

Item	Test Name	Test Scenario	MAIN Notification Type	MAIN TAPI Streaming Record Type	MAIN streamed Context	MAIN streamed Object	Remarks	Sub-Item	RELATED Notification type	RELATED TAPI Streaming Record Type	Mandatory / Conditional (M/C)	RELATED streamed Context	RELATED streamed Object	Multiplicity (Yes / No)	Remarks
1	New Device (highly equipped subrack)	The device must have traffic functionality and associated physical connectors.	OBJECT_CREATION	CREATE_UPDATE	Physical	Device	Notification: Whole entity tree: 1. device (NE),equipment (category: Subrack), contained-holder (slot), equipment (circuit-pack), contained-holder (slot),equipment (small-form-factor). 2. access-port TAPI Streaming: Device (without subordinate entities)	1	OBJECT_CREATION	CREATE_UPDATE	M	Physical	Holder	Yes	
								2	OBJECT_CREATION	CREATE_UPDATE	M	Physical	Equipment	Yes	
								3	OBJECT_CREATION	CREATE_UPDATE	M	Physical	Access Port	Yes	
								4	OBJECT_CREATION	CREATE_UPDATE	C	Physical	Physical Span	Yes	
								5	OBJECT_CREATION	CREATE_UPDATE	M	Topology	Node	Yes	
								6	OBJECT_CREATION	CREATE_UPDATE	C	Topology	Topology	No	Node creation MAY trigger a topology creation event relative to the first node only. The topology may also be present prior to the creation of any node.
								7	ATTRIBUTE_VALUE_CHANGE	<No change required>	M	Topology	Topology	No	Notification: Attribute value change event for Topology in relation to the second Node (in the Topology) onwards.
								8	OBJECT_CREATION	CREATE_UPDATE	M	Topology	NEP	Yes	
								9	OBJECT_CREATION	CREATE_UPDATE	C	Topology	Link	Yes	
								10	OBJECT_CREATION	CREATE_UPDATE	M	Connectivity	CEP	Yes	
								11	OBJECT_CREATION	CREATE_UPDATE	C	Connectivity	Connection	Yes	Example: ILA will have a Connection.
								12	OBJECT_CREATION	CREATE_UPDATE	C	Connectivity	Switch Control	Yes	Example: OPS will have switch control
								13	OBJECT_CREATION	CREATE_UPDATE	C	Common	SIP	Yes	Example: ILA will not have a SIP.
2	New Device (subrack with common equipment only)	Common Equipment: Power Supply Units, Shelf Processors, Control and Timing??	OBJECT_CREATION	CREATE_UPDATE	Physical	Device	Notification: Whole entity tree: 1. device (NE),equipment (category: Subrack), contained-holder (slot). TAPI Streaming: Device (without subordinate entities)	1	OBJECT_CREATION	CREATE_UPDATE	C	Topology	Node	Yes	
								2	OBJECT_CREATION	CREATE_UPDATE	M	Physical	Holder	Yes	Logs related to the creation of contained Holder including pointer to occupying FRU if any.
								3	OBJECT_CREATION	CREATE_UPDATE	M	Physical	Equipment	Yes	Logs related to the creation of every Equipment (Common).
3	New Equipment (subrack)	Add new Equipment (subrack) to a existing Device.	OBJECT_CREATION	CREATE_UPDATE	Physical	Equipment	Notification: Whole entity tree: 1. equipment (category: Subrack), contained-holder (slot). TAPI Streaming: Equipment (without subordinate entities)	1	OBJECT_CREATION	CREATE_UPDATE	M	Physical	Holder	Yes	Logs related to the creation of contained Holder including pointer to occupying FRU if any.
								2	OBJECT_CREATION	CREATE_UPDATE	C	Physical	Equipment	Yes	Logs related to the creation of every Equipment (Common).
4	New Equipment (common equipment)	Adding a PSU, Shelf Processor, etc. Common Equipment: Power Supply Units, Shelf Processors, Control and Timing?? It is assumed that these equipments do not have contained holders.	OBJECT_CREATION	CREATE_UPDATE	Physical	Equipment	Notification: Whole entity tree: 1. Equipment TAPI Streaming: Equipment	1	ATTRIBUTE_VALUE_CHANGE	CREATE_UPDATE	M	Physical	Holder	Yes	Log related to update the FRU pointer in the Holder occupied by the just added Equipment.
