

EU Data Sovereignty & BSI C5 Compliance

How IsoCells enforce jurisdictional control through architecture

Sheraz Bhatti, Global CTO - Forge.io

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Executive Summary

European data sovereignty frameworks have evolved beyond residency requirements. Regulators now distinguish between where data is stored and who can access, influence, or compel that data under law. BSI C5 reflects this shift. Compliance requires demonstrable control over operational access paths and administrative authority, particularly where third-country laws may apply to infrastructure operators.

IsoCells address this requirement by enforcing sovereignty at the execution boundary rather than the contractual boundary.

Jurisdiction-Locked Compute

Each IsoCell is a physically anchored, jurisdiction-locked compute domain. Jurisdiction binding is enforced at the hardware layer, not through software configuration or policy declaration. Control planes are region-scoped by design. Administrative access paths terminate within the same legal jurisdiction as the workload. There is no reliance on transnational orchestration or globally privileged operators.

Data residency is enforced structurally, not procedurally. Workloads cannot be migrated, replicated, or accessed outside their designated jurisdiction because the infrastructure does not expose mechanisms to do so.

Architectural Guarantees

- Hardware-layer jurisdiction binding - Not software configuration. Not policy declaration.
- Region-scoped control planes - Administrative authority terminates within the legal jurisdiction.
- No transnational orchestration - No globally privileged operators. No cross-border admin paths.
- Structural data residency - Migration and replication outside jurisdiction is architecturally impossible.

BSI C5 Control Mapping

OPS-01: Operational processes - Local control plane, jurisdiction-scoped OPS-05: Change management - No cross-border orchestration IDM-01: Identity management - Admin paths terminate in-jurisdiction COS-01: Cryptographic controls - Hardware-bound, jurisdiction-locked PSS-05: Physical security - Structurally enforced residency

Conclusion

From a BSI C5 perspective, IsoCells satisfy the requirements for control, transparency, and jurisdictional integrity by reducing reliance on trust and increasing reliance on architecture.

Sovereignty is not asserted. It is enforced.