



SENTOSA ERP

ENTERPRISE RESOURCE PLANNING



POWERING INTELLIGENT
ENTERPRISES

INTEGRATED • INTELLIGENT • INNOVATIVE

ONE PLATFORM. CONNECTING EVERY OPPORTUNITY.



FINANCE



SUPPLY CHAIN



CRM



MANUFACTURING



GLOBAL TRADE



COMPLIANCE



AI & AUTOMATION



BLOCKCHAIN

THE COMPREHENSIVE REPORT ON
**ENTERPRISE DIGITAL OPERATIONS,
FINANCIAL INFRASTRUCTURE &
INTELLIGENT BUSINESS MANAGEMENT PLATFORM**

ONE VISION. ONE SYSTEM. ENDLESS POSSIBILITIES.



SENTOSA ENTERPRISE RESOURCE PLANING

For the best reading experience of this 208-page PDF, we recommend enabling “Two-Page View” or “Facing Pages” in your PDF reader. This makes the document easier to read and navigate, especially on larger screens and tablets.

Sentosa ERP was created with a simple vision to help businesses operate with greater clarity, efficiency, and confidence in a rapidly evolving digital world.

More than just software, Sentosa ERP is an integrated enterprise platform designed to connect operations, finance, supply chains, compliance, and decision-making into one intelligent ecosystem. By simplifying complex business processes, we empower organisations to focus on growth, innovation, and long-term success.

Whether serving small enterprises, expanding regional businesses, or global organisations, Sentosa ERP delivers the flexibility, transparency, and reliability required for modern enterprise management.

At the heart of every successful business lies the ability to adapt, organise, and lead.

PROLOGUE

Modern enterprise is no longer defined solely by products or services, but by the ability to manage information, operations, and decision-making with clarity, precision, and efficiency. As organisations continue to expand across markets, supply chains, and digital environments, the demand for intelligent and connected management systems has never been greater.

Across industries, businesses are navigating increasingly complex operational challenges. Financial oversight, procurement, inventory management, regulatory compliance, customer engagement, and strategic planning must now function together seamlessly in order to maintain competitiveness within a rapidly evolving global economy.

Yet many organisations still rely upon fragmented processes, disconnected departments, and outdated systems that limit visibility and reduce operational efficiency. These challenges not only slow growth, but also create barriers to innovation, collaboration, and long-term sustainability.

Sentosa ERP was developed with a different philosophy.

By integrating critical business operations into a centralised ecosystem, organisations are empowered to make informed

decisions, improve productivity, and respond more effectively to changing market conditions.

From finance and procurement to logistics, compliance, reporting, and enterprise resource planning, Sentosa ERP enables businesses to operate with greater transparency, agility, and confidence.

At its core, Sentosa ERP reflects a commitment to intelligent enterprise management — combining modern technology with practical business functionality to deliver solutions that are efficient, adaptable, and future-ready.

In an increasingly connected world, successful organisations require more than software. They require systems capable of supporting innovation, improving operational resilience, and enabling leadership through clarity and insight.

The following pages present the vision, capabilities, and principles that define Sentosa ERP and the role it plays in supporting the next generation of enterprise transformation.

SENTOSA ERP

ENTERPRISE DIGITAL OPERATIONS

*Financial Infrastructure &
Intelligent Business Management
Platform*

Sentosa ERP, also known in Thailand as Phraya Nak ERP, is a next-generation enterprise resource planning and digital business platform designed to support modern organisations operating across finance, logistics, manufacturing, international trade, customer relationship management, compliance, digital commerce, and intelligent enterprise automation.

More than a traditional ERP system, Sentosa ERP functions as a fully integrated operational ecosystem capable of connecting business processes, financial systems, supply chains, digital services, APIs, artificial intelligence

infrastructures, blockchain technologies, and global trade operations within one unified enterprise environment.

Designed for scalability, operational transparency, and future digital transformation, the platform enables organisations to centralise operations whilst maintaining the flexibility required for regional and international business environments.

Sentosa ERP combines:

- Enterprise Resource Planning
- Customer Relationship Management
- Supply Chain & Logistics Management
- Financial & Banking Integration
- AI & Automation Services
- Blockchain & Digital Asset Infrastructure
- Manufacturing & Warehouse Operations
- Compliance & Governance Systems
- International Trade Connectivity

into a modular enterprise architecture capable of supporting both emerging businesses and multinational operations.

GLOBAL & REGIONAL POSITIONING

While internationally recognised as Sentosa ERP, the platform is also deployed in Thailand under the name Phraya Nak ERP, reflecting its regional adaptation for ASEAN business ecosystems, multilingual operations, digital financial infrastructures, and international trade environments.

The platform has been specifically designed for:

- International businesses
- ASEAN trade operations
- Manufacturing environments
- Logistics and shipping organisations
- Financial ecosystems
- Government-linked operations
- Digital commerce platforms
- Blockchain-enabled enterprise infrastructures

Its multilingual and multi-regional architecture enables organisations to operate globally whilst supporting local operational requirements and regulatory frameworks.

MODULAR & SCALABLE ENTERPRISE ARCHITECTURE

One of the defining strengths of Sentosa ERP is its highly modular and scalable architecture.

Organisations may activate only the operational components required whilst maintaining:

- Unified database environments
- Centralised security governance
- Shared operational workflows
- Integrated reporting systems
- Cross-module automation
- Enterprise-wide visibility

This approach allows businesses to scale progressively from smaller operational deployments to highly sophisticated enterprise infrastructures without changing platforms or disrupting operational continuity.

The architecture has been designed to support long-term digital transformation strategies whilst providing the

ASEAN, GLOBAL TRADE & DIGITAL FINANCE

Sentosa ERP has been specifically optimised for highly connected regional and international business environments, particularly across ASEAN trade ecosystems, multilingual operational infrastructures, and emerging digital financial architectures.

The platform supports:

- ASEAN business operations
- China-linked trade ecosystems
- International import and export environments
- Maritime logistics infrastructures
- Multilingual enterprise operations
- Cross-border financial systems
- PromptPay and PromptBiz connectivity
- Digital payment ecosystems
- International supply chain management

By combining regional adaptability with enterprise-scale operational governance, Sentosa ERP enables organisations to manage highly complex international workflows whilst maintaining operational transparency, compliance, and financial control across multiple jurisdictions.

SECURITY, GOVERNANCE & ENTERPRISE COMPLIANCE

Modern enterprise infrastructures require more than operational efficiency. They require trust, governance, security, and accountability across every level of the organisation.

Core security and governance capabilities include:

- Identity and access governance
- Enterprise audit logging
- Compliance monitoring
- API security management
- AI-assisted verification
- Blockchain traceability
- Fraud prevention systems
- Risk management frameworks

The platform is designed to provide organisations with operational resilience, traceability, and centralised governance whilst supporting modern digital transformation strategies and future regulatory requirements.

PURPOSE OF THIS REPORT

The platform's modular foundation also reduces implementation complexity, allowing organisations to expand capabilities gradually whilst maintaining operational stability and centralised governance across all business functions which ensures that enterprises can modernise at their own pace, integrating new technologies, services, and operational requirements without disrupting existing workflows or business continuity.

Each section has been designed to present:

- Module purpose
- Operational functionality
- Business value
- Enterprise use cases
- Integration capabilities
- Strategic importance within the overall architecture

The objective of this publication is to demonstrate how Sentosa ERP functions not merely as an enterprise resource planning solution, but as a fully integrated digital enterprise platform capable of supporting modern business transformation, intelligent automation, international operations, and future digital economic infrastructures.

HUMAN RESOURCE MANAGEMENT

Enterprise Workforce & Identity Governance

Modern organisations require more than employee administration.

They require intelligent workforce governance, secure digital identity management, operational accountability, and scalable enterprise security capable of supporting highly connected digital environments.

Sentosa ERP provides an integrated Human Resource Management ecosystem designed to centralise employee administration, authentication governance, organisational structures, access management, compliance monitoring, and workforce operations within one unified enterprise platform.

More than a conventional HR platform, the ecosystem combines workforce administration, digital identity governance, operational security, authentication management, access control, compliance monitoring, and enterprise-wide accountability within one integrated infrastructure.

The platform enables organisations to manage employee operations, recruitment processes, departmental structures, authentication policies, operational permissions, and workforce governance whilst maintaining centralised visibility and administrative control across all enterprise environments.

Designed for scalability and operational resilience, the architecture supports organisations ranging from SMEs to multinational enterprises operating across multiple branches, subsidiaries, logistics centres, regional offices, manufacturing environments, and distributed international operations.

USERS, IDENTITY & ACCESS GOVERNANCE

Enterprise User Management, Security Control & Authentication Infrastructure

The Users, Identity & Access Governance module represents one of the most critical core infrastructure components within the Sentosa ERP ecosystem.

Every operational activity throughout the ERP platform is governed through this module, making it the foundation of enterprise security, compliance governance, accountability, operational traceability, and controlled access management across all ERP functions.

The module centralises the management of:

- User accounts
- Employee profiles
- Security groups
- Departmental structures
- Access permissions
- Authentication policies
- API credentials
- Session security
- Login restrictions
- Audit logging
- Compliance traceability

The architecture has been specifically designed for enterprise-scale operational environments requiring highly granular governance, distributed workforce management, and secure operational control across multiple business divisions and international infrastructures.

Role-Based Access Governance

One of the defining strengths of the module is its advanced Role-Based Access Control (RBAC) framework.

Organisations may define highly precise operational permissions across departments, operational teams, subsidiaries, external stakeholders, temporary contractors, suppliers, API integrations, and remote access environments.

This enables businesses to maintain strict control over:

- Financial data access
- Workflow approvals
- API usage permissions
- Administrative operations
- Customer and supplier records
- Sensitive information exports
- ERP module accessibility

By centralising identity governance and operational permissions, Sentosa ERP strengthens enterprise accountability whilst significantly reducing operational security risks across distributed organisational environments.

Authentication & Enterprise Security

The platform supports advanced authentication infrastructures designed to meet modern enterprise security requirements.

Security capabilities include:

- Multi-factor authentication (MFA)
- OAuth2 integration
- LDAP integration
- Single Sign-On (SSO) compatibility
- API token authentication
- Geographic access restrictions
- Session control frameworks
- Login time restrictions
- External identity provider integration

The system also provides sophisticated API credential governance, enabling organisations to generate secure API environments with restricted access scopes, expiring credentials, IP whitelisting, usage monitoring, audit tracking, and automated revocation controls.

This enables organisations to securely integrate external platforms, digital services, automation environments, and third-party enterprise infrastructures whilst maintaining strict operational governance and compliance oversight.

AUDIBILITY, COMPLIANCE & OPERATIONAL TRANSPARENCY

The Users, Identity & Access Governance module maintains comprehensive auditability across all ERP activities. Every operational action may be logged, monitored, and traced in real time.

Audit capabilities include:

- Login activity monitoring
- Failed authentication tracking
- Permission modifications
- Workflow approvals
- Financial changes
- Administrative actions
- API activity monitoring
- Data export traceability

This creates a complete operational audit trail essential for:

- Regulatory compliance
- Internal governance
- Security investigations
- Fraud prevention
- Financial accountability
- Enterprise transparency

The platform is particularly suited for highly regulated operational environments including financial ecosystems, government-linked organisations, healthcare infrastructures, logistics operations, international trade environments, and multinational enterprise structures.

Key Features

Centralised User Administration

Manages enterprise users, digital identities, and operational access policies from one unified platform.

Role-Based Access Control (RBAC)

Provides highly granular permission governance across departments, operational teams, and enterprise modules.

API Credential & Token Governance

Supports secure API credential generation with advanced security and monitoring controls.

Authentication & Identity Security

Supports MFA, OAuth2, LDAP, SSO, and enterprise authentication infrastructures.

Audit & Activity Tracking

Maintains comprehensive operational logs across all ERP activities and enterprise workflows.

Typical Enterprise Use Cases

- Enterprise workforce administration
- Multi-branch operational governance
- API integration security
- Supplier and external stakeholder access management
- Financial compliance operations
- Government-linked operational environments
- Identity federation and SSO infrastructures
- Enterprise audit and security monitoring

LEAVE REQUEST MANAGEMENT

Enterprise Infrastructure Summary

Component	Description
Module Name	Users, Identity & Access Governance
Primary Purpose	Enterprise identity and access governance
Main Functions	User management, authentication, permissions
Security Features	RBAC, MFA, API governance, audit logging
Integration	HR, CRM, APIs, Workflow Systems, Web Portals
Compliance Support	Auditability, governance, operational traceability

The Leave Request Management module enables organisations to manage employee leave processes through a structured and transparent digital workflow environment.

