

## Annex A. IPIG Profile Conformance Statement Requirements List

(Normative)

This Annex forms an integral part of the *IPIG Profile for the ISO Protocol*. It provides a series of tables indicating the requirements, parameter by parameter, for compliance with the IPIG Profile for the ISO ILL Protocol. Implementors wishing to assert conformance to this Profile **SHALL**:

- Complete a copy of this Annex, the IPIG Profile Conformance Statement Requirements List, indicating the capabilities supported by their implementations, as a statement of static conformance to this Profile;
- Make a completed Requirements List network-accessible via a URL;
- Inform the ILL ASMA of the URL for listing in the central registry of completed Conformance Statement Requirements Lists.

The ILL ASMA maintains a central registry of completed Conformance Statement Requirements Lists.

### A.1. Notations Used in the IPIG Profile Conformance Statement Requirements List

#### A.1.1. Notation for Column Headings

**IPIG** Defined in the IPIG Profile. This column indicates the level of support required for conformance to this Profile.

**Impl** Implementation Indicator. This column is to be completed by the implementor to indicate the level at which the implementation supports each service or parameter.

#### A.1.2. Notation used in the IPIG Column

**M** Mandatory: Mandatory support of an ILL service implies that the implementation **SHALL** be capable of invoking the specified service, including the initiation and receipt of the APDU(s) associated with the service, as appropriate to the user role (Requester, Responder, or Intermediary).

Mandatory support of a parameter implies that an implementation **SHALL** be capable of transmitting data values for that parameter in APDUs according to the protocol specifications in ISO 10161-1:1997. If data are available, having been explicitly supplied or able to be generated by a user application, that data **SHALL** be carried in the APDU.

Mandatory support of a data type within a parameter implies that an implementation **SHALL** be capable of transmitting values for that specific data type if the parent parameter is transmitted. For example, if the optional **maximum-cost** parameter is supported, it is mandatory that values for **currency-code** and **monetary-value** data types are included.

**O** Optional: Optional support of an ILL service or parameter implies that it is permitted but not mandatory for the IPIG Profile. However, if this feature is implemented, it **SHALL** conform to the specifications and restrictions contained in the IPIG Profile.

- C** Conditional: Support of this ILL service or parameter depends on certain conditions identified for the feature in the **Reference, Usage or Range of Values** column, or elsewhere in this IPIG Profile.
- X** Out-of-scope: Support of this ILL service or parameter is not addressed in the IPIG Profile.
- Not applicable.

### A.1.3. Notation used in the Impl Column

This notation is to be supplied by the implementor when stating the conformance of an ILL implementation to the IPIG Profile.

- Y** Yes, this ILL service or parameter has been implemented.
- N** No, this ILL service or parameter has not been implemented.

Non-support of a service implies that an implementation does not have the capability to transmit the APDUs associated with the service, and has no support for the service beyond the capability to receive the associated APDUs without failure.

### A.1.4. Numbering

In the tables of Annex A, each row that requires implementation details to be supplied is numbered at the left-hand edge of the row. This numbering is included as a means of uniquely identifying all possible implementation details within the Requirements List.

### A.1.5. Completion by the Implementor

The implementor, when stating conformance with the IPIG Profile for the ISO ILL Protocol, **SHALL** complete all "[ ]"marked entries in the **Impl** column of the IPIG Profile Conformance Statement Requirements List and all other appropriate sections in the IPIG Profile. Implementors may remove the contents of the "References, Usage or Range of Values" column and add details specific to their implementation. However, they should not make any other changes to this established proforma when preparing a Conformance Statement. Where the response exceeds the space available, references may be made to additional annexes where complete descriptions are provided.

## A.2. Implementation Details

### A.2.1. Date of Statement

Date of Statement (YYYY-MM-DD)	2003-04-15; revised 2003-12-16
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### A.2.2. Identification of the Implementation

1	Implementation Supplier (i.e., Company name)	Auto-Graphics Inc. (www.auto-graphics.com)
2	Implementation Name	AGent Advanced “Open System” ISO ILL
3	Implementation Version Number	2.0
4	Implementation Contact Information	Ruth Castillo, Product Manager rmc@auto-graphics.com

### A.2.3. Statement of Conformance

Ref.		Impl	Comments
1	All mandatory features of version 1.0 of the <i>IPIG Profile for the ISO ILL Protocol</i> have been implemented.	[Y]	Exceptions noted within document
1.1	All static constraints identified in Clause 6 of version 1.0 of the <i>IPIG Profile for the ISO ILL Protocol</i> have been implemented.	[Y]	Forthcoming: 6.10.2 (SMTP/MIME)  Exceptions: 6.9.4 (IPIG-Additional-User-Error-Information), 6.11 (recognition of escape sequences)
1.2	The implementation exhibits behaviour consistent with dynamic constraints as specified in Clause 7 of version 1.0 of the <i>IPIG Profile for the ISO ILL Protocol</i> .	[Y]	With the exception of: 7.9.1 (truncation notification)

## A.3. General Details

### A.3.1. ISO 10161 Details

1	Protocol Version Number	2
2	Other Version Number(s) supported	
3	Defect Report Number(s) implemented	
4	Amendment(s) implemented	1

### A.3.2. Roles Supported

See Clause 6.1 for details on the dynamic constraints imposed by the IPIG Profile concerning support of the ILL-Service-User roles.

Ref.		IPIG	Impl
1	Requester	O	[Y]
2	Responder	O	[Y]
3	Intermediary	O	[N]

### A.3.3. Transaction Types Supported

See Clause 6.2 for details on the static constraints imposed by the IPIG Profile concerning support of Transaction Types.

Ref.	Transaction Type	Requester		Responder		Intermediary	
		IPIG	Impl	IPIG	Impl	IPIG	Impl
1	Simple	M	[Y]	M	[Y]	--	[ ]
2	Chained	O	[N]	O	[N]	C	[N]
3	Partitioned	O	[N]	O	[N]	C	[N]

### A.3.4. ILL Service Types Supported

See 7.4 for details on the dynamic constraints imposed by the IPIG Profile concerning support for ILL-REQUEST.iLL-service-type.

Ref.	Service Type	Requester		Responder		Intermediary	
		IPIG	Impl	IPIG	Impl	IPIG	Impl
1	Loan	○	[Y]	○	[Y]	○	[N]
2	Copy/Non-returnable	○	[Y]	○	[Y]	○	[N]
3	Locations	○	[Y]	○	[N]	○	[N]
4	Estimate	○	[Y]	○	[N]	○	[N]
5	Responder-specific	○	[N]	○	[N]	○	[N]

### A.3.5. Maximum Field Lengths: System-Id and Transaction-Id

See 6.5 for details on the static constraints imposed by the IPIG Profile on the maximum lengths of specific data parameters.

Ref No.	Parameter	IPIG	Impl
1	System-Id	Total of 175 characters	175
1.2	- person-or-institution-symbol	25 characters	25
1.3	- name-of-person-or-institution	150 characters	150
2	Transaction-Id	Total of 250 characters	250
2.1	- initial-requester-id	175 characters	175
2.1.1	-- person-or-institution-symbol	25 characters	25
2.1.2	-- name-of-person-or-institution	150 characters	150
2.2	- transaction-group-qualifier	25 characters	25
2.3	- transaction-qualifier	25 characters	25
2.4	- sub-transaction-qualifier	25 characters	25

### A.3.6. Transfer Syntax

See 6.10.1 *Transfer Syntax* for a more detailed discussion of the Transfer Syntax requirements for implementations conforming to the IPIG Profile.

Ref.		IPIG	Impl
1	ASN.1BER	M	[Y]
2	EDIFACT	X	--

### A.3.7. Transport Services

See 6.10.2 *Communication Services*, 6.10.3 *Using Internet Mail*, and 6.10.4 *Using Direct Transfer over TCP* for more detailed discussions of the Transport Services requirements for implementations conforming to the IPIG Profile.

Ref.		IPIG	Impl
1	Internet mail	M	[N]
1.1	- MIME encoding	M	[Y]
2	Direct Transfer over TCP	○	[Y]
2.1	- Listen on port 1611	M	[Y]
2.2	- Connect to port 1611	M	[Y]

2.3	- Listen on port 499	○	[N]
2.4	- Connect to port 499	○	[N]

### A.3.8. Character Sets Support

See 6.11 *Character Sets* for a more detailed discussion of the requirements for the handling of character sets by implementations conforming to the IPIG Profile.

Ref.		IPIG	Impl
1	Supports ISO Latin-1 (ISO 8859-1)	M	[Y]
2	Recognizes escape sequences for other sets	M	[N]
3	Supports Unicode UTF-8	○	[N]
4	Supports additional character sets, as specified	○	[N]
4.1	- character set 1	○	[ ]
4.2	- character set 2	○	[ ]
4.3	- etc.	○	[ ]

Note to implementors: Add additional rows in the A.4 table, e.g., 4.3, 4.4, etc., as required to specify the character set escape sequences supported.

## A.4. Syntaxes

This section identifies requirements for support of the various possible syntaxes associated with the ILL Protocol. Support of a particular syntax implies that an implementation can generate and receive information defined by that syntax.

Indicate in the table below the implementation's degree of support for each abstract syntax listed.

The tables of A.7 indicate the degree of support of specific data parameters defined for use in the external objects associated with each abstract syntax listed below.

The tables of A.6 specify which external objects are defined for use in specific parameters within each APDU.

