While the digital oil field is not a new concept, aging infrastructure and new security risks provide a greater opportunity to mobilize field operations even more and integrate digital as the core strategy behind upstream oil & gas applications.

From exploration, extraction and production, to metering, storage and export, to man camps, offshore platforms and more—integrated, digital technology will provide vast improvements in oil & gas areas. For example, improvements in securing the health and safety of sites and its employees; in how data is collected, processed and measured from the oil field; in operational productivity and efficiencies; and in the ongoing transition of traditional oil and gas companies becoming the global energy providers of tomorrow.

At Siemens, we address the security needs of your upstream applications through integrated digital technologies and security platforms that enable infrastructure-wide transparency and integrity through centralized monitoring and control, local and remote diagnostics, intersystem connectivity, and advanced analytics. Our consultative approach to tailor life safety and security solutions to upstream applications means your employees remain safe and secure—no matter the location.

This document provides you the detail you need on Siemens Smart Infrastructure’s security portfolio that is ready to serve you today and for decades into the future. From perimeter security, to access control, real-time people and asset tracking, incident and danger management, and more, here are the solutions that will help you to create your perfect place to source and deliver energy.

Solutions/Products for Man camps, offshore platforms, metering storage and export

Perimeter Security

Intrusion – partnerships

Video analytics and video detection
Laser based detection - for highly secured location/areas

Video surveillance

Siveillance VMS
- Single Server
  - Siveillance VMS100: supports over 100 cameras, single location
  - Siveillance VMS200: supports over 50 cameras, monitoring wall with multiple locations, redundancy
- Federated Servers
  - Siveillance VMS300: supports over 50 cameras, dual verification, retention times evidence log, specific use case features

IP cameras

AXIS (IP, Edge-based analytics, thermal)
BOSCH (IP, Edge-based analytics)
FLIR (Thermal)

SiPass Integrated:

Start package – 16 doors (ticketed), 1,000 cards, mustering
Regular package – 24 doors baseline (open), 5,000 cards, Feature sets: graphics, photo IDs, mustering
Premium package – 32 doors baseline (open), 10,000 cards – mustering
Corporate – 128 doors baseline (open), 25,000 cards, feature sets, visitor management, guard tours

License Plate Recognition

Card readers – cards and biometric

Voice Communications/Intercom

Wireless Locks

Mobile Credentials

Access Control

SiPass Integrated:

Starter package – 16 doors (ticketed), 1,000 cards, mustering
Standard package – 24 doors baseline (open), 5,000 cards, Feature sets: graphics, photo IDs, mustering
Premium package – 32 doors baseline (open), 10,000 cards – mustering
Corporate – 128 doors baseline (open), 25,000 cards, feature sets, visitor management, guard tours

License Plate Recognition

Card readers – cards and biometric

Voice Communications/Intercom

Wireless Locks

Mobile Credentials

EHS

Body cameras (EDDESIX)

Access Control

License Plate Recognition

Perimeter security

Intrusion
- Automatic Identification System (AIS) – boat/ship identification, marine traffic control

Incident and danger management (based on the customer application and requirements policies and procedures)

Siveillance Viewpoint - 5 dedicated clients, 50,000 data points, 2,500 cams, and 5,000 doors
Siveillance Vantage – supports over 5 dedicated clients MNS (including Audio and Visual annunciation)
Shooter Detection

EHS

Body cameras (EDDESIX)

Optimize Performance and Productivity

Optimization Planning
- System Performance Assessment & Strategy

Synergistic & Impact

- Manage System Operation & Compliance
  - Facility Assessment and Planning
    - Maintenance Planning & Scheduling Support
    - Physical Security Assessment
    - Security Compliance and Policy Planning
  - Test & Inspection
    - Test & Inspection – Security
  - Preventive Services
    - Calibration Services
    - Data Backup and Restore Services
    - Network Maintenance
    - Preventive Maintenance – Security
    - Preventive Maintenance – System / Other
  - Documentation Management
    - Performance Reporting
    - System Documentation Management and Update
  - Corrective Services
    - Online/Phone Responsive Services
    - Onsite Responsive Services
    - Repair & Replacement Services – Labor & Materials
    - Spare Parts Inventory Management

- Protect Lifecycle Investment
  - Technology Planning
    - Lifecycle Planning
  - System Update & Management
    - System Updates / Upgrades
    - Firmware Updates
    - Software Updates
  - System Migration / Modernization
    - Server and Client Station Workstation Upgrades
    - Technology Migration
  - Retrofits & Extensions
    - System Retrofit and Extension Services
    - New Installation Services

Advisory and performance services for oil, gas and petrochemical upstream operations