

SEMI E39.1-1296

SECS-II PROTOCOL FOR OBJECT SERVICES STANDARD (OSS)

1 Purpose

This document maps the services and data of the parent document to SECS-II streams and functions and data definitions.

2 Scope

This document applies to all implementations of Object Services that use the SECS-II message protocol (SEMI E5).

3 Applicable Documents

SEMI E5 — SEMI Equipment Communications Standard 2 Message Content (SECS-II)

SEMI E39 — SEMI Object Services Standard

4 Mapping of Object Services

Table 1 shows the specific SECS-II streams and functions that shall be used for SECS-II implementations for the object services defined in OSS.

Table 1 Services Mapping Table

Message Name	Stream, Function	SECS-II Name
GetAttr.req	S14,F1	GetAttr Request
GetAttr.rsp	S14,F2	GetAttr Data
SetAttr.req	S14,F3	SetAttr Request
SetAttr.rsp	S14,F4	SetAttr Data
GetType.req	S14,F5	GetType Request
GetType.rsp	S14,F6	GetType Data
GetAttrName.req	S14,F7	GetAttrName Request
GetAttrName.rsp	S14,F8	GetAttrName Data
Create.req	S14,F9	Create Object Request
Create.rsp	S14,F10	Create Object Acknowledge
Delete.req	S14,F11	Delete Object Request
Delete.rsp	S14,F12	Delete Object Acknowledge
Attach.req	S14,F13	Object Attach Request
Attach.rsp	S14,F14	Object Attach Acknowledge
AttachSetAttr.req	S14,F15	Attached Object Action Request
AttachSetAttr.rsp	S14,F16	Attached Object Action Acknowledge
AttachSupervisedObject.req	S14,F17	Supervised Object Action Request
AttachSupervisedObject.rsp	S14,F18	Supervised Object Action Acknowledge
Detach.req	S14,F15	Attached Object Action Request
Detach.rsp	S14,F16	Attached Object Action Acknowledge
DetachSupervisedObject.req	S14,F17	Supervised Object Action Request
DetachSupervisedObject.rsp	S14,F18	Supervised Object Action Acknowledge
Reattach.req	S14,F13	Object Attach Request
Reattach.rsp	S14,F14	Object Attach Acknowledge

5 Service Parameter Mapping

Table 2 shows the mapping between message parameters defined by OSS and data items defined by SECS-II. For parameters specified in the definitions of an OSS service, either the parameters themselves, or individual elements of complex parameters, map to a specific data item.

Table 2 Service Parameters Item Mapping Table

Parameter Name	SECS-II Data Item
AttrName	ATTRID
AttrData	ATTRVAL
AttrRein	ATTRRELN
AttachToken	OBJTOKEN
ErrCode	ERRCODE
ErrText	ERRTEXT
ObjAck	OBJACK
ObjID	OBJID
ObjSpec	OBJSPEC
ObjType	OBJTYPE
TargetSpec	TARGETSPEC

colon “:”, the question mark “?”, the asterisk “*”, and the tilde “~”. The space character (20₁₆) may not be used as the first or last character. Maximum length is 80 characters.

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6 Data Item Format Restrictions

ATTRID Format: 20

The ASCII version of ATTRID is restricted to the characters from 20₁₆ through 7E₁₆, excluding the following characters: the “greater than” symbol “>”, the colon “:”, the question mark “?”, the asterisk “*”, and the tilde “~”. The space character (20₁₆) may not be used as the first or last character. Maximum length is 40 characters.

OBJTYPE Format: 20

The ASCII version of OBJTYPE is restricted to the characters from 20₁₆ through 7E₁₆, excluding the following characters: the “greater than” symbol “>”, the colon “:”, the question mark “?”, the asterisk “*”, and the tilde “~”. The space character (20₁₆) may not be used as the first or last character. Maximum length is 40 characters.

OBJID Format: 20

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