Ref.	Object Class	Abstract Syntax Name	OID	IPI G	Impl
1	system-no (6)	IPIG-System-Number	1 0 10161 6 1	○	[N]
2	supplemental-item-description (7)	SICI	1 0 10161 7 1	○	[N]
3	supplemental-item-description (7)	[all MARC record syntaxes registered by Z39.50 MA]	1 2 840 10003 5 +	○	[N]
4	e-delivery-mode (9)	Internet Delivery Service	1 0 10161 9 1	○	[N]
4.1	e-delivery-mode (9)	- SMTP	1 0 10161 9 1 1	○	[N]
4.2	e-delivery-mode (9)	- FTP	1 0 10161 9 1 2	○	[N]
5	e-delivery-mode (9)	Fax Delivery Service	1 0 10161 9 2	○	[N]
6	e-delivery-parameters	JEDDS ILL Electronic Delivery Parameters	1 0 10161 10 1000 7 1	○	[N]
7	extension (13)	APDU-Delivery-Info	1 0 10161 13 3	M	[Y]

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8	extension (13)	ILL-Supplemental-Client-Info	1 0 10161 13 4	O	[N]
9	extension (13)	IPIG-Additional-User-Error-Information	1 0 10161 13 6	M	[Y] AGent ISO ILL can receive but not send
10	extension (13)	Internal-Reference-Number	1 0 10161 13 8	O	[N]
11	extension (13)	IPIG-ILL-Request-Extension	1 0 10161 13 9	O	[N]
12	Access Control Format (Z39.50)	Prompt-1	1 2 840 10003 8 1	M	[Y]

**Note to implementors:** The abstract syntax specification (ASN.1) for each external object listed in the above table is available in the online Register of the Maintenance Agency responsible for it.

OIDs beginning with the number sequence "1 0 10161" describe objects registered by the Interlibrary Loan Application Standards Maintenance Agency. Copies of the specifications are accessible through the *Register for the ILL Application Standards (ISO 10160 and ISO 10161-1)*.

If an OID contains "1000" within the number sequence (such as {1 0 10161 10 1000 7 1} **JEDDS ILL Electronic Delivery Parameters**), it is a "local" object, listed in the *Register of Local Object Identifiers* <URL: <http://www.nlc-bnc.ca/iso/ill/regiloid.htm> >.

All other OID beginning with "1 0 10161" represent "public" objects, listed in the *Register of Public Object Identifiers* <URL: <http://www.nlc-bnc.ca/iso/ill/regipoid.htm> >.

OIDs beginning with the number sequence "1 2 840" describe objects registered by the Z39.50 Maintenance Agency. Copies of the specifications are accessible through the *Registry of Z39.50 Object Identifiers* <URL: <http://lcweb.loc.gov/z3950/agency/defns/oids.html> >.

## A.5. Interlibrary Loan Application Services

This section describes ILL services rather than APDUs. Invocation of an ILL application service requires the transmission of the APDUs associated with the service.

Indicate in the table below the implementation's degree of support for each ILL Service listed.

Use the tables of A.6 to indicate the degree of support of specific data parameters defined for use in the APDUs associated with each service.

### A.5.1. Support of Services

Ref.		Requester		Responder		Intermediary		References, Usage or Range of Values
		IPIG	Impl	IPIG	Impl	IPIG	Impl	
1	ILL-REQUEST	M	[Y]	M	[Y]	M	[N]	
2	FORWARD	--	--	X	[N]	X	[N]	Service out-of-scope for the IPIG Profile.
3	FORWARD-NOTIFICATION	X	[N]	X	[N]	X	[N]	Service out-of-scope for the IPIG Profile.
4	SHIPPED	M	[Y]	M	[Y]	M	[N]	
5	ILL-ANSWER	M	[Y]	M	[Y]	M	[N]	
6	CONDITIONAL-	M	[Y]	C	[Y]	M	[N]	Responder implementations

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Ref.		Requester		Responder		Intermediary		References, Usage or Range of Values
		IPIG	Impl	IPIG	Impl	IPIG	Impl	
	REPLY							supporting <b>transaction-results</b> with the value “conditional” <b>SHALL</b> also support the CONDITIONAL-REPLY service; otherwise it is not applicable.
7	CANCEL	O	[Y]	M	[Y]	M	[N]	
8	CANCEL-REPLY	C	[Y]	M	[Y]	M	[N]	Requester implementations supporting the <b>CANCEL</b> service <b>SHALL</b> also support the <b>CANCEL-REPLY</b> service; otherwise it is not applicable.
9	RECEIVED	M	[Y]	M	[Y]	M	[N]	
10	RECALL	C	[Y]	C	[Y]	C	[N]	Implementations supporting the “loan” service type <b>SHALL</b> also support the <b>RECALL</b> service; otherwise it is not applicable.
11	RETURNED	C	[Y]	C	[Y]	C	[N]	Implementations supporting the “loan” service type <b>SHALL</b> also support the <b>RETURNED</b> service; otherwise it is not applicable.
12	CHECKED-IN	C	[Y]	C	[Y]	C	[N]	Implementations supporting the “loan” service type <b>SHALL</b> also support the <b>CHECKED-IN</b> service; otherwise it is not applicable.
13	OVERDUE	C	[Y]	C	[Y]	C	[N]	Implementations supporting the “loan” service type <b>SHALL</b> also support the <b>OVERDUE</b> service; otherwise it is not applicable.
14	RENEW	O	[Y]	C	[Y]	C	[N]	This service is applicable only for implementations that also support the “loan” service type.  Implementations functioning as Responder or Intermediary <b>SHALL</b> support the <b>RENEW</b> service.  However, if functioning only as a Requester, it is optional to support the <b>RENEW</b> service.
15	RENEW-ANSWER	C	[Y]	C	[Y]	C	[N]	This service is applicable only for implementations that support the “loan” service type.  Implementations, functioning as Responder and Intermediary, <b>SHALL</b> support the <b>RENEW-ANSWER</b> service.  Requester implementations that support the <b>RENEW</b> service <b>SHALL</b> also support the <b>RENEW-ANSWER</b> service.
16	LOST	M	[Y]	M	[Y]	M	[N]	
17	DAMAGED	O	[N]	O	[N]	M	[N]	
18	MESSAGE	O	[Y]	O	[Y]	M	[N]	Agent ISO ILL will process an incoming MESSAGE, outgoing

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Ref.		Requester		Responder		Intermediary		References, Usage or Range of Values
		IPIG	Impl	IPIG	Impl	IPIG	Impl	
								message sent only in the case where an item is expected but not yet received.
19	STATUS-QUERY	O	[N]	O	[N]	M	[N]	Agent ISO ILL will respond to a status query with an SOER
20	STATUS-OR-ERROR-REPORT	M	[Y]	M	[Y]	M	[N]	
21	EXPIRY	M	[Y]	M	[Y]	M	[N]	Requester and Intermediary implementations <b>SHALL</b> have the capability to accept an <b>EXPIRY</b> APDU.  Responder and Intermediary implementations <b>SHALL</b> maintain an expiry-timer.

## A.6. Support of APDU Parameters

In ISO 10161-1:1997, an implementation capable of receiving an APDU **SHALL** be capable of accepting data for all parameters defined for the APDU. This section is used to identify the capability of an IPIG implementation conforming to the IPIG Profile to transmit specific data parameters within each APDU.

Indicate in the tables below the degree of support of the data parameters defined in clause 9 of ISO 10161-1:1997. If the implementation supports different values (or has different constraints) for different roles, this **SHALL** be indicated.

Use the table in A.5 to indicate the degree of support for associated ILL Services.

**NOTE:** In the tables following in A.6, the first occurrence of a data parameter is expanded to include its component data types. In all subsequent instances where identical expansions of data types occur, table and row number references point back to these expansions.

### A.6.1. ILL-Request APDU

Ref. no.	Parameter	IPIG	Impl	References, Usage or Range of Values
1	protocol-version-num	M	[Y]	Implementations conforming to IPIG Profile <b>SHALL</b> support the value "2".  See 6.6 for a discussion of the requirements for this data parameter.
2	transaction-id	M	[Y]	See <i>IPIG Guidelines</i> 6.1.3 for a discussion of the use of the <b>transaction-id</b> parameter.
2.1	- initial-requester-id	M	[Y]	See 6.4.2 for a discussion on the maximum length set for this data parameter.
2.1.1	-- person-or-institution-symbol	O	[Y]	Maximum length: 25 characters.  See 6.5.2 and 6.5.3 for a discussion on the maximum length set for this data parameter.  <i>Format:</i> <identifier of name authority>:<symbol>  <i>Examples:</i> NLC-BNC:UK0013 OCLC:BRI

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Ref. no.	Parameter	IPIG	Impl	References, Usage or Range of Values
				RLG:UKBW For details on formatting this parameter, see 7.1.
2.1.1.1	--- person-symbol	O	[Y]	
2.1.1.2	--- institution-symbol	O	[Y]	
2.1.2	-- name-of-person-or-institution	O	[N]	Maximum length: 150 characters. See 6.5.2 and 6.5.3 for a discussion on the maximum length set for this data parameter. See <i>IPIG Guidelines 6.1.1</i> for a discussion of the use of the <b>name-of-person-or-institution</b> parameter.
2.1.2.1	--- name-of-person	O	[N]	
2.1.2.2	--- name-of-institution	O	[N]	
2.2	- transaction-group-qualifier	M	[Y]	Maximum length: 25 characters. See 6.5.3 for a discussion on the maximum length set for this data parameter.
2.3	- transaction-qualifier	M	[Y]	Maximum length: 25 characters. See 6.5.3 for a discussion on the maximum length set for this data parameter. See <i>IPIG Guidelines 6.1.4</i> for a discussion of the use of the <b>transaction-qualifier</b> parameter.
2.4	- sub-transaction-qualifier	C	[N]	Maximum length: 25 characters. See 6.5.3 for a discussion on the maximum length set for this data parameter. Intermediaries <b>SHALL</b> have the ability to provide values for the <b>sub-transaction-qualifier</b> .
3	service-date-time	M	[Y]	
3.1	- date-time-of-this-service	M	[Y]	
3.1.1	-- date	M	[Y]	
3.1.2	-- time	M	[Y]	Implementations conforming to the IPIG Profile <b>SHALL</b> express time values as UTC, rather than as local time. For details on formatting this parameter, see 6.7.1.
3.2	- date-time-of original-service	O	[N]	
3.2.1	-- date	M	[N]	
3.2.2	-- time	M	[N]	See A.6.1, Ref. 3.1.2.
4	requester-id	M	[Y]	See 6.4.1 for a discussion of the requirements for <b>requester-id</b> and <b>responder-id</b> . At least one element <b>SHALL</b> be present.
4.1	- person-or-institution-symbol	O	[Y]	See A.6.1, Ref. 2.1.1. For details on formatting this parameter, see 7.1.
4.2	- name-of-person-or-institution	O	[Y]	See A.6.1, Ref. 2.1.2.
5	responder-id	M	[Y]	See 6.4.1 for a discussion of the requirements for <b>requester-id</b> and <b>responder-id</b> . At least one element <b>SHALL</b> be present.
5.1	- person-or-institution-symbol	O	[Y]	See A.6.1, Ref. 2.1.1.

