelity</i>" operational attribute. The tester sends a Create-Job request with "<i>copies</i>" having an unsupported value (negative value). The Printer is expected to return it in the Unsupported Attributes group with the '<i>unsupported</i>' out-of-band value (if the Printer doesn't support the attribute) or with the offending value (if the attribute is supported). 	<p>O-4-1-1-M-07 O-4-1-1-M-08 O-4-1-1-M-09</p>
<p>N) finishings</p>	<p>This Test Job tests if the Printer object validates the "<i>finishings</i>" OPTIONAL Job Template Attribute in a Create-Job request.</p> <ul style="list-style-type: none"> The tester sends Create-Job requests with "<i>finishings</i>" having a wrong syntax. The Printer is expected to reject the requests and return '<i>client-error-bad-request</i>' status-code (if it supports the attribute) or to return it in the Unsupported Attributes group (if it doesn't support it). The tester performs a Get-Printer-Attributes to find out the Printer object's "<i>finishings-supported</i>" attribute values. If the Printer doesn't support the attribute the result of the test is SKIPPED. Otherwise, for every <i>enum</i> value in the set specified by "<i>finishings-supported</i>" attribute value, the tester sends a Create-Job with "<i>finishings</i>" having that value. If the Printer supports "<i>finishings</i>", it is expected to accept each request. Otherwise it should return the attribute in the Unsupported Attributes group and return '<i>successful-ok-ignored-or-</i> 	<p>O-4-1-1-N-01 O-4-1-1-N-02 O-4-1-1-N-03 O-4-1-1-N-04 O-4-1-1-N-05 O-4-1-1-N-06 O-4-1-1-N-07 O-4-1-1-N-08 O-4-1-1-N-09</p>

	<p>“<i>page-ranges</i>” OPTIONAL Job Template Attribute in a Create-Job request.</p> <ul style="list-style-type: none"> The tester sends Create-Job requests with “<i>page-ranges</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code (if it supports the attribute) or to return it in the Unsupported Attributes group (if it doesn’t support it). The tester performs a Get-Printer-Attributes to find out the Printer object’s “<i>page-ranges-supported</i>” attribute values. If the Printer doesn’t support the attribute the result of the test is SKIPPED. Otherwise, if the “<i>page-ranges-supported</i>” attribute value is ‘<i>true</i>’, the tester sends a Create-Job with “<i>page-ranges</i>” having a valid value. If the Printer supports “<i>page-ranges</i>”, it is expected to accept each request. Otherwise it should return the attribute in the Unsupported Attributes group and return ‘<i>successful-ok-ignored-or-substituted-attributes</i>’ / ‘<i>client-error-attributes-or-values-not-supported</i>’ status code depending on the value of “<i>ipp-attribute-fidelity</i>” operational attribute. The tester sends a Create-Job request with “<i>page-ranges</i>” having an invalid value (the first value is greater than the second value). The Printer is expected to return it in the Unsupported Attributes group with the ‘<i>unsupported</i>’ out-of-band value (if the Printer doesn’t support the attribute) or to reject the request and return ‘<i>client-error-bad-request</i>’ status code (if the attribute is supported). 	<p>O-4-1-1-O-02 O-4-1-1-O-03 O-4-1-1-O-04 O-4-1-1-O-05 O-4-1-1-O-06 O-4-1-1-O-07 O-4-1-1-O-08 O-4-1-1-O-09</p>
<p>P) sides</p>	<p>This Test Job tests if the Printer object validates the “<i>sides</i>” OPTIONAL Job Template Attribute in a Create-Job request.</p> <ul style="list-style-type: none"> The tester sends Create-Job requests with “<i>sides</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code (if it supports the attribute) or to return it in the Unsupported Attributes group (if it doesn’t support it). The tester performs a Get-Printer-Attributes to find out the Printer object’s “<i>sides-supported</i>” attribute values. If the Printer doesn’t support the attribute the result of the test is SKIPPED. Otherwise, for every value in the set specified by “<i>sides-supported</i>” attribute value, the tester sends a Create- 	<p>O-4-1-1-P-01 O-4-1-1-P-02 O-4-1-1-P-03 O-4-1-1-P-04 O-4-1-1-P-05 O-4-1-1-P-06 O-4-1-1-P-07 O-4-1-1-P-08 O-4-1-1-P-09</p>

	<p>expected to return it in the Unsupported Attributes group with the '<i>unsupported</i>' out-of-band value (if the Printer doesn't support the attribute) or with the offending value (if the attribute is supported).</p>	
Q) number-up	<p>This Test Job tests if the Printer object validates the "<i>number-up</i>" OPTIONAL Job Template Attribute in a Create-Job request.</p> <ul style="list-style-type: none"> The tester sends Create-Job requests with "<i>number-up</i>" having a wrong syntax. The Printer is expected to reject the requests and return '<i>client-error-bad-request</i>' status-code (if it supports the attribute) or to return it in the Unsupported Attributes group (if it doesn't support it). The tester performs a Get-Printer-Attributes to find out the Printer object's "<i>number-up-supported</i>" attribute value. If the Printer doesn't support the attribute the result of the test is SKIPPED. Otherwise, for every value in the set specified by "<i>number-up-supported</i>" attribute value, the tester sends a Create-Job with "<i>number-up</i>" having that value. If the Printer supports "<i>number-up</i>", it is expected to accept each request. Otherwise it should return the attribute in the Unsupported Attributes group and return '<i>successful-ok-ignored-or-substituted-attributes</i>' / '<i>client-error-attributes-or-values-not-supported</i>' status code depending on the value of "<i>ipp-attribute-fidelity</i>" operational attribute. The tester sends a Create-Job request with "<i>number-up</i>" having an unsupported value. The Printer is expected to return it in the Unsupported Attributes group with the '<i>unsupported</i>' out-of-band value (if the Printer doesn't support the attribute) or with the offending value (if the attribute is supported). 	<p>O-4-1-1-Q-01 O-4-1-1-Q-02 O-4-1-1-Q-03 O-4-1-1-Q-04 O-4-1-1-Q-05 O-4-1-1-Q-06 O-4-1-1-Q-07 O-4-1-1-Q-08 O-4-1-1-Q-09</p>
R) orientation-requested	<p>This Test Job tests if the Printer object validates the "<i>orientation-requested</i>" OPTIONAL Job Template Attribute in a Create-Job request.</p> <ul style="list-style-type: none"> The tester sends Create-Job requests with "<i>orientation-requested</i>" having a wrong syntax. The Printer is expected to reject the requests and return '<i>client-error-bad-request</i>' status-code (if it supports the attribute) or to return it in the Unsupported Attributes group (if it doesn't support it). The tester performs a Get-Printer-Attributes to 	<p>O-4-1-1-R-01 O-4-1-1-R-02 O-4-1-1-R-03 O-4-1-1-R-04 O-4-1-1-R-05 O-4-1-1-R-06 O-4-1-1-R-07 O-4-1-1-R-08 O-4-1-1-R-09</p>

