Siemens 6ES5304-3UB11

01 Record the complete S5 topology

Record the complete S5 topology — field actions

Identify controllers, peers, cables and remote addresses. Photograph the jumper pattern and establish the approved system maintenance state before removal.

Configuration identified

The bus topology and mode are retained.

Topology record and jumper record

Topology record	Identify both endpoints and the assigned X3/X4 link.
Jumper record	Photograph the complete existing operating-mode pattern.

Configuration record	Hardware identities and original settings retained
Following activity	Select the permissible length band

01

S5 controller

Retain the original configuration before disturbing hardware.

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02 Select the permissible length band

Select the permissible length band — field actions

Confirm the longest route and X11 position. Use 450–600 m only for the permitted S5-155H link. Resolve topology and length conflicts before energizing.

Mounting / circuit accepted

Cable compensation matches the installation.

Route measurement and band qualification

Route measurement	Retain the longest actual connected cable length.
Band qualification	Record the selected X11 band and its topology restrictions.

Installation record	Inspected interfaces and resolved defects retained
Following activity	Secure peers and termination

02

IM 304 settings

Protect the physical and electrical installation boundary.

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03 Secure peers and termination

Secure peers and termination — field actions

Inspect the receiving interface, cable assignment and terminator. Lock connector catches and retain the correct X4 use for a parallel link.

Connections reconciled

The physical path matches the approved design.

Peer identity and mechanical lock

Peer identity	Compare receiving interface and termination with the system design.
Mechanical lock	Check both connector catches and cable strain relief.

Connection record	Final wiring and configuration assignments retained
Following activity	Restore the expansion bus

03

Symmetrical cable

Resolve connection and configuration differences before energization.

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04 Restore the expansion bus

Restore the expansion bus — field actions

Follow the system-specific startup sequence. Check remote readiness and investigate intermittency before enabling outputs. Do not change addresses to hide wiring faults.

Functional response accepted

The link is stable in its required mode.

Bus readiness and address trace

Bus readiness	Record central and remote behavior during the approved startup.
Address trace	Follow a known remote channel to its intended program address.

Response record	Test conditions, observed response and deviations retained
Following activity	Validate remote addresses

04

Receiving rack

Evaluate actual response under controlled conditions.

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05 Validate remote addresses

Validate remote addresses — field actions

Exercise known inputs and controlled outputs, compare rack/channel response with the program and retain final jumper/cable/address records.

Return-to-service evidence

Physical and application paths are accepted.

Separate related-equipment review

Siemens 6ES7531-7KF00-0AB0

Siemens 6ES7392-1AJ00-0AA0

Siemens 6ES7331-1KF02-0AB0

Assess each related item independently; these references do not establish replacement compatibility.

05

Remote validation

Return control only after reviewing the complete test outcome.