Employees may submit, monitor, and manage leave requests whilst HR departments maintain centralised oversight across approvals, balances, and workforce scheduling operations.

The module supports:

- Leave request submission
- Approval workflows
- Leave balance tracking
- Vacation and sick leave management
- HR reporting and workforce visibility

By digitalising leave administration processes, organisations benefit from improved operational transparency, streamlined HR approvals, and reduced administrative overhead across workforce management operations.

The module also strengthens workforce planning by providing managers and HR teams with clearer visibility into employee availability, scheduling coordination, and departmental resource allocation.

EXPENSE REPORTS

The Expense Reports module provides organisations with a structured framework for managing employee expense

claims, reimbursements, and operational spending approvals.

Employees may submit expense claims digitally whilst finance and management teams maintain visibility across approvals, reimbursement cycles, supporting documentation, and financial accountability processes.

The module supports:

- Expense submission
- Receipt attachment management
- Transportation and meal claims
- Approval workflows
- Expense tracking and reporting

The system significantly improves reimbursement efficiency whilst reducing manual paperwork and administrative processing requirements.

By centralising expense management within the ERP ecosystem, organisations gain improved financial visibility, operational traceability, and stronger accountability across employee reimbursement activities.



SENTOSA ERP

HUMAN RESOURCE MANAGEMENT

ENTERPRISE WORKFORCE & IDENTITY GOVERNANCE

An integrated Human Resource Management ecosystem that unifies workforce administration, identity governance, authentication, access control, and operational security within a single enterprise platform.

AUTHENTICATION & SECURITY

MFA, SSO, LDAP, and advanced authentication frameworks to protect enterprise access.

USER & EMPLOYEE MANAGEMENT

Centralized management of users, profiles, and organizational structures.

ROLE-BASED ACCESS CONTROL (RBAC)

Granular permissions for departments, teams, modules, and operations.

COMPLIANCE & GOVERNANCE

Built for regulated industries with full auditability and compliance support.

API & INTEGRATION GOVERNANCE

Secure API credentials, token management, scopes, monitoring and integration controls.

POLICIES & WORKFLOWS

Authentication policies, authorization workflows, access restrictions and session controls.

AUDIT & ACTIVITY TRACKING

Comprehensive logging, monitoring, and operational traceability across the entire ERP ecosystem.

GLOBAL & MULTILINGUAL SUPPORT

Localized user experiences with centralized governance and operational control.



SECURITY FIRST

Enterprise-grade security at every level of access.



USER EMPOWERMENT

The right access for the right people at the right time.



OPERATIONAL EFFICIENCY

Automated workflows and smart governance reduce operational overhead.



SCALABLE ARCHITECTURE

Built to grow with your business across multiple regions and entities.



GLOBAL READINESS

One platform. Many regions. Endless possibilities.

CORE CAPABILITIES

- ✓ User Accounts & Profiles
- ✓ Security Groups & Roles
- ✓ Departmental Structures
- ✓ Access Permissions

- ✓ Authentication Policies
- ✓ Multi-Factor Authentication
- ✓ SSO & LDAP Integration
- ✓ Session Security

- ✓ API Credentials & Tokens
- ✓ IP & Location Restrictions
- ✓ Login Time Restrictions
- ✓ Authorization Workflows

- ✓ Audit Logging & Monitoring
- ✓ Compliance Traceability
- ✓ Data Access Control
- ✓ Administrative Operations

IDENTITY. GOVERNANCE. TRUST.

Empowering organizations with secure access, intelligent governance, and complete operational accountability.

RECRUITMENT

The Recruitment module supports enterprise hiring operations through an integrated recruitment and candidate management environment designed to improve workforce acquisition efficiency and organisational visibility.

The platform enables HR teams to manage recruitment campaigns, applicant pipelines, interview coordination, and candidate tracking from one centralised infrastructure.

Key capabilities include:

- Job position management
- Candidate tracking
- Recruitment pipeline monitoring
- Interview scheduling
- Applicant database administration

The module enables organisations to strengthen recruitment visibility whilst improving hiring coordination, operational efficiency, and talent acquisition management across distributed enterprise environments.

Centralised candidate administration also improves long-term workforce planning and enables organisations to maintain structured recruitment records for future operational and strategic hiring requirements.

HUMAN RESOURCES ADMINISTRATION

The Human Resources Administration module provides comprehensive workforce management capabilities designed to support employee administration, departmental organisation, talent development, and enterprise HR governance.

The platform centralises operational HR functions whilst supporting scalable workforce structures across regional offices, subsidiaries, manufacturing environments, and multinational organisations.

The module supports:

- Department management
- Employee contract administration
- Skills management
- HR records administration

By consolidating workforce information into one integrated environment, organisations benefit from improved operational coordination, stronger talent development strategies, and enhanced planning capabilities.

The architecture also supports long-term workforce visibility, enabling HR departments to manage employee development, organisational structures, and enterprise resource planning within one unified operational ecosystem.

CUSTOMER RELATIONSHIP MANAGEMENT

*Enterprise Customer, Sales & Business
Relationship Management Platform*

*The Customer Relationship Management
suite within Sentosa ERP provides a
comprehensive enterprise environment for
managing customer interactions,
commercial operations, sales activities,
contracts, support services,
communication workflows, and long-term
business relationships across highly
connected operational ecosystems.*

More than a standalone CRM platform, the Sentosa ERP CRM environment acts as a fully integrated operational hub capable of connecting customer relationships directly with financial systems, logistics infrastructures, support operations, invoicing workflows, subscriptions, and enterprise-wide operational intelligence.

The platform enables organisations to manage the complete lifecycle of customer and partner engagement — from lead acquisition and commercial proposals to invoicing, logistics coordination, customer support, recurring revenue management, and long-term account administration.

Designed for both B2B and B2C environments, the CRM ecosystem supports:

- Customer account management
- Lead and prospect tracking
- Supplier and partner coordination
- Sales pipeline monitoring
- Quotations and proposals
- Contracts and subscriptions
- Helpdesk and ticketing operations
- Customer communications
- Marketing activities
- Logistics coordination
- Financial relationship management
- Customer portals and self-service environments

The architecture is particularly suited for international trading organisations, manufacturing operations, logistics providers, digital commerce environments, subscription businesses, service organisations, cooperative ecosystems, and government-linked infrastructures.

One of the major strengths of the CRM environment is its ability to centralise customer data, operational workflows, support history, contracts, invoices, communications, and logistics visibility into one unified ERP ecosystem. This enables organisations to maintain a complete 360-degree operational view of customer relationships whilst improving transparency, responsiveness, and enterprise decision-making.

The CRM suite integrates deeply with:

- Accounting and invoicing
- Logistics and shipment systems
- Contracts and subscriptions
- AI and analytics services
- Helpdesk and ticketing systems
- Knowledge management
- Payment infrastructures
- Web portals and websites
- Workflow automation environments

The CRM suite significantly strengthens Sentosa ERP as a fully integrated enterprise relationship management platform designed for modern global business operations.

ORGANISATIONS

The Organisations module enables businesses to manage companies, prospects, customer records, and commercial relationships within one centralised environment.

The platform provides structured visibility across customer interactions, relationship histories, communication records, and operational engagement workflows whilst supporting long-term account administration and commercial coordination.

The module supports:

- Customer databases
- Prospect management
- Contact records
- Relationship tracking
- Communication history

By centralising customer information into one unified operational platform, organisations benefit from stronger customer relationships, improved sales visibility, and more efficient commercial coordination across distributed enterprise environments.

PROPOSALS

The Proposals module provides organisations with structured tools for managing commercial quotations, proposals, and pre-sales operational workflows.

The platform enables sales teams to create, monitor, approve, and convert quotations into operational orders whilst maintaining professional customer communication and commercial transparency throughout the sales lifecycle.

Key capabilities include:

- Quotation generation
- Proposal tracking
- Approval workflows
- Customer communication
- Multilingual Language Interface
- Proposal conversion to orders

By improving proposal management and operational coordination, organisations benefit from faster sales cycles, improved commercial visibility, and stronger sales conversion performance.

SALES ORDERS

The Sales Orders module enables organisations to manage customer order workflows from initial creation through operational fulfilment and delivery coordination.

The platform centralises sales processing whilst maintaining visibility across customer order histories, workflow automation and and operational fulfilment activities.

Designed for highly connected enterprise environments, the module allows sales, logistics, warehouse, procurement to operate within one unified operational workflow.

The module supports:

- Order entry
- Order tracking
- Product allocation
- Customer order history
- Workflow automation

This allows organisations to improve operational efficiency, strengthen order coordination, and enhance customer satisfaction through faster and more transparent fulfilment processes.

GLOBAL SHIPMENTS, LOGISTICS & MARITIME CONNECTIVITY PLATFORM

Enterprise Shipping, Route Intelligence & International Freight Management System

The Global Shipments, Logistics & Maritime Connectivity Platform represents one of the most strategically important components of the Sentosa ERP ecosystem.

The platform provides advanced shipment management, logistics coordination, maritime connectivity, freight integration, route intelligence, delivery automation, and real-time supply chain visibility across highly complex international trade environments.

Unlike traditional shipment tracking systems, the platform functions as a centralised logistics orchestration environment capable of integrating with global freight operators, shipping providers, maritime carriers, customs infrastructures, logistics APIs, and international port ecosystems.

The module supports:

- Shipment preparation
- Delivery documentation
- Freight coordination

- Shipping status tracking
- Container monitoring
- Warehouse-to-port operations
- Customs workflow management
- Route intelligence
- Shipping cost optimisation
- Real-time logistics synchronisation

The platform integrates with major international logistics and maritime ecosystems including:

- COSCO Shipping
- Maersk
- MSC
- CMA CGM
- Hapag-Lloyd
- ASEAN logistics providers
- Customs and port infrastructures

One of the platform's most powerful capabilities is its API-driven logistics intelligence architecture. Organisations may obtain real-time freight pricing, delivery estimates, vessel movements, route analysis, congestion monitoring, logistics synchronisation, and operational shipping intelligence directly through integrated enterprise workflows.

The module is especially valuable for:

- International trading organisations
- Maritime operations
- Import/export ecosystems
- Manufacturing groups
- ASEAN supply chains
- China-linked logistics operations
- Distribution networks
- E-commerce fulfilment infrastructures

By centralising logistics operations directly within the ERP ecosystem, organisations gain end-to-end operational visibility across procurement, warehousing, shipping, and final delivery coordination whilst improving transparency, fulfilment performance, and global trade management.

CONTRACTS, SUBSCRIPTIONS & RECURRING REVENUE MANAGEMENT

Enterprise Agreement Lifecycle & Recurring Billing Platform

The Contracts, Subscriptions & Recurring Revenue Management module provides a powerful enterprise environment for managing long-term customer agreements, subscription services, maintenance contracts, recurring billing workflows, and ongoing commercial relationships.

The platform is particularly valuable for organisations operating subscription-based business models, managed services, SaaS infrastructures, cloud platforms, leasing operations, telecom environments, maintenance agreements, and recurring revenue ecosystems.

The module supports:

- Contract administration
- Subscription management
- Renewal tracking
- Automated recurring invoicing
- Service agreement management

- Billing term administration
- Contract documentation
- Expiration monitoring
- Customer entitlement tracking

One of the key strengths of the platform is its ability to automate recurring operational and financial processes including:

- Invoice generation
- Renewal reminders
- Payment cycle monitoring
- Billing schedules
- Service suspension workflows
- Customer notifications

The architecture integrates deeply with CRM, accounting, payment gateways, customer portals, workflow automation systems, and AI-driven analytics environments.

By centralising recurring operational workflows inside one unified ERP ecosystem, organisations improve customer retention, financial predictability, operational visibility, and long-term recurring revenue management.

INTERVENTIONS & FIELD OPERATIONS MANAGEMENT

Field Service, Emergency Response & Operational Correction Platform

The Interventions & Field Operations Management module provides advanced operational tools for managing field services, technical interventions, emergency workflows, corrective operational actions, and compliance-sensitive remediation processes.

The module is designed for organisations operating maintenance services, technical support operations, inspection activities, logistics interventions, industrial service environments, and operational response workflows.

Beyond traditional field service management, the platform also acts as a controlled enterprise correction framework capable of supporting audit-sensitive operational adjustments, compliance remediation, and controlled intervention procedures across the ERP environment.

The module supports:

- Service scheduling
- Technician assignment
- Operational interventions

- Corrective workflows
- Compliance-related actions
- Emergency response coordination
- Escalation procedures
- Field reporting
- Service history tracking

Because intervention activities often involve sensitive operational modifications, the architecture supports:

- Approval workflows
- Role-based permissions
- Supervisor validation
- Audibility
- Compliance tracking
- Operational traceability

The platform significantly strengthens operational resilience whilst maintaining enterprise accountability, governance visibility, and controlled intervention management across highly regulated operational environments.