	<p><i>substituted-attributes</i> / <i>client-error-attributes-or-values-not-supported</i> status code depending on the value of <i>ipp-attribute-fidelity</i> operational attribute.</p> <ul style="list-style-type: none"> The tester sends a Create-Job request with <i>orientation-requested</i> having an unsupported value. The Printer is expected to return it in the Unsupported Attributes group with the <i>unsupported</i> out-of-band value (if the Printer doesn't support the attribute) or with the offending value (if the attribute is supported). 	
S) media	<p>This Test Job tests if the Printer object validates the <i>media</i> OPTIONAL Job Template Attribute in a Create-Job request.</p> <ul style="list-style-type: none"> The tester sends Create-Job requests with <i>media</i> having a wrong syntax. The Printer is expected to reject the requests and return <i>client-error-bad-request</i> status-code (if it supports the attribute) or to return it in the Unsupported Attributes group (if it doesn't support it). The tester performs a Get-Printer-Attributes to find out the Printer object's <i>media-supported</i> attribute value. If the Printer doesn't support the attribute the result of the test is SKIPPED. Otherwise, for every value in the set specified by <i>media-supported</i> attribute value, the tester sends a Create-Job with <i>media</i> having that value. If the Printer supports <i>media</i>, it is expected to accept each request. Otherwise it should return the attribute in the Unsupported Attributes group and return <i>successful-ok-ignored-or-substituted-attributes</i> / <i>client-error-attributes-or-values-not-supported</i> status code depending on the value of <i>ipp-attribute-fidelity</i> operational attribute. The tester sends a Create-Job request with <i>media</i> having an unsupported value. The Printer is expected to return it in the Unsupported Attributes group with the <i>unsupported</i> out-of-band value (if the Printer doesn't support the attribute) or with the offending value (if the attribute is supported). 	<p>O-4-1-1-S-01 O-4-1-1-S-02 O-4-1-1-S-03 O-4-1-1-S-04 O-4-1-1-S-05 O-4-1-1-S-06 O-4-1-1-S-07 O-4-1-1-S-08 O-4-1-1-S-09</p>
T) printer-resolution	<p>This Test Job tests if the Printer object validates the <i>printer-resolution</i> OPTIONAL Job Template Attribute in a Create-Job request.</p> <ul style="list-style-type: none"> The tester sends Create-Job requests with 	<p>O-4-1-1-T-01 O-4-1-1-T-02 O-4-1-1-T-03 O-4-1-1-T-04</p>

	<p>value, the tester sends a Create-Job with “<i>printer-resolution</i>” having that value. If the Printer supports “<i>printer-resolution</i>”, it is expected to accept each request. Otherwise it should return the attribute in the Unsupported Attributes group and return ‘<i>successful-ok-ignored-or-substituted-attributes</i>’ / ‘<i>client-error-attributes-or-values-not-supported</i>’ status code depending on the value of “<i>ipp-attribute-fidelity</i>” operational attribute.</p> <ul style="list-style-type: none"> • The tester sends a Create-Job request with “<i>printer-resolution</i>” having an unsupported value. The Printer is expected to return it in the Unsupported Attributes group with the ‘<i>unsupported</i>’ out-of-band value (if the Printer doesn’t support the attribute) or with the offending value (if the attribute is supported). 	
<p>U) print-quality</p>	<p>This Test Job tests if the Printer object validates the “<i>print-quality</i>” OPTIONAL Job Template Attribute in a Create-Job request.</p> <ul style="list-style-type: none"> • The tester sends Create-Job requests with “<i>print-quality</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code (if it supports the attribute) or to return it in the Unsupported Attributes group (if it doesn’t support it). • The tester performs a Get-Printer-Attributes to find out the Printer object’s “<i>print-quality-supported</i>” attribute value. If the Printer doesn’t support the attribute the result of the test is SKIPPED. Otherwise, for every value in the set specified by “<i>print-quality-supported</i>” attribute value, the tester sends a Create-Job with “<i>print-quality</i>” having that value. If the Printer supports “<i>print-quality</i>”, it is expected to accept each request. Otherwise it should return the attribute in the Unsupported Attributes group and return ‘<i>successful-ok-ignored-or-substituted-attributes</i>’ / ‘<i>client-error-attributes-or-values-not-supported</i>’ status code depending on the value of “<i>ipp-attribute-fidelity</i>” operational attribute. <p>The tester sends a Create-Job request with “<i>print-quality</i>” having an unsupported value. The Printer is expected to return it in the Unsupported Attributes group with the ‘<i>unsupported</i>’ out-of-band value (if the Printer doesn’t support the attribute) or with the offending value (if the attribute is supported).</p>	<p>O-4-1-1-U-01 O-4-1-1-U-02 O-4-1-1-U-03 O-4-1-1-U-04 O-4-1-1-U-05 O-4-1-1-U-06 O-4-1-1-U-07 O-4-1-1-U-08 O-4-1-1-U-09</p>

4.1.2. Print-URI – Tests Description

Test Job Name	Test Job Description	Tests List
A) ipp-attribute-fidelity	<p>This Test Job tests if the Printer object validates the “<i>ipp-attribute-fidelity</i>” REQUIRED Operation Attribute in a Print-URI request.</p> <ul style="list-style-type: none"> The tester sends Print-URI requests with the “<i>ipp-attribute-fidelity</i>” not supplied or supplied with the ‘<i>false</i>’ / ‘<i>true</i>’ values. The Printer is expected to accept these requests. The tester sends Print-URI requests with “<i>ipp-attribute-fidelity</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. 	<p>O-4-1-2-A-01 O-4-1-2-A-02 O-4-1-2-A-03 O-4-1-2-A-04 O-4-1-2-A-05 O-4-1-2-A-06</p>
B) attributes-charset	<p>This Test Job tests if the Printer object validates the “<i>attributes-charset</i>” REQUIRED Operation Attribute in a Print-URI request.</p> <ul style="list-style-type: none"> The tester sends Print-URI requests with the “<i>attributes-charset</i>” supplied with the REQUIRED value ‘<i>utf-8</i>’. The Printer is expected to accept these requests. The tester sends Print-URI requests with “<i>attributes-charset</i>” having an unsupported value. The Printer is expected to reject the requests and return ‘<i>client-error-charset-not-supported</i>’ status-code. The tester sends Print-URI requests with “<i>attributes-charset</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. The tester sends Print-URI requests with “<i>attributes-charset</i>” having a wrong value length (> 63 octets). The Printer is expected to reject the requests and return ‘<i>client-error-request-value-too-long</i>’ status-code. The tester performs a Get-Printer-Attributes to find out the Printer’s “<i>charset-supported</i>” attribute values. The request is expected be successful. Then for each of these value sends a Print-URI with “<i>attributes-charset</i>” having that value. The Printer is expected to accept each request. 	<p>O-4-1-2-B-01 O-4-1-2-B-02 O-4-1-2-B-03 O-4-1-2-B-04 O-4-1-2-B-05 O-4-1-2-B-06 O-4-1-2-B-07 O-4-1-2-B-08 O-4-1-2-B-09 O-4-1-2-B-10 O-4-1-2-B-11 O-4-1-2-B-12 O-4-1-2-B-13</p>
C) attributes-natural-language	<p>This Test Job tests if the Printer object validates the “<i>attributes-natural-language</i>” REQUIRED Operation</p>	<p>O-4-1-2-C-01 O-4-1-2-C-02</p>