5	New Equipment (traffic equipment with empty sub-slot for pluggable)	Add Tributary Board (Traffic equipment) with empty sub-slot for pluggable NOTE. Behaves same as New Equipment (common equipment) Traffic Equipment: Tributary Boards, Pluggable Modules, Muxponder Boards, Transponder Boards, Line Boards.	OBJECT_CREATION	CREATE_UPDATE	Physical	Equipment	Notification: Whole entity tree: 1. equipment (category: Circuit Pack), contained-holder (slot). TAPI Streaming: Equipment (without subordinate entities)	1	ATTRIBUTE_VALUE_CHANGE	CREATE_UPDATE	M	Physical	Holder	Yes	Log related to update the FRU pointer in the Holder occupied by the just added Equipment.
								2	OBJECT_CREATION	CREATE_UPDATE	M	Physical	Holder	Yes	Log related to the creation of (contained) Holder in the just added Equipment.
								3	OBJECT_CREATION	CREATE_UPDATE	C	Connectivity	CEP	Yes	
								4	OBJECT_CREATION	CREATE_UPDATE	C	Topology	NEP	Yes	
								5	OBJECT_CREATION	CREATE_UPDATE	C	Common	SIP	Yes	
6	New Equipment (traffic equipment) -> Line Board with native optical port	Add Line Board (Traffic equipment). Assumption: These kind of Equipment does not have contained Holders. Traffic Equipment: Tributary Boards, Pluggable Modules, Muxponder Boards, Transponder Boards, Line Boards.	OBJECT_CREATION	CREATE_UPDATE	Physical	Equipment	Notification: Whole entity tree: 1. Equipment TAPI Streaming: Equipment	1	ATTRIBUTE_VALUE_CHANGE	CREATE_UPDATE	M	Physical	Holder	Yes	Log related to update the FRU pointer in the Holder occupied by the just added Equipment.
								2	OBJECT_CREATION	CREATE_UPDATE	M	Physical	Access Port	Yes	Log related to the creation of the Access-Port supported by the just added Equipment.
								3	OBJECT_CREATION	CREATE_UPDATE	M	Connectivity	CEP	Yes	
								4	OBJECT_CREATION	CREATE_UPDATE	M	Topology	NEP	Yes	
								5	OBJECT_CREATION	CREATE_UPDATE	C	Common	SIP	Yes	Log related to the creation of the SIP supported by the just added Access-Port. NOTE. SIP creation logs are optional because of limitations to create CS (for example not possible to create CS: OTU4 yet).

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7	New Equipment (pluggable insertion)	Add Pluggable Module (Traffic equipment). Assumption: These kind of Equipment does not have contained Holders. Traffic Equipment: Tributary Boards, Pluggable Modules, Muxponder Boards, Transponder Boards, Line Boards.	OBJECT_CREATION	CREATE_UPDATE	Physical	Equipment	Notification: Whole entity tree: 1. Equipment TAPI Streaming: Equipment	1	ATTRIBUTE_VALUE_CHANGE	CREATE_UPDATE	M	Physical	Holder	Yes	Log related to update the FRU pointer in the Holder occupied by the just added Equipment.
								2	OBJECT_CREATION	CREATE_UPDATE	M	Physical	Access Port	Yes	Log related to the creation of the Access-Port supported by the just added Equipment.
								3	OBJECT_CREATION	CREATE_UPDATE	M	Connectivity	CEP	Yes	
								4	OBJECT_CREATION	CREATE_UPDATE	M	Topology	NEP	Yes	
								5	OBJECT_CREATION	CREATE_UPDATE	C	Common	SIP	Yes	Log related to the creation of the SIP supported by the just added Access-Port. NOTE. SIP creation logs are optional because of limitations to create CS (for example not possible to create CS: OTU4 yet).
