

SEMI T12.1-0704 (Reapproved 0710)

SPECIFICATION FOR SECS PROTOCOL FOR TRACKING JIGS AND IMPLEMENTS

This standard was technically approved by the global Traceability Committee. This edition was approved for publication by the global Audits & Reviews Subcommittee on April 30, 2010. Initially available at www.semi.org in June 2010. Originally published July 2004.

1 Purpose

1.1 The purpose of this document is to map Services and data in Specification of Tracking Jig and Implements into SECS protocol.

2 Scope

2.1 This document is applied to SECS implementation of Jigs and Implements traceability with some interoperability with semiconductor Manufacturing Execution System (MES).

NOTICE: This standard does not purport to address safety issues, if any, associated with its use. It is the responsibility of the users of this standard to establish appropriate safety and health practices and determine the applicability of regulatory or other limitations prior to use.

3 Referenced Standards and Documents

3.1 SEMI Standards

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

SEMI E39 — Object Service Standard: Concepts, Behavior and Services

SEMI T12 — Specification for Tracing Jigs and Implements

NOTICE: Unless otherwise indicated, all documents cited shall be the latest published versions.

4 Requirements

4.1 *Service Mapping* — This specification maps service instructions defined in “Specification for Jigs and Implements” into SECS stream/functions as follows. Supporting Class names specified in the following table are used as OBJSPEC or a part of OBJSPEC to request services.

Table 1 Service Message Instruction Mapping

Service Message Name	Supporting Class	Stream, Function	SECS-II Message Name
addEvent	HistoryRecord	S14, F19/F20	Generic Service Request/Response
adopt	HistoryDB	S14, F19/F20	Generic Service Request/Response
changeAction	Expiry	S14, F19/F20	Generic Service Request/Response
changeDescription	Expiry	S14, F19/F20	Generic Service Request/Response
changeExpiration	Expiry	S14, F19/F20	Generic Service Request/Response
changeName	Attachment, PublicLocation, Secondment	S14, F19/F20	Generic Service Request/Response
changeNamespace	Inventory	S14, F19/F20	Generic Service Request/Response
destrcut	Exception, Expiry, HistoryBuffer, HistoryRecord, Secondment	S14, F19/F20	Generic Service Request/Response
disown	HistoryDB	S14, F19/F20	Generic Service Request/Response
fluctuate	HistoryRecord	S14, F19/F20	Generic Service Request/Response
install	Inventory	S14, F19/F20	Generic Service Request/Response
listEvent	HistoryRecord	S14, F19/F20	Generic Service Request/Response

<i>Service Message Name</i>	<i>Supporting Class</i>	<i>Stream, Function</i>	<i>SECS-II Message Name</i>
listRecords	HistoryDB	S14, F19/F20	Generic Service Request/Response
listUp	Inventory	S14, F19/F20	Generic Service Request/Response
receiveInvoice	JitMachine	S14, F19/F20	Generic Service Request/Response
reset	HistoryDB	S14, F19/F20	Generic Service Request/Response
setReleaseCondition	HistoryBuffer	S14, F19/F20	Generic Service Request/Response
showAction	Expiry	S14, F19/F20	Generic Service Request/Response
showAttachment	HistoryBuffer	S14, F19/F20	Generic Service Request/Response
showAttachments	Invoice, JitMachine, PublicLocation	S14, F19/F20	Generic Service Request/Response
showAvailableSpace	PublicLocation	S14, F19/F20	Generic Service Request/Response
showCapacity	PublicLocation	S14, F19/F20	Generic Service Request/Response
showCategory	Exception	S14, F19/F20	Generic Service Request/Response
showCode	Exception	S14, F19/F20	Generic Service Request/Response
showData	Inventory	S14, F19/F20	Generic Service Request/Response
showDescription	Exception, Expiry	S14, F19/F20	Generic Service Request/Response
showEvent	HistoryRecord	S14, F19/F20	Generic Service Request/Response
showExeptions	JitMachine	S14, F19/F20	Generic Service Request/Response
showExpiration	Expiry	S14, F19/F20	Generic Service Request/Response
showHistory	Attachment, HistoryBuffer, HistoryDB, HistoryRecord, Invoice	S14, F19/F20	Generic Service Request/Response
showId	Attachment, Exception, Expiry, Invoice, JitMachine, PublicLocation, Secondment	S14, F19/F20	Generic Service Request/Response
showLoadports	Invoice	S14, F19/F20	Generic Service Request/Response
showLocationType	PublicLocation	S14, F19/F20	Generic Service Request/Response
showName	Attachment, JitMachine, PublicLocation, Secondment	S14, F19/F20	Generic Service Request/Response
showNamespace	Inventory	S14, F19/F20	Generic Service Request/Response
showOccupancy	PublicLocation	S14, F19/F20	Generic Service Request/Response
showPossibleType	PublicLocation	S14, F19/F20	Generic Service Request/Response
showReleaseCondition	HistoryBuffer	S14, F19/F20	Generic Service Request/Response
showState	Exception, Expiry, HistoryBuffer, PublicLocation, Secondment	S14, F19/F20	Generic Service Request/Response
showSubject	Exception, Expiry	S14, F19/F20	Generic Service Request/Response
showType	Attachment, JitMachine, Secondment	S14, F19/F20	Generic Service Request/Response
showTypes	Invoice	S14, F19/F20	Generic Service Request/Response
uninstall	Inventory	S14, F19/F20	Generic Service Request/Response
update	HistoryDB, Inventory	S14, F19/F20	Generic Service Request/Response
updateHistory	Attachment, Exception, HistoryBuffer	S14, F19/F20	Generic Service Request/Response
updateState	PublicLocation	S14, F19/F20	Generic Service Request/Response

4.2 *Service Parameter Mapping* — The Following Table shows the mapping between service parameters defined by “Specification for Tracking Jigs and Implements” standard and Data Items defined by SEMI E5. The data item SVCNAME used with S14F19 is the text string defined in the above table. The data item SPNAME used with