



Rewriting the rules of IoT connectivity: inside the shift to SGP.32

The next phase of IoT is not being defined by devices alone – it is being shaped by how seamlessly those devices connect, adapt and scale across borders, networks and evolving business needs. For enterprises deploying connected solutions globally, the challenge has never simply been connectivity; it has been complexity.

The partnership between KORE and Kigen around the GSMA SGP.32 eSIM standard represents an important shift in how that complexity is addressed. Rather than introducing entirely new technology paradigms, SGP.32 refines and simplifies existing eSIM capabilities – making them more accessible, interoperable and aligned with real-world customer needs.

This evolution is less about technology disruption and more about removing friction. It is about enabling enterprises to focus on outcomes – operational efficiency, resilience and global reach – while the underlying connectivity infrastructure becomes more adaptive and easier to manage.

The customer challenge: Complexity at scale

For enterprises operating across multiple geographies, connectivity has historically been a balancing act. Traditional SIM-based deployments required upfront decisions

about carriers, regions and network strategies – often locking organisations into rigid models that struggled to keep pace with changing business conditions.

Even earlier eSIM standards, while transformative, introduced their own operational hurdles. Deploying and managing profiles could require significant technical dependency and orchestration, specialised infrastructure and coordination across multiple ecosystem partners.

As highlighted in industry discussions, previous standards often placed the burden of deployment and management on the customer, requiring them to navigate fragmented systems and workflows.

At the same time, the global landscape has become more dynamic. Regulatory shifts, regional requirements and geopolitical changes increasingly demand that enterprises adapt connectivity strategies in near real-time or expediently based on business logic. A static approach is no longer sufficient.

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Equally important, SGP.32 introduces a more flexible and interoperable framework. Instead of operating within closed ecosystems tied to specific providers, enterprises can now work across multiple eSIM management platforms and service providers

In this context, the true customer need is clear: simpler, more flexible connectivity that can scale globally without increasing operational overhead.

Simplifying what already works with SGP.32

The GSMA SGP.32 standard builds on the foundation of earlier eSIM specifications but introduces meaningful simplifications that directly address customer pain points.

One of the most significant changes is the removal of legacy architectural components – such as the subscription manager secure routing (SM-SR). Doing away with this reduces the complexity involved in provisioning and managing connectivity profiles. This streamlining makes profile delivery more efficient and lowers the technical barriers to adoption.

Equally important, SGP.32 introduces a more flexible and interoperable framework. Instead of operating within closed ecosystems tied to specific providers, enterprises can now work across multiple eSIM management platforms and service providers. This openness enables greater choice and adaptability, but it also requires stronger coordination across the ecosystem.

From a customer perspective, the value is not just technical - it is operational.

- Faster and simpler deployment of connectivity
- Greater flexibility in choosing and switching network providers
- Reduced dependency on complex backend infrastructure

In short, SGP.32 transforms eSIM from a powerful but sometimes complex capability

into a more accessible and scalable tool for global IoT.

The role of partnership: Why KORE and Kigen matter

Technology standards alone do not solve customer challenges; they clear the barriers that make solutions possible. Their success depends on how effectively they are implemented, integrated and supported across the ecosystem.

This is where the collaboration between KORE and Kigen becomes significant.

KORE, with its extensive experience in global IoT connectivity and orchestration, provides the operational layer that translates these technical capabilities into real-world outcomes. With a heritage rooted in direct carrier integrations and global connectivity management, KORE is positioned to help enterprises navigate the complexity of multi-network deployments.

Kigen, as a leader in secure eSIM and iSIM technology, brings deep expertise in enabling GSMA eSA certified eSIMs and GSMA SAS-certified remote SIM provisioning, and ensuring interoperability across devices and networks. Their role in advancing SGP.32 standard's architecture aligned with the broader industry push towards simplifying connectivity suited for IoT while maintaining robust security and scalability.

Together, the partnership reflects a shared focus: making advanced connectivity capabilities usable, manageable and valuable for customers through shared expertise.



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Interoperability as a customer imperative

One of the defining characteristics of SGP.32 is its emphasis on interoperability. Unlike earlier models that often operated within closed loops, the new standard enables multiple eSIM management providers to coexist and interact.