8	New Equipment (Cross-Connection Boards, switching fabrics)	Add Cross Connection Board. Assumption: These kind of Equipment does not have contained Holders.	OBJECT_CREATION	CREATE_UPDATE	Physical	Equipment	Notification: Whole entity tree: 1. Equipment TAPI Streaming: Equipment	1	ATTRIBUTE_VALUE_CHANGE	CREATE_UPDATE	M	Physical	Holder	Yes	Log related to update the FRU pointer in the Holder occupied by the just added Equipment.
								2	OBJECT_CREATION	CREATE_UPDATE	C	Connectivity	CEP	Yes	
								3	OBJECT_CREATION	CREATE_UPDATE	C	Topology	NEP	Yes	
								4	OBJECT_CREATION	CREATE_UPDATE	C	Common	SIP	Yes	
9	Delete Equipment (traffic equipment) -> Line Board with native optical port	Delete Line Board (Traffic equipment). Assumption: These kind of Equipment does not have contained Holders. Traffic Equipment: Tributary Boards, Pluggable Modules, Muxponder Boards, Transponder Boards, Line Boards.	OBJECT_DELETION	DELETE	Physical	Equipment	Notification: Whole entity tree: 1. Equipment TAPI Streaming: Equipment	1	ATTRIBUTE_VALUE_CHANGE	CREATE_UPDATE	M	Physical	Holder	Yes	Log related to remove the FRU pointer in the Holder occupied by the just added Equipment.
								2	OBJECT_DELETION	DELETE	M	Physical	Access Port	Yes	Log related to the deletion of the Access-Port supported by the just removed Equipment.
								3	OBJECT_DELETION	DELETE	M	Connectivity	CEP	Yes	
								4	OBJECT_DELETION	DELETE	M	Topology	NEP	Yes	
								5	OBJECT_DELETION	DELETE	C	Common	SIP	Yes	Log related to the deletion of the SIP supported by the just removed Access-Port. NOTE. SIP deletion logs are optional because of limitations to create CS (for example not possible to create CS: OTU4 yet).
10	Delete Equipment (pluggable insertion)	Delete Pluggable Module (Traffic equipment). Assumption: These kind of Equipment does not have contained Holders. Traffic Equipment: Tributary Boards, Pluggable Modules, Muxponder Boards, Transponder Boards, Line Boards.	OBJECT_DELETION	DELETE	Physical	Equipment	Notification: Whole entity tree: 1. Equipment TAPI Streaming: Equipment	1	ATTRIBUTE_VALUE_CHANGE	CREATE_UPDATE	M	Physical	Holder	Yes	Log related to remove the FRU pointer in the Holder occupied by the just added Equipment.
								2	OBJECT_CREATION	CREATE_UPDATE	M	Physical	Access Port	Yes	Log related to the deletion of the Access-Port supported by the just removed Equipment.
								3	OBJECT_CREATION	CREATE_UPDATE	M	Connectivity	CEP	Yes	
								4	OBJECT_CREATION	CREATE_UPDATE	M	Topology	NEP	Yes	
								5	OBJECT_CREATION	CREATE_UPDATE	C	Common	SIP	Yes	Log related to the deletion of the SIP supported by the just removed Access-Port. NOTE. SIP deletion logs are optional because of limitations to create CS (for example not possible to create CS: OTU4 yet).

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1	New CS	Creation of DSR (CS) NOTE. Its assumed the CS has been successfully created and realized with new Connections.	OBJECT_CREATION	CREATE_UPDATE	Connectivity	CS	Notification: Whole entity (Connectivity Service) TAPI Streaming: Whole entity (Connectivity Service) NOTE. CS includes CSEPs.	1	ATTRIBUTE_VALUE_CHANGE	CREATE_UPDATE	Common	M	SIP	Yes	Log related to update the available-capacity.
								2	ATTRIBUTE_VALUE_CHANGE	CREATE_UPDATE	Common	C	SIP	Yes	Log related to update: administrative-state, operational-state, lifecycle-state.