	<p><i>“attributes-natural-language”</i> having a wrong value length (> 63 octets). The Printer is expected to reject the requests and return <i>‘client-error-request-value-too-long’</i> status-code.</p> <ul style="list-style-type: none"> The tester performs a Get-Printer-Attributes to find out the Printer’s <i>“generated-natural-language-supported”</i> attribute values. The request is expected to be successful. Then for each of these value sends a Print-URI with <i>“attributes-natural-language”</i> having that value. The Printer is expected to accept each request. 	
D) requesting-user-name	<p>This Test Job tests if the Printer object validates the <i>“requesting-user-name”</i> REQUIRED Operation Attribute in a Print-URI request.</p> <ul style="list-style-type: none"> The tester sends Print-URI requests with the <i>“requesting-user-name”</i> supplied with valid values (having either <i>nameWithLanguage</i> or <i>nameWithoutLanguage</i> syntax). The Printer is expected to accept these requests. The tester sends Print-URI requests with <i>“requesting-user-name”</i> having a wrong syntax. The Printer is expected to reject the requests and return <i>‘client-error-bad-request’</i> status-code. The tester sends Print-URI requests with <i>“requesting-user-name”</i> having a wrong value length (> 255 octets). The Printer is expected to reject the requests and return <i>‘client-error-request-value-too-long’</i> status-code. 	O-4-1-2-D-01 O-4-1-2-D-02 O-4-1-2-D-03 O-4-1-2-D-04 O-4-1-2-D-05 O-4-1-2-D-06 O-4-1-2-D-07 O-4-1-2-D-08 O-4-1-2-D-09 O-4-1-2-D-10 O-4-1-2-D-11 O-4-1-2-D-12 O-4-1-2-D-13 O-4-1-2-D-14 O-4-1-2-D-15 O-4-1-2-D-16 O-4-1-2-D-17 O-4-1-2-D-18
E) job-name	<p>This Test Job tests if the Printer object validates the <i>“job-name”</i> REQUIRED Operation Attribute in a Print-URI request.</p> <ul style="list-style-type: none"> The tester sends Print-URI requests with the <i>“job-name”</i> supplied with valid values (having either <i>nameWithLanguage</i> or <i>nameWithoutLanguage</i> syntax). The Printer is expected to accept these requests. The tester sends Print-URI requests with <i>“job-name”</i> having a wrong syntax. The Printer is expected to reject the requests and return <i>‘client-error-bad-request’</i> status-code. The tester sends Print-URI requests with <i>“job-name”</i> having a wrong value length (> 255 octets). The Printer is expected to reject the requests and 	O-4-1-2-E-01 O-4-1-2-E-02 O-4-1-2-E-03 O-4-1-2-E-04 O-4-1-2-E-05 O-4-1-2-E-06 O-4-1-2-E-07 O-4-1-2-E-08 O-4-1-2-E-09 O-4-1-2-E-10 O-4-1-2-E-11 O-4-1-2-E-12 O-4-1-2-E-13 O-4-1-2-E-14 O-4-1-2-E-15

	<ul style="list-style-type: none"> • The tester sends Print-URI requests with “<i>document-name</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. • The tester sends Print-URI requests with “<i>document-name</i>” having a wrong value length. The Printer is expected to reject the requests and return ‘<i>client-error-request-value-too-long</i>’ status-code. 	O-4-1-2-F-09 O-4-1-2-F-10 O-4-1-2-F-11 O-4-1-2-F-12 O-4-1-2-F-13 O-4-1-2-F-14 O-4-1-2-F-15 O-4-1-2-F-16 O-4-1-2-F-17 O-4-1-2-F-18
G) document-format	<p>This Test Job tests if the Printer object validates the “<i>document-format</i>” REQUIRED Operation Attribute in a Print-URI request.</p> <ul style="list-style-type: none"> • The tester sends Print-URI requests with “<i>document-format</i>” having an unsupported value. The Printer is expected to reject the requests and return ‘<i>client-error-document-format-not-supported</i>’ status-code. • The tester sends Print-URI requests with “<i>document-format</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. • The tester sends Print-URI requests with “<i>document-format</i>” having a wrong value length (> 255 octets). The Printer is expected to reject the requests and return ‘<i>client-error-request-value-too-long</i>’ status-code. • The tester performs a Get-Printer-Attributes to find out the Printer object’s “<i>document-format-supported</i>” attribute values. The request is expected be successful. Then for each of these value sends a Print-URI with “<i>document-format</i>” having that value. The Printer is expected to accept each request. 	O-4-1-2-G-01 O-4-1-2-G-02 O-4-1-2-G-03 O-4-1-2-G-04 O-4-1-2-G-05 O-4-1-2-G-06 O-4-1-2-G-07 O-4-1-2-G-08 O-4-1-2-G-09 O-4-1-2-G-10 O-4-1-2-G-11 O-4-1-2-G-12
H) document-natural-language	<p>This Test Job tests if the Printer object validates the “<i>document-natural-language</i>” OPTIONAL Operation Attribute in a Print-URI request.</p> <ul style="list-style-type: none"> • The tester sends Print-URI requests with “<i>document-natural-language</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. • The tester sends Print-URI requests with “<i>document-natural-language</i>” having an unsupported value. The Printer is expected to reject the requests and return ‘<i>client-error-attributes-or-values-not-supported</i>’ status-code. 	O-4-1-2-H-01 O-4-1-2-H-02 O-4-1-2-H-03 O-4-1-2-H-04 O-4-1-2-H-05 O-4-1-2-H-06 O-4-1-2-H-07 O-4-1-2-H-08 O-4-1-2-H-09 O-4-1-2-H-10 O-4-1-2-H-11