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Ref. no.	Parameter	IPIG	Impl	References, Usage or Range of Values
				For details on formatting this parameter, see 7.1.
5.2	- name-of-person-or-institution	O	[Y]	See A.6.1, Ref. 2.1.2.
6	transaction-type	C	[Y]	ISO 10161-1:1997 specifies the default value for the <b>transaction-type</b> parameter as (1) "simple". Implementations that support chaining or partitioning <b>SHALL</b> support values (2) "chained" and (3) "partitioned" for this parameter. DEFAULT: <i>simple</i> (1)
7	delivery-address	O	[Y]	
7.1	- postal-address	O	[Y]	
7.1.1	-- name-of-person-or-institution	O	[Y]	
7.1.1.1	--- name-of-person	O	[N]	
7.1.1.2	--- name-of-institution	O	[Y]	
7.1.2	-- extended-postal-delivery-address	O	[Y]	
7.1.3	-- street-and-number	O	[N]	
7.1.4	-- post-office-box	O	[N]	
7.1.5	-- city	O	[N]	
7.1.6	-- region	O	[N]	
7.1.7	-- country	O	[N]	
7.1.8	-- postal-code	O	[N]	
7.2	- electronic-address	O	[N]	To specify a <b>System-Address</b> for electronic delivery, use of <b>Delivery-Service.e-delivery-address electronic-delivery.e-delivery-details</b> is required. If <b>ILL-Request.delivery-address.electronic-address</b> is also present in an APDU, it <b>SHALL</b> be ignored. See also A.6.1, Ref. 8.2.4.1. For details on formatting this parameter, see 7.2. See also 7.3 for a discussion of the data parameters to be used for electronic delivery addresses.
7.2.1	-- telecom-service-identifier	O	[N]	For details on formatting this parameter, see 7.2.1.
7.2.2	-- telecom-service-address	O	[N]	For details on formatting this parameter, see 7.2.2.
8	delivery-service	O	[N]	See 7.3 for a discussion of the data parameters to be used for electronic delivery addresses.
8.1	- physical-delivery	O	[N]	
8.2	- electronic-delivery	O	[N]	
8.2.1	-- e-delivery-service	O	[N]	
8.2.1.1	--- e-delivery-mode	O O	[N] [N]	For details on the use of this parameter, see 6.9.3. The following external objects have been defined for use in this parameter: {1 0 10161 9 1} <b>Internet Delivery Service</b> {1 0 10161 9 2} <b>Fax Delivery Service</b>
8.2.1.2	--- e-delivery-parameters			For details on the use of this parameter, see 6.9.3. The following external object has been defined for use in this parameter:

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Ref. no.	Parameter	IPIG	Impl	References, Usage or Range of Values
		O	[N]	{1 0 10161 10 1000 7 1} <b>JEDDS ILL Electronic Delivery Parameters</b>
8.2.2	-- document-type	O	[N]	
8.2.2.1	--- document-type-id	O	[N]	The following external object has been defined for use in this parameter: {1 0 10161 11 1} <b>IANA Media Type</b> See 2.2.2.4 for URL for IANA's directory of Media Types assignments.
8.2.2.2	--- document-type-parameters			If the object identifier of <b>document-type-id</b> is {1 0 10161 11 1} <b>IANA Media Type</b> , the content of this parameter is a SEQUENCE OF Visible-String.
8.2.3	-- e-delivery-description	O	[N]	
8.2.4	-- e-delivery-details	O	[N]	
8.2.4.1	--- e-delivery-address	O	[N]	Use this parameter to provide a <b>System-Address</b> for electronic delivery, If this parameter is present in an <b>ILL-REQUEST</b> , then Implementations <b>SHALL</b> ignore the presence of <b>delivery-address.electronic-address</b> (See A.6.1, Ref. 7.2) in the same transaction. For details on formatting this parameter, see 7.2. See also 7.3 for a more detailed discussion of the data parameters to be used for electronic delivery addresses.
8.2.4.2	--- e-delivery-id	O	[N]	See A.6.1, Ref. 2.1.1 and 2.1.2 for the expansion of component data types for <b>System-Id</b> and details on its use. See A.6.1, Ref. 7.2.
8.2.5	-- name-or-code	O	[N]	
8.2.6	-- delivery-time	O	[N]	See A.6.1, Ref. 3.1.2.
9	billing-address	O	[Y]	
9.1	- postal-address	O	[Y]	See <i>IPIG Guidelines 6.2.6</i> for a discussion of the use of the <b>postal-address</b> parameter.
9.1.1	-- name-of-person-or-institution	O	[Y]	See A.6.1, Ref. 7.1.1.
9.1.2	-- extended-postal-delivery-address	O	[Y]	
9.1.3	-- street-and-number	O	[N]	
9.1.4	-- post-office-box	O	[N]	
9.1.5	-- city	O	[N]	
9.1.6	-- region	O	[N]	
9.1.7	-- country	O	[N]	
9.1.8	-- postal-code	O	[N]	
9.2	- electronic-address	O	[N]	See A.6.1, Ref. 7.2.
9.2.1	-- telecom-service-identifier	O	[N]	For details on formatting this parameter, see 7.2.1.
9.2.2	-- telecom-service-address	O	[N]	For details on formatting this parameter, see 7.2.2.
10	iLL-service-type	M	[Y]	See 7.4 for details on the use of this data parameter. Use the table at A.3.4 to specify the use of <b>iLL-</b>

IPIG Profile Conformance Statement Requirements List for AGen Advanced "Open System" ISO ILL (Auto-Graphics, Inc.)

Ref. no.	Parameter	IPIG	Impl	References, Usage or Range of Values
				<b>service-type</b> parameter in more detail. See <i>IPIG Guidelines 6.2.7</i> for a discussion of the use of the <b>ILL-service-type</b> parameter.
11	responder-specific-service	O	[N]	No OIDs are registered for this external object.
12	requester-optional-messages	M	[Y]	See 7.5 and <i>IPIG Guidelines 5.3</i> for discussion of treatment of optional APDUs.
12.1	- can-send-RECEIVED	M	[Y]	
12.2	- can-send-RETURNED	M	[Y]	
12.3	- requester-SHIPPED	M	[Y]	
12.4	- requester-CHECKED-IN	M	[Y]	
13	search-type	O	[Y]	
13.1	- level-of-service	O	[N]	See 7.6 for a discussion of abstract levels of service defined for use by IPIG implementors. See <i>IPIG Guidelines 6.2.12</i> for a discussion of the use of the <b>level-of-service</b> parameter.
13.2	- need-before-date	O	[Y]	
13.3	- expiry-flag	O	[Y]	DEFAULT: "no-expiry" (3)
13.4	- expiry-date	O	[Y]	
14	supply-medium-info-type	O	[N]	
14.1	- supply-medium-type	M	[N]	Agent ISO ILL requests any type
14.2	- medium-characteristics	O	[N]	
15	place-on-hold	O	[N]	DEFAULT: "according-to-responder-policy" (3)
16	client-id	O	[Y]	See <i>IPIG Guidelines 6.2.1</i> for a discussion of the use of the <b>client-id</b> parameter.
16.1	- client-name	O	[Y]	
16.2	- client-status	O	[N]	
16.3	- client-identifier	O	[Y]	
17	item-id	M	[Y]	Although all parameters within the item-id are optional, the <b>item-id SHALL</b> contain sufficient information to identify the requested item. This need be no more than a system number that the responder application can use to identify the item in its database. The <b>ILL-REQUEST</b> may also carry a <b>Supplemental-Item-Description</b> that might contain additional information, e.g., a bibliographic record.
17.1	- item-type	O	[N]	
17.2	- held-medium-type	O	[N]	
17.3	- call number	O	[Y]	
17.4	- author	O	[Y]	
17.5	- title	O	[Y]	
17.6	- sub-title	O	[N]	
17.7	- sponsoring-body	O	[N]	
17.8	- place-of-publication	O	[N]	

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Ref. no.	Parameter	IPIG	Impl	References, Usage or Range of Values
17.9	- publisher	O	[Y]	
17.10	- series-title-number	O	[N]	
17.11	- volume-issue	O	[Y]	
17.12	- edition	O	[N]	
17.13	- publication-date	O	[Y]	
17.14	- publication-date-of-component	O	[Y]	
17.15	- author-of-article	O	[N]	
17.16	- title-of-article	O	[Y]	Includes article author
17.17	- pagination	O	[Y]	
17.18	- national-bibliography-no	O	[N]	Use <b>IPIG-System-Number</b> {1 0 10161 6 1}.  Several commonly used system numbers are defined within the data structure of the external object, <b>IPIG-System-Number</b> {1 0 10161 6 1}. If a national bibliography number is not enumerated in this object, use the “other” data type and enter the database identification <b>database-ID</b> and <b>number</b> as ILL-Strings.  See <i>IPIG Guidelines 6.2.8</i> for a discussion of the use of the <b>national-bibliography-no</b> parameter.
17.19	- ISBN	O	[Y]	
17.20	- ISSN	O	[Y]	
17.21	- system-no	O	[N]	Use <b>IPIG-System-Number</b> {1 0 10161 6 1}.  Several commonly used system numbers are defined within the data structure of the external object, <b>IPIG-System-Number</b> {1 0 10161 6 1}. If a system number is not enumerated in this object, use the “other” data type and enter the database identification <b>database-ID</b> and <b>number</b> as ILL-Strings.
17.22	- additional-no-letters	O	[N]	
17.23	- verification-reference-source	O	[Y]	
18	supplemental-item-description	O	[N]	The following external objects have been defined for use in this parameter: <b>{1 0 10161 7 1} SICI</b>  In addition, the Record Syntax for MARC record formats as registered with Z39.50 Maintenance Agency (values 1-99) may be used in this parameter. For example: <b>{1 2 840 10003 5 10} USMARC</b> <b>{1 2 840 10003 5 11} UK MARC</b> <b>{1 2 840 10003 5 10} CANMARC</b> <b>{1 2 840 10003 5 20} AUSMARC</b> See 2.2.2 for URL of <i>Registry of Z39.50 Object Identifiers</i> .
19	cost-info-type	O	[Y]	See <i>IPIG Guidelines 6.2.3</i> for scenarios on interaction of various data elements in the <b>cost-info-type</b> parameter.
19.1	- account-number	O	[N]	