SENTOSA ERP

CUSTOMER RELATIONSHIP MANAGEMENT (CRM)

ENTERPRISE CUSTOMER, SALES & BUSINESS RELATIONSHIP MANAGEMENT PLATFORM

A fully integrated CRM ecosystem that connects people, processes and operations. Manage the entire customer lifecycle — from prospecting and sales to contracts, support, logistics and long-term relationships — all within one unified ERP platform.



CORE CRM MODULES

 <p>ORGANISATIONS</p> <ul style="list-style-type: none"> Customer database Prospect management Contact records Relationship tracking Communication history <p>Stronger relationships Better visibility Centralized information</p>	 <p>PROPOSALS</p> <ul style="list-style-type: none"> Quotation generation Proposal tracking Approval workflows Customer communication Conversion to orders <p>Faster sales cycles Professional management Higher conversion</p>	 <p>SALES ORDERS</p> <ul style="list-style-type: none"> Order entry Order tracking Product allocation Order history Workflow automation <p>Efficient processing Greater satisfaction Better monitoring</p>	 <p>GLOBAL SHIPMENTS & LOGISTICS</p> <ul style="list-style-type: none"> Shipment management Freight & route intelligence Carrier integration Customs coordination Real-time tracking <p>End-to-end visibility Lower shipping costs Reliable deliveries</p>	 <p>CONTRACTS & SUBSCRIPTIONS</p> <ul style="list-style-type: none"> Contract management Subscription tracking Renewal management Automated billing Revenue recognition <p>Recurring revenue growth Higher retention Automated billing</p>	 <p>INTERVENTIONS & FIELD OPERATIONS</p> <ul style="list-style-type: none"> Service scheduling Field interventions Corrective actions Compliance workflows Service reporting <p>Faster response Operational control Audit-ready records</p>
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SEAMLESS INTEGRATIONS WITH THE ERP ECOSYSTEM

 ACCOUNTING & INVOICING	 LOGISTICS & WAREHOUSING	 AI & ANALYTICS	 PAYMENTS & FINANCE	 KNOWLEDGE MANAGEMENT	 PORTALS & WEBSITES	 WORKFLOW AUTOMATION
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STRONGER RELATIONSHIPS. SMARTER OPERATIONS. SUSTAINABLE GROWTH.

The Sentosa ERP CRM suite empowers organizations to build meaningful customer relationships, improve sales performance, deliver exceptional service and drive long-term business success.



VENDOR RELATIONSHIP MANAGEMENT

Enterprise Supplier, Procurement & Commercial Coordination Platform

The Vendor Relationship Management suite within Sentosa ERP provides a comprehensive enterprise environment for managing suppliers, procurement workflows, purchasing operations, vendor communications, inbound logistics, commercial verification, and long-term supplier relationships across modern operational ecosystems.

The platform centralises procurement activities whilst maintaining operational visibility across the enterprise-wide supply chain operations.

Designed for highly connected procurement systems, the VRM ecosystem enables organisations to strengthen supplier accountability, improve purchasing transparency, optimise operational coordination, and reduce procurement risks through one unified ERP-connected infrastructure.

The platform supports:

- Supplier relationship management
- Procurement workflows
- Vendor communications
- Purchase order processing
- Supplier invoice coordination
- Vendor proposal evaluation
- Delivery verification
- Warehouse intake management
- International trade compliance
- Third-party verification and due diligence

Because the Vendor Relationship Management environment operates directly inside the Sentosa ERP ecosystem, organisations gain complete operational visibility across supplier onboarding, purchasing operations, logistics coordination, warehouse receiving, financial synchronisation, and compliance verification workflows.

The architecture integrates closely with:

- Inventory management
- Accounting and invoicing
- Warehousing operations
- Manufacturing environments

- Logistics infrastructures
- Compliance systems
- CRM environments
- AI-assisted verification systems
- Workflow automation services

The unified architecture also enables procurement teams, finance departments, warehouse operations, logistics environments, and executive management to collaborate through one synchronised operational ecosystem whilst maintaining real-time visibility across the system

By consolidating procurement intelligence into a scalable and fully connected ERP infrastructure, organisations are better positioned to optimise purchasing strategies, improve supplier accountability, reduce operational risk, and support long-term supply chain resilience across regional and international business environments.

VENDORS MANAGEMENT

The Vendors module enables organisations to manage supplier records, procurement activities, purchasing workflows, and vendor invoicing operations through one centralised enterprise environment.

The platform provides operational visibility across supplier relationships whilst supporting procurement coordination, commercial tracking, invoice synchronisation, and vendor performance monitoring.

The module supports:

- Vendor databases
- Purchase order management
- Supplier invoice processing
- Vendor performance tracking

By consolidating procurement operations into one integrated platform, organisations benefit from stronger supplier relationships, improved procurement governance, enhanced operational transparency, and more efficient purchasing workflows across highly distributed and internationally connected enterprise environments whilst supporting scalable long-term supply chain.

VENDOR COMMERCIAL PROPOSALS

The Vendor Commercial Proposals module provides structured tools for managing supplier quotations, procurement proposals, commercial evaluations, and purchasing negotiations.

The platform enables procurement teams to compare vendor pricing, monitor supplier responses, evaluate procurement opportunities, and improve purchasing transparency across commercial sourcing operations.

The module supports:

- Request for quotation (RFQ) management
- Price comparison workflows
- Supplier proposal tracking
- Procurement evaluation processes

This enables organisations to strengthen procurement governance whilst improving supplier negotiations, operational visibility, and competitive purchasing strategies across enterprise procurement environments. The platform also supports long-term supplier evaluation, optimisation initiatives, risk reduction strategies, and improved coordination between different departments

RECEPTIONS & GOODS RECEIVING MANAGEMENT

*Warehouse Intake, Delivery Verification &
Supplier Receiving Control*

The Receptions & Goods Receiving Management module provides structured operational control over inbound deliveries, supplier shipments, warehouse intake workflows, and receiving coordination across procurement, logistics, warehousing, and manufacturing environments.

The module manages the complete receiving lifecycle when products, raw materials, equipment, or operational goods arrive from suppliers, manufacturers, distributors, or logistics providers.

The system supports:

- Goods receiving workflows
- Delivery verification
- Warehouse intake processing
- Reception documentation
- Supplier shipment tracking
- Batch and serial tracking
- Barcode and QR scanning
- Warehouse stock synchronisation
- Quality inspection workflows

Warehouse and procurement teams may validate deliveries directly against purchase orders, invoices, supplier documentation, and procurement records whilst recording shortages, damaged goods, over-deliveries, or operational inconsistencies in real time.

The platform integrates closely with:

- Inventory management
- Procurement systems
- Warehousing environments
- Manufacturing operations
- Barcode infrastructures
- Accounting systems
- Logistics coordination services

This enables organisations to improve inventory accuracy, strengthen supplier accountability, accelerate warehouse processing, and maintain complete operational visibility across inbound logistics activities. The platform also improves warehouse coordination, delivery verification procedures, stock traceability, operational reporting, and procurement synchronisation whilst reducing manual processing delays and inbound supply chain inconsistencies.

INCOTERMS

The Incoterms module supports international trade operations through structured management of global shipping terms, logistics responsibilities, and commercial delivery conditions.

The platform enables organisations to maintain operational clarity across import/export environments whilst supporting international trade compliance and shipment responsibility coordination.

The module supports:

- Shipping terms management
- International trade compliance
- Logistics responsibility definitions

By centralising Incoterm coordination within the ERP ecosystem, organisations reduce commercial misunderstandings, improve shipping transparency, and strengthen operational governance across international procurement operations. The platform also improves contractual clarity between buyers, suppliers, logistics providers whilst supporting cross-border compliance management, shipment responsibility allocation, customs coordination and more efficient global trade administration across highly complex supply chain environments.

BUSINESS REGISTRY, DBD & RISK VERIFICATION

AI-Assisted Corporate Verification, Fraud Prevention & Third-Party Due Diligence Platform

The Business Registry, DBD & Risk Verification module provides advanced enterprise verification capabilities for validating suppliers, customers, vendors, partners, and external organisations before they are permitted to interact with critical ERP workflows.

The platform combines official registry validation, AI-assisted research, internet intelligence, commercial verification services, and risk screening technologies to strengthen procurement governance and reduce exposure to fraudulent or high-risk entities.

In Thailand, the module integrates with Department of Business Development (DBD) verification services to confirm company registration status, operational legitimacy, and regulatory compliance.

Internationally, the platform may also integrate with:

- ASEAN registry environments
- European verification providers
- North American commercial data services
- Public internet intelligence sources
- D&B-style verification ecosystems
- Corporate due diligence platforms

The verification environment supports:

- Company registration validation
- Business status verification



SENTOSA ERP

VENDOR RELATIONSHIP MANAGEMENT (VRM)

ONE PLATFORM. STRONGER SUPPLIERS. SMARTER PROCUREMENT.

The VRM suite centralises supplier management, procurement, commercial negotiations, inbound logistics and risk verification—empowering organisations to build trusted partnerships, improve operational control and drive supply chain excellence.



STRONGER RELATIONSHIPS

Build trusted partnerships, monitor performance and drive collaborative growth.



VENDORS

Manage supplier records, purchase orders, invoices and performance.



VENDOR COMMERCIAL PROPOSALS

Manage RFQs, compare quotes, evaluate suppliers and drive better negotiations.



PROCUREMENT EXCELLENCE

Streamline purchasing workflows, enforce policies and improve procurement control.



STRONGER SUPPLIERS GREATER VALUE

End-to-end visibility. Better decisions. Stronger performance.



RECEPTIONS & GOODS RECEIVING MANAGEMENT

Control inbound deliveries, verify goods, inspect quality and update inventory in real time.



BUSINESS REGISTRY, DBD & RISK VERIFICATION

AI-assisted verification, fraud prevention and third-party due diligence to protect your business.



INCOTERMS

Manage international trade terms, logistics responsibilities and shipping clarity.

KEY BENEFITS



IMPROVED PROCUREMENT CONTROL

Standardised workflows and policy enforcement.



STRONGER VENDOR RELATIONSHIPS

Better communication, performance and trust.



OPERATIONAL TRANSPARENCY

Real-time visibility across suppliers, orders and deliveries.



COST SAVINGS & COMPETITIVE PURCHASING

Better negotiations, price control and total cost optimisation.



RISK REDUCTION & COMPLIANCE

AI-powered verification, fraud prevention and regulatory compliance.



EFFICIENCY & AUTOMATION

Automated processes reduce manual work and drive productivity.

SEAMLESS INTEGRATION ACROSS THE ERP ECOSYSTEM



INVENTORY MANAGEMENT



PROCUREMENT



WAREHOUSING & LOGISTICS



ACCOUNTING & FINANCE



MANUFACTURING



CRM



COMPLIANCE & RISK MANAGEMENT



WORKFLOW AUTOMATION

ONE PLATFORM. END-TO-END VALUE.

From supplier onboarding and procurement to receiving, compliance and performance management—Sentosa ERP connects every process for better control, stronger supplier partnerships and long-term business success.



DRIVE SUPPLY CHAIN EXCELLENCE

- ✔ Trusted suppliers
- ✔ Efficient operations
- ✔ Resilient supply chain
- ✔ Sustainable growth



STRONGER PARTNERSHIPS. SMARTER PROCUREMENT. BETTER BUSINESS.

- Director and ownership analysis
- Tax identifier verification
- Website reputation analysis
- Public record screening
- Sanctions and risk monitoring
- Negative media analysis
- Third-party trust validation

The module is especially important within modern business environments where supplier fraud, shell entities, impersonation attempts, and AI-generated scams have become increasingly sophisticated.

By integrating verification directly into procurement, onboarding, accounting, CRM, and operational approval workflows, organisations strengthen compliance governance whilst significantly reducing exposure to fraudulent or untrusted third-party environments.

The platform also supports supplier onboarding, customer registration, payment approval processes, procurement validation, API onboarding, and external portal access governance through one unified operational framework.

FINANCIAL MANAGEMENT

*Enterprise Accounting, Treasury & Digital
Financial Infrastructure Platform*

The Financial Management suite within Sentosa ERP provides a comprehensive enterprise platform for managing accounting operations, invoicing, treasury workflows, taxation, payroll administration, banking integration, financial compliance, and digital financial infrastructure across highly connected international business environments.

Designed as one of the core operational foundations of the ERP ecosystem, the platform centralises financial visibility whilst synchronising accounting activities directly with procurement, logistics, CRM, inventory, manufacturing, payments, and enterprise reporting workflows.

