

SAR Handoff Contract Spec (v1.0)

This document defines the interface for handing off roadmap and intake data from **Strategic AI Roadmaps (SAR)** to **SirsiNexusApp**.

1. Primary Data Models (Sirsi Canonical)

Sirsi's input expectations are derived from the following internal definitions:

Component	Sirsi File Reference	Key Data Structure
Infra Engine	ai_infrastructure_service.rs	InfrastructureRequest
Optimization	ai_optimization_service.rs	OptimizationRequest
Compliance	soc2.rs	Soc2Control
gRPC Interface	sirsi_interface.proto	SirsiRequest

2. Input Points & Engines

Sirsi consumes handoff data at these identified points:

A. Infrastructure Planning

- **Target:** `AIInfrastructureService::generate_infrastructure`
- **File:** [ai_infrastructure_service.rs:L119](#)
- **Expectation:** A high-level description with strict performance and security tiers.

B. Risk & Hardening

- **Target:** `SirsiPersonaService::execute_supreme_decision`
- **File:** [sirsi_persona.rs:L319](#)
- **Expectation:** Contextual data that can be processed by the `DecisionEngine` to produce a `RiskAssessment`.

C. Compliance Validation

- **Target:** `Soc2ComplianceManager::perform_control_assessment`
- **File:** [soc2.rs:L216](#)

- **Expectation:** Control IDs and evidence data to run automated checks (e.g., `rbac_validation`, `encryption_compliance`).
-

3. Handoff Contract Schemas

A. Minimal JSON Schema (v0)

Purpose: Immediate stateless verification/risk scoring.

```
{  
  "$schema": "http://json-schema.org/draft-07/schema#",  
  "title": "SirsiHandoff_v0",  
  "type": "object",  
  "required": ["description", "cloud_provider", "security_level"],  
  "properties": {  
    "description": { "type": "string", "description": "Human-readable roadmap/intent" },  
    "cloud_provider": { "enum": ["AWS", "Azure", "GCP", "Kubernetes"] },  
    "security_level": { "enum": ["Basic", "Enhanced", "Maximum", "Compliant"] },  
    "performance_tier": { "enum": ["Basic", "Standard", "Premium", "Enterprise"], "default": "Standard" },  
    "budget_limit": { "type": "number", "minimum": 0 }  
  }  
}
```

B. Full JSON Schema (v1)

Purpose: Rich integration including telemetry patterns and compliance mapping.

```
{
```

```
"$schema": "http://json-schema.org/draft-07/schema#",  
  
"title": "SirsiHandoff_v1",  
  
"type": "object",  
  
"required": ["project_id", "layers"],  
  
"properties": {  
  
    "project_id": { "type": "string" },  
  
    "infrastructure": {  
  
        "type": "object",  
  
        "properties": {  
  
            "description": { "type": "string" },  
  
            "compliance_requirements": { "type": "array", "items": { "type": "string" } },  
  
            "scaling": {  
  
                "type": "object",  
  
                "properties": {  
  
                    "min_instances": { "type": "integer" },  
  
                    "max_instances": { "type": "integer" },  
  
                    "load_balancing": { "type": "boolean" }  
  
                }  
  
            }  
  
        }  
  
    },  
  
    "telemetry_expectations": {
```

```

    "type": "object",

    "properties": {

        "avg_response_time_ms": { "type": "number" },

        "throughput_rps": { "type": "number" },

        "availability_target": { "type": "number", "maximum": 1 }

    }

},

"metadata": { "type": "object", "additionalProperties": { "type": "string" } }

}

}

```

4. Ninkasi Sample Payload (v1)

Derived from a realistic SAR-to-Sirsi transition for a high-availability backend (Ninkasi implementation).

```

{
    "project_id": "sar_ninkasi_99",

    "infrastructure": {

        "description": "High-availability financial ledger for Ninkasi brewery ecosystem.",

        "cloud_provider": "AWS",

        "security_level": "Maximum",

        "performance_tier": "Premium",

        "compliance_requirements": ["SOC2_CC6.1", "GDPR_ART32"],

        "scaling": {

```

```

    "min_instances": 3,
    "max_instances": 12,
    "auto_scaling": true,
    "load_balancing": true
  }
},
"telemetry_expectations": {
  "avg_response_time_ms": 150.0,
  "throughput_rps": 500,
  "availability_target": 0.999
},
"metadata": {
  "sar_tenant": "Bright Focus Marketing",
  "risk_profile": "High_Integrity"
}
}

```

Assumptions: SOC2_CC6.1 is mapped internally by Sirsi to Logical Access controls.

5. SAR to Sirsi Mapping Table

SAR Concept	Sirsi Concept	Implementation Mapping
Roadmap Step	ActionStep	sirsi_persona.rs:L163

SAR Concept	Sirsi Concept	Implementation Mapping
Tenant Profile	ProjectSettings	schema.prisma:L37
Risk Assessment	RiskAssessment	sirsi_persona.rs:L173
Goal	OptimizationGoal	ai_optimization_service.rs:L77
Performance target	PerformanceMetrics	ai_optimization_service.rs:L55