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Ref. no.	Parameter	IPIG	Impl	References, Usage or Range of Values
19.2	- maximum-cost	O	[Y]	
19.2.1	-- currency-code	M	[Y]	See 6.4.3 for a discussion of the requirements for this data parameter.
19.2.2	-- monetary-value	M	[Y]	
19.3	- reciprocal-agreement	O	[N]	DEFAULT: "false" See <i>IPIG Guidelines 6.2.4</i> for a discussion of the use of the <b>reciprocal-agreement</b> parameter.
19.4	- will-pay-fee	O	[N]	DEFAULT: "false"
19.5	- payment-provided	O	[N]	DEFAULT: "false"
20	copyright-compliance	C	[Y]	Because copyright compliance information is country-specific, implementations conforming to the IPIG Profile <b>SHALL</b> support the <b>copyright compliance</b> types of those countries in which their systems are used, or as appropriate for the institutions to which requests are sent.  For details on formatting this parameter, see 7.7.  See <i>IPIG Guidelines 6.2.2</i> for a discussion of the use of the <b>copyright-compliance</b> parameter.
21	third-party-info-type	C	[Y]	Implementations that permit or support chaining or partitioning <b>SHALL</b> have the ability to transmit values for the <b>third-party-info-type</b> parameter.  See <i>IPIG Guidelines 6.2.13</i> for a discussion of the various <b>third-party-info-type</b> permissions.
21.1	- permission-to-forward	X	--	DEFAULT: "false"  NOTE: The <b>Forward</b> Service is out of scope for the IPIG Profile.
21.2	- permission-to-chain	O	[Y]	DEFAULT: "false" Agent ISO ILL permits chaining but does not support it
21.3	- permission-to-partition	O	[N]	DEFAULT: "false"
21.4	- permission-to-change-send-to-list	O	[N]	DEFAULT: "false"
21.5	- initial-requester-address	C	[N]	Intermediaries that support partitioning <b>SHALL</b> have the ability to transmit values for the <b>initial-requester-address</b> parameter.
21.5.1	-- telecom-service-identifier	O	[N]	For details on formatting this parameter, see 7.2.1.
21.5.2	-- telecom-service-address	O	[N]	For details on formatting this parameter, see 7.2.2.
21.6	- preference	O	[N]	DEFAULT: "unordered" (2)
21.7	- send-to-list	O	[N]	<b>ILL-REQUESTs</b> generated by implementations conforming to the IPIG Profile <b>SHALL</b> contain no more than 5 entries in the <b>send-to-list</b> . Individual entries in the <b>send-to-list</b> <b>SHALL NOT</b> be truncated.
21.7.1	-- system-id	M	[N]	
21.7.1.1	--- person-or-institution-symbol	O	[N]	See A.6.1, Ref. 2.1.1. For details on formatting this parameter, see 7.1.
21.7.1.2	--- name-of-person-or-institution	O	[N]	See A.6.1, Ref. 2.1.2.

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Ref. no.	Parameter	IPIG	Impl	References, Usage or Range of Values
21.7.2	-- account-number	O	[N]	
21.7.3	-- system-address	O	[N]	
21.7.3.1	--- telecom-service-identifier	O	[N]	For details on formatting this parameter, see 7.2.1.
21.7.3.2	--- telecom-service-address	O	[N]	For details on formatting this parameter, see 7.2.2.
21.8	- already-tried-list	C	[N]	Intermediaries <b>SHALL</b> be able to transmit values for the <b>already-tried-list</b> .  <b>ILL-REQUESTs</b> generated by implementations conforming to the IPIG Profile <b>SHALL</b> contain no more than 25 entries in the <b>already-tried-list</b> . Individual entries in the <b>already-tried-list SHALL NOT</b> be truncated.
21.8.1	-- person-or-institution-symbol	O	[N]	See A.6.1, Ref. 2.1.1. For details on formatting this parameter, see 7.1.
21.8.2	-- name-of-person-or-institution	O	[N]	See A.6.1, Ref. 2.1.2.
22	retry-flag	O	[N]	DEFAULT: "false"  See <i>IPIG Guidelines 6.2.11</i> for a discussion of the use of the <b>retry-flag</b> parameter.
23	forward-flag	X	--	DEFAULT: "false"  NOTE: The Forward Service is out of scope for the IPIG Profile.
24	requester-note	O	[Y]	
25	forward-note	X	--	NOTE: The <b>Forward</b> Service is out of scope for the IPIG Profile.
26	iLL-request-extensions	M O O O C	[Y] [N] [N] [N] [Y]	The following external objects have been defined for use in this parameter:  {1 0 10161 13 3} <b>APDU-Delivery-Info</b> {1 0 10161 13 4} <b>ILL-Supplemental-Client-Info</b> {1 0 10161 13 8} <b>Internal-Reference-Number</b> {1 0 10161 13 9} <b>IPIG-ILL-Request-Extension</b>  {1 2 840 10003 8 1} <b>Prompt-1</b> Mandatory if user authentication is required by the recipient of the APDU.
26.1	- identifier	M	[Y]	Implementations conforming to the IPIG Profile <b>SHALL</b> support the value "1", as defined in ISO 10161-1:1997 AM 1.
26.2	- critical	O	[Y]	DEFAULT: "false"
26.3	- item	M	[Y]	

### A.6.2. Forward-Notification APDU

Service not supported by IPIG Profile.

### A.6.3. Shipped APDU

Ref. no.	Parameter	IPIG	Impl	References, Usage or Range of Values
1	protocol-version-num	M	[Y]	Implementations conforming to IPIG Profile <b>SHALL</b> support the value "2".
2	transaction-id	M	[Y]	See A.6.1, Ref. 2.
3	service-date-time	M	[Y]	See A.6.1, Ref. 3.
4	requester-id	M	[Y]	See A.6.1, Ref. 4.
5	responder-id	M	[Y]	See A.6.1, Ref. 5.
6	responder-address	C	[N]	See A.6.1, Ref. 7.2. Implementation supporting partitioning or chaining <b>SHALL</b> be able to supply the <b>responder-address</b> , <b>intermediary-id</b> , and <b>transaction-type</b> parameters.
6.1	- telecom-service-identifier	O	[N]	For details on formatting this parameter, see 7.2.1.
6.2	- telecom-service-address	O	[N]	For details on formatting this parameter, see 7.2.2.
7	intermediary-id	C	[N]	Implementation supporting partitioning or chaining <b>SHALL</b> be able to supply the <b>responder-address</b> , <b>intermediary-id</b> , and <b>transaction-type</b> parameters.
7.1	- person-or-institution-symbol	O	[N]	See A.6.1, Ref. 2.1.1. For details on formatting this parameter, see 7.1.
7.2	- name-of-person-or-institution	O	[N]	See A.6.1, Ref. 2.1.2.
8	supplier-id	C	[N]	If an implementation permits the supplier of the item to be different from the final responder, that is, if an implementation supports acting as the agent for other, possibly non-automated, suppliers, then the <b>supplier-id</b> parameter <b>SHALL</b> be transmitted.
8.1	- person-or-institution-symbol	O	[N]	See A.6.1, Ref. 2.1.1. For details on formatting this parameter, see 7.1.
8.2	- name-of-person-or-institution	O	[N]	See A.6.1, Ref. 2.1.2.
9	client-id	C	[Y]	If <b>client-id</b> data were supplied on the initial <b>ILL-REQUEST</b> , implementations conforming to the IPIG Profile <b>SHALL</b> transmit data for this parameter in the <b>SHIPPED</b> APDU. Otherwise, it is optional. See ISO 10160:1997 Clause 7.3.4.1. See A.6.1, Ref. 16 for the expansion of component data types for <b>client-id</b> . See <i>IPIG Guidelines 6.3.1</i> for a discussion of the use of the <b>client-id</b> parameter.
10	transaction-type	C	[N]	DEFAULT: "simple" (1) Implementations supporting partitioning or chaining <b>SHALL</b> be able to supply the <b>responder-address</b> , <b>intermediary-id</b> , and <b>transaction-type</b> parameters.
11	supplemental-item-description	O	[N]	See A.6.1, Ref. 18.
12	shipped-service-type	M	[Y]	Values for this parameter (a subset of <b>ILL-service-type</b> ) are limited to (1) "loan" and (2) "copy/non-returnable". See 7.4.2 for guidelines on the use of this parameter. See <i>IPIG Guidelines 6.3.3</i> for a discussion of the use of the <b>shipped-service-type</b> parameter.

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Ref. no.	Parameter	IPIG	Impl	References, Usage or Range of Values
13	responder-optional-messages	M	[Y]	See 7.5 and IPIG Guidelines 5.3 for discussion of the treatment of Optional APDUs.
13.1	- can-send-SHIPPED	M	[Y]	
13.2	- can-send-CHECKED-IN	M	[Y]	
13.3	- responder-RECEIVED	M	[Y]	
13.4	- responder-RETURNED	M	[Y]	
14	supply-details	M	[Y]	At least one of the component types of <b>supply-details</b> SHALL be present.
14.1	- date-shipped	O	[Y]	
14.2	- date-due	C	[Y]	If the "loan" service type is supported, then the implementation must be able to transmit values for the <b>date-due</b> parameter.
14.2.1	-- date-due-field	O	[Y]	
14.2.2	-- renewable	O	[Y]	DEFAULT: "true"
14.3	- chargeable units	O	[N]	
14.4	- cost	O	[Y]	
14.4.1	-- currency-code	M	[Y]	See 6.4.3 for a discussion of the requirements for this data parameter.
14.4.2	-- monetary-value	M	[Y]	
14.5	- shipped-conditions	O	[Y]	
14.6	- shipped-via	O	[N]	
14.6.1	-- physical-delivery	O	[N]	
14.6.2	-- electronic-delivery	O	[N]	See A.6.1, Ref. 8.2.
14.7	- insured-for	O	[N]	
14.7.1	-- currency-code	M	[N]	See 6.4.3 for a discussion on the requirements for this data parameter.
14.7.2	-- monetary-value	M	[N]	
14.8	- return-insurance-required	O	[N]	
14.8.1	-- currency-code	M	[N]	See 6.4.3 for a discussion on the requirements for this data parameter.
14.8.2	-- monetary-value	M	[N]	
14.9	- no-of-units-per-medium	O	[N]	
14.9.1	-- medium	M	[N]	
14.9.2	-- no-of-units	M	[N]	
15	return-to-address	O	[Y]	
15.1	- name-of-person-or-institution	O	[Y]	See A.6.1, Ref. 7.1.1.
15.2	- extended-postal-delivery-address	O	[Y]	
15.3	- street-and-number	O	[N]	
15.4	- post-office-box	O	[N]	
15.5	- city	O	[N]	

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Ref. no.	Parameter	IPIG	Impl	References, Usage or Range of Values
15.6	- region	O	[N]	
15.7	- country	O	[N]	
15.8	- postal-code	O	[N]	
16	responder-note	O	[Y]	
17	shipped-extensions	M O  O C	[Y] [N]  [N] [Y]	See A.6.1, Ref. 26 for data types included in any "extensions" parameter.  The following external objects have been defined for use in this parameter:  {1 0 10161 13 3} <b>APDU-Delivery-Info</b> {1 0 10161 13 4} <b>ILL-Supplemental-Client-Info</b> {1 0 10161 13 8} <b>Internal-Reference-Number</b> {1 2 840 10003 8 1} <b>Prompt-1</b> Mandatory if user authentication is required by the recipient of the APDU.

