

NuvoLinQ

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Migration Strategies: Moving to SPG.32 with Confidence

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As the industry shifts toward SPG.32, many IoT teams are asking the same question: *how do we move forward without putting existing deployments at risk?* Because SPG.32 is not backward compatible in most cases, the right approach isn't a quick swap—it's a planned, phased migration that aligns with your hardware refresh cycles and business priorities.

NuvoLinQ helps customers design and run these transitions so they can modernize, avoid vendor lock-in, and keep devices online throughout the journey.

Step 1: Audit Your Existing Deployment

A structured audit sets the foundation for a smooth migration.

- Inventory all devices in production and assess firmware maturity.
- Map current profile management flows — provisioning, activation, and retirement.
- Review infrastructure compatibility with SM-DP+, lifecycle management tools, and eIM (IoT Remote Manager) platforms.
- Confirm device communication protocols and verify they meet SPG.32 security and efficiency expectations.
- Flag legacy dependencies such as SPG.22 optimizations or SMS-based activations that may need to be replaced.
- Confirm orchestration readiness for IPA-based interaction between eIM, IPA, and SM-DP+.
- Validate fallback and failover mechanisms to ensure continuity of connectivity.

Step 2: Set Clear Migration Goals

Not every device will follow the same path:

- **Upgradeable Devices** — can move to SPG.32 through firmware updates.
- **Refactor-Required Devices** — need OS or firmware re-engineering.
- **Replace-Category Devices** — must be swapped for SPG.32-capable hardware.

Align your migration timeline with hardware lifecycles, SLAs, and operational priorities. Where it makes sense, take advantage of SPG.32's push-based management to simplify provisioning and reduce day-to-day friction for your operations team.

Step 3: Address Profile Management Pain Points

Before you move, document the challenges you're trying to leave behind, such as:

- Profile switching limitations and operator lock-in.
- Regional restrictions and policy constraints tied to older standards.

This makes it easier to measure the value of SPG.32 once pilots are in place.

Step 4: Ensure Infrastructure Compatibility

Your back-end must support both the "old world" and the "new world" during transition:

- Evaluate SM-DP+/SM-SR systems — SPG.32 does not work well with several SPG.22-specific optimizations.
- Validate support for new authentication and security mechanisms introduced under SPG.32.
- Confirm that orchestration platforms can manage mixed fleets (legacy and SPG.32) in one place.



Step 5: Verify Manufacturer & Module Support

OEM and module alignment is critical for success:

- Confirm that OEMs and module makers have published SGP.32 roadmaps and timelines.
- Validate firmware update paths or replacement requirements for each device family.
- Coordinate with vendors early — NuvoLinQ can assist with manufacturer engagement, test planning, and certification readiness.

Step 6: Run Controlled Pilots

Before you scale, prove it in the field:

- Launch small-scale pilots using SGP.32-ready devices across representative use cases and regions.
- Test profile management flows, backend integration, monitoring, and connectivity failover.
- Collect data, refine workflows, update playbooks, and then expand rollout with confidence.

Transitioning to SGP.32 isn't a flip of a switch — it's a managed program that touches devices, infrastructure, and vendors. Our recent work has reinforced a simple truth: no two wireless devices behave exactly the same under SGP.32, and assumptions can be expensive.

By following a structured approach — **Audit, Set Goals, Address Pain Points, Check Compatibility, Verify Vendors, and Pilot** — enterprises can de-risk the journey and build a future-ready platform for next-generation IoT.

Want to discuss your SGP.32 migration roadmap?

Reply to this eNewsletter or contact your NuvoLinQ representative to schedule a working session with our team.



Customer Spotlight: EcoTank x NuvoLinQ

EcoTank uses NuvoLinQ connectivity to keep its smart refill stations and EV infrastructure online in harsh North American winters.

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