The architecture supports modern financial operations ranging from SME accounting environments to multinational enterprise ecosystems operating across multiple currencies, regulatory jurisdictions, regional branches, and international trade networks.

The platform supports:

- Invoicing and billing operations
- Treasury and banking workflows
- Payroll administration
- Financial reporting
- Taxation and compliance

- Multi-currency financial operations
- Payment automation
- Financial analytics and profitability monitoring
- Loan and financing management
- Digital payment infrastructures
- Paperless financial ecosystems
- ERP-to-bank financial integration

One of the defining strengths of the Financial Management environment is its ability to combine traditional accounting operations with modern digital financial ecosystems, enabling organisations to operate within increasingly automated, paperless, API-connected, and globally integrated business infrastructures.

The financial architecture integrates closely with:

- CRM and commercial operations
- Procurement and supply chain systems
- Logistics and warehousing
- Manufacturing environments
- Banking infrastructures

- Payment gateways
- PromptBiz and Thai financial ecosystems
- AI-driven financial analytics
- Workflow automation services
- Compliance and audit systems

The platform also supports advanced multilingual and multi-regional financial operations where branches, subsidiaries, accountants, operational teams, and management environments may operate within localised interfaces whilst maintaining centralised financial governance and enterprise oversight.

By combining enterprise accounting, treasury management, financial automation, international trade billing, and digital banking integration into one unified operational ecosystem, the Financial Management suite significantly strengthens Sentosa ERP as a scalable and future-ready financial infrastructure platform designed for modern global business operations.

INVOICING, BILLING & FINANCIAL DOCUMENT MANAGEMENT

Multi-Language Global Invoice, Credit Note & Commercial Billing Platform

The Invoicing, Billing & Financial Document Management module provides a comprehensive enterprise environment for managing invoices, supplier billing, credit notes, debit adjustments, commercial documentation, and international financial workflows across global operational ecosystems.

The platform supports the complete financial billing lifecycle whilst synchronising operational activities directly with accounting, logistics, CRM, manufacturing, banking systems, and payment infrastructures.

The module supports:

- Invoice generation
- Supplier invoicing
- Credit and debit note management
- Payment tracking
- Tax calculations
- Multi-currency invoicing
- Recurring billing workflows
- Export documentation
- Financial reporting

One of the platform's most powerful capabilities is its advanced multilingual document generation architecture. Organisations may generate invoices and commercial documents simultaneously in multiple languages depending on customer, supplier, customs, operational, or regional requirements.

The system supports:

- Unicode and multilingual document generation
- Localised invoice templates
- International formatting standards
- Regional tax structures
- Country-specific billing compliance
- Cross-border trade documentation
- Multi-currency financial workflows

The invoicing environment integrates deeply with:

- Accounting systems
- CRM platforms
- Inventory operations
- Logistics environments

- Manufacturing systems
- Payment gateways
- Banking infrastructures
- Procurement workflows
- POS operations
- PromptBiz ecosystems

By centralising billing operations directly inside the ERP environment, organisations gain real-time financial synchronisation, stronger operational visibility, reduced administrative overhead, and scalable financial governance across complex international business ecosystems.

The platform also improves coordination between finance teams, logistics departments, procurement operations, customer management environments, and executive reporting structures whilst maintaining accurate financial traceability across operational workflows, payment activities, tax calculations, and cross-border commercial transactions.

TAXES & SPECIAL EXPENSES

The Taxes & Special Expenses module provides structured management of tax obligations, fiscal reporting, social tax administration, dividend tracking, and specialised financial

compliance operations across enterprise accounting environments.

The platform supports:

- Sales tax management
- Fiscal tax tracking
- Social tax administration
- Dividend monitoring

By improving tax visibility and financial compliance coordination, organisations benefit from more accurate financial reporting, reduced accounting inconsistencies, and stronger regulatory governance across regional and international operational environments.

The platform enables finance departments and accounting teams to maintain structured oversight across fiscal obligations, taxation workflows, social contributions, dividend administration, and regulatory reporting requirements whilst reducing the risks associated with fragmented financial processes and manual tax administration.

SALARIES

The Salaries module enables organisations to manage payroll visibility, employee compensation records, salary

tracking, and workforce payment administration through one centralised financial environment.

The platform supports:

- Payroll tracking
- Salary records
- Payment history management
- Compensation administration

By centralising payroll operations inside the ERP ecosystem, organisations improve financial visibility, strengthen payroll governance, and maintain structured employee compensation tracking across distributed workforce environments.

Because payroll administration is integrated directly with accounting systems, employee management, attendance workflows, taxation environments, banking operations, and financial reporting structures, organisations benefit from improved operational synchronisation and reduced administrative fragmentation across workforce payment processes.

LOANS & FINANCING MANAGEMENT

Credit, Lending & Financial Obligation Administration Platform

The Loans & Financing Management module provides a structured enterprise platform for managing financing agreements, repayment schedules, interest calculations, installment operations, and long-term financial obligations across the ERP ecosystem.

The platform supports organisations operating internal financing programs, cooperative lending structures, installment operations, asset financing environments, community lending programs, and alternative financing ecosystems.

The module supports:

- Loan registration and tracking
- Repayment scheduling
- Interest calculation management
- Installment monitoring
- Outstanding balance visibility
- Financing records administration
- Payment history tracking

- Financial reporting

The architecture integrates directly with accounting systems, banking environments, invoicing operations, CRM platforms, payment infrastructures, and financial reporting services.

This integrated financial environment enables organisations to maintain accurate synchronisation between financing agreements, repayment activities, customer records, accounting operations, and treasury management workflows whilst improving operational visibility across the entire financing lifecycle.

Through structured financing administration, automated workflows, and integrated financial visibility, the Loans & Financing Management module strengthens Sentosa ERP as a scalable enterprise platform for managing complex financing operations, repayment ecosystems, and long-term financial obligations within highly connected business environments.

Because financing operations are managed directly inside the ERP ecosystem, organisations gain stronger control over internal lending activities, cooperative financing structures, installment-based programs, employee financing environments, and long-term repayment operations without relying on fragmented external systems or manual financial administration.

DONATIONS & NONPROFIT CONTRIBUTION MANAGEMENT

Foundation, Charity & Humanitarian Funding Administration Platform

The Donations & Nonprofit Contribution Management module provides specialised financial tools for organisations managing charitable contributions, humanitarian funding, nonprofit operations, religious donations, community fundraising, and foundation-based financial ecosystems.

The platform is particularly valuable for:

- Foundations
- NGOs
- Religious organisations
- Humanitarian institutions
- Educational foundations
- Social enterprises
- Cooperative aid programs
- Community organisations

The system supports:

- Donation tracking
- Donor management
- Contribution history
- Recurring donation administration
- Campaign-based fundraising
- Financial reporting
- Tax receipt generation
- Payment gateway integration
- Transparency and audibility controls

By centralising nonprofit financial administration within one unified operational ecosystem, organisations strengthen donor engagement, improve financial transparency, simplify reporting requirements, and maintain structured governance across charitable and humanitarian funding environments. The platform also improves campaign coordination, contribution traceability, donor communication management, audit readiness, regulatory compliance visibility, and long-term sustainability planning for foundations, NGOs, religious organisations, and community-driven nonprofit ecosystems.



FINANCE MANAGEMENT

Enterprise Accounting, Treasury & Digital Financial Infrastructure Platform

The Finance Management module in Sentosa ERP provides a comprehensive, fully integrated financial ecosystem that unifies accounting, billing, treasury, tax, payroll, financing, donations, banking, and compliance within one intelligent digital platform.

FINANCIAL DASHBOARD

TOTAL REVENUE
\$ 25,680,000
+15.5% vs Last Month



TOTAL EXPENSES
\$ 10,450,000



NET PROFIT
\$ 15,230,000
+15.5% vs Last Month

CASH POSITION
\$ 8,950,000
+12.3% vs Last Month



REAL-TIME FINANCE VISIBILITY
Live insights across all financial operations



STRONGER COMPLIANCE
Built-in controls for global financial regulations



AUTOMATED WORKFLOWS
Reduce manual work and operational overhead



BETTER DECISIONS
Data-driven analytics for stronger financial planning



GLOBAL & LOCAL ADAPTABILITY
Multi-currency, multi-language, multi-jurisdiction support

LOANS & FINANCING MANAGEMENT

- Loan registration & tracking
- Repayment scheduling
- Interest calculations
- Installment monitoring
- Outstanding balance visibility
- Financing reports & analytics

DONATIONS & NONPROFIT CONTRIBUTION MANAGEMENT

- Donation & donor management
- Campaign & contribution tracking
- Recurring donation administration
- Tax receipt generation
- Transparency & audit controls
- Integrated reporting

TREASURY & CASH MANAGEMENT

- Cash flow management
- Bank accounts & reconciliations
- Forecasting & liquidity control
- Treasury reporting

ACCOUNTING & GENERAL LEDGER

- General ledger
- Journal entries
- Chart of accounts
- Period closing
- Financial statements

BANKING & PAYMENT INTEGRATION

- Bank feeds & reconciliation
- Payment approvals
- Multi-bank support
- Payment gateway integration
- Cheque & transfer management

FINANCIAL REPORTING & ANALYTICS

- Real-time financial reports
- Profitability analysis
- Budget vs actual
- KPIs & dashboards
- Custom report builder

COMPLIANCE & AUDIT MANAGEMENT

- Audit trails
- Approval workflows
- Policy enforcement
- Regulatory compliance
- Data security & access control

SENTOSA ERP FINANCE MANAGEMENT

ONE PLATFORM. COMPLETE FINANCIAL CONTROL. STRONGER BUSINESS GROWTH.

INVOICING, BILLING & FINANCIAL DOCUMENT MANAGEMENT

- Multi-language invoice generation
- Customer & supplier billing
- Credit & debit note management
- Multi-currency invoicing
- Payment tracking & reminders
- Export & commercial documents
- Seamless integration with ERP modules

TAXES & SPECIAL EXPENSES

- Sales tax management
- Fiscal tax tracking
- Social tax administration
- Dividend monitoring
- Tax compliance & reporting

SALARIES

- Payroll tracking
- Salary records
- Payment history
- Employee compensation
- Payroll reporting

DEEP INTEGRATION ACROSS THE ERP ECOSYSTEM



CRM



PROCUREMENT



INVENTORY



LOGISTICS



MANUFACTURING



HR & PAYROLL



POS



BANKS & PAYMENT GATEWAYS



PROMPTBIZ & THAI SYSTEMS

KEY BUSINESS BENEFITS



IMPROVED CASH FLOW & FINANCIAL CONTROL

Better liquidity management and working capital visibility.



REDUCED COSTS & OPERATIONAL RISK

Automation reduces errors, fraud and manual work.



STRONGER FINANCIAL GOVERNANCE

Policies, approvals and compliance built-in.



SCALABLE FOR GLOBAL OPERATIONS

Support for multi-entity, multi-currency, multi-language.



DATA-DRIVEN GROWTH & PERFORMANCE

Actionable insights for smarter financial decisions.

STRONGER FINANCE. SMARTER DECISIONS. SUSTAINABLE GROWTH.

Sentosa ERP Finance Management — Powering Financial Excellence Across Every Business.

PRODUCT MANAGEMENT


Enterprise Inventory, Manufacturing & Product Lifecycle Management Platform

The Product Management suite within Sentosa ERP provides a comprehensive enterprise environment for managing inventory operations, manufacturing workflows, production planning, warehouse coordination, industrial traceability, and product lifecycle administration across highly connected operational ecosystems.

Designed as one of the core operational pillars of the ERP architecture, the platform centralises product visibility whilst synchronising inventory management, procurement operations, logistics coordination, manufacturing execution, warehousing activities, quality control, and financial reporting into one unified enterprise infrastructure.

The platform supports:

- Product management
- Inventory and warehouse operations
- Product lifecycle administration
- Manufacturing planning
- Bills of material management
- Industrial production workflows
- Batch and serial traceability
- Product variant administration
- Workstation coordination
- Resource planning and scheduling
- Compliance and quality control
- Smart manufacturing environments

 One of the defining strengths of the Product Management ecosystem is its ability to connect operational inventory workflows directly with manufacturing, procurement, logistics, accounting, CRM, forecasting, and enterprise analytics environments.

The architecture integrates closely with:

- Inventory and warehousing
- Manufacturing systems
- Procurement operations
- Logistics infrastructures
- Barcode and QR systems
- Accounting environments
- CRM and commercial operations
- Quality management systems
- AI-driven forecasting
- Workflow automation services

The platform is designed for organisations operating across:

- Industrial manufacturing
- Food processing
- Pharmaceuticals
- Electronics production

- Automotive environments
- Logistics and distribution
- Smart factory ecosystems
- Retail operations
- International trade environments
- Warehouse-intensive operations

Because all operational product information remains connected inside the ERP ecosystem, organisations gain real-time visibility across procurement, stock levels, production operations, warehouse movements, logistics coordination, manufacturing performance, and customer delivery environments.