I) compression	<p>This Test Job tests if the Printer object validates the “<i>compression</i>” OPTIONAL Operation Attribute in a Print-URI request.</p> <ul style="list-style-type: none"> • The tester sends Print-URI requests with “<i>compression</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. • The tester sends Print-URI requests with “<i>compression</i>” having a wrong value length (> 255 octets). The Printer is expected to reject the requests and return ‘<i>client-error-request-value-too-long</i>’ status-code. • The tester performs a Get-Printer-Attributes to find out the Printer object’s “<i>compression-supported</i>” attribute values. If the Printer doesn’t support the attribute the result of the test is SKIPPED. Otherwise for each value between 1 and the value of “<i>compression-supported</i>” send a Print-URI with “<i>compression</i>” having that value. The Printer is expected to accept each request. If the Printer doesn’t support “<i>compression</i>” it should return the attribute in the Unsupported Attributes group and return ‘<i>successful-ok-ignored-or-substituted-attributes</i>’ status code. 	O-4-1-2-I-01 O-4-1-2-I-02 O-4-1-2-I-03 O-4-1-2-I-04 O-4-1-2-I-05 O-4-1-2-I-06 O-4-1-2-I-07 O-4-1-2-I-08 O-4-1-2-I-09 O-4-1-2-I-10 O-4-1-2-I-11 O-4-1-2-I-12
J) job-k-octets	<p>This Test Job tests if the Printer object validates the “<i>job-k-octets</i>” OPTIONAL Operation Attribute in a Print-URI request.</p> <ul style="list-style-type: none"> • The tester sends Print-URI requests with “<i>job-k-octets</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. • The tester performs a Get-Printer-Attributes to find out the Printer object’s “<i>job-k-octets-supported</i>” attribute value. If the Printer doesn’t support the attribute the result of the test is SKIPPED. Otherwise for each value in the range specified by “<i>job-k-octets-supported</i>” send a Print-URI with “<i>job-k-octets</i>” having that value. The Printer is expected to accept each request. If the Printer doesn’t support “<i>job-k-octets</i>” it should return the attribute in the Unsupported Attributes group and return ‘<i>successful-ok-ignored-or-substituted-attributes</i>’ status code. 	O-4-1-2-J-01 O-4-1-2-J-02 O-4-1-2-J-03 O-4-1-2-J-04 O-4-1-2-J-05 O-4-1-2-J-06 O-4-1-2-J-07 O-4-1-2-J-08 O-4-1-2-J-09
K) job-impressions	<p>This Test Job tests if the Printer object validates the</p>	O-4-1-2-K-01

	<p>specified by “<i>job-impressions-supported</i>” send a Print-URI with “<i>job-impressions</i>” having that value. The Printer is expected to accept each request. If the Printer doesn’t support “<i>job-impressions</i>” it should return the attribute in the Unsupported Attributes group and return ‘<i>successful-ok-ignored-or-substituted-attributes</i>’ status code.</p>	
L) job-media-sheets	<p>This Test Job tests if the Printer object validates the “<i>job-media-sheets</i>” OPTIONAL Operation Attribute in a Print-URI request.</p> <ul style="list-style-type: none"> • The tester sends Print-URI requests with “<i>job-media-sheets</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. • The tester performs a Get-Printer-Attributes to find out the Printer object’s “<i>job-media-sheets-supported</i>” attribute value. If the Printer doesn’t support the attribute the result of the test is SKIPPED. Otherwise for each value in the range specified by “<i>job-media-sheets-supported</i>” send a Print-URI with “<i>job-media-sheets</i>” having that value. The Printer is expected to accept each request. If the Printer doesn’t support “<i>job-media-sheets</i>” it should return the attribute in the Unsupported Attributes group and return ‘<i>successful-ok-ignored-or-substituted-attributes</i>’ status code. 	<p>O-4-1-2-L-01 O-4-1-2-L-02 O-4-1-2-L-03 O-4-1-2-L-04 O-4-1-2-L-05 O-4-1-2-L-06 O-4-1-2-L-07 O-4-1-2-L-08 O-4-1-2-L-09</p>
M) job-priority	<p>This Test Job tests if the Printer object validates the “<i>job-priority</i>” OPTIONAL Job Template Attribute in a Print-URI request.</p> <ul style="list-style-type: none"> • The tester sends Print-URI requests with “<i>job-priority</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code (if it supports the attribute) or to return it in the Unsupported Attributes group (if it doesn’t support it). • For every integer value between 1 and 100 send a Print-URI with “<i>job-priority</i>” having that value. If the Printer supports “<i>job-priority</i>”, it is expected to accept each request. Otherwise it should return the attribute in the Unsupported Attributes group and return ‘<i>successful-ok-ignored-or-substituted-attributes</i>’ / ‘<i>client-error-attributes-or-values-not-supported</i>’ status code depending on the value of “<i>jpp-attribute-fidelity</i>” 	<p>O-4-1-2-M-01 O-4-1-2-M-02 O-4-1-2-M-03 O-4-1-2-M-04 O-4-1-2-M-05 O-4-1-2-M-06 O-4-1-2-M-07 O-4-1-2-M-08 O-4-1-2-M-09</p>

	<ul style="list-style-type: none"> • The tester performs a Get-Printer-Attributes to find out the Printer object's "<i>job-hold-until-supported</i>" attribute values. If the Printer doesn't support the attribute the result of the test is SKIPPED. Otherwise, for every value in the set specified by "<i>job-hold-until-supported</i>" attribute value, the tester sends a Print-URI with "<i>job-hold-until</i>" having that value. If the Printer supports "<i>job-hold-until</i>", it is expected to accept each request. Otherwise it should return the attribute in the Unsupported Attributes group and return '<i>successful-ok-ignored-or-substituted-attributes</i>' / '<i>client-error-attributes-or-values-not-supported</i>' status code depending on the value of "<i>ipp-attribute-fidelity</i>" operational attribute. • The tester sends a Print-URI request with "<i>job-hold-until</i>" having an unsupported value. The Printer is expected to return it in the Unsupported Attributes group with the '<i>unsupported</i>' out-of-band value (if the Printer doesn't support the attribute) or with the offending value (if the attribute is supported). 	
O) job-sheets	<p>This Test Job tests if the Printer object validates the "<i>job-sheets</i>" OPTIONAL Job Template Attribute in a Print-URI request.</p> <ul style="list-style-type: none"> • The tester sends Print-URI requests with "<i>job-sheets</i>" having a wrong syntax. The Printer is expected to reject the requests and return '<i>client-error-bad-request</i>' status-code (if it supports the attribute) or to return it in the Unsupported Attributes group (if it doesn't support it). • The tester performs a Get-Printer-Attributes to find out the Printer object's "<i>job-sheets-supported</i>" attribute values. If the Printer doesn't support the attribute the result of the test is SKIPPED. Otherwise, for every value in the set specified by "<i>job-sheets-supported</i>" attribute value, the tester sends a Print-URI with "<i>job-sheets</i>" having that value. If the Printer supports "<i>job-sheets</i>", it is expected to accept each request. Otherwise it should return the attribute in the Unsupported Attributes group and return '<i>successful-ok-ignored-or-substituted-attributes</i>' / '<i>client-error-attributes-or-values-not-supported</i>' status code depending on the value of "<i>ipp-attribute-fidelity</i>" operational attribute. • The tester sends a Print-URI request with "<i>job-sheets</i>" having an unsupported value. The Printer is 	O-4-1-2-O-01 O-4-1-2-O-02 O-4-1-2-O-03 O-4-1-2-O-04 O-4-1-2-O-05 O-4-1-2-O-06 O-4-1-2-O-07 O-4-1-2-O-08 O-4-1-2-O-09

