



SNC • LAVALIN



Oil & Gas

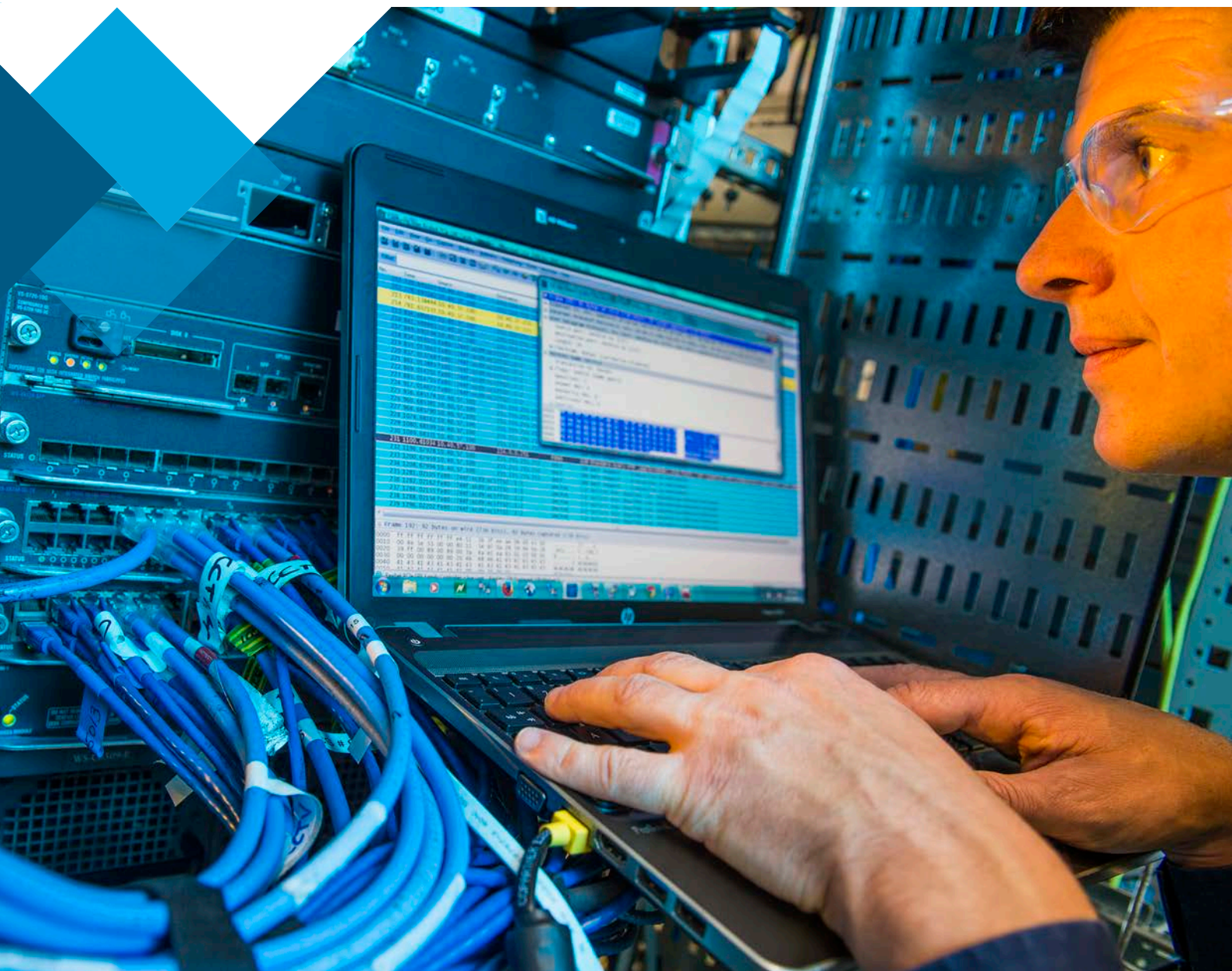
Building what matters

Telecommunications and electronics



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Specialist technical competence

With more than 30 years of extensive global experience across a variety of telecoms systems and their integration, SNC-Lavalin has been successfully providing complex telecommunications and electronic capabilities to our clients across the world.