**A.6.4. ILL-Answer APDU**

Ref. no.	Parameter	IPIG	Impl	References, Usage or Range of Values
1	protocol-version-num	M	[Y]	Implementations conforming to IPIG Profile <b>SHALL</b> support the value "2".
2	transaction-id	M	[Y]	See A.6.1, Ref. 2.
3	service-date-time	M	[Y]	See A.6.1, Ref. 3.
4	requester-id	M	[Y]	See A.6.1, Ref. 4.
5	responder-id	M	[Y]	See A.6.1, Ref. 5.
6	transaction-results	M	[Y]	See 7.4.3 for a discussion on the use of this parameter.
7	results-explanation	C	[Y]	If the value of <b>transaction-results</b> is "conditional", "locations-provided", or "estimate", the <b>results-explanation</b> parameter <b>SHALL</b> be present.  See <i>IPIG Guidelines 6.4.2</i> for examples of values used in the <b>estimate-results.cost-estimate</b> parameter.
7.1	- conditional-results	C	[Y]	Mandatory if the value of <b>transaction-results</b> is "conditional".  See <i>IPIG Guidelines 6.4.1</i> for recommendations on handling multiple conditions.
7.1.1	-- conditions	M	[Y]	
7.1.2	-- date-for-reply	O	[Y]	
7.1.3	-- locations	O	[N]	Agent ISO ILL can receive locations but cannot send them
7.1.3.1	--- location-id	M	[N]	
7.1.3.1.1	---- person-or-institution-symbol	O	[N]	See A.6.1, Ref. 2.1.1.  For details on formatting this parameter, see 7.1.
7.1.3.1.2	---- name-of-person-or-institution	O	[N]	See A.6.1, Ref. 2.1.2.

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Ref. no.	Parameter	IPIG	Impl	References, Usage or Range of Values
7.1.3.2	--- location-address	O	[N]	See A.6.1, Ref. 7.2.
7.1.3.3	--- location-note	O	[N]	
7.1.4	-- proposed-delivery-service	O	[N]	See A.6.1, Ref. 8.
7.2	- retry-results	O	[Y]	See <i>IPIG Guidelines</i> 6.4.5 for an example of the use of <b>retry</b> .
7.2.1	-- reason-not-available	O	[Y]	
7.2.2	-- retry-date	O	[N]	
7.2.3	-- locations	O	[N]	See A.6.4, Ref. 7.1.3.
7.3	- unfilled-results	O	[Y]	See 6.8 for a discussion of the use of this <b>results-explanation</b> if an unrecognized or unsupported critical extension occurs in an <b>ILL-REQUEST</b> APDU.
7.3.1	-- reason-unfilled	M	[Y]	
7.3.2	-- locations	O	[N]	See A.6.4, Ref. 7.1.3.
7.4	- locations-results	C	[N]	Mandatory if the value of <b>transaction-results</b> is "locations-provided".
7.4.1	-- reason-locs-provided	O	[N]	See <i>IPIG Guidelines</i> 6.4.3 for a discussion of the use of the <b>reason-locs-provided</b> parameter.
7.4.2	-- locations	M	[N]	See A.6.4, Ref. 7.1.3.
7.4.2.1	--- location-id	M	[N]	
7.4.2.1.1	---- person-or-institution-symbol	O	[N]	See A.6.1, Ref. 2.1.1. For details on formatting this parameter, see 7.1.
7.4.2.1.2	---- name-of-person-or-institution	O	[N]	See A.6.1, Ref. 2.1.2.
7.4.2.2	--- location-address	O	[N]	See A.6.1, Ref. 7.2.
7.4.2.3	--- location-note	O	[N]	
7.5	- will-supply-results	O	[Y]	
7.5.1	-- reason-will-supply	M	[Y]	
7.5.2	-- supply-date	O	[N]	
7.5.3	-- return-to-address	O	[Y]	See A.6.1, Ref. 7.1 for the expansion of component data types for <b>postal-address</b> .
7.5.4	-- locations	O	[N]	See A.6.4, Ref. 7.1.3.
7.5.5	-- electronic-delivery-service	O	[N]	See A.6.1, Ref. 8.2.
7.6	- hold-placed-results	O	[N]	
7.6.1	-- estimated-date-available	M	[N]	
7.6.2	-- hold-placed-medium-type	O	[N]	
7.6.3	-- locations	O	[N]	See A.6.4, Ref. 7.1.3.
7.7	- estimate-results	C	[N]	Mandatory if the value of <b>transaction-results</b> is "estimate". Agent ISO ILL can receive an estimate but cannot send one
7.7.1	-- cost-estimate	M	[N]	
7.7.2	-- locations	O	[N]	See A.6.4, Ref. 7.1.3.

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Ref. no.	Parameter	IPIG	Impl	References, Usage or Range of Values
8	responder-specific-results	O	[N]	No OIDs are registered for this external object.
9	supplemental-item-description	O	[N]	See A.6.1, Ref. 18.
10	send-to-list	O	[N]	See A.6.1, Ref. 21.7.
11	already-tried-list	O	[N]	See A.6.1, Ref. 21.8.
12	responder-optional-messages	M	[Y]	See A.6.3, Ref. 13.  See 7.5 and IPIG Guidelines 5.3 for discussion of treatment of optional APDUs.
13	responder-note	O	[Y]	
14	iLL-answer-extensions	M O C	[Y] [N] [Y]	See A.6.1, Ref. 26 for data types included in any "extensions" parameter.  The following external objects have been defined for use in this parameter:  {1 0 10161 13 3} <b>APDU-Delivery-Info</b> {1 0 10161 13 8} <b>Internal-Reference-Number</b> {1 2 840 10003 8 1} <b>Prompt-1</b> Mandatory if user authentication is required by the recipient of the APDU.

#### A.6.5. Conditional-Reply APDU

Ref. no.	Parameter	IPIG	Impl	References, Usage or Range of Values
1	protocol-version-num	M	[Y]	Implementations conforming to IPIG Profile <b>SHALL</b> support the value "2".
2	transaction-id	M	[Y]	See A.6.1, Ref. 2.
3	service-date-time	M	[Y]	See A.6.1, Ref. 3.
4	requester-id	M	[Y]	See A.6.1, Ref. 4.
5	responder-id	M	[Y]	See A.6.1, Ref. 5.
6	answer	M	[Y]	
7	requester-note	O	[Y]	
8	conditional-reply-extensions	M O C	[Y] [N] [Y]	See A.6.1, Ref. 26 for data types included in any "extensions" parameter.  The following external objects have been defined for use in this parameter:  {1 0 10161 13 3} <b>APDU-Delivery-Info</b> {1 0 10161 13 8} <b>Internal-Reference-Number</b> {1 2 840 10003 8 1} <b>Prompt-1</b> Mandatory if user authentication is required by the recipient of the APDU.

#### A.6.6. Cancel APDU

See IPIG Guidelines 6.6 for a discussion of the use of the CANCEL APDU.

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Ref. no.	Parameter	IPIG	Impl	References, Usage or Range of Values
1	protocol-version-num	M	[Y]	Implementations conforming to IPIG Profile <b>SHALL</b> support the value "2".
2	transaction-id	M	[Y]	See A.6.1, Ref. 2.
3	service-date-time	M	[Y]	See A.6.1, Ref. 3.
4	requester-id	M	[Y]	See A.6.1, Ref. 4.
5	responder-id	M	[Y]	See A.6.1, Ref. 5.
6	requester-note	O	[Y]	
7	cancel-extensions	M O C	[Y] [N] [Y]	See A.6.1, Ref. 26 for data types included in any "extensions" parameter.  The following external objects have been defined for use in this parameter:  {1 0 10161 13 3} <b>APDU-Delivery-Info</b> {1 0 10161 13 8} <b>Internal-Reference-Number</b> {1 2 840 10003 8 1} <b>Prompt-1</b>  Mandatory if user authentication is required by the recipient of the APDU.

**A.6.7. Cancel-Reply APDU**

See *IPIG Guidelines 6.7* for a discussion of the use of the CANCEL-REPLY APDU.

Ref. no.	Parameter	IPIG	Impl	References, Usage or Range of Values
1	protocol-version-num	M	[Y]	Implementations conforming to IPIG Profile <b>SHALL</b> support the value "2".
2	transaction-id	M	[Y]	See A.6.1, Ref. 2.
3	service-date-time	M	[Y]	See A.6.1, Ref. 3.
4	requester-id	M	[Y]	See A.6.1, Ref. 4.
5	responder-id	M	[Y]	See A.6.1, Ref. 5.
6	answer	M	[Y]	
7	responder-note	O	[Y]	
8	cancel-reply-extensions	M O C	[Y] [N] [Y]	See A.6.1, Ref. 26 for data types included in any "extensions" parameter.  The following external objects have been defined for use in this parameter:  {1 0 10161 13 3} <b>APDU-Delivery-Info</b> {1 0 10161 13 8} <b>Internal-Reference-Number</b> {1 2 840 10003 8 1} <b>Prompt-1</b>  Mandatory if user authentication is required by the recipient of the APDU.

