EDGELOR

Performance, Recovery and Installation Acceptance

Confirm the task, deliver evidence and verify the actual site result

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Worksheets do not pre-approve results. Verify hardware performance and compatibility on the project configuration.

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01 | Agree measurable acceptance criteria

This guide provides methods and records, not unmeasured device performance. Configuration limits, design power and software simulation are not hardware ratings. Verify point scale, refresh, endurance, cellular, PoE load and recovery on the exact project configuration. |Metric|Define before testing|Evidence| |---|---|---| |Scale|Devices, protocols, points/device, type/length, serial ports and concurrent apps|Map revision plus exact hardware/software configuration| |Period/latency|Acquisition/report periods, source change rate, latency definition and agreed percentiles|Common clock, raw messages, method and sample count| |Correctness|Known values, type/order, scale/unit, tolerance and invalid-value policy|Same-period field-tool, gateway and platform comparison| |Reliability|Duration and agreed disconnect/timeout/loss/duplicate definitions and thresholds|Complete logs and message identity, not one online screenshot| |Resources|Actual CPU/memory/storage observation access, interval and method|Initial, steady and peak values; unavailable measurements stay unavailable| |Recovery|Allowed interruption and timestamps for last good data, failure, restored link and first valid service|Distinguish link, tunnel, application, current data and historical replay|

02 | Increase load in controlled stages

Stage	Action and expected behavior	Failure/rollback
P1	One device and one known read-only point; verify reads, messages and platform field	Do not expand until it passes; locate the first failed layer
P2	Increase points in agreed stages while keeping protocol, periods and platform logic fixed	Retain each baseline and revert one stage on failure while preserving evidence
P3	Fix point count, then vary period/change rate; measure samples, errors and latency	Do not equate reporting and sampling periods or hide tail timeouts behind averages
P4	Add real concurrent applications, VPN/cellular and platform load; run for the agreed duration	One owner per serial port; record resource growth, reconnects and receiver loss; untested concurrency is not promised
P5	Under that load perform approved restart/network recovery and verify service/data gaps	Restore the last successful baseline; do not disrupt the only remote path without local recovery

2.1 Define latency and loss correctly

End-to-end latency equals platform-available time minus sample time only when clocks are synchronized and sample timestamps are reliable. Otherwise record receiver intervals/observable recovery, not fabricated end-to-end latency. Use traceable source/adapter sequence numbers for loss statistics; repeated constant values alone cannot identify missing samples. Agree duplication, ordering and unsampled outage handling first.

03 | Measure recovery by layer

Test	Prerequisite/action	Pass/evidence
Ordinary reboot	Approved window, backup and on-site contact; use the supported reboot entry	Management, uplink, app and fresh valid data recover; record each timestamp
Network-only outage	Interrupt the confirmed data path; preserve PoE-PD power rather than unplugging its powered link	Failure is detected; reconnection and fresh data recover; record historical gaps separately
Failover/dual SIM	Verify each uplink first; SIM failover is not dual-modem concurrency	Record actual egress, tunnel, application session and first valid data
Configuration restore	Matching model/hardware/layout and approved backup; recoverable local access	Verify maps, certificates, flows and apps, not merely Web login
Firmware update	Select Factory reset after upgrade when the new firmware changes the configuration. Leave it unchecked for a program-only update with no configuration changes. A checked box resets settings; it does not retain them. Reconfigure after the reset and separately confirm whether an old backup is compatible.	Record model/hash/version, actual checkbox state, reconfiguration and application retest
Historical buffering/replay	Test only a delivered, specified replay solution with agreed sequence/capacity	Verify gaps, ordering, deduplication and storage; resumed current values are insufficient

04 | Mounting and accessory procurement

Mounting	Available procedure	Confirm before order/installation
DIN rail	Included DIN installation/removal guide; matching rear structure/accessory required	Housing, rail type, bracket part number, hole spacing, screw diameter/length, load and clearance
Ears/wall	Included mounting-ear guide; use actual side holes and matching ears	Included/optional ears, hole/screw data, wall/anchors and service/cable clearance
Band-clamp pole	Included pole guide; matching brackets/clamps, not an IP67 claim alone	Pole diameter/shape, clamp size/material, bracket holes, wind load and interface sealing
Power/wiring	Exact model input range/connector in its specification and quick start	Supply rating/polarity, plug version, terminal wire/crimp and grounding plan

The supplier/installer must provide torque, clamp diameter range, wire size, power budget and accessory part numbers. Without evidence, record confirmation in Forms/08_Installation_BOM instead of inventing generic values. The current 1010 packing omits a DIN option; that does not prove every rail adaptation is physically impossible.

4.1 Additional PoE and outdoor acceptance

Unit	Required distinction	Evidence
YZW1000	Separate 12–55 V device input from 52–55 V PSE; the included 12 V supply is not for PSE. 90 W/port and 720 W are design limits	Supply/cable ratings, PD negotiation, worst-case load and temperature; untested full load is not promised
YZW900	WAN uses 48 V af/at PoE PD; PSE is optional. This is not a separate 9–48 V DC unit	Powered link, actual PSE option, load and network-only outage method
YZW900L	9–48 V DC, no PoE input; restore sealing after internal RS485 service. DO is not serial	Seals/cable exits, antennas, DC polarity and post-install checks; no new IP-rating test is claimed

05 | Software checks and pending device acceptance

The included Local Software Check Results records only tools/flows actually executed in an isolated local environment. It does not connect PLCs/gateways or test cellular, RF, PoE or field wiring. Counts/results are generated from this run; real scale, endurance, recovery and load remain site measurements.

Use Forms/06_Performance_Test for load/statistics, 07_Recovery_Test for event times, 08_Installation_BOM for procurement/installation and 09_Support_Handover for the last successful and first failed stage. Templates do not pre-approve results.