This integrated operational architecture also improves cross-department collaboration, inventory forecasting accuracy, supply chain transparency, production planning efficiency, and enterprise-wide decision-making across highly dynamic manufacturing and distribution environments. By combining inventory control, industrial planning, manufacturing intelligence, and enterprise traceability into one scalable operational infrastructure, the Product Management suite significantly strengthens Sentosa ERP as a modern enterprise platform.

PRODUCTS

The Products module enables organisations to manage predefined physical products, inventory records, pricing structures, technical specifications, and operational product information within one centralised enterprise environment.

The platform supports:

- Product catalog administration
- Pricing management
- Product descriptions
- Product specifications

By centralising product data into one integrated ERP-connected infrastructure, organisations improve inventory organisation, strengthen sales coordination, simplify operational management, and maintain more consistent product visibility across warehouses, procurement environments, logistics operations, and customer-facing systems.

The platform also improves product standardisation, pricing consistency, operational reporting, inventory forecasting, and procurement synchronisation whilst reducing data duplication and administrative inefficiencies across distributed enterprise environments.

SERVICES

The Services module provides structured administration for service-based products, operational activities, subscription services, labour-based offerings, and time-managed commercial environments.

The module supports:

- Service catalog management
- Duration administration
- Service pricing
- Service descriptions

By standardising service operations inside the ERP ecosystem, organisations improve operational consistency, simplify commercial service management, and strengthen coordination between customer operations, invoicing workflows, workforce scheduling, and enterprise reporting environments.

The platform also improves service transparency, operational planning, resource allocation, pricing consistency, and long-term service governance whilst reducing administrative complexity across distributed service-oriented business environments.

STOCKS

The Stocks module provides comprehensive inventory and warehouse management capabilities designed to support real-time stock visibility, warehouse coordination, inventory movement tracking, and operational inventory governance across distributed enterprise environments.

The module supports:

- Stock movement tracking
- Inventory control
- Warehouse visibility
- Inventory reporting

Because stock operations are synchronised directly with procurement, logistics, warehousing, manufacturing, and sales workflows, organisations benefit from improved inventory accuracy, reduced stock shortages, stronger warehouse coordination, and more efficient operational inventory management across complex supply chain environments.

This integrated visibility also improves inventory forecasting, warehouse planning, procurement coordination, operational reporting, stock rotation efficiency, and supply chain responsiveness whilst reducing administrative delays and inventory reconciliation inconsistencies across enterprises.

PRODUCT LOTS, SERIALISATION & TRACEABILITY MANAGEMENT

Enterprise Batch Control, Expiration Monitoring & Supply Chain Traceability Platform

The Product Lots, Serialisation & Traceability Management module provides advanced enterprise-grade tracking capabilities for serial numbers, manufacturing batches, expiration-controlled inventory, regulated supply chains, and mission-critical operational traceability environments.

The module enables organisations to manage:

- Serial numbers
- Batch numbers
- Manufacturing lots
- Production references
- Expiration dates
- Shelf-life information
- Supplier traceability records
- Warehouse tracking identifiers

- Product lineage administration


The architecture is especially important for industries requiring strict regulatory governance and operational traceability including:

- Pharmaceuticals
- Food and beverage
- Medical supplies
- Electronics
- Automotive components
- Aerospace operations
- Industrial manufacturing
- Agriculture
- Healthcare logistics

Every product movement may be tracked throughout the full operational lifecycle including procurement, production, warehousing, distribution, customer delivery, returns management, and recall operations.

The platform integrates closely with:

- Inventory management
- Manufacturing environments
- Warehousing systems
- Logistics infrastructures
- Barcode systems
- QR code environments
- Quality control platforms
- Compliance reporting services
- Supplier management systems

 ne of the platform's most powerful capabilities is its full operational traceability architecture. Organisations can identify:

- Which supplier delivered a component
- Which production batch was used
- Which customers received affected inventory
- Which warehouse stored specific products
- Which inventory is approaching expiration

- Which serial numbers belong to operational transactions

This level of visibility is essential for product recalls, compliance investigations, audit readiness, quality assurance operations, warranty administration, anti-counterfeit controls, and regulatory reporting environments.

The module also supports automated expiration monitoring, stock rotation management, recall coordination, quarantine workflows, and advanced quality inspection procedures whilst maintaining complete operational traceability across the ERP ecosystem.

PRODUCT VARIANTS

The Product Variants module enables organisations to manage configurable product structures including variations such as size, colour, packaging, configuration, and operational product attributes.

The module supports:

- Variant combinations
- Product attribute management
- SKU generation

By supporting highly flexible product structures, organisations improve catalog management, simplify inventory coordination, strengthen operational product organisation, and provide customers with broader product selection capabilities across commercial and manufacturing environments.

BILLS OF MATERIAL (BOM) & MANUFACTURING STRUCTURE MANAGEMENT

*Enterprise Manufacturing Composition,
Production Engineering & Industrial Planning
Platform*

The Bills of Material (BOM) & Manufacturing Structure Management module represents one of the core industrial manufacturing infrastructures within the Sentosa ERP ecosystem.

The platform provides advanced operational control over product composition, assembly relationships, manufacturing dependencies, engineering revisions, material structures, and industrial production planning across highly complex manufacturing ecosystems.

A Bill of Material functions as the digital blueprint of a manufactured product, defining every component, dependency, material requirement, assembly relationship,

supplier-linked component, packaging element, and production structure necessary for manufacturing operations.


The platform supports:

- Multi-level BOM structures
- Nested assemblies
- Alternative components
- Production routing dependencies
- Configurable manufacturing
- Engineering revisions
- Serialised production components
- Batch and lot tracking
- Dynamic manufacturing workflows

The module integrates directly with:

- Manufacturing execution
- Inventory management
- Warehousing systems

- Procurement operations
- MRP environments
- Production planning
- Quality management
- Cost accounting
- Logistics coordination
- Barcode infrastructures
- AI forecasting services

 ne of the platform's most important capabilities is its ability to automate production planning and material forecasting operations. The ERP system can calculate:

- Raw material demand
- Component shortages
- Procurement requirements
- Manufacturing timelines
- Production capacity impacts
- Cost structures

- Lead-time dependencies

This significantly improves manufacturing efficiency whilst reducing material waste, production delays, procurement bottlenecks, and operational planning errors across industrial production environments.

Because the BOM architecture operates centrally within the ERP ecosystem, organisations gain full operational visibility into manufacturing structures, inventory dependencies, production costs, supplier coordination, industrial planning, and enterprise-wide manufacturing workflows.

MANUFACTURING ORDERS (MO)

The Manufacturing Orders module provides structured management of production orders, manufacturing scheduling, operational resource planning, and industrial workflow coordination across enterprise manufacturing environments.

The module supports:

- Manufacturing orders
- Production scheduling
- Resource planning
- Work order tracking

By centralising manufacturing coordination within one ERP-connected infrastructure, organisations improve production visibility, strengthen manufacturing efficiency, optimise operational resource allocation, and maintain more accurate oversight across industrial production environments.

SAP ORACLE C19 BRIDGE

The SAP Oracle C19 Bridge module provides enterprise-grade interoperability between Sentosa ERP and external SAP Business Suite environments operating on Oracle 19c infrastructures.

The platform supports:

- Enterprise integration
- Oracle 19c connectivity
- SAP interoperability
- High-performance synchronisation

By reducing operational silos between enterprise systems, organisations improve interoperability, strengthen cross-platform data visibility, and simplify

enterprise-scale integration across complex multinational IT environments.

WORKSTATION

The Workstation module enables organisations to manage industrial workstations, production environments, operational resources, and manufacturing coordination activities within one structured operational framework.

The platform provides centralised visibility across workstation allocation, production resource utilisation, operational workloads, manufacturing activities, and industrial process coordination whilst supporting highly organised production environments across factories, assembly operations, warehouses, and industrial facilities.

By maintaining structured workstation governance inside the ERP ecosystem, organisations improve manufacturing efficiency, strengthen operational planning, optimise workforce coordination, and reduce production bottlenecks across complex industrial operations.

The module also supports operational monitoring, resource scheduling, production performance analysis, and workstation-level visibility whilst improving coordination between manufacturing teams, production supervisors, logistics operations, maintenance environments, and enterprise planning activities.

Because workstation operations remain synchronised directly with manufacturing workflows, inventory systems, production planning, quality management, and operational reporting infrastructures, organisations gain improved transparency and more accurate oversight across industrial production ecosystems. This integrated architecture enables businesses to modernise manufacturing coordination, strengthen operational accountability, improve production organisation, and support scalable industrial management strategies across highly connected and enterprise-grade manufacturing environments.

The module supports:

- Workstation allocation
- Production monitoring
- Operational resource tracking
- Manufacturing performance analysis
- Workforce and equipment coordination

By improving operational organisation and manufacturing visibility, organisations strengthen production coordination, optimise industrial resource management, and improve operational efficiency across modern manufacturing and industrial production ecosystems.

PRODUCT MANAGEMENT

Enterprise Inventory, Manufacturing & Product Lifecycle Management Platform

A unified ecosystem to manage products, services, inventory, manufacturing, traceability, and operational resources across your entire supply chain.



REAL-TIME VISIBILITY

End-to-end visibility across every product and operation



OPERATIONAL EXCELLENCE

Streamline processes and reduce inefficiencies



QUALITY & COMPLIANCE

Ensure compliance, quality, and full traceability



DATA-DRIVEN DECISIONS

Make smarter decisions with accurate and real-time data



SCALABLE & INTEGRATED

Built to scale and integrate across the ERP ecosystem



5.1 PRODUCTS

- Product catalog
- Pricing management
- Product descriptions
- Product specifications

Centralized product data for better inventory and sales operations



5.2 SERVICES

- Service catalog
- Duration management
- Service pricing
- Service descriptions

Better service standardization and simplified service operations



5.3 STOCKS

- Stock movement tracking
- Inventory control
- Warehouse visibility
- Inventory reporting

Reduced stock shortages and improved inventory accuracy

4 PRODUCT LOTS, SERIALIZATION & TRACEABILITY MANAGEMENT

Enterprise Batch Control, Expiration Monitoring & Supply Chain Traceability Platform



Track Every Product Across Its Lifecycle

- ✓ Procurement
- ✓ Manufacturing
- ✓ Packaging
- ✓ Warehousing
- ✓ Distribution
- ✓ Sales
- ✓ Customer Delivery
- ✓ Returns & Recalls

Industries Supported



and more...

Complete traceability. Stronger compliance. Safer products. Smarter operations.



PRODUCT VARIANTS

- Variant combinations
- Product attribute management
- SKU generation

Manage complex product variations with ease



BOM & MANUFACTURING STRUCTURE MANAGEMENT

- Multi-level BOM structures
- Engineering revisions
- Alternative components
- Routing dependencies
- Costing & material planning

Accurate BOM control for efficient manufacturing and planning



MANUFACTURING ORDERS (MO)

- Manufacturing orders
- Production scheduling
- Resource planning
- Work order tracking

Streamlined production and resource utilization



SAP ORACLE C19 BRIDGE

- Enterprise integration
- Oracle 19c connectivity
- SAP interoperability
- High-performance synchronization

Seamless integration with SAP on Oracle 19c



WORKSTATION

- Workstation allocation
- Production monitoring
- Operational resource tracking
- Manufacturing performance analysis
- Workforce & equipment coordination

Optimize workstation usage and production efficiency

END-TO-END PRODUCT LIFECYCLE



PRODUCT DEVELOPMENT



PROCUREMENT



MANUFACTURING



WAREHOUSING



DISTRIBUTION



SALES



CUSTOMER DELIVERY



RETURNS & RECALLS

One Platform. Complete Control. Stronger Growth.

KEY BUSINESS BENEFITS



IMPROVED INVENTORY ACCURACY

Real-time stock visibility reduces errors and stockouts.



OPERATIONAL EFFICIENCY

Streamlined workflows improve productivity across all departments.



COST OPTIMIZATION

Better planning and control reduce waste and operational costs.



COMPLIANCE & TRACEABILITY

Ensure regulatory compliance and product safety at every step.



DATA-DRIVEN GROWTH

Leverage insights to make smarter decisions and drive growth.

