

SEMI E32.1-0997

SECS-II SUPPORT FOR MATERIAL MOVEMENT

This Standard was technically approved by the Information & Control Global Technical Committee. Available at www.semi.org in September 1997; originally published in 1994.

NOTICE: This Standard or Safety Guideline has an Inactive Status because the conditions to maintain Current Status have not been met. Inactive Standards or Safety Guidelines are available from SEMI and continue to be valid for use.

1 Introduction

This Document contains the necessary information to implement the Material Movement Management Standard using the SEMI E5 SECS-II communications protocol.

2 Service to Message Mapping

The table below lists each message service defined in the Material Movement Standard with the SECS-II message which should be used to perform that service.

<i>Service</i>	<i>SECS-II Msg</i>	<i>Comments</i>
TRJobCreate	S4,F19 ^{#1}	
TRJobCreate Response	S4,F20	
TRJobCommand	S4,F21	
TRJobCommand Response	S4,F22	
TRJobAlert	S4,F23	
TRJobEvent	S6,F11 ^{#2}	Corresponding messages to enable reporting, create and link reports, etc. are also assumed.
GetAttribute	S1,F19 ^{#3}	
GetAttribute Response	S1,F20 ^{#3}	
HOReady	S4,F27	
HOCommand	S4,F29	
HOCommand Response	S4,F31	
HOVerify	S4,F33	
HOVerify Response	S4,F33	
HOCancelReady	S4,F35	
HOCancelReady Response	S4,F37	
HOHalt	S4,F39	
HOHalt Response	S4,F41	

#1 If the S4,F19 message is multi-block, it will require the S4,F25/F26 multi-block inquire/grant transaction.

#2 TRJobEvent is an unconfirmed service. While the required S6,F12 reply must be transferred by the protocol layer, there is no action required on the part of the host. Therefore, it shall be discarded rather than delivered to the application which employs this service.

#3 The GetAttributes request and response will be removed from SEMI E32 and SEMI E32.1 in 1998. This message transaction is replaced by GetAttr, S14F1/F2. See SEMI E39 and SEMI E39.1 for details.

3 Parameter to Data Item/Parameter Mapping

In the table below, each parameter used in the SEMI E32 messaging services is listed along with its corresponding SECS-II data item. In some cases, a parameter will correspond to a SECS-II list. These cases are noted.

SEMI E32 defines a number of message parameters as conditional. This means that under certain conditions, these parameters do not need to be included in the message. In SEMI E5, this is done by means of a zero length data item,

or if the parameter is a list, a zero length list. Please refer to SEMI E5, ‘Zero Length Items and Lists,’ §§ 6.2.1 and 6.3.1.

<i>Parameter</i>	<i>SECS-II Data Item</i>
AtomicSpec	List Structure
AttrData	ATTRDATA
AttributeID	ATTRID
CmdParameter	List Structure
CmdParmName	CPNAME
CmdParmValue	CPVAL
EQName	EQNAME
ErrorCode	ERRCODE
ErrorText	ERRTEXT
HOAck	HOACK
HOCancelAck	HOCANCELACK
HOCmdName	HOCMDNAME
HOHaltAck	HOHALTACK
HOSStatus	List Structure
ObjectID	OBJID
ObjType	OBJTYPE
Status	List Structure
TRAck	TRACK
TRAtomicID	TRATOMICID
TRAutoStart	TRAUTOSTART
TRCmdName	TRCMDNAME
TRDirection	TRDIR
TREventData	List Structure (See S6,F11 in SEMI E5.)
TREventID	CEID
TRJobID	TRJOBID
TRJobMS	TRJOBMS
TRJobName	TRJOBNAME
TRLINK	TRLINK
TRLocation	TRLOCATION
TRObjName	TROBJNAME
TRObjType	TROBJTYPE
TRPartner	TRPTNR
TRPartnerPort	TRPTPORT
TRPort	TRPORT
TRRecipe	TRRCP
TRRole	TRROLE
TRStatus	List Structure
TRType	TRTYPE