### A.6.8. Received APDU

Ref. no.	Parameter	IPIG	Impl	References, Usage or Range of Values
1	protocol-version-num	M	[Y]	Implementations conforming to IPIG Profile <b>SHALL</b> support the value "2".
2	transaction-id	M	[Y]	See A.6.1, Ref. 2.
3	service-date-time	M	[Y]	See A.6.1, Ref. 3.
4	requester-id	M	[Y]	See A.6.1, Ref. 4.
5	responder-id	M	[Y]	See A.6.1, Ref. 5.
6	supplier-id	C	[N]	Support of this parameter is required only when a responder is acting as an agent for the actual supplier of the item (and so the <b>supplier-id</b> will differ from the <b>responder-id</b> ), or if a value for the <b>system-id</b> has been transmitted as a parameter in the <b>SHIPPED APDU</b> .
7	supplemental-item-description	O	[N]	See A.6.1, Ref. 18.
8	date-received	M	[Y]	
9	shipped-service-type	M	[Y]	Values for this parameter (a subset of <b>ILL-service-type</b> ) are limited to (1) "loan" and (2) "copy/non-returnable".  See <i>IPIG Guidelines 6.8.1</i> for a discussion of the use of the <b>shipped-service-type</b> parameter.
10	requester-note	O	[Y]	
11	received-extensions	M O C	[Y] [N] [Y]	See A.6.1, Ref. 26 for data types included in any "extensions" parameter.  The following external objects have been defined for use in this parameter:  {1 0 10161 13 3} <b>APDU-Delivery-Info</b> {1 0 10161 13 8} <b>Internal-Reference-Number</b> {1 2 840 10003 8 1} <b>Prompt-1</b>  Mandatory if user authentication is required by the recipient of the APDU.

### A.6.9. Recall APDU

Ref. no.	Parameter	IPIG	Impl	References, Usage or Range of Values
1	protocol-version-num	M	[Y]	Implementations conforming to IPIG Profile <b>SHALL</b> support the value "2".
2	transaction-id	M	[Y]	See A.6.1, Ref. 2.
3	service-date-time	M	[Y]	See A.6.1, Ref. 3.
4	requester-id	M	[Y]	See A.6.1, Ref. 4.
5	responder-id	M	[Y]	See A.6.1, Ref. 5.
6	responder-note	O	[Y]	
7	recall-extensions	M O	[Y] [N]	See A.6.1, Ref. 26 for data types included in any "extensions" parameter.  The following external objects have been defined for use in this parameter:  {1 0 10161 13 3} <b>APDU-Delivery-Info</b> {1 0 10161 13 8} <b>Internal-Reference-</b>

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Ref. no.	Parameter	IPIG	Impl	References, Usage or Range of Values
		C	[Y]	<p><b>Number</b>                      {1 2 840 10003 8 1} <b>Prompt-1</b></p> <p>Mandatory if user authentication is required by the recipient of the APDU.</p>

**A.6.10. Returned APDU**

Ref. no.	Parameter	IPIG	Impl	References, Usage or Range of Values
1	protocol-version-num	M	[Y]	Implementations conforming to IPIG Profile <b>SHALL</b> support the value "2".
2	transaction-id	M	[Y]	See A.6.1, Ref. 2.
3	service-date-time	M	[Y]	See A.6.1, Ref. 3.
4	requester-id	M	[Y]	See A.6.1, Ref. 4.
5	responder-id	M	[Y]	See A.6.1, Ref. 5.
6	supplemental-item-description	O	[N]	See A.6.1, Ref. 18.
7	date-returned	M	[Y]	
8	returned-via	O	[N]	
9	insured-for	O	[N]	
9.1	- currency-code	M	[N]	See 6.4.3 for a discussion of the requirements for this data parameter.
9.2	- monetary-value	M	[N]	
10	requester-note	O	[Y]	
11	returned-extensions	M O C	[Y] [N] [N]	<p>See A.6.1, Ref. 26 for data types included in any "extensions" parameter.</p> <p>The following external objects have been defined for use in this parameter:</p> <p>{1 0 10161 13 3} <b>APDU-Delivery-Info</b>                      {1 0 10161 13 8} <b>Internal-Reference-Number</b>                      {1 2 840 10003 8 1} <b>Prompt-1</b></p> <p>Mandatory if user authentication is required by the recipient of the APDU.</p>

**A.6.11. Checked-in APDU**

Ref. no.	Parameter	IPIG	Impl	References, Usage or Range of Values
1	protocol-version-num	M	[Y]	Implementations conforming to IPIG Profile <b>SHALL</b> support the value "2".
2	transaction-id	M	[Y]	See A.6.1, Ref. 2.
3	service-date-time	M	[Y]	See A.6.1, Ref. 3.
4	requester-id	M	[Y]	See A.6.1, Ref. 4.
5	responder-id	M	[Y]	See A.6.1, Ref. 5.
6	date-checked-in	M	[Y]	
7	responder-note	O	[Y]	
8	checked-in-extensions			See A.6.1, Ref. 26 for data types included in any "extensions" parameter.

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Ref. no.	Parameter	IPIG	Impl	References, Usage or Range of Values
		M O  C	[Y] [N]  [Y]	The following external objects have been defined for use in this parameter:  {1 0 10161 13 3} <b>APDU-Delivery-Info</b> {1 0 10161 13 8} <b>Internal-Reference-Number</b> {1 2 840 10003 8 1} <b>Prompt-1</b>  Mandatory if user authentication is required by the recipient of the APDU.

**A.6.12. Overdue APDU**

Ref. no.	Parameter	IPIG	Impl	References, Usage or Range of Values
1	protocol-version-num	M	[Y]	Implementations conforming to IPIG Profile <b>SHALL</b> support the value "2".
2	transaction-id	M	[Y]	See A.6.1, Ref. 2.
3	service-date-time	M	[Y]	See A.6.1, Ref. 3.
4	requester-id	M	[Y]	See A.6.1, Ref. 4.
5	responder-id	M	[Y]	See A.6.1, Ref. 5.
6	date-due	M	[Y]	See A.6.3, Ref. 14.2 for an expansion of the component data types of <b>date-due</b> .
7	responder-note	O	[Y]	
8	overdue-extensions	M O  C	[Y] [N]  [Y]	See A.6.1, Ref. 26 for data types included in any "extensions" parameter.  The following external objects have been defined for use in this parameter:  {1 0 10161 13 3} <b>APDU-Delivery-Info</b> {1 0 10161 13 8} <b>Internal-Reference-Number</b> {1 2 840 10003 8 1} <b>Prompt-1</b>  Mandatory if user authentication is required by the recipient of the APDU.

**A.6.13. Renew APDU**

Ref. no.	Parameter	IPIG	Impl	References, Usage or Range of Values
1	protocol-version-num	M	[Y]	Implementations conforming to IPIG Profile <b>SHALL</b> support the value "2".
2	transaction-id	M	[Y]	See A.6.1, Ref. 2.
3	service-date-time	M	[Y]	See A.6.1, Ref. 3.
4	requester-id	M	[Y]	See A.6.1, Ref. 4.
5	responder-id	M	[Y]	See A.6.1, Ref. 5.
6	desired-due-date	O	[N]	
7	requester-note	O	[Y]	
8	renew-extensions	M	[Y]	See A.6.1, Ref. 26 for data types included in any "extensions" parameter.  The following external objects have been defined for use in this parameter:  {1 0 10161 13 3} <b>APDU-Delivery-Info</b>

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Ref. no.	Parameter	IPIG	Impl	References, Usage or Range of Values
		O C	[N] [Y]	<p>{1 0 10161 13 8} <b>Internal-Reference-Number</b>                      {1 2 840 10003 8 1} <b>Prompt-1</b></p> <p>Mandatory if user authentication is required by the recipient of the APDU.</p>

**A.6.14. Renew-Answer APDU**

Ref. no.	Parameter	IPIG	Impl	References, Usage or Range of Values
1	protocol-version-num	M	[Y]	Implementations conforming to IPIG Profile <b>SHALL</b> support the value "2".
2	transaction-id	M	[Y]	See A.6.1, Ref. 2.
3	service-date-time	M	[Y]	See A.6.1, Ref. 3.
4	requester-id	M	[Y]	See A.6.1, Ref. 4.
5	responder-id	M	[Y]	See A.6.1, Ref. 5.
6	answer	M	[Y]	
7	date-due	C	[Y]	<p>If the value of the <b>answer</b> parameter is "true", then a new value for the <b>date-due</b> parameter <b>SHALL</b> be sent as part of this APDU.</p> <p>See A.6.3, Ref. 14.2 for an expansion of the component data types of <b>date-due</b>.</p>
8	responder-note	O	[Y]	
9	renew-answer-extensions	M O C	[Y] [N] [Y]	<p>See A.6.1, Ref. 26 for data types included in any "extensions" parameter.</p> <p>The following external objects have been defined for use in this parameter:</p> <p>{1 0 10161 13 3} <b>APDU-Delivery-Info</b>                      {1 0 10161 13 8} <b>Internal-Reference-Number</b>                      {1 2 840 10003 8 1} <b>Prompt-1</b></p> <p>Mandatory if user authentication is required by the recipient of the APDU.</p>

**A.6.15. Lost APDU**

See *IPIG Guidelines 6.15* for a discussion of the use of the LOST APDU.

Ref. no.	Parameter	IPIG	Impl	References, Usage or Range of Values
1	protocol-version-num	M	[Y]	Implementations conforming to IPIG Profile <b>SHALL</b> support the value "2".
2	transaction-id	M	[Y]	See A.6.1, Ref. 2.
3	service-date-time	M	[Y]	See A.6.1, Ref. 3.
4	requester-id	M	[Y]	See A.6.1, Ref. 4.
5	responder-id	M	[Y]	See A.6.1, Ref. 5.
6	note	O	[Y]	
7	lost-extensions			<p>See A.6.1, Ref. 26 for data types included in any "extensions" parameter.</p> <p>The following external objects have been defined for use in this parameter:</p>

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Ref. no.	Parameter	IPIG	Impl	References, Usage or Range of Values
		M O C	[Y] [N] [Y]	{1 0 10161 13 3} <b>APDU-Delivery-Info</b> {1 0 10161 13 8} Internal-Reference-Number {1 2 840 10003 8 1} <b>Prompt-1</b> Mandatory if user authentication is required by the recipient of the APDU.