While this introduces new opportunities, it also underscores the importance of coordination. Enterprises must ensure that devices, modules, networks and management platforms work together seamlessly.

As industry experts note, the success of SGP.32 depends not just on the technology itself, but on how well ecosystem partners collaborate to provide clear documentation, testing frameworks and integration support.

For customers, this translates into a critical requirement: confidence that their entire IoT stack – from hardware to connectivity management – will operate cohesively.

This is where experienced partners play a crucial role. By guiding customers through testing, validation and deployment, they help ensure that the promise of interoperability becomes a practical reality.

From fragmentation to visibility: The single pane of glass

As IoT deployments scale, another challenge emerges: visibility.

Enterprises often manage devices and connectivity across multiple regions, carriers and platforms. Without a unified view, operational efficiency suffers, and decision-making becomes more complex.

SGP.32, combined with orchestration capabilities from providers like KORE, enables a shift toward centralised management

across the enterprise device estate. The concept of a single pane of glass becomes increasingly important – allowing customers to monitor, manage and optimise their entire connectivity estate from one interface.

This approach addresses a fundamental customer need: simplicity in management, even as complexity grows underneath.

Rather than logging into multiple systems or coordinating across disparate providers, enterprises gain a consolidated view of their operations. This not only improves efficiency but also enhances control and strategic insight.

Globalisation, localisation and resilience

The global nature of IoT is both an opportunity and a challenge. Enterprises operating across dozens of countries must navigate varying regulatory environments, network requirements and market conditions.

In this context, SGP.32 enables a critical capability: dynamic localisation. Instead of relying solely on roaming agreements, enterprises can provision local connectivity profiles as needed – often instantly. This allows devices to operate more efficiently within specific regions while maintaining global consistency.

The importance of this capability is growing. As geopolitical and regulatory dynamics evolve, the ability to adapt connectivity strategies quickly becomes essential. Enterprises can no longer rely on static models; they need solutions that can respond to change in real-time. ►



For multinational organisations, this is no longer optional. As noted in industry discussions, ability to utilise advanced eSIM capabilities is becoming table stakes for global operations.

Technology as an enabler, not the endpoint

A key theme in the evolution of SGP.32 – and in the KORE and Kigen partnership – is the idea that technology should serve the customer, not the other way around.

The goal is not to introduce complexity in the name of innovation, but to remove barriers that prevent customers from achieving their objectives.

This perspective reframes the role of connectivity in IoT:

- It is not just about connecting devices
- It is about enabling business outcomes
- It is about supporting agility, resilience and growth

By simplifying profile management, enhancing interoperability and enabling centralised control, SGP.32 allows enterprises to focus on what matters most: delivering value through their connected solutions.

The path forward: Collaboration across the ecosystem

The success of SGP.32 and the broader evolution of IoT connectivity – depends on collaboration. Device manufacturers, module providers, network operators and eSIM solution providers must work together to ensure compatibility, standardisation and ease of use. Clear documentation, robust testing and shared best practices will be essential.

Encouragingly, the industry is already moving in this direction. Module manufacturers are developing solutions that better support

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profile transactions and ecosystem partners are aligning around common standards and frameworks.

For customers, this collaborative approach reduces risk and accelerates adoption. It creates an environment where innovation can flourish without being hindered by fragmentation or uncertainty.

A customer-centric evolution

The partnership between KORE and Kigen around SGP.32 is not just about advancing eSIM technology – it is about redefining how connectivity supports the modern enterprise.

By focusing on simplification, interoperability and scalability, this collaboration addresses the real challenges faced by global IoT deployments. It enables organisations to move beyond the constraints of traditional connectivity models and embrace a more flexible, resilient approach.

Ultimately, the value of SGP.32 lies in what it enables:

- Seamless global operations
- Adaptive connectivity strategies
- Simplified management at scale

In a world where change is constant and complexity is inevitable, the ability to simplify and adapt becomes a competitive advantage. And that is where the true impact of this partnership is felt – not in the technology itself, but in the outcomes it makes possible for customers. ■

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