SEAMLESSLY INTEGRATED WITH



FINANCE



SALES & CRM



PROCUREMENT



INVENTORY



MANUFACTURING



WAREHOUSE



LOGISTICS



QUALITY



REPORTING & ANALYTICS



AI & FORECASTING ANALYTICS

PROJECTS & COLLABORATIVE WORK

Enterprise Project Coordination, Operational Collaboration & Organisational Workflow Management Platform

The Projects & Collaborative Work suite within Sentosa ERP provides a comprehensive enterprise environment for managing projects, operational coordination, teamwork, scheduling activities, resource allocation, event administration, and cross-department collaboration across highly connected business ecosystems.


The platform centralises operational planning whilst synchronising projects, workflows, communication activities, scheduling environments, organisational resources, and enterprise coordination into one integrated ERP-connected infrastructure.

Designed for both operational and strategic environments, the suite enables organisations to coordinate internal departments, external stakeholders, suppliers, operational teams, project managers, and

executive oversight functions through one unified collaboration ecosystem.

The platform supports:

- Project management
- Task coordination
- Opportunity tracking
- Event planning
- Organisational scheduling
- Meeting coordination
- Operational resource allocation
- Team collaboration
- Calendar synchronisation
- Workflow visibility
- Cross-department communication
- Enterprise operational planning

 ne of the defining strengths of the collaboration ecosystem is its ability to connect operational projects

directly with CRM environments, procurement operations, manufacturing activities, logistics workflows, HR systems, accounting infrastructures, and enterprise reporting services.

The architecture integrates closely with:

- CRM and commercial operations
- Human resources environments
- Procurement and logistics
- Inventory and warehousing
- Accounting and reporting
- Workflow automation systems
- Notifications and communications
- Calendar infrastructures
- Resource management platforms

Because all collaborative activities remain connected inside the ERP ecosystem, organisations gain improved operational transparency, stronger team coordination, better scheduling visibility, and more efficient enterprise-wide communication across highly dynamic operational environments.

The suite is especially valuable for organisations managing:

- Multi-department operations
- International projects
- Manufacturing coordination
- Event-based operations
- Service organisations
- Construction and engineering projects
- Logistics planning
- Government-linked environments
- Distributed workforce ecosystems

By combining project management, scheduling coordination, operational collaboration, and enterprise resource visibility into one scalable platform, the Projects & Collaborative Work suite significantly strengthens Sentosa ERP as a modern enterprise coordination infrastructure designed for highly connected organisational environments.

The platform additionally improves cross-department communication, operational accountability, workforce coordination and project transparency

PROJECTS & LEADS

The Projects & Leads module enables organisations to manage operational projects, commercial opportunities, internal initiatives, customer engagements, and task coordination activities within one centralised operational environment.

The module supports:

- Project tracking
- Task assignment
- Opportunity management
- Cross-module linking
- Progress monitoring

The platform allows organisations to maintain complete visibility across operational timelines, assigned responsibilities, workflow dependencies, commercial opportunities, and project-related activities whilst improving coordination between departments, operational teams, suppliers, and external stakeholders. Because project operations remain synchronised directly with CRM, accounting, procurement, HR, logistics, and reporting systems, organisations gain stronger operational oversight and more accurate visibility across enterprise activities.

EVENT ORGANISATION

The Event Organisation module provides structured operational tools for planning, coordinating, managing, and executing events across enterprise, commercial, educational, governmental, and operational environments.

The module supports:

- Event planning
- Scheduling coordination
- Workflow management
- Event administration tools

The platform enables organisations to coordinate event-related activities including operational scheduling, participant coordination, venue planning, workforce allocation, equipment preparation, supplier management, and logistical support workflows. By centralising event coordination inside the ERP ecosystem, organisations improve execution efficiency, strengthen operational planning, simplify communication workflows, and maintain better visibility across event preparation and management activities.

The architecture also supports collaboration between departments, operational teams, management structures, vendors, and external participants whilst

improving organisational accountability and scheduling transparency.

EVENTS & AGENDA

The Events & Agenda module provides a centralised calendar and scheduling environment designed to support meetings, operational activities, reminders, event coordination, workforce scheduling, and enterprise communication workflows.

The module supports:

- Manual event management
- Automatic event logging
- Calendar integration
- Meeting scheduling

The platform enables organisations to maintain structured visibility across appointments, operational deadlines, project activities, team schedules, executive meetings, and enterprise coordination environments whilst improving communication and operational alignment across distributed teams.

Because agenda activities remain synchronised directly with projects, CRM systems, HR environments,

workflow automation services, and notification infrastructures, organisations benefit from more efficient operational planning and stronger scheduling coordination.

RESOURCES

The Resources module enables organisations to manage operational assets, organisational facilities, workforce allocations, equipment scheduling, room management, transportation coordination, and enterprise resource utilisation through one structured operational framework.

The module supports:

- Resource scheduling
- Room allocation
- Equipment management
- Vehicle booking

The platform improves operational planning by allowing organisations to coordinate shared enterprise resources efficiently whilst reducing scheduling conflicts, operational overlaps, and resource allocation inefficiencies across departments and operational teams.

Because resource management remains integrated directly with projects, events, HR systems, logistics

PROJECTS & COLLABORATIVE WORK

Collaborate. Plan. Execute. Succeed.

The collaboration suite supports projects, teamwork, event management, and organizational coordination.

COLLABORATE EFFECTIVELY
Bring teams, tasks and stakeholders together.

PLAN SMARTER
Organize projects, events and resources with structure.

STAY ON TRACK
Monitor progress, meet deadlines and manage priorities.

CONNECTED ECOSYSTEM
Seamlessly link across ERP modules.

IMPROVE OUTCOMES
Enhance visibility, accountability and operational agility.



6.1 PROJECTS OR LEADS

Manages projects, opportunities, tasks, and related activities.

KEY FEATURES

- Project tracking
- Task assignment
- Opportunity management
- Cross-module linking
- Progress monitoring

BUSINESS BENEFITS

- Better project visibility
- Improved team coordination
- Centralized operational oversight

6.2 EVENT ORGANIZATION

Supports organization of events through the project module.

KEY FEATURES

- Event planning
- Scheduling
- Coordination workflows
- Event management tools

BUSINESS BENEFITS

- Improved event execution
- Better operational planning
- Enhanced collaboration

6.3 EVENTS / AGENDA

Centralized calendar and event management system.

KEY FEATURES

- Manual event management
- Automatic event logging
- Calendar integration
- Meeting scheduling

BUSINESS BENEFITS

- Better scheduling
- Improved communication
- Enhanced operational tracking

6.4 RESOURCES

Manages organizational resources allocated to events.

KEY FEATURES

- Resource scheduling
- Room allocation
- Equipment management
- Vehicle booking

BUSINESS BENEFITS

- Better resource utilization
- Reduced scheduling conflicts
- Improved operational planning



KEY BUSINESS BENEFITS

- IMPROVED VISIBILITY**: End-to-end visibility across projects, events and tasks.
- STRONGER COLLABORATION**: Break down silos and empower teamwork.
- BETTER RESOURCE UTILIZATION**: Optimize resources, time and organizational assets.
- INCREASED PRODUCTIVITY**: Automate workflows and reduce manual effort.
- FASTER DECISION MAKING**: Real-time insights for better operational decisions.
- GREATER ACCOUNTABILITY**: Clear ownership, tracking and auditability.

SEAMLESSLY INTEGRATED WITH

- CRM**: Customer & Opportunity Management
- HRM**: People & Workforce Management
- FINANCE**: Accounting & Reporting
- PROCUREMENT**: Vendor & Purchase Management
- INVENTORY**: Stock & Warehouse Management
- MANUFACTURING**: Production & Shop Floor Operations
- LOGISTICS**: Delivery & Transport Management
- DOCUMENTS**: Document & File Management
- NOTIFICATIONS**: Alerts & Communication

workflows, and operational scheduling environments, organisations gain stronger visibility across enterprise resource utilisation and long-term operational planning activities.

ENTERPRISE PLATFORM SERVICES

Cross-Platform Intelligence, Integration & Operational Enhancement Framework


The Enterprise Platform Services category within Sentosa ERP represents the foundational intelligence and infrastructure layer that unifies, extends, and enhances the capabilities of the entire ERP ecosystem.

Unlike department-specific operational modules such as Accounting, CRM, Inventory, Manufacturing, or HR, these enterprise services operate across multiple ERP domains simultaneously and provide shared capabilities that improve automation, interoperability, scalability, usability, enterprise intelligence, and digital transformation readiness throughout the entire platform.

The Enterprise Platform Services layer functions as the operational backbone connecting workflows, APIs, communication systems, automation engines, AI frameworks, websites, portals, document systems, analytics services, compliance controls, and digital business infrastructures into one intelligent enterprise environment.

The platform supports:

- Artificial intelligence and automation
- API and integration services
- Workflow orchestration
- Rich content management
- Multi currency financial operations
- Barcode and QR ecosystems
- Enterprise classification and taxonomy management
- Data migration and synchronisation
- Privacy and compliance frameworks
- Application development environments
- Notifications and communication systems
- Website and portal integration
- Enterprise interoperability services

 One of the defining strengths of the Enterprise Platform Services layer is its ability to transform Sentosa ERP from a traditional ERP application into a fully connected

digital enterprise ecosystem capable of supporting modern operational environments, intelligent automation workflows, international expansion strategies, and highly scalable enterprise architectures.

The architecture integrates directly with:

- CRM and customer management
- Accounting and finance
- Procurement and logistics
- Manufacturing environments
- Inventory and warehousing
- HR and workforce systems
- Portals and web services
- APIs and external applications
- AI and analytics infrastructures
- Enterprise reporting platforms

Because these services operate across the entire ERP architecture, organisations gain the flexibility required to adapt the platform to highly specialised industry environments, operational governance models, enterprise

integrations, and future digital technologies without disrupting core operational continuity.

The Enterprise Platform Services ecosystem is especially valuable for organisations undergoing:

- Digital transformation initiatives
- Enterprise modernisation projects
- International expansion
- Cloud migration programs
- Workflow automation initiatives
- AI adoption strategies
- Omnichannel business operations
- Enterprise integration deployments
- Smart operational infrastructure projects

By combining automation, interoperability, enterprise intelligence, workflow orchestration, API integration, and scalable digital infrastructure into one unified operational framework, the Enterprise Platform Services category significantly strengthens Sentosa ERP as a modern, intelligent, and future-ready enterprise ecosystem

capable of supporting highly connected global business environments.

ENTERPRISE RICH CONTENT EDITOR

Advanced WYSIWYG Document & Content Authoring Platform

The Enterprise Rich Content Editor module provides advanced visual document editing and content authoring capabilities throughout the Sentosa ERP ecosystem using integrated WYSIWYG technologies powered by CKEditor.

The platform enables users to create professional business content directly inside the ERP environment without requiring technical coding or HTML knowledge.

The module supports:

- Rich text formatting
- Tables and layouts
- Images and embedded media
- Hyperlinks
- Styled content blocks
- HTML editing

- Multilingual content management
- Copy-paste formatting preservation

The editor is integrated throughout the ERP ecosystem and may be used for:

- Customer communications
- Product descriptions
- Contracts and agreements
- Knowledge management
- Website content
- Email templates
- Reports and documentation
- Helpdesk communications
- Marketing content
- Portal information

Because the editor operates directly inside the ERP infrastructure, organisations improve content consistency, document presentation quality, operational

productivity, and communication management across internal and customer-facing business environments.

ENTERPRISE CLASSIFICATION & TAXONOMY MANAGEMENT

Intelligent Tagging, Categorization & Business Entity Structuring System

The Enterprise Classification & Taxonomy Management module provides a centralised framework for organising, categorising, tagging, and structuring operational information across the entire Sentosa ERP ecosystem.

Unlike basic tagging systems, the module functions as an enterprise-wide metadata and classification architecture capable of structuring:

- Products
- Customers
- Suppliers
- Projects
- Documents
- Invoices

- Assets
- Inventory
- Contracts
- Employees
- CRM records
- Orders
- Operational workflows
- Custom ERP objects

The platform supports:

- Hierarchical categories
- Dynamic tagging
- Cross-module classification
- Metadata association
- Workflow filtering
- Reporting classifications
- Search optimisation

- Business segmentation

Because classification structures operate across the ERP environment, organisations can improve operational visibility, reporting quality, automation workflows, analytics capabilities, and enterprise data organisation across highly complex operational ecosystems.

MULTICURRENCY

Global Currency, Digital Asset & Precious Metal Financial Management

The Multicurrency module provides advanced international financial management capabilities enabling organisations to operate across multiple currencies, payment systems, financial infrastructures, and international business environments.