### A.6.16. Damaged APDU

See *IPIG Guidelines 6.16* for a discussion of the use of the DAMAGED APDU.

Ref. no.	Parameter	IPIG	Impl	References, Usage or Range of Values
1	protocol-version-num	M	[N]	Implementations conforming to IPIG Profile <b>SHALL</b> support the value "2".
2	transaction-id	M	[N]	See A.6.1, Ref. 2.
3	service-date-time	M	[N]	See A.6.1, Ref. 3.
4	requester-id	M	[N]	See A.6.1, Ref. 4.
5	responder-id	M	[N]	See A.6.1, Ref. 5.
6	damaged-details	O	[N]	
6.1	- document-type-id	O	[N]	The following external object has been defined for use in this parameter: {1 0 10161 11 1} <b>IANA Document Type</b>
6.2	- damaged-portion	M	[N]	
7	note	O	[N]	
8	damaged-extensions	M O C	[N] [N] [N]	See A.6.1, Ref. 26 for data types included in any "extensions" parameter. The following external objects have been defined for use in this parameter: {1 0 10161 13 3} <b>APDU-Delivery-Info</b> {1 0 10161 13 8} <b>Internal-Reference-Number</b> {1 2 840 10003 8 1} <b>Prompt-1</b> Mandatory if user authentication is required by the recipient of the APDU.

### A.6.17. Message APDU

See *IPIG Guidelines 6.17* for a discussion of the use of the MESSAGE APDU

Ref. no.	Parameter	IPIG	Impl	References, Usage or Range of Values
1	protocol-version-num	M	[Y]	Implementations conforming to IPIG Profile <b>SHALL</b> support the value "2".
2	transaction-id	M	[Y]	See A.6.1, Ref. 2.
3	service-date-time	M	[Y]	See A.6.1, Ref. 3.
4	requester-id	M	[Y]	See A.6.1, Ref. 4.
5	responder-id	M	[Y]	See A.6.1, Ref. 5.
6	note	M	[Y]	See <i>IPIG Guidelines 6.17.1</i> for a discussion of the use of the <b>note</b> parameter in the MESSAGE APDU.
7	message-extensions			See A.6.1, Ref. 26 for data types included in any "extensions" parameter.

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Ref. no.	Parameter	IPIG	Impl	References, Usage or Range of Values
		M O  C	[Y] [N]  [N]	The following external objects have been defined for use in this parameter:  {1 0 10161 13 3} <b>APDU-Delivery-Info</b> {1 0 10161 13 8} <b>Internal-Reference-Number</b> {1 2 840 10003 8 1} <b>Prompt-1</b> Mandatory if user authentication is required by the recipient of the APDU.

**A.6.18. Status-Query APDU**

Ref. no.	Parameter	IPIG	Impl	References, Usage or Range of Values
1	protocol-version-num	M	[Y]	Implementations conforming to IPIG Profile <b>SHALL</b> support the value "2".
2	transaction-id	M	[Y]	See A.6.1, Ref. 2.
3	service-date-time	M	[Y]	See A.6.1, Ref. 3.
4	requester-id	M	[Y]	See A.6.1, Ref. 4.
5	responder-id	M	[Y]	See A.6.1, Ref. 5.
6	note	O	[Y]	See <i>IPIG Guidelines 6.18.1</i> for a discussion of the use of the <b>note</b> parameter in the STATUS-QUERY APDU.
7	status-query-extensions	M O  C	[Y] [N]  [Y]	See A.6.1, Ref. 26 for data types included in any "extensions" parameter.  The following external objects have been defined for use in this parameter:  {1 0 10161 13 3} <b>APDU-Delivery-Info</b> {1 0 10161 13 8} <b>Internal-Reference-Number</b> {1 2 840 10003 8 1} <b>Prompt-1</b> Mandatory if user authentication is required by the recipient of the APDU.

**A.6.19. Status-or-Error-Report APDU**

See *IPIG Guidelines 6.19* for a discussion of the use of the STATUS-OR-ERROR-REPORT APDU

Ref. no.	Parameter	IPIG	Impl	References, Usage or Range of Values
1	protocol-version-num	M	[Y]	Implementations conforming to IPIG Profile <b>SHALL</b> support the value "2".
2	transaction-id	M	[Y]	See A.6.1, Ref. 2.
3	service-date-time	M	[Y]	See A.6.1, Ref. 3.
4	requester-id	M	[Y]	See A.6.1, Ref. 4.
5	responder-id	M	[Y]	See A.6.1, Ref. 5.
6	reason-no-report	C	[N]	Responders capable of sending an APDU in which neither the <b>status-report</b> nor the <b>error-report</b> parameter is present <b>SHALL</b> support this parameter; otherwise it is not applicable.  The circumstances in which no report might be sent are not specified either in the base standard or in the IPIG Profile.

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Ref. no.	Parameter	IPIG	Impl	References, Usage or Range of Values
7	status-report	O	[Y]	
7.1	- user-status-report	M	[Y]	
7.1.1	-- date-requested	O	[Y]	
7.1.2	-- author	O	[Y]	
7.1.3	-- title	O	[Y]	
7.1.4	-- author-of-article	O	[N]	
7.1.5	-- title-of-article	O	[N]	
7.1.6	-- date-of-last-transition	M	[Y]	
7.1.7	-- most-recent-service	M	[Y]	Implementations <b>SHALL</b> be capable of sending all values consistent with the <b>INTERLIBRARY LOAN APPLICATION SERVICES</b> (see A.5) and <b>ILL-service-types</b> (see A.3.4) supported.
7.1.8	-- date-of-most-recent-service	M	[Y]	
7.1.9	-- initiator-of-most-recent-service	M	[Y]	
7.1.9.1	--- person-or-institution-symbol	M	[Y]	For details on formatting this parameter, see 7.1.
7.1.9.2	--- name-of-person-or-institution	O	[N]	See A.6.1, Ref. 2.1.2.
7.1.10	-- shipped-service-type	C	[Y]	If this information has been transmitted in an earlier <b>SHIPPED</b> or <b>RECEIVED</b> APDU, then an implementation conforming to the IPIG Profile <b>SHALL</b> supply the most current information as a value for this parameter. See A.3.4.
7.1.11	-- transaction-results	C	[Y]	If this information has been transmitted in an <b>ILL-ANSWER</b> APDU, then an implementation conforming to the IPIG Profile <b>SHALL</b> supply it as a value for this parameter.
7.1.12	-- most-recent-service-note	C	[Y]	If a note has been supplied in the most recent service APDU received or the most recent service request invoked, then an implementation conforming to the IPIG Profile <b>SHALL</b> supply it as a value for this parameter.
7.2	- provider-status-report	M	[Y]	Implementations <b>SHALL</b> be capable of sending all values consistent with the <b>INTERLIBRARY LOAN APPLICATION SERVICES</b> (see A.5) and <b>ILL-service-types</b> (see A.3.4) supported.
8	error-report	O	[Y]	
8.1	- correlation-information	M	[Y]	This parameter includes Information that permits correlation of the error-report with the ILL service to which it applies.
8.2	- report-source	M	[Y]	
8.3	- user-error-report	C	[N]	If the value of <b>report-source</b> is "user", then the <b>user-error-report</b> parameter <b>SHALL</b> be present. Otherwise it is not applicable.
8.3.1	-- already-forwarded	X	--	The Forward Service is out of scope for the IPIG Profile.
8.3.1.1	--- responder-id	M	[N]	See A.6.1, Ref. 5.

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Ref. no.	Parameter	IPIG	Impl	References, Usage or Range of Values
8.3.1.2	--- responder-address	O	[N]	See A.6.3, Ref. 6.
8.3.2	-- intermediary-problem	O	[N]	
8.3.3	-- security-problem	O	[N]	
8.3.4	-- unable-to-perform	O	[N]	
8.4	- provider-error-report	C	[Y]	If the value of <b>report-source</b> is "provider", then the <b>provider-error-report</b> parameter <b>SHALL</b> be present. Otherwise it is not applicable.
8.4.1	-- general-problem	O	[Y]	
8.4.2	-- transaction-id-problem	O	[Y]	
8.4.3	-- state-transition-prohibited	O	[Y]	
8.4.3.1	--- aPDU-type	M	[Y]	For a list of possible values, see A.5.
8.4.3.2	--- current-state	M	[Y]	
9	note	O	[Y]	
10	status-or-error-report-extensions	M C  O C	[Y] [N]  [N] [Y]	See A.6.1, Ref. 26 for data types included in any "extensions" parameter.  The following external objects have been defined for use in this parameter:  {1 0 10161 13 3} <b>APDU-Delivery-Info</b> {1 0 10161 13 6} <b>IPIG Additional User Error Information</b> Mandatory if an implementation supports truncation of data. {1 0 10161 13 8} <b>Internal-Reference-Number</b> {1 2 840 10003 8 1} <b>Prompt-1</b> Mandatory if user authentication is required by the recipient of the APDU.

**A.6.20. Expired APDU**

See *IPIG Guidelines 6.6* for a discussion of the use of the EXPIRED APDU.

Ref. no.	Parameter	IPIG	Impl	References, Usage or Range of Values
1	protocol-version-num	M	[Y]	Implementations conforming to IPIG Profile <b>SHALL</b> support the value "2".
2	transaction-id	M	[Y]	See A.6.1, Ref. 2.
3	service-date-time	M	[Y]	See A.6.1, Ref. 3.
4	requester-id	M	[Y]	See A.6.1, Ref. 4.
5	responder-id	M	[Y]	See A.6.1, Ref. 5.
6	expired-extensions	M O  C	[Y] [N]  [Y]	See A.6.1, Ref. 26 for data types included in any "extensions" parameter.  The following external objects have been defined for use in this parameter:  {1 0 10161 13 3} <b>APDU-Delivery-Info</b> {1 0 10161 13 8} <b>Internal-Reference-Number</b> {1 2 840 10003 8 1} <b>Prompt-1</b> Mandatory if user authentication is required by the recipient of the APDU.