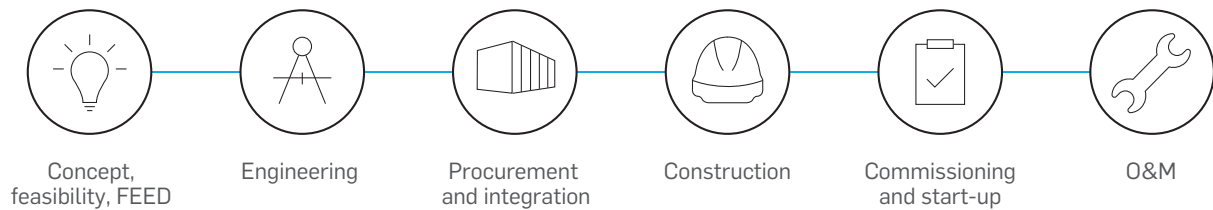
Our teams offer outstanding services across the life cycle of greenfield and brownfield sites - from advanced telecoms systems for pioneer camps to temporary systems for site establishment and construction phases, and permanent systems for the operating life of a plant, building or facility.

Our services

<p>INFORMATION COMMUNICATION TECHNOLOGY (ICT)</p>	<ul style="list-style-type: none"> > Data Wide Area Network (WAN)/Local Area Network (LAN) > Wireless LAN > Internet Protocol (IP) telephony > Supervisory Control and Data Acquisition (SCADA) 	<ul style="list-style-type: none"> > Servers > Video conferencing > Integrated network and control systems management (INMS & ICS) > Systems security and authentication
<p>RADIO FREQUENCY (RF)</p>	<ul style="list-style-type: none"> > Ultra High Frequency (UHF) Tetra Radio > Very High Frequency (VHF) marine and aviation radio > WiMax > WiFi 	<ul style="list-style-type: none"> > Microwave > Telemetry > Dispatching > Very Small Aperture Terminal (VSAT)
<p>LIFE, SAFETY AND SECURITY</p>	<ul style="list-style-type: none"> > Closed-circuit television (CCTV) > Area lighting > Access control > Building and fence intrusion detection > Mustering 	<ul style="list-style-type: none"> > Global positioning system (GPS) tracking > Public Announcement / General Alarm (PAGA) > Siren > Fire detection > Man down > Panic alarms
<p>MARINE SYSTEMS</p>	<ul style="list-style-type: none"> > Meteorological sensors > Oceanographic sensors > Vessel piloting and berthing > Ship to Shore Links (SSL) > Radar 	<ul style="list-style-type: none"> > Safety of life at sea (SOLAS) > Non-directional beacon (NDB) > Weather warning > Gyro-stabilised equipment
<p>INFRASTRUCTURE SERVICES</p>	<ul style="list-style-type: none"> > Fibre optic and copper backbone cabling > Structured cabling > Equipment cabinet design and assembly > Electrical distribution and earthing > Uninterruptible Power Supplies (UPS) 	<ul style="list-style-type: none"> > Power and space integration > Generators > Heating, Ventilation, and Air Conditioning (HVAC) and Building Management Systems (BMS) > Tower and poles > Structural and civil design
<p>LIFESTYLE</p>	<ul style="list-style-type: none"> > Master Antennae Television (MATV) > Entertainment Systems 	<ul style="list-style-type: none"> > Timetable systems > Internet services, digital information systems and signage

Turnkey solutions

We offer a single source solution for all our clients' telecoms needs. Through our extensive experience we have the ability to adapt to rapidly changing environments and provide exactly what the end user needs to operate successfully. In addition to offering fully designed turnkey solutions, we can deliver service specific scopes of work, as outlined below.