								3	ATTRIBUTE_VALUE_CHANGE	CREATE_UPDATE	Connectivity	C	CS	Yes	The CS may experience more then one state changes during its creation (realization).
								4	OBJECT_CREATION	CREATE_UPDATE	Connectivity	C	CEP	Yes	The CEP may be created prior to Connection creation.
								5	ATTRIBUTE_VALUE_CHANGE	CREATE_UPDATE	Connectivity	C	CEP	Yes	Log related to update the operational-state. NOTE. The CEP may experience more then one state changes during its creation (realization).
								6	OBJECT_CREATION	CREATE_UPDATE	Connectivity	M	Connection	Yes	NOTE. A CS may be realized by more than one Connection. Refer to the TR-547 v1.1 tables to state what attributes per CS Type (connection type) shall be included in the log.
								7	OBJECT_CREATION	CREATE_UPDATE	Connectivity	C	Switch Control	Yes	Log related to Swith Control shall be present for those CS provisioned with some form of resiliency.
								8	OBJECT_CREATION	CREATE_UPDATE	Topology	C	Link	Yes	Log related to the creation of supported Link (if there is a supported-link)
								9	ATTRIBUTE_VALUE_CHANGE	CREATE_UPDATE	Topology	M	NEP	Yes	Log related to update the available-capacity.
2	Remove CS	Deletion of DSR (CS) NOTE. There should be DELETION log for Connectivity Service and correlative Connection and CEP objects. But there should be also some VALUE_CHANGE logs for Links , NEP and SIP, for the reason that the occupied resource has been released.	OBJECT_DELETION	DELETE	Connectivity	CS	Notification: Whole entity (Connectivity Service) TAPI Streaming: Whole entity (Connectivity Service) NOTE. CS includes CSEPs.	1	ATTRIBUTE_VALUE_CHANGE	CREATE_UPDATE	Common	M	SIP	Yes	Log related to update the available-capacity.
								2	ATTRIBUTE_VALUE_CHANGE	CREATE_UPDATE	Common	C	SIP	Yes	Log related to update: administrative-state, operational-state, lifecycle-state.
								3	ATTRIBUTE_VALUE_CHANGE	CREATE_UPDATE	Connectivity	C	CS	Yes	The CS may experience more then one state changes during its deletion (realization).
								4	ATTRIBUTE_VALUE_CHANGE	CREATE_UPDATE	Connectivity	C	CEP	Yes	Log related to update the operational-state. NOTE. The CEP may experience more then one state changes during its deletion.
								5	OBJECT_DELETION	DELETE	Connectivity	C	CEP	Yes	
								6	OBJECT_DELETION	DELETE	Connectivity	M	Connection	Yes	NOTE. A CS may be realized by more than one Connection.
								7	OBJECT_DELETION	DELETE	Connectivity	C	Switch Control	Yes	
								8	OBJECT_DELETION	DELETE	Topology	C	Link	Yes	Log related to the deletion of supported Link (if there is a supported-link)
								9	ATTRIBUTE_VALUE_CHANGE	CREATE_UPDATE	Topology	M	NEP	Yes	Log related to update the available-capacity.
3	Change CS	Other than Status (Capacity Change). Scenarios: Liquid Spectrum, GDUflex NOTE. Related to a Connection that supports a Link already.	ATTRIBUTE_VALUE_CHANGE	CREATE_UPDATE	Connectivity	CS	Notification: Whole entity (Connectivity Service) TAPI Streaming: Whole entity (Connectivity Service)	1	ATTRIBUTE_VALUE_CHANGE	CREATE_UPDATE	Topology	M	Link	Yes	Log related to update the available-capacity.
								2	ATTRIBUTE_VALUE_CHANGE	CREATE_UPDATE	Topology	M	NEP	Yes	Log related to update the available-capacity.
								3	ATTRIBUTE_VALUE_CHANGE	CREATE_UPDATE	Common	C	SIP	Yes	Log related to update: administrative-state, operational-state, lifecycle-state.