	<p>The Printer is expected to reject the requests and return '<i>client-error-bad-request</i>' status-code (if it supports the attribute) or to return it in the Unsupported Attributes group (if it doesn't support it).</p> <ul style="list-style-type: none"> The tester performs a Get-Printer-Attributes to find out the Printer object's "<i>multiple-document-handling-supported</i>" attribute values. If the Printer doesn't support the attribute the result of the test is SKIPPED. Otherwise, for every value in the set specified by "<i>multiple-document-handling-supported</i>" attribute value, the tester sends a Print-URI with "<i>multiple-document-handling</i>" having that value. If the Printer supports "<i>multiple-document-handling</i>", it is expected to accept each request. Otherwise it should return the attribute in the Unsupported Attributes group and return '<i>successful-ok-ignored-or-substituted-attributes</i>' / '<i>client-error-attributes-or-values-not-supported</i>' status code depending on the value of "<i>ipp-attribute-fidelity</i>" operational attribute. The tester sends a Print-URI request with "<i>multiple-document-handling</i>" having an unsupported value. The Printer is expected to return it in the Unsupported Attributes group with the '<i>unsupported</i>' out-of-band value (if the Printer doesn't support the attribute) or with the offending value (if the attribute is supported). 	<p>O-4-1-2-P-06 O-4-1-2-P-07 O-4-1-2-P-08 O-4-1-2-P-09</p>
<p>Q) copies</p>	<p>This Test Job tests if the Printer object validates the "<i>copies</i>" OPTIONAL Job Template Attribute in a Print-URI request.</p> <ul style="list-style-type: none"> The tester sends Print-URI requests with "<i>copies</i>" having a wrong syntax. The Printer is expected to reject the requests and return '<i>client-error-bad-request</i>' status-code (if it supports the attribute) or to return it in the Unsupported Attributes group (if it doesn't support it). The tester performs a Get-Printer-Attributes to find out the Printer object's "<i>copies-supported</i>" attribute values. If the Printer doesn't support the attribute the result of the test is SKIPPED. Otherwise, for every integer value in the range specified by "<i>copies-supported</i>" attribute value, the tester sends a Print-URI with "<i>copies</i>" having that value. If the Printer supports "<i>copies</i>", it is expected to accept each request. Otherwise it should return the attribute 	<p>O-4-1-2-Q-01 O-4-1-2-Q-02 O-4-1-2-Q-03 O-4-1-2-Q-04 O-4-1-2-Q-05 O-4-1-2-Q-06 O-4-1-2-Q-07 O-4-1-2-Q-08 O-4-1-2-Q-09</p>

	supported).	
R) finishings	<p>This Test Job tests if the Printer object validates the “<i>finishings</i>” OPTIONAL Job Template Attribute in a Print-URI request.</p> <ul style="list-style-type: none"> The tester sends Print-URI requests with “<i>finishings</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code (if it supports the attribute) or to return it in the Unsupported Attributes group (if it doesn’t support it). The tester performs a Get-Printer-Attributes to find out the Printer object’s “<i>finishings-supported</i>” attribute values. If the Printer doesn’t support the attribute the result of the test is SKIPPED. Otherwise, for every <i>enum</i> value in the set specified by “<i>finishings-supported</i>” attribute value, the tester sends a Print-URI with “<i>finishings</i>” having that value. If the Printer supports “<i>finishings</i>”, it is expected to accept each request. Otherwise it should return the attribute in the Unsupported Attributes group and return ‘<i>successful-ok-ignored-or-substituted-attributes</i>’ / ‘<i>client-error-attributes-or-values-not-supported</i>’ status code depending on the value of “<i>ipp-attribute-fidelity</i>” operational attribute. The tester sends a Print-URI request with “<i>finishings</i>” having an unsupported value. The Printer is expected to return it in the Unsupported Attributes group with the ‘<i>unsupported</i>’ out-of-band value (if the Printer doesn’t support the attribute) or with the offending value (if the attribute is supported). 	O-4-1-2-R-01 O-4-1-2-R-02 O-4-1-2-R-03 O-4-1-2-R-04 O-4-1-2-R-05 O-4-1-2-R-06 O-4-1-2-R-07 O-4-1-2-R-08 O-4-1-2-R-09
S) page-ranges	<p>This Test Job tests if the Printer object validates the “<i>page-ranges</i>” OPTIONAL Job Template Attribute in a Print-URI request.</p> <ul style="list-style-type: none"> The tester sends Print-URI requests with “<i>page-ranges</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code (if it supports the attribute) or to return it in the Unsupported Attributes group (if it doesn’t support it). The tester performs a Get-Printer-Attributes to find out the Printer object’s “<i>page-ranges-supported</i>” attribute values. If the Printer doesn’t support the attribute the result of the test is SKIPPED. Otherwise, 	O-4-1-2-S-01 O-4-1-2-S-02 O-4-1-2-S-03 O-4-1-2-S-04 O-4-1-2-S-05 O-4-1-2-S-06 O-4-1-2-S-07 O-4-1-2-S-08 O-4-1-2-S-09

	<p><i>ranges</i>" having an invalid value (the first value is greater than the second value). The Printer is expected to return it in the Unsupported Attributes group with the '<i>unsupported</i>' out-of-band value (if the Printer doesn't support the attribute) or to reject the request and return '<i>client-error-bad-request</i>' status code (if the attribute is supported).</p>	
T) sides	<p>This Test Job tests if the Printer object validates the "<i>sides</i>" OPTIONAL Job Template Attribute in a Print-URI request.</p> <ul style="list-style-type: none"> The tester sends Print-URI requests with "<i>sides</i>" having a wrong syntax. The Printer is expected to reject the requests and return '<i>client-error-bad-request</i>' status-code (if it supports the attribute) or to return it in the Unsupported Attributes group (if it doesn't support it). The tester performs a Get-Printer-Attributes to find out the Printer object's "<i>sides-supported</i>" attribute values. If the Printer doesn't support the attribute the result of the test is SKIPPED. Otherwise, for every value in the set specified by "<i>sides-supported</i>" attribute value, the tester sends a Print-URI with "<i>sides</i>" having that value. If the Printer supports "<i>sides</i>", it is expected to accept each request. Otherwise it should return the attribute in the Unsupported Attributes group and return '<i>successful-ok-ignored-or-substituted-attributes</i>' / '<i>client-error-attributes-or-values-not-supported</i>' status code depending on the value of "<i>ipp-attribute-fidelity</i>" operational attribute. The tester sends a Print-URI request with "<i>sides</i>" having an unsupported value. The Printer is expected to return it in the Unsupported Attributes group with the '<i>unsupported</i>' out-of-band value (if the Printer doesn't support the attribute) or with the offending value (if the attribute is supported). 	<p>O-4-1-2-T-01 O-4-1-2-T-02 O-4-1-2-T-03 O-4-1-2-T-04 O-4-1-2-T-05 O-4-1-2-T-06 O-4-1-2-T-07 O-4-1-2-T-08 O-4-1-2-T-09</p>
U) number-up	<p>This Test Job tests if the Printer object validates the "<i>number-up</i>" OPTIONAL Job Template Attribute in a Print-URI request.</p> <ul style="list-style-type: none"> The tester sends Print-URI requests with "<i>number-up</i>" having a wrong syntax. The Printer is expected to reject the requests and return '<i>client-error-bad-request</i>' status-code (if it supports the 	<p>O-4-1-2-U-01 O-4-1-2-U-02 O-4-1-2-U-03 O-4-1-2-U-04 O-4-1-2-U-05 O-4-1-2-U-06 O-4-1-2-U-07</p>

