Siemens 6GK7443-1EX11-0XE0

01 Capture peer addresses and transport services

1. Record the configured Ethernet peers, transport services, addresses and connection resources used by the station. Separate S7 communication from open communication and note payload expectations for each application. Preserve the controller hardware configuration and peer settings before disconnecting the communication processor.

2. An Ethernet address alone does not establish which application service or data length the partner expects.

Acceptance observation	Every active application connection has an identifiable service and destination.
Evidence to retain	Connection map and approved baseline
Release boundary	Use the applicable SIMATIC S7-400 instructions and the approved application acceptance criteria.

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02 Inspect Ethernet connection and cabinet wiring

1. Identify the installed media connection and its physical route before work. The RJ45 and AUI arrangements must be assessed as alternatives in the actual installation, not as ports of an integrated switch. Inspect the selected connector, adjacent network equipment and the station backplane power budget.

2. Do not connect two network segments on the assumption that the CP forwards traffic as a built-in switch.

Acceptance observation	The restored physical connection matches the original network design.
Evidence to retain	Isolation and supply assessment
Release boundary	Use the applicable SIMATIC S7-400 instructions and the approved application acceptance criteria.

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03 Restore connection resources and access policy

1. Restore the supported CP hardware configuration and partner parameters. Check address uniqueness and ensure that configured connection totals remain within the resource limits, including mixed services. Keep the process dependent on those connections in its approved maintenance state during download or restart.

2. A local link indication can coexist with wrong addressing or an application connection that cannot be established.

Acceptance observation	Configured resources and partner addresses are consistent on both ends.
Evidence to retain	Restored interface and configuration
Release boundary	Use the applicable SIMATIC S7-400 instructions and the approved application acceptance criteria.

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04 Verify payloads and block status

1. Test the actual data exchange in both required directions using the configured service. Compare changing values, data lengths and application handling rather than testing connectivity alone. Assess missing, stale or unexpected messages at the controller and partner boundary to distinguish transport from application faults.

2. A network test that succeeds without verifying the production service leaves protocol, payload and resource problems unresolved.

Acceptance observation	The intended data reaches the correct application with the expected structure.
Evidence to retain	Measured response and diagnostic state
Release boundary	Use the applicable SIMATIC S7-400 instructions and the approved application acceptance criteria.

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05 Confirm time source and network handover

1. Restore normal communication authority and monitor the configured station diagnostics during a representative operating period. Remove temporary test partners and confirm they have not consumed production resources. Retain the final address and service map with the project so a future network change can be assessed precisely.

2. Intermittent loss under real traffic requires resource and application investigation before the communication path is released.

Technical basis: Siemens product data sheet, 6GK7443-1EX11-0XE0.

Related product navigation

- Siemens 6GK7343-1EX30-0XE0
- Siemens 6GK5324-0GG00-1AR2
- Siemens 6GK5992-2GA00-8AA0

Related products for separate application assessment; verify the platform and interface. No interchangeability is implied.