								4	ATTRIBUTE_VALUE_CHANGE	CREATE_UPDATE	Connectivity	M	CEP	Yes	NOTE. For the specific thr Change CS could potentially change the number of ODUc in the CSEP that then changes the CEP equivalent property.
								5	ATTRIBUTE_VALUE_CHANGE	CREATE_UPDATE	Connectivity	C	Connection	Yes	NOTE. There may be a Connection(s) created as changes to the CS may cause re-routing.
								6	OBJECT_DELETION	DELETE	Connectivity	C	Connection	Yes	NOTE. There may be a Connection(s) deleted as changes to the CS may cause re-routing.

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								7	ATTRIBUTE_VALUE_CHANGE	CREATE_UPDATE	Connectivity	M	Connection	Yes	NOTE: Connection may go through some operational state changes as the CS change is applied.
4	Connection Route Change (Selected Route Change)	The Route that will be changing inside the Connection	ATTRIBUTE_VALUE_CHANGE	CREATE_UPDATE	Connectivity	Connection	Notification: /context/tapi-connectivity:connectivity-context/tapi-connectivity:connection/tapi-connectivity:route/tapi-connectivity:resilience-route TAPI Streaming: Whole entity (Connection)	1	NA		NA	NA	NA		NA
5	Connection Route Change (Route Details Change)	The CEP changing inside the Route	ATTRIBUTE_VALUE_CHANGE	CREATE_UPDATE	Connectivity	Connection	Notification: /context/tapi-connectivity:connectivity-context/tapi-connectivity:connection/tapi-connectivity:route/tapi-connectivity:connection-end-point TAPI Streaming: Whole entity (Connection)	1	NA		NA	NA	NA		NA
6	Switching Change	One or more log indicating switch change. Direct log upon the global object.	ATTRIBUTE_VALUE_CHANGE	CREATE_UPDATE	Connectivity	Switch Control	Notification: /tapi-connectivity:connection/tapi-connectivity:switch-control/tapi-connectivity:switch TAPI Streaming: Whole entity (Switch Control)	1	NA		NA	NA	NA		NA

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1	New Node	Node CREATION is driven by DEVICE and EQUIPMENT creation. NOTE: For the TR-547 v1.1 scope, Node is strongly coupled with physical-context.	OBJECT_CREATION	CREATE_UPDATE	Topology	Node	Notification: Whole entity (Node: ONEP, aggregated NEP, node-rule-group, total-potential-capacity, etc.) TAPI Streaming: Whole entity (Node)	1	ATTRIBUTE_VALUE_CHANGE	<No change required>	Topology	C	node-list	No	Node CREATION is driven by DEVICE and EQUIPMENT creation. An update on node-list is expected either providing the whole list (with the new Node included) OR providing a "list change" statement indicating a new node should be appended to the list.
2	Removing Node	Node DELETION is driven by DEVICE and EQUIPMENT deletion. For the present RIA scope, Node is strongly coupled with physical-context.	OBJECT_DELETION	DELETE	Topology	Node	Notification: Whole entity (Node: ONEP, aggregated NEP, node-rule-group, total-potential-capacity, etc.) TAPI Streaming: Whole entity (Node)	1	ATTRIBUTE_VALUE_CHANGE	<No change required>	Topology	C	node-list	No	Node DELETION is driven by DEVICE and EQUIPMENT deletion.
3	New Link	New Link as consequence of interconnecting two ports (access-ports). NOTE There is also a strong relationship between CS, Connection and Link. This relationship is covered in "connectivity-context SCENARIOS".	OBJECT_CREATION	CREATE_UPDATE	Topology	Link	Notification: Whole entity (Link). TAPI Streaming: Whole entity (Link).	1	ATTRIBUTE_VALUE_CHANGE	CREATE_UPDATE	Topology	C	NEP	Yes	
								2	OBJECT_CREATION	CREATE_UPDATE	Connectivity	C	CEP	Yes	
								3	ATTRIBUTE_VALUE_CHANGE	CREATE_UPDATE	Connectivity	C	CEP	Yes	Log related to update the operational-state
								4	OBJECT_CREATION	CREATE_UPDATE	Connectivity	C	Connection	Yes	1 or more connections Refer to the RIA tables to state what attributes per CS Type (connection type). NOTE: When a Link is created a new Connection(s) supported by it (the Link) appear.