	<p>Unsupported Attributes group and return <i>'successful-ok-ignored-or-substituted-attributes'</i> / <i>'client-error-attributes-or-values-not-supported'</i> status code depending on the value of <i>"ipp-attribute-fidelity"</i> operational attribute.</p> <ul style="list-style-type: none"> The tester sends a Print-URI request with <i>"number-up"</i> having an unsupported value. The Printer is expected to return it in the Unsupported Attributes group with the <i>'unsupported'</i> out-of-band value (if the Printer doesn't support the attribute) or with the offending value (if the attribute is supported). 	
V) orientation-requested	<p>This Test Job tests if the Printer object validates the <i>"orientation-requested"</i> OPTIONAL Job Template Attribute in a Print-URI request.</p> <ul style="list-style-type: none"> The tester sends Print-URI requests with <i>"orientation-requested"</i> having a wrong syntax. The Printer is expected to reject the requests and return <i>'client-error-bad-request'</i> status-code (if it supports the attribute) or to return it in the Unsupported Attributes group (if it doesn't support it). The tester performs a Get-Printer-Attributes to find out the Printer object's <i>"orientation-requested-supported"</i> attribute value. If the Printer doesn't support the attribute the result of the test is SKIPPED. Otherwise, for every value in the set specified by <i>"orientation-requested-supported"</i> attribute value, the tester sends a Print-URI with <i>"orientation-requested"</i> having that value. If the Printer supports <i>"orientation-requested"</i>, it is expected to accept each request. Otherwise it should return the attribute in the Unsupported Attributes group and return <i>'successful-ok-ignored-or-substituted-attributes'</i> / <i>'client-error-attributes-or-values-not-supported'</i> status code depending on the value of <i>"ipp-attribute-fidelity"</i> operational attribute. The tester sends a Print-URI request with <i>"orientation-requested"</i> having an unsupported value. The Printer is expected to return it in the Unsupported Attributes group with the <i>'unsupported'</i> out-of-band value (if the Printer doesn't support the attribute) or with the offending value (if the attribute is supported). 	<p>O-4-1-2-V-01 O-4-1-2-V-02 O-4-1-2-V-03 O-4-1-2-V-04 O-4-1-2-V-05 O-4-1-2-V-06 O-4-1-2-V-07 O-4-1-2-V-08 O-4-1-2-V-09</p>
W) media	<p>This Test Job tests if the Printer object validates the</p>	<p>O-4-1-2-W-01</p>

	<p>attribute the result of the test is SKIPPED. Otherwise, for every value in the set specified by “<i>media-supported</i>” attribute value, the tester sends a Print-URI with “<i>media</i>” having that value. If the Printer supports “<i>media</i>”, it is expected to accept each request. Otherwise it should return the attribute in the Unsupported Attributes group and return ‘<i>successful-ok-ignored-or-substituted-attributes</i>’ / ‘<i>client-error-attributes-or-values-not-supported</i>’ status code depending on the value of “<i>ipp-attribute-fidelity</i>” operational attribute.</p> <ul style="list-style-type: none"> • The tester sends a Print-URI request with “<i>media</i>” having an unsupported value. The Printer is expected to return it in the Unsupported Attributes group with the ‘<i>unsupported</i>’ out-of-band value (if the Printer doesn’t support the attribute) or with the offending value (if the attribute is supported). 	
<p>X) printer-resolution</p>	<p>This Test Job tests if the Printer object validates the “<i>printer-resolution</i>” OPTIONAL Job Template Attribute in a Print-URI request.</p> <ul style="list-style-type: none"> • The tester sends Print-URI requests with “<i>printer-resolution</i>” having a wrong syntax. The Printer is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code (if it supports the attribute) or to return it in the Unsupported Attributes group (if it doesn’t support it). • The tester performs a Get-Printer-Attributes to find out the Printer object’s “<i>printer-resolution-supported</i>” attribute value. If the Printer doesn’t support the attribute the result of the test is SKIPPED. Otherwise, for every value in the set specified by “<i>printer-resolution-supported</i>” attribute value, the tester sends a Print-URI with “<i>printer-resolution</i>” having that value. If the Printer supports “<i>printer-resolution</i>”, it is expected to accept each request. Otherwise it should return the attribute in the Unsupported Attributes group and return ‘<i>successful-ok-ignored-or-substituted-attributes</i>’ / ‘<i>client-error-attributes-or-values-not-supported</i>’ status code depending on the value of “<i>ipp-attribute-fidelity</i>” operational attribute. • The tester sends a Print-URI request with “<i>printer-resolution</i>” having an unsupported value. The Printer is expected to return it in the Unsupported 	<p>O-4-1-2-X-01 O-4-1-2-X-02 O-4-1-2-X-03 O-4-1-2-X-04 O-4-1-2-X-05 O-4-1-2-X-06 O-4-1-2-X-07 O-4-1-2-X-08 O-4-1-2-X-09</p>

	<p>attribute) or to return it in the Unsupported Attributes group (if it doesn't support it).</p> <ul style="list-style-type: none"> The tester performs a Get-Printer-Attributes to find out the Printer object's "<i>print-quality-supported</i>" attribute value. If the Printer doesn't support the attribute the result of the test is SKIPPED. Otherwise, for every value in the set specified by "<i>print-quality-supported</i>" attribute value, the tester sends a Print-URI with "<i>print-quality</i>" having that value. If the Printer supports "<i>print-quality</i>", it is expected to accept each request. Otherwise it should return the attribute in the Unsupported Attributes group and return '<i>successful-ok-ignored-or-substituted-attributes</i>' / '<i>client-error-attributes-or-values-not-supported</i>' status code depending on the value of "<i>ipp-attribute-fidelity</i>" operational attribute. The tester sends a Print-URI request with "<i>print-quality</i>" having an unsupported value. The Printer is expected to return it in the Unsupported Attributes group with the '<i>unsupported</i>' out-of-band value (if the Printer doesn't support the attribute) or with the offending value (if the attribute is supported). 	<p>O-4-1-2-Y-08 O-4-1-2-Y-09</p>
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4.1.3. Send-Document – Tests Description

