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01 Map the remote drops

01

Quantum CPU

Retain the original configuration before disturbing hardware.

Map the remote drops — field actions

Record CPU configuration, drop types, addresses and word allocations, and label both coaxial paths.

Configuration identified

The complete RIO topology and expected data map are retained.

Drop list and word allocation

Drop list	Retain each configured remote rack identity and address.
Word allocation	Record the input/output range assigned to each drop.

Configuration record	Hardware identities and original settings retained
Following activity	Inspect both coaxial routes

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02 Inspect both coaxial routes

02

Dual RIO head

Protect the physical and electrical installation boundary.

Inspect both coaxial routes — field actions

Under the network maintenance plan, inspect the head seating, shield bonding, connectors and cable-system terminations.

Mounting / circuit accepted

Both physical paths are consistent with the approved network design.

Coaxial path A and coaxial path b

Coaxial path A	Inspect connectors, shield and the approved cable route.
Coaxial path B	Repeat the physical review independently on the second path.

Installation record	Inspected interfaces and resolved defects retained
Following activity	Restore the CPU-side head

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03 Restore the CPU-side head

03

Coaxial paths

Resolve connection and configuration differences before energization.

Restore the CPU-side head — field actions

Install the exact head in the CPU backplane and reconnect the labelled A/B paths. Restore the retained configuration without changing unrelated drop assignments.

Connections reconciled

The CPU recognizes the intended RIO head and drop map.

Head position and adapter roles

Head position	Confirm installation in the controlling CPU backplane.
Adapter roles	Retain the remote-drop adapter identities.

Connection record	Final wiring and configuration assignments retained
Following activity	Test each path and data map

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04 Test each path and data map

04

Remote drops

Evaluate actual response under controlled conditions.

Test each path and data map — field actions

Use the approved controlled path test and compare Error A/B, Com Act and representative I/O values. Record the behavior of affected drops.

Functional response accepted

Each path and tested application mapping has a coherent result.

Single-path evidence and data trace

Single-path evidence	Record diagnostics during each approved path test.
Data trace	Follow representative remote points into the CPU image.
Response record	Test conditions, observed response and deviations retained
Following activity	Release the dual-path network

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05 Release the dual-path network

05

Data acceptance

Return control only after reviewing the complete test outcome.

Release the dual-path network — field actions

Reconnect both paths, clear resolved faults through the approved procedure and verify all required drops are communicating.

Return-to-service evidence

The final network has no unexplained channel error or missing drop.

Separate related-equipment review

Schneider Electric 140ARI03010

Schneider Electric 140CPS11100

Schneider Electric 140CPS22400

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