4	Remove Link	Removal Link as consequence of disconnecting two ports (access-ports). NOTE There is also a strong relationship between CS, Connection and Link. This relationship is covered in "connectivity-context SCENARIOS".	OBJECT_DELETION	DELETE	Topology	Link	Notification: Whole entity (Link). TAPI Streaming: Whole entity (Link).	1	ATTRIBUTE_VALUE_CHANGE	CREATE_UPDATE	Topology	C	NEP	Yes	
								2	OBJECT_DELETION	DELETE	Connectivity	C	CEP	Yes	
								3	ATTRIBUTE_VALUE_CHANGE	CREATE_UPDATE	Connectivity	C	CEP	Yes	Log related to update the operational-state
								4	OBJECT_DELETION	DELETE	Connectivity	C	Connection	Yes	Link deletion may trigger the removal of the Connection(s) the Link supports. Refer to the TR-547 v1.1 tables to state what attributes per Connection (connection type) shall be included in the log.
5	Link Status Change		ATTRIBUTE_VALUE_CHANGE	CREATE_UPDATE	Topology	Link	Notification: Partial Entity (Link). TAPI Streaming: Whole entity (Link).	1	ATTRIBUTE_VALUE_CHANGE	CREATE_UPDATE	Connectivity	C	Connection	Yes	Log related to update: administrative-state, operational-state, lifecycle-state.
6	New NEP	NEP CREATION is driven by EQUIPMENT and ACCESS PORT creation. NOTE: For the TR-547 v1.1 scope, Node is strongly coupled with physical-context.	OBJECT_CREATION	CREATE_UPDATE	Topology	NEP	Notification: Whole entity (NEP, CEP if any). TAPI Streaming: Whole entity (NEP).	1	ATTRIBUTE_VALUE_CHANGE	CREATE_UPDATE	Topology	C	Node	No	A new NEP implies a change in some basic Node capabilities (capacity, SIP increment).
								2	OBJECT_CREATION	CREATE_UPDATE	Connectivity	C	CEP	Yes	
								3	OBJECT_CREATION	CREATE_UPDATE	Common	C	SIP	Yes	Log that provides the relationship between NEP and mapped-service-interface-point.
7	Removing NEP	NEP DELETION is driven by EQUIPMENT and ACCESS PORT deletion. NOTE: For the TR-547 v1.1 scope, Node is strongly coupled with physical-context.	OBJECT_DELETION	DELETE	Topology	NEP	Notification: Whole entity (NEP, CEP if any). TAPI Streaming: Whole entity (NEP).	1	ATTRIBUTE_VALUE_CHANGE	CREATE_UPDATE	Topology	C	Node	No	Removal of a NEP implies a change in some basic Node's capabilities (capacity, client-port decrement?).
								2	OBJECT_DELETION	DELETE	Connectivity	C	CEP	Yes	
								3	OBJECT_DELETION	DELETE	Common	C	SIP	Yes	Log related to SIP removal according to the relationship between NEP and mapped-service-interface-point.

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8	NEP Change	All other changes but Status	ATTRIBUTE_VALUE_CHANGE	CREATE_UPDATE	Topology	NEP	Notification: Partial Entity (NEP) TAPI Streaming: Whole entity (NEP).	1	ATTRIBUTE_VALUE_CHANGE	CREATE_UPDATE	Connectivity	C	Connection	Yes	Log related to update the available-capacity.
9	NEP Status Change		ATTRIBUTE_VALUE_CHANGE	CREATE_UPDATE	Topology	NEP	Notification: Partial Entity (NEP) TAPI Streaming: Whole entity (NEP).	1	ATTRIBUTE_VALUE_CHANGE	CREATE_UPDATE	Connectivity	C	Connection	Yes	Log related to update: administrative-state, operational-state, lifecycle-state.