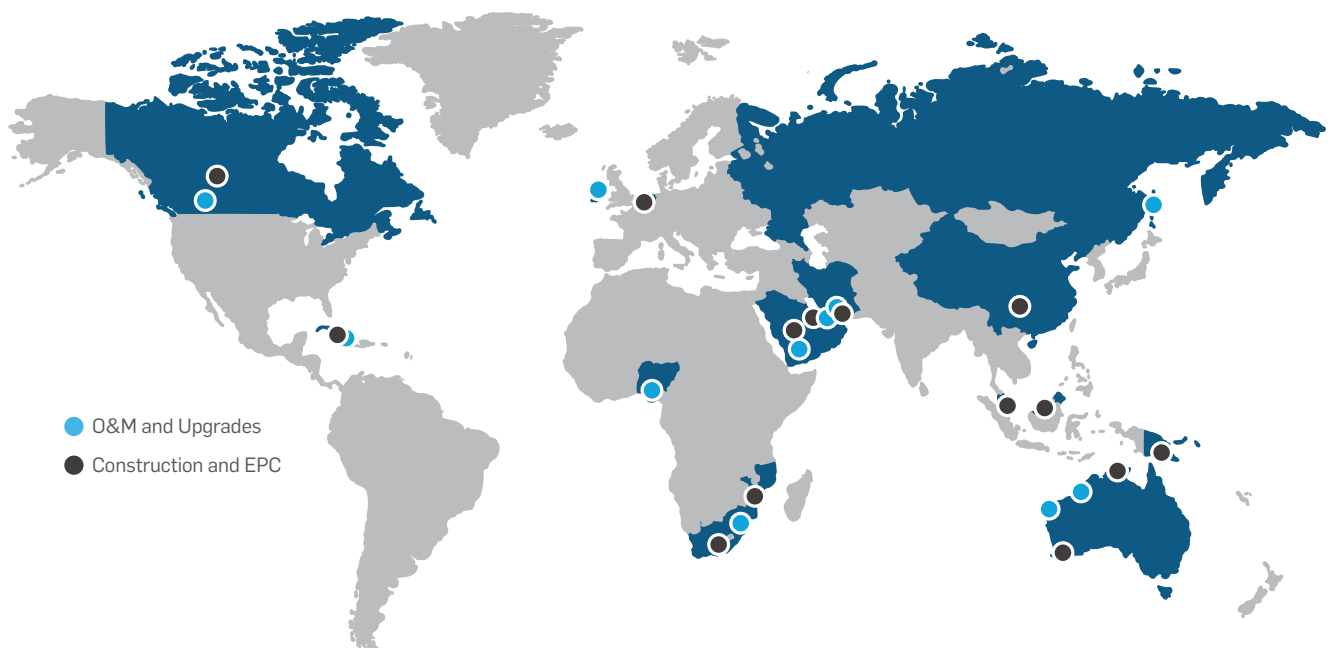


Technology systems integration

We specialise in the integration of many different telecoms systems from multiple vendors into a unified, fit-for-purpose solution. At the same time, we help clients manage all regulatory, technical, scheduling and ongoing interface requirements, including ensuring users are trained and able to operate the solutions with maximum efficiency.

Global expertise, delivered locally

Supported by world class engineering and staging facilities, our dedicated regional team, coupled with our global network, deliver turnkey integrated telecoms solutions for a wide variety of operational requirements regardless of size, location or complexity.



A variety of telecommunications applications.

Expertise at a glance



Gorgon Project (Australia)

Operator: Chevron Australia Pty Ltd.

Description: Engineering, Procurement and Construction (EPC) and Operations & Maintenance (O&M) contract for temporary and permanent facilities developing, delivering and maintaining 30 individual packages, including a cyclone rated 120m guyed mast. These systems were assembled and integration tested at our off-site staging and integration centre in Perth prior to being shipped to Barrow Island.



RADAR based Security Surveillance System

Client: Confidential

Description: EPC contract to design and implement a security surveillance system consisting of marine and land radars, thermal imaging cameras and automatic identification system to monitor port approaches from land and sea. Included full integration with existing command and control center as well as access for national security authorities.



Kearl Oil Sands (Canada)

Client: Imperial Oil

Description: Site wide telecommunications integration and maintenance package. Systems include the public address/ general alarm, security and surveillance, business LAN, Voice over Internet Protocol (VoIP) telephony, trunked radio and fibre optic backbone network to support the Integrated Control Safety Systems (ICSS).



Aviva Stadium (Ireland)

Client: Lansdowne Road Development Company

Description: Engineering, Procurement, Installation and Commissioning (EPIC) and testing for electrical, telecommunications and security systems for a 50,000 seat stadium and conference centre. A total telecommunications solution including converged network services (data, audio/visual & entertainment), integrated safety & security systems, TV broadcast & press systems and more.



Ichthys Onshore LNG Facilities (Australia)

Operator: Inpex Corporation

Client: JKC Australia LNG

Description: EPC temporary telecommunications contract, delivering a 50km fibre optic backbone supporting 15 integrated telecommunications packages including radio networks, business voice and data, security monitoring and management, meteorological monitoring and point-to-point wireless solutions.



Dukhan Wellhead SCADA and Cathodic Protection (Qatar)

Client: Qatar Petroleum (QP)

Description: Full turnkey solution to implement digital oilfield technology in order to provide data acquisition and monitoring of wellhead integrity, including Cathodic Protection for 775 well sites across a wide geographic area measuring 1,700sq km. All data is relayed in real time to the central control system for monitoring.