Test Job Name	Test Job Description	Tests List
A) last-document	<p>This Test Job tests if the Job object validates the “<i>last-document</i>” REQUIRED Operation Attribute in a Send-Document request.</p> <ul style="list-style-type: none"> The tester sends Send-Document requests with the “<i>last-document</i>” not supplied or supplied with the ‘<i>false</i>’ / ‘<i>true</i>’ values. The Job object is expected to accept these requests. The tester sends Send-Document requests with “<i>last-document</i>” having a wrong syntax. The Job object is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. 	<p>O-4-1-3-A-01 O-4-1-3-A-02 O-4-1-3-A-03 O-4-1-3-A-04 O-4-1-3-A-05 O-4-1-3-A-06 O-4-1-3-A-07 O-4-1-3-A-08 O-4-1-3-A-09 O-4-1-3-A-10 O-4-1-3-A-11 O-4-1-3-A-12</p>
B) attributes-charset	<p>This Test Job tests if the Job object validates the “<i>attributes-charset</i>” REQUIRED Operation Attribute in a Send-Document request.</p> <ul style="list-style-type: none"> The tester sends Send-Document requests with the “<i>attributes-charset</i>” supplied with the REQUIRED value ‘<i>utf-8</i>’. The Job object is expected to accept these requests. The tester sends Send-Document requests with “<i>attributes-charset</i>” having an unsupported value. The Job object is expected to reject the requests and return ‘<i>client-error-charset-not-supported</i>’ status-code. The tester sends Send-Document requests with “<i>attributes-charset</i>” having a wrong syntax. The Job object is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. The tester sends Send-Document requests with “<i>attributes-charset</i>” having a wrong value length (> 63 octets). The Job object is expected to reject the requests and return ‘<i>client-error-request-value-too-long</i>’ status-code. The tester performs a Get-Printer-Attributes to find out the Printer’s “<i>charset-supported</i>” attribute values. The request is expected be successful. Then for each of these value sends a Send-Document with “<i>attributes-charset</i>” having that value. The Job object is expected to accept each request. 	<p>O-4-1-3-B-01 O-4-1-3-B-02 O-4-1-3-B-03 O-4-1-3-B-04 O-4-1-3-B-05 O-4-1-3-B-06 O-4-1-3-B-07 O-4-1-3-B-08 O-4-1-3-B-09 O-4-1-3-B-10</p>
C) attributes-	<p>This Test Job tests if the Job object validates the</p>	<p>O-4-1-3-C-01</p>

	<ul style="list-style-type: none"> • The tester sends Send-Document requests with “<i>attributes-natural-language</i>” having a wrong value length (> 63 octets). The Job object is expected to reject the requests and return ‘<i>client-error-request-value-too-long</i>’ status-code. • The tester performs a Get-Printer-Attributes to find out the Printer object’s “<i>generated-natural-language-supported</i>” attribute values. The request is expected to be successful. Then for each of these values sends a Send-Document with “<i>attributes-natural-language</i>” having that value. The Job object is expected to accept each request. 	
D) requesting-user-name	<p>This Test Job tests if the Job object validates the “<i>requesting-user-name</i>” REQUIRED Operation Attribute in a Send-Document request.</p> <ul style="list-style-type: none"> • The tester sends Send-Document requests with the “<i>requesting-user-name</i>” supplied with valid values (having either <i>nameWithLanguage</i> or <i>nameWithoutLanguage</i> syntax). The Job object is expected to accept these requests. • The tester sends Send-Document requests with “<i>requesting-user-name</i>” having a wrong syntax. The Job object is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. • The tester sends Send-Document requests with “<i>requesting-user-name</i>” having a wrong value length (> 255 octets). The Job object is expected to reject the requests and return ‘<i>client-error-request-value-too-long</i>’ status-code. 	O-4-1-3-D-01 O-4-1-3-D-02 O-4-1-3-D-03 O-4-1-3-D-04 O-4-1-3-D-05 O-4-1-3-D-06 O-4-1-3-D-07 O-4-1-3-D-08 O-4-1-3-D-09 O-4-1-3-D-10 O-4-1-3-D-11 O-4-1-3-D-12
E) document-name	<p>This Test Job tests if the Job object validates the “<i>document-name</i>” REQUIRED Operation Attribute in a Send-Document request.</p> <ul style="list-style-type: none"> • The tester sends Send-Document requests with the “<i>document-name</i>” supplied with valid values (having either <i>nameWithLanguage</i> or <i>nameWithoutLanguage</i> syntax). The Job object is expected to accept these requests. • The tester sends Send-Document requests with “<i>document-name</i>” having a wrong syntax. The Job object is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. • The tester sends Send-Document requests with “<i>document-name</i>” having a wrong value length. The 	O-4-1-3-E-01 O-4-1-3-E-02 O-4-1-3-E-03 O-4-1-3-E-04 O-4-1-3-E-05 O-4-1-3-E-06 O-4-1-3-E-07 O-4-1-3-E-08 O-4-1-3-E-09 O-4-1-3-E-10 O-4-1-3-E-11 O-4-1-3-E-12

	<p>status-code.</p> <ul style="list-style-type: none"> The tester sends Send-Document requests with “<i>document-format</i>” having a wrong syntax. The Job object is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. The tester sends Send-Document requests with “<i>document-format</i>” having a wrong value length (> 255 octets). The Job object is expected to reject the requests and return ‘<i>client-error-request-value-too-long</i>’ status-code. The tester performs a Get-Printer-Attributes to find out the Printer object’s “<i>document-format-supported</i>” attribute values. The request is expected to be successful. Then for each of these value sends a Send-Document with “<i>document-format</i>” having that value. The Job object is expected to accept each request. 	O-4-1-3-F-08
G) document-natural-language	<p>This Test Job tests if the Job object validates the “<i>document-natural-language</i>” OPTIONAL Operation Attribute in a Send-Document request.</p> <ul style="list-style-type: none"> The tester sends Send-Document requests with “<i>document-natural-language</i>” having a wrong syntax. The Job object is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. The tester sends Send-Document requests with “<i>document-natural-language</i>” having an unsupported value. The Job object is expected to reject the requests and return ‘<i>client-error-attributes-or-values-not-supported</i>’ status-code (if it supports the attribute) or accept the request and return the attribute in the Unsupported Attributes group (if it doesn’t support the attribute). The tester sends Send-Document requests with “<i>document-natural-language</i>” having a wrong value length (> 63 octets). The Job object is expected to reject the requests and return ‘<i>client-error-request-value-too-long</i>’ status-code. 	O-4-1-3-G-01 O-4-1-3-G-02 O-4-1-3-G-03 O-4-1-3-G-04 O-4-1-3-G-05 O-4-1-3-G-06 O-4-1-3-G-07 O-4-1-3-G-08
H) compression	<p>This Test Job tests if the Job object validates the “<i>compression</i>” OPTIONAL Operation Attribute in a Send-Document request.</p> <ul style="list-style-type: none"> The tester sends Send-Document requests with “<i>compression</i>” having a wrong syntax. The Job object is expected to reject the requests and return 	O-4-1-3-H-01 O-4-1-3-H-02 O-4-1-3-H-03 O-4-1-3-H-04 O-4-1-3-H-05 O-4-1-3-H-06

	<p><i>"compression-supported"</i> send a Send-Document with <i>"compression"</i> having that value. The Job object is expected to accept each request. If the Job object doesn't support <i>"compression"</i> it should return the attribute in the Unsupported Attributes group and return <i>'successful-ok-ignored-or-substituted-attributes'</i> status code.</p>	
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4.1.4. Send-URI – Tests Description

