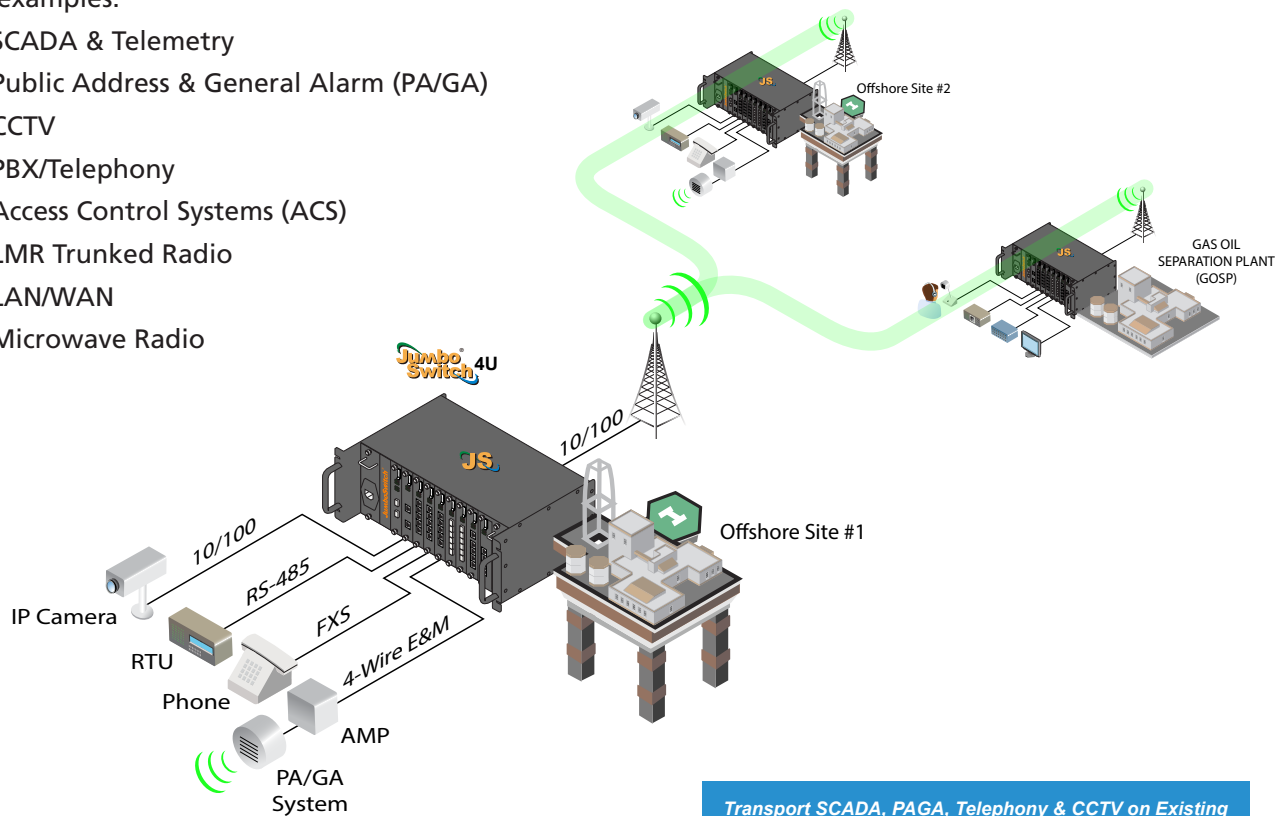# Oil & Gas
Application Overview

Maintain critical communications and connectivity to common Oil & Gas industry applications such as SCADA, telemetry, access control, radio & PBX/telephony. Utilizing multi-service Ethernet capability, the JumboSwitch® guarantees that legacy applications can be preserved or expanded in the future.

JumboSwitch and SCADA Systems

The JumboSwitch provides the security, redundancy and industrial hardened capability that is so often critical to oil and gas applications. Here are some examples:

- SCADA & Telemetry
- Public Address & General Alarm (PA/GA)
- CCTV
- PBX/Telephony
- Access Control Systems (ACS)
- LMR Trunked Radio
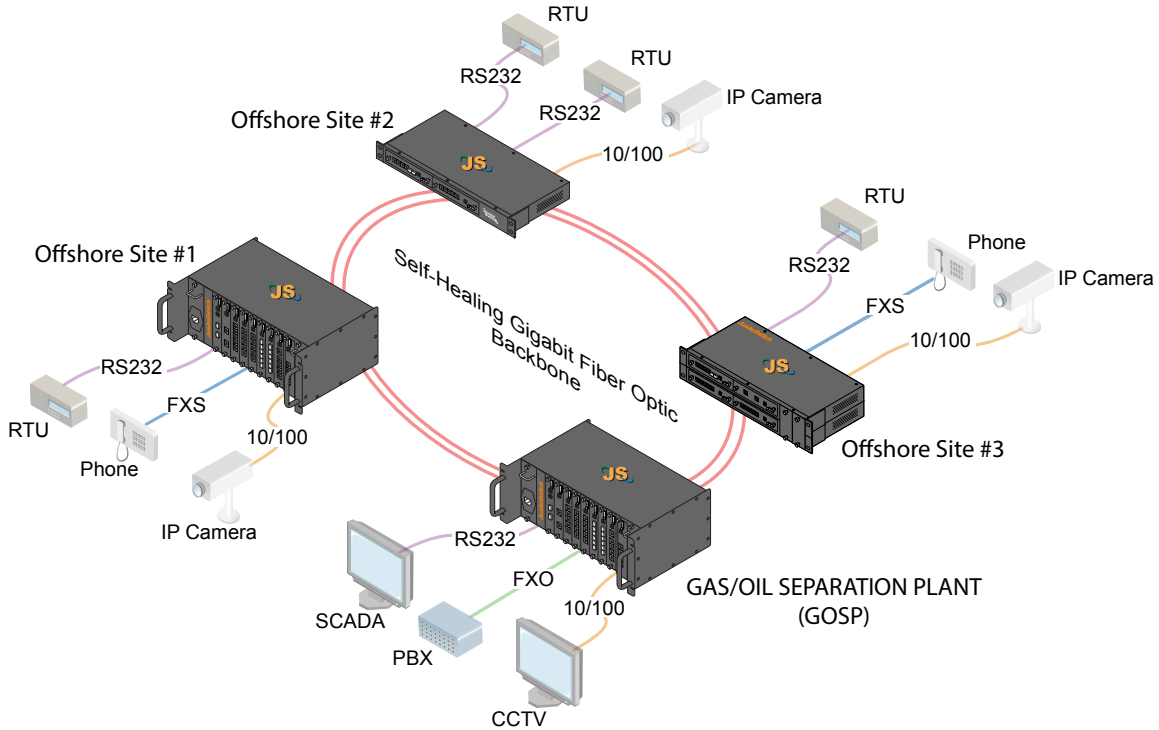- LAN/WAN
- Microwave Radio