## A.7. External Objects

The table in A.4 indicates the degree of support for the associated abstract syntaxes for which these external objects have been defined.

The tables in A.6 specify which external objects are defined for use in specific parameters within each APDU.

Indicate in the tables below the degree of support of the data parameters defined for use in the external objects to be used by implementations conforming to the IPIG Profile. If the implementation supports different values (or has different constraints) for different roles, this **SHALL** be indicated.

**Note to implementors:** The abstract syntax specification (ASN.1) for each external object listed in the above table is available in the online Register of the Maintenance Agency responsible for it.

See the *Note to implementors* following A.4 for guidance on how to identify the Maintenance Agency with which each of the following external objects is registered.

system-no (6)

### A.7.1. {1 0 10161 6 1} IPIG-System-Number

Ref. no.	Parameter	IPIG	Impl	References, Usage or Range of Values
1	type	M	[N]	
1.1	- well-known-system	O	[N]	
1.2	- system-id	O	[N]	
2	database-ID	O	[N]	
3	number	M	[N]	

supplemental-item-description (7)

### A.7.2. {1 0 10161 7 1} SICI

Ref. no.	Parameter	IPIG	Impl	References, Usage or Range of Values
1	SICI	M	[N]	

### A.7.3. {1 2 840 10003 5} Record Syntaxes,

The official and complete Z39.50 MA register of record syntaxes is available online at <http://lcweb.loc.gov/z3950/agency/defns/oids.html#5>

Note to Implementors: This list of record syntaxes provides only a selection of formats registered by the Z39.50 Maintenance Agency. Add additional rows as required to the table below to specify additional MARC record syntax from the list in the Z39.50 register, which are supported by the implementation.

Ref. no.	OID	Record Syntax	IPIG	Impl	References, Usage or Range of Values
1	1.2.840.10003.5.1	Unimarc	O	[N]	
2	1.2.840.10003.5.10	Usmarc	O	[N]	
3	1.2.840.10003.5.11	UKmarc	O	[N]	
4	1.2.840.10003.5.17	Canmarc	O	[N]	
5	1.2.840.10003.5.20	Ausmarc	O	[N]	
6	1.2.840.10003.5.24	JPmarc	O	[N]	

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Ref. no.	OID	Record Syntax	IPIG	Impl	References, Usage or Range of Values
7	1.2.840.10003.5.25	SWEMarc	O	[N]	
		other (please specify)			

e-delivery-mode (9) & e-delivery-parameters (10)

**A.7.4. Internet and Fax Delivery Services**

The use of **e-delivery parameters** is contingent on specifications in the external objects defined for **e-delivery-mode**. The external objects currently defined for **e-delivery mode** (Internet Delivery Services (SMTP and FTP) and Fax Delivery Service) require that **any e-delivery-parameters** are also external objects.

Ref. no.	OID	Object Subclass	IPIG	Impl	References, Usage or Range of Values
1	1.0.10161.9.1	Internet Delivery Service	O	[N]	
1.1	1.0.10161.9.1.1	- SMTP	O	[N]	
1.1.1	1 0 10161 10 1000 7 1	-- JEDDS-ILL-Edelivery-Parameters	O	[N]	Values include "GEDI" and "Ariel MIME".
1.2	1.0.10161.9.1.2	- FTP	O	[N]	
1.2.1	1 0 10161 10 1000 7 1	-- JEDDS-ILL-Edelivery-Parameters	O	[N]	Values include "GEDI" and "Ariel FTP".
2	1.0.10161.9.2	Fax Delivery Service	O	[N]	
2.1	1 0 10161 10 1000 7 1	- JEDDS-ILL-Edelivery-Parameters	O	[N]	Defined value: "FAX".

extension (13)

**A.7.5. {1 0 10161 13 3} APDU-Delivery-Info**

Ref. no.	Parameter	IPIG	Impl	References, Usage or Range of Values
1	sender-info	M	[Y]	
1.1	- encoding	M	[Y]	Implementations conforming to the IPIG Profile <b>SHALL</b> support the following values: (2) "bER-In-MIME" (3) "bER" Agent ISO ILL supports only (3)
1.2	- transport	M	[Y]	
1.3	- aliases	O	[Y]	
2	recipient-info	M	[Y]	See A7.5, Ref. 1
3	transponder-info	O	[Y]	See A7.5, Ref. 1

**A.7.6. {1 0 10161 13 4} ILL-Supplemental-Client-Info**

Ref. no.	Parameter	IPIG	Impl	References, Usage or Range of Values
1	Client-Info-Type	M	[N]	
1.1	- standard	O	[N]	
1.2	- local	O	[N]	
2	Client-Info-Content	M	[N]	
2.1	- string-content	O	[N]	

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Ref. no.	Parameter	IPIG	Impl	References, Usage or Range of Values
2.2	- postal-address	O	[N]	
2.3	- name-or-id	O	[N]	
2.4	- status-code	O	[N]	
2.5	- defined-number	O	[N]	
2.6	- nested	O	[N]	
2.7	- amount	O	[N]	

**A.7.7. {1 0 10161 13 6} IPIG-Additional-User-Error-Information**

Ref. no.	Parameter	IPIG	Impl	References, Usage or Range of Values
1	element-truncated	O	[N]	Agent ISO ILL will process but not send
1.1	- element	M	[N]	
1.2	- truncated-value	M	[N]	
2	missing-required-element	O	[N]	
3	unsupported-field-length	O	[N]	
3.1	- element	M	[N]	
3.2	- min-length	O	[N]	
3.3	- max-length	O	[N]	
4.	unrecognized-data	O	[N]	
4.1	- element	M	[N]	
4.2	- data	O	[N]	
4.3	- expected-format	O	[N]	
4.4	- supported-values	O	[N]	
5	inconsistent-data	O	[N]	
6	other	O	[N]	

**A.7.8. {1 0 10161 13 8} Internal-Reference-Number**

Ref. no.	Parameter	IPIG	Impl	References, Usage or Range of Values
1	requester-internal-reference	O	[N]	Implementors <b>SHALL</b> supply either one of <b>requester-internal-reference</b> and/or <b>responder-internal-reference</b> when using this object.
1.1	- reference-authority	M	[N]	
1.2	- internal-reference	M	[N]	
2	responder-internal-reference	O	[N]	Implementors <b>SHALL</b> supply either <b>requester-internal-reference</b> and/or <b>responder-internal-reference</b> when using this object.
2.1	- reference-authority	M	[N]	
2.2	- internal-reference	M	[N]	

**A.7.9. {1 0 10161 13 9} IPIG-ILL-Request-Extension**

Ref. no.	Parameter	IPIG	Impl	References, Usage or Range of Values
1	uniform-title	O	[N]	
2	material-type	O	[N]	

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Ref. no.	Parameter	IPIG	Impl	References, Usage or Range of Values
3	responder-specific-info	O	[N]	
4	dissertation-thesis	O	[N]	
4.1	- type	O	[N]	
4.2	- details	O	[N]	
4.2.1	-- granting-institution	O	[N]	
4.2.2	-- date-granted	O	[N]	
5	volume	O	[N]	
6	issue-numer	O	[N]	
7	affiliations	O	[N]	
8	requested-material-language	O	[N]	
9	form-content-info	O	[N]	
10	payment-method	O	[N]	
10.1	- reciprocal-agreement	O	[N]	
10.2	- prepaid	O	[N]	
10.3	-UNESCO-voucher	O	[N]	
10.4	- aLIA-voucher	O	[N]	
10.5	- iFLA-voucher	O	[N]	
10.6	- other-voucher-or-coupon	O	[N]	
10.7	- rLG-shares	O	[N]	
10.8	- oCLC-iFM	O	[N]	
10.9	- other-payment-scheme	O	[N]	
10.10	- cash	O	[N]	
10.11	- check	O	[N]	
10.12	- credit-card	O	[N]	
10.12.1	-- type	M	[N]	
10.12.2	-- card-number	M	[N]	
10.12.3	-- expiry-date	M	[N]	
10.12.4	-- name-on-card	M	[N]	
10.13	- deposit-account	O	[N]	
10.13.1	-- account-name	M	[N]	
10.13.2	-- account-number	M	[N]	
10.14	- bank-electronic-payment	O	[N]	
10.14.1	-- bank-name	M	[N]	
10.14.2	-- bank-address	M	[N]	
10.14.3	-- routing-address	M	[N]	
10.14.4	-- account-number	M	[N]	
10.15	- other-payment-type	O	[N]	
11	this-edition-only	O	[N]	

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Ref. no.	Parameter	IPIG	Impl	References, Usage or Range of Values
12	unique-item-ID	O	[N]	
13	rights-info	O	[N]	
13.1	- rights-information-country	M	[N]	
13.2	- rights-information-type	M	[N]	
13.3	- rights-information-value	M	[N]	

Access Control

**A.7.10. {1 2 840 10003 8 1} Prompt-1**

This object is registered as an Access Control Format in the *Registry of Z39.50 Object Identifiers*, available online at <http://lcweb.loc.gov/z3950/agency/defs/oids.html#8>

The full ASN.1 definition of the Access Control Format Prompt-1 is found in *ANSI/NISO Z39.50-1995, Annex 7*.

[Note, in the revision of Z39.50 released for ballot in 2002, see subsection ASN.1.9.1 of *Appendix 18, ASN.1, Section ASN1.9 Z39.50 ASN.1 Definition for Access Control Formats* for the full ASN.1 definition of Prompt-1.]

Ref. no.	Parameter	IPIG	Impl	References, Usage or Range of Values
1	challenge	X	--	
2	response	M	[Y]	
2.1	- prompt-id	M	[Y]	
2.1.1	-- enumerated-prompt	M	[Y]	
2.1.1.1	--- type	M	[Y]	Support required for (0) "group-id", (1) "user-id" and (2) "password". Support for other defined values is optional. Agent ISO ILL supports only 1 and 2
2.1.1.2	--- suggested-string	O	[N]	
2.1.2	-- non-enumerated-prompt	X	--	
2.2	- prompt-response	M	[Y]	[1] "String" is the only choice relevant for IPIG implementations.