Unlike traditional multicurrency ERP systems limited to fiat currencies, Sentosa ERP supports highly flexible financial structures capable of handling:

- Global fiat currencies
- Regional currencies
- Cryptocurrencies
- Stablecoins

- Precious metals
- Commodity-backed instruments
- Alternative monetary systems
- Internal accounting units

The platform supports:

- Exchange rate management
- Automatic currency conversion
- International invoicing
- FX calculations
- Currency-specific reporting
- Multi-currency bank accounts
- Supplier currency profiles
- Cross-border accounting operations

The architecture integrates directly with accounting systems, payment gateways, banking infrastructures, procurement workflows, e-commerce environments, POS systems, logistics operations, and subscription services.

By centralising global financial operations into one ERP-connected ecosystem, organisations improve international financial governance, simplify multi-jurisdiction accounting, strengthen cross-border operational visibility, and support future-ready digital financial infrastructures.

RSS FEED

Real-Time Information, News & External Content Integration

The RSS Feed module provides integrated support for displaying syndicated information feeds, market intelligence, operational updates, industry news, security alerts, and external information streams directly within the ERP environment.

The platform supports feeds from:

- Financial markets
- Government agencies
- Logistics providers
- Industry publications
- Security advisories
- Monitoring systems

- Internal company feeds
- External operational platforms

The module improves situational awareness by enabling users to monitor business-critical information directly inside dashboards, operational workspaces, portals, and enterprise coordination environments without leaving the ERP platform.

ARTIFICIAL INTELLIGENCE (AI)

Enterprise AI Automation, Intelligence & Cognitive ERP Platform

The Artificial Intelligence module transforms Sentosa ERP into an intelligent enterprise ecosystem capable of automating operations, analysing business data, assisting users, optimising workflows, and improving enterprise decision-making processes in real time.

Unlike isolated chatbot integrations, the AI framework functions as a fully integrated enterprise intelligence layer capable of interacting directly with ERP records, workflows, APIs, documents, analytics engines, and operational business logic.

The module supports integration with:

- OpenAI ChatGPT
- DeepSeek
- European sovereign AI providers
- Private enterprise AI infrastructures
- Local AI deployments
- Cloud-based AI platforms

The AI framework supports:

- AI-assisted reporting
- Predictive analytics
- Intelligent search
- Smart document analysis
- Automated communication
- ERP data summarisation
- Workflow recommendations
- Fraud and anomaly detection
- Business forecasting
- AI-powered support systems
- Natural language ERP interactions

- Automated content generation

Because AI capabilities integrate directly with operational ERP workflows, organisations can apply intelligent automation to real business environments rather than limiting AI usage to isolated conversational systems.

The architecture also supports future enterprise AI technologies including:

- Autonomous ERP agents
- AI workflow orchestration
- Robotic process automation
- Voice interfaces
- Multimodal AI systems
- Enterprise knowledge models
- Intelligent analytics engines

By combining automation, cognitive assistance, operational intelligence, and AI-driven decision support into one enterprise platform, the Artificial Intelligence module significantly strengthens Sentosa ERP as a next-generation intelligent business ecosystem.

BARCODE & QR CODE MANAGEMENT

Universal Barcode, QR Code & Enterprise Identification Platform

The Barcode & QR Code Management module provides a comprehensive enterprise identification environment for generating, scanning, printing, and processing international barcode and QR code standards across operational workflows.

The platform supports:

- Barcode generation
- QR code generation
- Label printing
- Barcode scanning
- Product identification
- Asset tagging
- Warehouse automation
- Shipment tracking
- POS integration
- Mobile scanning workflows

The module supports major standards including:

- Code 39
- Code 128
- EAN
- UPC
- QR Code
- DataMatrix
- PDF417
- GS1 standards
- Logistics labels
- Serial tracking codes

The architecture integrates directly with warehousing systems, manufacturing environments, logistics infrastructures, POS operations, mobile devices, thermal printers, and industrial scanning systems.

By centralising enterprise identification workflows into one integrated ERP ecosystem, organisations improve inventory accuracy, logistics efficiency, operational automation, product traceability, and enterprise-wide tracking capabilities.

INTER-MODULE WORKFLOW AUTOMATION

Cross-Department Business Process & Status Automation Engine

The Inter-Module Workflow Automation module provides intelligent workflow orchestration capabilities allowing ERP modules to communicate, synchronise activities, and trigger automated operational processes across the enterprise ecosystem.

The platform automates workflows between:

- CRM
- Accounting
- Inventory
- Manufacturing
- Logistics
- HR
- Procurement

- Projects
- Helpdesk
- Subscription systems

The module supports automation based on:

- Status changes
- Document validation
- User actions
- Scheduled events
- API triggers
- Business rules
- Approval workflows

By automating cross-department operations, organisations improve workflow efficiency, reduce manual intervention, strengthen operational consistency, accelerate enterprise processes, and improve coordination across highly connected operational environments.

DATA IMPORTS

Enterprise Data Migration & Structured Import Platform

The Data Imports module provides guided workflows and structured tools for importing operational information into the ERP ecosystem from spreadsheets, databases, legacy systems, APIs, and third-party applications.

The platform supports:

- CSV imports
- Excel imports
- XML processing
- JSON integration
- Field mapping
- Validation controls
- Duplicate detection
- Data synchronisation

The module is especially valuable for ERP migration projects, bulk onboarding operations, legacy system

replacement, and enterprise data synchronisation initiatives.

DATA EXPORTS

Reporting, Integration & Enterprise Data Extraction Tools

The Data Exports module provides structured tools for extracting operational data from the ERP environment for reporting, analytics, migration, compliance, interoperability, and enterprise integration purposes.

The platform supports exporting:

- CRM records
- Financial data
- Inventory operations
- HR records
- Project information
- Manufacturing data
- Logistics activities
- Product catalogs

Supported formats include:

- CSV
- Excel
- XML
- JSON
- PDF
- Structured integration files

By centralising enterprise data extraction capabilities, organisations improve reporting flexibility, interoperability, compliance management, business intelligence integration, and external operational synchronisation.

DATA PRIVACY & COMPLIANCE MANAGEMENT

*GDPR, PDPA & Enterprise Data Protection
Framework*

The Data Privacy & Compliance Management module provides organisations with administrative controls and governance frameworks supporting GDPR, PDPA, and international privacy compliance requirements.

The module supports:

- Consent tracking
- Privacy governance
- Retention management
- Access controls
- Auditability
- Data portability workflows
- Right-to-erasure requests
- Sensitive information protection

The architecture integrates with CRM, HR, portals, communication systems, document management, and user management environments to maintain consistent enterprise privacy governance across operational ecosystems.

APPLICATION BUILDER

Low-Code / No-Code Extension & Custom Module Development Platform

The Application Builder module provides a low-code and no-code development environment for creating custom ERP extensions, workflows, forms, applications, menus, and business processes directly inside the Sentosa ERP ecosystem.

The platform supports:

- Custom modules
- Workflow creation
- Form design
- Custom fields
- Database-driven applications
- ERP extensions
- Internal operational tools
- Industry-specific applications

Because the Application Builder integrates directly with ERP permissions, workflows, APIs, reporting systems, and operational data structures, organisations can rapidly develop specialised business solutions without relying heavily on external software development environments.

By enabling highly flexible enterprise customisation and rapid operational adaptation, the Application Builder significantly strengthens Sentosa ERP as a scalable, extensible, and future-ready enterprise platform capable of supporting highly specialised operational requirements across multiple industries and global business environments.

ENTERPRISE PLATFORM SERVICES

Cross-Platform Intelligence, Integration & Operational Enhancement Framework

A powerful ecosystem of advanced services that unify, extend and intelligently enhance the entire ERP platform—driving automation, integration, innovation and operational excellence across every department and every workflow.

UNIFIED INTELLIGENCE
AI, automation and analytics integrated across all modules to deliver smarter operations.

SEAMLESS INTEGRATION
APIs, workflows and platform services connect every module, system and process.

ENTERPRISE SCALE
Built for global businesses with multi-currency, compliance and scalable architecture.

FUTURE READY
Extensible, adaptive and designed to support tomorrow's technologies and business models.



ENTERPRISE BENEFITS

- End-to-end platform enhancement across all modules
- Stronger operational efficiency and automation
- Better data governance, accuracy and compliance
- Faster integration with external systems
- Enhanced user experience and productivity
- Scalable architecture for global growth
- Supports digital transformation and innovation initiatives

ENTERPRISE PLATFORM SERVICES OVERVIEW

<p>CATEGORY Enterprise Platform Services</p>	<p>PRIMARY PURPOSE Cross-platform ERP enhancement and infrastructure services</p>	<p>MAIN FUNCTIONS Integration, automation, AI interoperability, workflows</p>	<p>SCOPE Enterprise-wide shared services</p>	<p>INTEGRATION All major ERP modules and operational systems</p>	<p>USERS Administrators, developers, operational teams, enterprise users</p>
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8.1 ENTERPRISE RICH CONTENT EDITOR

Advanced WYSIWYG editor powered by CKEditor for creating and managing rich business content directly in ERP.

Key Capabilities

- Rich text formatting
- Tables, images & media
- Hyperlinks & lists
- HTML editing
- Multilingual content
- Copy-paste preservation

Key Benefits

- Professional content creation without technical skills
- Consistency & productivity across the organization

8.2 ENTERPRISE CLASSIFICATION & TAXONOMY MANAGEMENT

Centralized tagging, categorization and classification framework for all business entities and ERP objects.

Key Capabilities

- Hierarchical categories
- Dynamic tagging
- Cross-module classification
- Metadata association
- Search & filter optimization
- Business segmentation

Key Benefits

- Better data organization and visibility
- Enhanced reporting and business intelligence

8.3 MULTI-CURRENCY

Global financial management supporting fiat, crypto, precious metals and multiple monetary systems.

Key Capabilities

- Multi-currency transactions
- Exchange rate management
- International invoicing
- FX calculations
- Multi-bank & payment methods
- Consolidated reporting

Key Benefits

- Supports global operations and compliance
- Accurate financial visibility across currencies

8.4 RSS FEED

Integrate and display real-time news, market intelligence and external information feeds within ERP.

Key Capabilities

- Multiple RSS sources
- Custom feed management
- Dashboard integration
- Real-time updates
- Filtered content display

Key Benefits

- Smarter situational awareness
- Real-time information for better decision making

8.5 ARTIFICIAL INTELLIGENCE (AI)

AI-powered intelligence, automation, analytics and natural language capabilities integrated into ERP workflows.

Key Capabilities

- AI chat & assistance
- Cognitive analytics
- Smart document analysis
- Automated content generation
- Anomaly detection
- Workflow recommendations

Key Benefits

- Smarter automation and increased productivity
- Data-driven insights and intelligent decisions

8.6 BARCODE & QR CODE MANAGEMENT

Generate, scan, print and manage barcodes & QR codes across products, assets, logistics and operations.

Key Capabilities

- Barcode & QR generation
- Label printing
- Scanning & validation
- Asset & inventory tagging
- Mobile scanning support
- Multiple barcode standards

Key Benefits

- Better traceability and operational accuracy
- Improved inventory and logistics efficiency

8.7 INTER-MODULE WORKFLOW AUTOMATION

Automate processes and status flows across modules based on triggers, rules and business logic.

Key Capabilities

- Cross-module automation
- Status-based triggers
- Approval workflows
- Scheduled automation
- API & event triggers
- Business rule engine

Key Benefits

- Reduced manual work and errors
- Faster processes and better operational consistency

8.8 DATA IMPORTS

Import data from spreadsheets, databases, legacy systems and third-party sources into ERP.

Key Capabilities

- CSV, Excel, XML, JSON
- Field mapping
- Data validation
- Duplicate detection
- Bulk data processing
- Import templates

Key Benefits

- Faster data onboarding and migration
- Accurate and clean data processing

8.9 DATA EXPORTS

Export structured data for reporting, analytics, compliance and integration requirements.

Key Capabilities

- Multiple export formats
- Custom export templates
- Scheduled exports
- Data filtering
- Large data handling
- Secure export delivery

Key Benefits

- Better reporting and external integration
- Supports compliance and data portability

8.10 DATA PRIVACY & COMPLIANCE MANAGEMENT

Tools for GDPR, PDPA and global privacy compliance, governance and data protection.

Key Capabilities

- Consent management
- Data retention policies
- Access & permission controls
- Data masking & anonymization
- Audit logs & tracking
- Right-to-erasure handling

Key Benefits

- Stronger compliance and risk management
- Protects customer & organizational data

8.11 APPLICATION BUILDER

Low-code / no-code platform to build custom modules, forms, workflows and enterprise applications.