Test Job Name	Test Job Description	Tests List
A) last-document	<p>This Test Job tests if the Job object validates the “<i>last-document</i>” REQUIRED Operation Attribute in a Send-URI request.</p> <ul style="list-style-type: none"> The tester sends Send-URI requests with the “<i>last-document</i>” not supplied or supplied with the ‘<i>false</i>’ / ‘<i>true</i>’ values. The Job object is expected to accept these requests. The tester sends Send-URI requests with “<i>last-document</i>” having a wrong syntax. The Job object is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. 	<p>O-4-1-4-A-01 O-4-1-4-A-02 O-4-1-4-A-03 O-4-1-4-A-04 O-4-1-4-A-05 O-4-1-4-A-06 O-4-1-4-A-07 O-4-1-4-A-08 O-4-1-4-A-09 O-4-1-4-A-10 O-4-1-4-A-11 O-4-1-4-A-12</p>
B) attributes-charset	<p>This Test Job tests if the Job object validates the “<i>attributes-charset</i>” REQUIRED Operation Attribute in a Send-URI request.</p> <ul style="list-style-type: none"> The tester sends Send-URI requests with the “<i>attributes-charset</i>” supplied with the REQUIRED value ‘<i>utf-8</i>’. The Job object is expected to accept these requests. The tester sends Send-URI requests with “<i>attributes-charset</i>” having an unsupported value. The Job object is expected to reject the requests and return ‘<i>client-error-charset-not-supported</i>’ status-code. The tester sends Send-URI requests with “<i>attributes-charset</i>” having a wrong syntax. The Job object is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. The tester sends Send-URI requests with “<i>attributes-charset</i>” having a wrong value length (> 63 octets). The Job object is expected to reject the requests and return ‘<i>client-error-request-value-too-long</i>’ status-code. The tester performs a Get-Printer-Attributes to find out the Printer’s “<i>charset-supported</i>” attribute values. The request is expected be successful. Then for each of these value sends a Send-URI with “<i>attributes-charset</i>” having that value. The Job object is expected to accept each request. 	<p>O-4-1-4-B-01 O-4-1-4-B-02 O-4-1-4-B-03 O-4-1-4-B-04 O-4-1-4-B-05 O-4-1-4-B-06 O-4-1-4-B-07 O-4-1-4-B-08 O-4-1-4-B-09 O-4-1-4-B-10</p>
C) attributes-	<p>This Test Job tests if the Job object validates the</p>	<p>O-4-1-4-C-01</p>

	<ul style="list-style-type: none"> The tester sends Send-URI requests with “<i>attributes-natural-language</i>” having a wrong value length (> 63 octets). The Job object is expected to reject the requests and return ‘<i>client-error-request-value-too-long</i>’ status-code. The tester performs a Get-Printer-Attributes to find out the Printer object’s “<i>generated-natural-language-supported</i>” attribute values. The request is expected to be successful. Then for each of these values sends a Send-URI with “<i>attributes-natural-language</i>” having that value. The Job object is expected to accept each request. 	
D) requesting-user-name	<p>This Test Job tests if the Job object validates the “<i>requesting-user-name</i>” REQUIRED Operation Attribute in a Send-URI request.</p> <ul style="list-style-type: none"> The tester sends Send-URI requests with the “<i>requesting-user-name</i>” supplied with valid values (having either <i>nameWithLanguage</i> or <i>nameWithoutLanguage</i> syntax). The Job object is expected to accept these requests. The tester sends Send-URI requests with “<i>requesting-user-name</i>” having a wrong syntax. The Job object is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. The tester sends Send-URI requests with “<i>requesting-user-name</i>” having a wrong value length (> 255 octets). The Job object is expected to reject the requests and return ‘<i>client-error-request-value-too-long</i>’ status-code. 	O-4-1-4-D-01 O-4-1-4-D-02 O-4-1-4-D-03 O-4-1-4-D-04 O-4-1-4-D-05 O-4-1-4-D-06 O-4-1-4-D-07 O-4-1-4-D-08 O-4-1-4-D-09 O-4-1-4-D-10 O-4-1-4-D-11 O-4-1-4-D-12
E) document-name	<p>This Test Job tests if the Job object validates the “<i>document-name</i>” REQUIRED Operation Attribute in a Send-URI request.</p> <ul style="list-style-type: none"> The tester sends Send-URI requests with the “<i>document-name</i>” supplied with valid values (having either <i>nameWithLanguage</i> or <i>nameWithoutLanguage</i> syntax). The Job object is expected to accept these requests. The tester sends Send-URI requests with “<i>document-name</i>” having a wrong syntax. The Job object is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. The tester sends Send-URI requests with “<i>document-name</i>” having a wrong value length. The 	O-4-1-4-E-01 O-4-1-4-E-02 O-4-1-4-E-03 O-4-1-4-E-04 O-4-1-4-E-05 O-4-1-4-E-06 O-4-1-4-E-07 O-4-1-4-E-08 O-4-1-4-E-09 O-4-1-4-E-10 O-4-1-4-E-11 O-4-1-4-E-12

	<p>status-code.</p> <ul style="list-style-type: none"> The tester sends Send-URI requests with “<i>document-format</i>” having a wrong syntax. The Job object is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. The tester sends Send-URI requests with “<i>document-format</i>” having a wrong value length (> 255 octets). The Job object is expected to reject the requests and return ‘<i>client-error-request-value-too-long</i>’ status-code. The tester performs a Get-Printer-Attributes to find out the Printer object’s “<i>document-format-supported</i>” attribute values. The request is expected to be successful. Then for each of these value sends a Send-URI with “<i>document-format</i>” having that value. The Job object is expected to accept each request. 	O-4-1-4-F-08
G) document-natural-language	<p>This Test Job tests if the Job object validates the “<i>document-natural-language</i>” OPTIONAL Operation Attribute in a Send-URI request.</p> <ul style="list-style-type: none"> The tester sends Send-URI requests with “<i>document-natural-language</i>” having a wrong syntax. The Job object is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. The tester sends Send-URI requests with “<i>document-natural-language</i>” having an unsupported value. The Job object is expected to reject the requests and return ‘<i>client-error-attributes-or-values-not-supported</i>’ status-code (if it supports the attribute) or accept the request and return the attribute in the Unsupported Attributes group (if it doesn’t support the attribute). The tester sends Send-URI requests with “<i>document-natural-language</i>” having a wrong value length (> 63 octets). The Job object is expected to reject the requests and return ‘<i>client-error-request-value-too-long</i>’ status-code. 	O-4-1-4-G-01 O-4-1-4-G-02 O-4-1-4-G-03 O-4-1-4-G-04 O-4-1-4-G-05 O-4-1-4-G-06 O-4-1-4-G-07 O-4-1-4-G-08
H) compression	<p>This Test Job tests if the Job object validates the “<i>compression</i>” OPTIONAL Operation Attribute in a Send-URI request.</p> <ul style="list-style-type: none"> The tester sends Send-URI requests with “<i>compression</i>” having a wrong syntax. The Job object is expected to reject the requests and return ‘<i>client-error-bad-request</i>’ status-code. 	O-4-1-4-H-01 O-4-1-4-H-02 O-4-1-4-H-03 O-4-1-4-H-04 O-4-1-4-H-05 O-4-1-4-H-06 O-4-1-4-H-07

	<p><i>“compression”</i> having that value. The Job object is expected to accept each request. If the Job object doesn't support <i>“compression”</i> it should return the attribute in the Unsupported Attributes group and return <i>'successful-ok-ignored-or-substituted-attributes'</i> status code.</p>	
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