Offshore Site #2

GAS OIL SEPARATION PLANT (GOSP)

Jumbo Switch® 4U

10/100

Offshore Site #1

IP Camera

10/100

RS-485

RTU

FXS

Phone

4-Wire E&M

AMP

PA/GA System

Transport SCADA, PAGA, Telephony & CCTV on Existing Microwave Network using JumboSwitch®

Moreover, the JumboSwitch's modular design offers users the flexibility to pay as they grow; its VoIP and TDM-over-IP capability (10/100/1000 Ethernet, Fiber, T1/E1, 2/4-Wire E&M, RS-232, RS-485, etc.) gives users the ability to expand their communications networks as needed in the future.
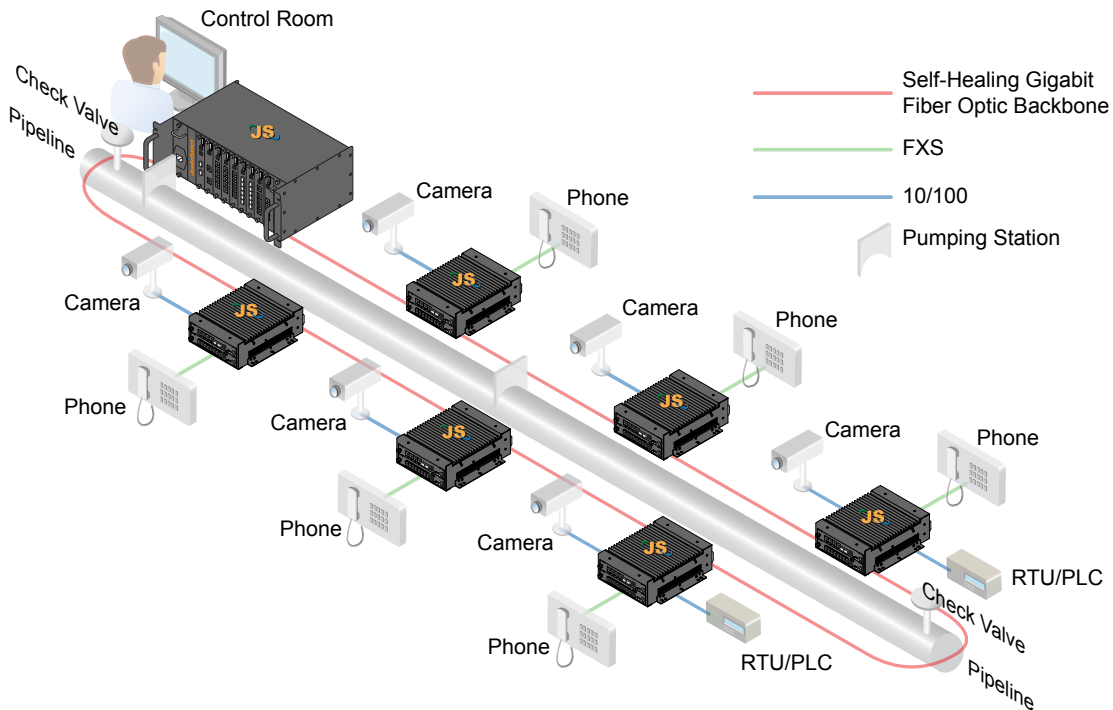
Multi-Service Ethernet

As a Multi-Service Ethernet Platform (MSEP), the JumboSwitch provides unequaled IP-Based Ethernet, Voice and Data integration. It is a highly efficient networking solution for the oil, gas and petrochemical industries.

Transport SCADA, Telephony & CCTV on Redundant Fiber Network Using JumboSwitch

Pipline Monitoring & Control Application Using JumboSwitch

The JumboSwitch is available in a full Industrial hardened version that ensures reliable operation in the event of wide temperature swings, electromagnetic interference (EMI), radio interference, vibrations, or moisture and humidity fluctuations. Conformal coating is optional. TC's Engineering Department features a variety of sophisticated testing equipment to verify that its Industrial Grade products meet the most demanding environmental and EMI requirements.

For Over 20 Years!
Designed & Made in USA