3M™ Standard Interchange Protocol Extensions

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Contents

3M Standard Interchange Extensions
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Introduction

The SIP protocol provides a standard interface between a library's Automated Circulation System (ACS) and library automation devices. The protocol was developed originally as an interface between the Automated Circulation System and 3M™ SelfCheck™ system. This document extends the protocol beyond the SIP 2.0 standard to meeting the needs of sorting systems such as 3M Smart Check / Smart Sorter System and payment systems, such as the 3M PAMS system.

Extensions defined are based on 3M™ Standard Interchange Protocol v2.10, Sept 17, 1998.

If you have questions regarding the 3M Standard Interchange Protocol, you may call 3M™ SelfCheck™ system Software Support Services at 800-328-0067.

Standard Interchange Protocol Extensions

This document describes Extensions to the SIP protocol to support sorting systems. This document only defines the extensions and not the full protocol.

All new messages and fields are indicated by having "Ex" in front of them in the message definitions. All 2.00 protocol messages and fields are prefixed by "2.00". Any messages and fields that are not prefixed by "Ex" or "2.00" existed in earlier versions of the protocol.

Revision History

V1.00 Initial Version - Added support for Sorting Systems

V1.10 Added Support for 3M™ PAMS

V1.20 Corrected values for Alert Types.

Command Messages to the ACS

CHECKIN Request

This message is used by the SC to request the check in an item, and also to cancel a Checkout request that did not successfully complete. The ACS must respond to this command with a Checkin Response message.

09<no block><transaction date><return date><current location><institution id><item identifier><terminal password><item properties><cancel>

	Field ID		Format
	no block		1-char, fixed-length required field: Y or N.
	transaction date		18-char, fixed-length required field: YYYYMMDDZZZZHHMMSS
	return date		18-char, fixed-length required field: YYYYMMDDZZZZHHMMSS
	current location	AP	variable-length required field
	institution id	AO	variable-length required field
	item identifier	AB	variable-length required field
	terminal password	AC	variable-length required field
2.00	*item properties*	*CH*	*variable-length optional field*
2.00	*cancel*	*BI*	*1-char, optional field: Y or N*

CHECKIN Response

This message must be sent by the ACS in response to a SC Checkin message.

10<ok><resensitize><magnetic media><alert><transaction date><institution id><item identifier><permanent location><title identifier><sort bin><patron identifier><media type><item properties><screen message><print line>

	Field	ID	Format
	ok		1-char, fixed-length required field: 0 or 1.
	resensitize		1-char, fixed-length required field: Y or N.
	magnetic media		1-char, fixed-length required field: Y or N or U.
	alert		1-char, fixed-length required field: Y or N.
	transaction date		18-char, fixed-length required field: YYYYMMDDZZZZHHMMSS
	institution id	AO	variable-length required field
	item identifier	AB	variable-length required field
	permanent location	AQ	variable-length required field
	title identifier	AJ	variable-length optional field
2.00	*sort bin*	*CL*	*variable-length optional field*
2.00	*patron identifier*	*AA*	*variable-length optional field. ID of the patron who had the item checked out.*
2.00	*media type*	*CK*	*3-char, fixed-length optional field*
2.00	*item properties*	*CH*	*variable-length optional field*
Ex	**Collection Code**	**CR**	**variable-length optional field**
Ex	**Call Number**	**CS**	**variable-length optional field**
Ex	**Destination Location**	**CT**	**variable-length optional field**
Ex	**Alert Type**	**CV**	**2-char, fixed-length optional field**
Ex	**Hold Patron Id**	**CY**	**variable-length optional field**
Ex	**Hold Patron Name**	**DA**	**variable-length optional field**
	screen message	AF	variable-length optional field
	print line	AG	variable-length optional field

The OK, and Resensitize fields should be set according to the following rules:

OK	should be set to 1 if the ACS checked in the item.
	should be set to 0 if the ACS did not check in the item.
Resensitize	should be set to Y if the SC should resensitize the article.
	should be set to N if the SC should not resensitize the article (for example, a closed reserve book, or the checkin was refused).

Field Definitions

Alert Type	CV	2-char, fixed-length field (00 thru 99). This field identifies the type of alert for a specific item. The following statuses are defined:

Value	Status
00	unknown
01	hold for this library
02	hold for other branch
03	hold for ILL
04	send to other branch
99	Other

Call Number	CS	variable-length field. This field indicated the item call number.
Collection Code	CR	variable-length field. This field indicated the item collection code.
Destination Location	CT	variable-length field. This field indicates where the item should be sent after the item is checked in.
Hold Patron Id	CY	variable-length field. This field indicates the patron id of the patron assigned to the hold for a specific item.
Hold Patron Name	DA	variable-length field. This field indicates the patron Name of the patron assigned to the hold for a specific item.
Payment type		2-char, fixed-length field (00 thru 99). An enumerated value for the type of payment, from the following table:

Value	Payment Type
00	Cash
01	VISA
02	Credit Card
03	Debit Card

Field identifiers for variable-length or optional fields.
These are each ASCII characters:

Birth Date	=	BC
Call Number	=	CS
Collection Code	=	CR
Destination Code	=	CT
Alert Type	=	CV
Hold Patron Id	=	CY
Hold Patron Name	=	DA