1. Concept Design
We analyse our Client’s requirements and evaluate feasible alternatives as dictated by the client to produce a report with alternative solutions.

2. Schematic Design
On approval of concept design, we prepare a schematic design package that budgets for the complete system’s installation.

3. Detailed Design
On approval of schematic design, we commence detailed design and at the end of this stage, all documents are complete including tender drawings and specifications.

4. Tender Documents
On approval of detailed design, we collate all documentation necessary for tendering, including specifications, schedules and bills of quantities.

5. Site Supervision
During this stage, we ensure that all works relating to Si’s scope are constructed in accordance with the tender documents.

AT A GLANCE
The operational efficiency of all transport hubs for either the end user or the operator is enhanced with the use of dedicated IT and ELV systems. An airport cannot function without an integrated array of airport systems such as flight information display systems, check-in systems and airport management systems.

Si has a dedicated team specialising in the design, coordination and integration management of SAS and airport related ELV systems. We engage with clients, operators and contractors by assisting them with the delivery of a complex array of systems to achieve and integrate stakeholder objectives.
DATA SHEET
SPECIAL AIRPORT SYSTEMS (SAS) DESIGN
Advanced Engineering Services

DESIGNING FOR SMARTER INFORMATION
FLOW ACROSS AIRPORT SITES

SMARTER AIRPORT:
• Instrumented
• Interconnected
• Intelligent

INTEGRATED CROSS SITES:
• Seamless real-time information
• Automated workflows
• Adaptable and evolving

Key
- ATC
- Handling Agent
- Typical Choke Point
- Airline
- Airport
KEY AIRPORT PROJECTS

Abu Dhabi Midfield Airport Complex
Client: ADAC
Services: Airport Wide ICT Infrastructure Consulting
Design consultancy services for the airport side ICT Infrastructure, Network and Equipment. Scope includes: redundant fibre optic campus cables and nodes – passive & active networking, integration and availability/continuity and capacity planning.

Abu Dhabi Airport Terminal 1
Client: Abu Dhabi Airport Company
Services: ICT Consulting
Design of passive & active networks to support the airport's operational systems from arrivals to departures, through to back of house facilities. Included WAN, LAN & computer equipment network design, technical room design & integration with the airport's systems, management, supervision & integration.

Dubai International Airport, Concourse 3
Client: Dubai Airport
Services: Security, ICT & AV Design & Consulting Services
Design of all Data Centre Technical Rooms. We acted as lead engineer for all airport systems. These included structured cabling, wifi, data, flight information display systems, security and all related systems for this dedicated A380 terminal.

Muscat & Salalah Airports
Client: Muscat International Airport
Services: Airport Systems Integration Management
Si acted as the Integration Manager for the air traffic control and data centres for Muscat and Salalah Airports. This was a highly complex project involving multi-agency representatives as well as multiple technologies requiring integration.

New Doha International Airport – ELV System Peer Review
Client: NDIA
Services: Peer Review of the ELV Systems for the Training Centre
Si we appointed to review all the active and passive IT systems which included physical and electronic as well as AV systems. Si prepared a comprehensive report which detailed the gap analysis and comprised a set of recommendations.

Dubai International Airport – penetration testing for airport wide network
Client: Dubai Civil Aviation Authority
Services: Penetration Testing for Airport Wide Network
Si performed a detailed security penetration test on all airport systems including data, wifi, baggage handling and voice systems. A comprehensive report was compiled which included the risks and the threats posed to the current network as well as the mitigation recommendations to secure the network.