Key Capabilities

- Custom modules & forms
- Workflow builder
- Custom fields
- Business logic & scripts
- Menu & access configuration
- Rapid application development

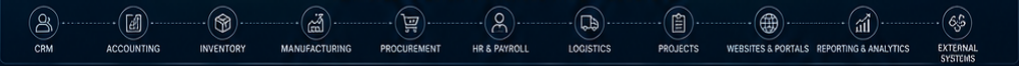
Key Benefits

- Faster customization and innovation
- Empowers teams to build what they need

ENTERPRISE IMPACT

- Unified Platform**
One platform, unlimited possibilities.
- Intelligent Automation**
Reduce cost, save time and automate smarter.
- Seamless Integration**
Connect everything. Work everywhere.
- Secure & Compliant**
Protect data. Ensure trust and compliance.
- Scalable for Growth**
Adapt, scale and succeed in any environment.

SEAMLESS INTEGRATION ACROSS THE ERP ECOSYSTEM



<p>BUILT FOR THE FUTURE Advanced services that evolve with your business and technology.</p>	<p>DESIGNED FOR ENTERPRISES Robust, flexible and reliable architecture for complex needs.</p>	<p>POWERING DIGITAL TRANSFORMATION Transform operations, elevate experiences and unlock new opportunities.</p>	<p>ONE PLATFORM. LIMITLESS VALUE. The enterprise foundation for today and the innovation engine for tomorrow.</p>
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WEBSITES & FRONT-END APPLICATIONS

Enterprise Digital Experience, Customer Access & Web Interaction Platform


The Websites & Front-End Applications suite within Sentosa ERP provides a fully integrated digital interaction environment designed to connect organisations, customers, suppliers, partners, members, employees, and external stakeholders through secure, real-time, ERP-connected web technologies.

Unlike disconnected third-party front-end systems that require complex integrations and duplicated databases, the Sentosa ERP front-end architecture operates natively within the ERP ecosystem itself, allowing operational data, business workflows, customer interactions, and enterprise services to function through one unified digital infrastructure.

The platform transforms Sentosa ERP into a complete enterprise digital business environment capable of supporting websites, portals, POS operations, customer self-service systems, surveys, voting platforms, booking environments, interactive applications, and real-time operational collaboration interfaces.

The suite supports:

- Corporate websites
- Customer portals
- Supplier access platforms
- Digital self-service environments
- POS and retail systems
- Interactive surveys and voting
- Event and booking systems
- ERP-connected web applications
- Multi-language digital environments
- Mobile-friendly interfaces
- Real-time operational publishing
- Integrated customer experiences

 ne of the defining strengths of the front-end ecosystem is its ability to expose live ERP-connected operational information directly through secure web interfaces without relying on separate CMS platforms,

disconnected databases, synchronisation bridges, or fragmented customer-facing systems.

The architecture integrates directly with:

- CRM and customer management
- Accounting and invoicing
- Inventory and warehousing
- Subscription systems
- Membership management
- Projects and collaboration
- Payment gateways
- APIs and authentication systems
- Notifications and communications
- Logistics and order management

Because all front-end applications operate directly inside the ERP environment, organisations gain real-time operational synchronisation between customer interactions, enterprise workflows, financial operations, inventory visibility, support systems, and digital business services.

The platform is especially valuable for organisations requiring:

- Omni channel business operations
- Integrated e-commerce environments
- Digital customer engagement
- International web operations
- Enterprise self-service infrastructures
- Retail and hospitality systems
- Real-time operational publishing
- ERP-connected digital transformation strategies

By combining websites, portals, POS systems, customer interaction platforms, and ERP-connected digital services into one scalable operational framework, the Websites & Front-End Applications suite significantly strengthens Sentosa ERP as a modern enterprise digital experience platform designed for highly connected global business ecosystems.

POLL, SURVEY & VOTING SYSTEM

Enterprise Feedback, Decision & Engagement Platform

The Poll, Survey & Voting System module provides organisations with an integrated platform for creating surveys, questionnaires, polls, voting campaigns, and stakeholder engagement workflows directly inside the ERP ecosystem.

The module supports:

- Employee satisfaction surveys
- Customer feedback collection
- Vendor evaluations
- Governance voting
- Market research
- Training assessments
- Event registrations
- Compliance questionnaires

The platform includes:

- Multiple question types
- Anonymous or authenticated participation
- Multi-language surveys
- Scheduled campaigns
- Real-time statistics
- Mobile-friendly participation
- Automated notifications
- Access permission management

Because survey and voting activities integrate directly with CRM, HR, projects, memberships, and operational workflows, organisations can analyse participation data alongside enterprise operational information whilst improving stakeholder engagement and collaborative decision-making processes.

POS SYSTEM

Touchscreen Point-of-Sale & Retail Operations Platform

The POS System module provides a fully integrated touchscreen Point-of-Sale environment designed for retail stores, restaurants, hospitality environments, food-service operations, cafeterias, convenience stores, and service-oriented commercial ecosystems.

The platform supports:

- Touchscreen sales processing
- Barcode scanning
- Product lookup
- Table and order management
- Split billing
- Receipt printing
- Kitchen ticket routing
- Multi-payment processing
- Multi-user cashier operations

- Real-time inventory synchronisation

The module supports payment methods including:

- Cash
- Credit and debit cards
- QR payments
- Mobile wallets
- PromptPay
- Stripe integrations
- Gift cards
- Loyalty credits
- Bank transfers

Because the POS environment operates directly inside the ERP ecosystem, sales activities synchronise instantly with inventory, accounting, CRM, logistics, reporting, and operational analytics environments without requiring separate synchronisation systems. The architecture is especially valuable for multi-location retail operations, hospitality groups, restaurant environments, and enterprise food-service ecosystems requiring real-time operational visibility and centralised business management.

WEB PORTAL

Customer, Supplier & Enterprise Self-Service Access Platform

The Web Portal module provides secure self-service web access for customers, suppliers, partners, vendors, members, and external stakeholders connected to the Sentosa ERP ecosystem.

The platform enables authorised external users to securely access:

- Orders and quotations
- Invoices and payments
- Delivery tracking
- Contracts and subscriptions
- Support tickets
- Project updates
- Membership services
- Documents and files
- Booking systems

- Notifications and communications

The architecture supports:

- Customer portals
- Supplier portals
- Vendor management systems
- B2B partner platforms
- Franchise environments
- Distributor ecosystems
- Member access systems

Because the Web Portal operates natively within the ERP infrastructure, organisations eliminate the need for disconnected portal applications, duplicated operational databases, and complex synchronization environments whilst maintaining real-time operational visibility and secure external collaboration.

The module also supports responsive interfaces, multi-language environments, authentication security, mobile access, and role-based permission management suitable for international enterprise ecosystems.

WEBSITES

Integrated Enterprise CMS & Dynamic Website Management Platform

The Websites module transforms Sentosa ERP into a fully integrated enterprise-grade website and content management platform capable of powering corporate websites, digital portals, e-commerce environments, landing pages, subscription systems, and ERP-connected public-facing applications.

Unlike external CMS platforms such as WordPress, Joomla, or Drupal, the Websites module operates directly inside the ERP ecosystem and allows organisations to publish live operational data directly from ERP records in real time.

The platform supports publishing:

- Product catalogs
- Inventory availability
- Customer portals
- Event calendars
- Membership directories
- Project information
- News and announcements

- CRM-driven content
- Subscription services
- Booking systems
- Knowledge bases
- E-commerce content

The module supports:

- Dynamic page generation
- SEO-friendly URLs
- Responsive design
- Multi-language websites
- Integrated forms
- Media management
- Workflow-driven publishing
- User authentication
- ERP-connected content rendering

Because website content remains directly connected to ERP data structures, organisations no longer require duplicated databases, third-party plugins, synchronisation bridges, or disconnected web infrastructures.

The architecture integrates directly with:

- CRM
- Inventory management
- Payment gateways
- E-commerce systems
- Subscription services
- APIs and authentication
- Campaign systems
- Notifications and communications

This enables organisations to manage internal operations, customer interactions, web publishing, and digital business workflows through one unified enterprise infrastructure whilst significantly reducing operational complexity, maintenance overhead, integration risks, and external system dependencies.

By combining ERP-connected websites, operational publishing, customer interaction services, and digital business workflows into one scalable ecosystem, the Websites module significantly strengthens Sentosa ERP as a fully integrated digital enterprise platform capable of supporting modern web-driven business operations across global markets.

WEBSITES & FRONT-END APPLICATIONS

Enterprise Digital Experience, Customer Access & Web Interaction Platform

A fully integrated front-end ecosystem within Sentosa ERP that connects organizations, customers, suppliers, partners and employees through websites, portals, POS systems, surveys, booking systems and interactive applications – all powered by real-time ERP data.



ERP-NATIVE INTEGRATION

All front-end applications operate directly inside the ERP ecosystem – no data silos, no synchronization delays.



REAL-TIME DATA & OPERATIONS

Live data from inventory, sales, finance, CRM and operations published instantly to web interfaces.



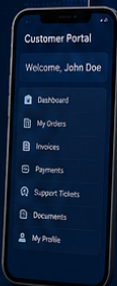
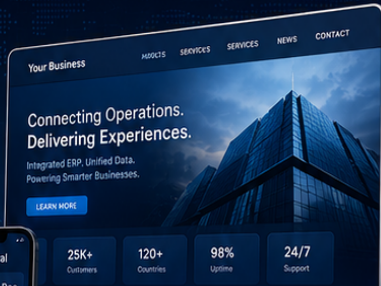
SECURE & ROLE-BASED

Advanced authentication and permission controls ensure secure access for every user, everywhere.



RESPONSIVE & MOBILE-FIRST

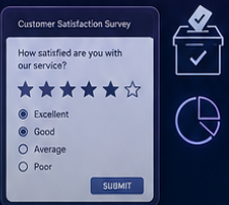
Modern, responsive designs for seamless experience across desktop, tablet and mobile devices.



POWERFUL FRONT-END CAPABILITIES

9.1 POLL, SURVEY & VOTING SYSTEM

Engage. Collect Feedback. Make Better Decisions.



- ✓ Multiple question types
- ✓ Anonymous or authenticated voting
- ✓ Real-time statistics & reporting
- ✓ Multi-language surveys
- ✓ Scheduled campaigns
- ✓ Automated notifications
- ✓ Public or private participation

Ideal for: Customer feedback, employee surveys, governance voting, vendor evaluations, market research, compliance.

9.2 POS SYSTEM

Fast. Reliable. Connected. Complete Retail & Restaurant Solution.

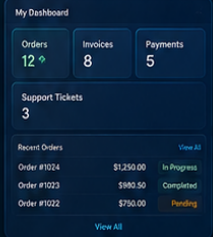


- ✓ Touchscreen sales & barcode scanning
- ✓ Table & order management
- ✓ Split billing & multi-payment support
- ✓ Receipt & kitchen ticket printing
- ✓ Real-time inventory updates
- ✓ Discounts, promotions & loyalty
- ✓ Multi-branch & multi-user support

Ideal for: Retail stores, restaurants, cafeterias, hospitality, convenience stores, food courts, service businesses.

9.3 WEB PORTAL

Self-Service Access for Customers, Suppliers, Partners & Members.



- ✓ Orders, invoices & payment tracking
- ✓ Support tickets & communication
- ✓ Documents, contracts & files
- ✓ Membership & subscription access
- ✓ Multi-role & permission based access
- ✓ Mobile-friendly & secure environment

Ideal for: Customers, suppliers, vendors, partners, distributors, members, franchisees and B2B networks.

9.4 WEBSITES

ERP-Powered Websites. Dynamic. Intelligent. Integrated.



- ✓ Dynamic content from ERP data
- ✓ Product catalogs & inventory display
- ✓ News, events & announcements
- ✓ Multi-language & SEO-friendly
- ✓ Integrated forms & customer login
- ✓ E-commerce & payment integration
- ✓ No external CMS or duplicate databases

Ideal for: Corporate websites, portals, e-commerce, landing pages, event sites, membership platforms and more.

SEAMLESS ERP INTEGRATION



CRM

Customer data & engagement



INVENTORY

Live stock & product data



ACCOUNTING

Invoices, payments & financials



SUBSCRIPTIONS

Plans, billing & renewals



PAYMENTS

Gateways & multi-currency support



PROJECTS

Updates & file sharing



NOTIFICATIONS

Email, SMS & in-app alerts



APIS

External system connectivity

KEY BENEFITS

- ✓ Unified digital experience across all stakeholders
- ✓ Real-time operational visibility and accuracy
- ✓ Reduced IT complexity and integration costs
- ✓ Scalable for global and multi-entity operations
- ✓ Better engagement, satisfaction and loyalty
- ✓ Future-ready digital business infrastructure



ACCESS ANYTIME, ANYWHERE



100%
ERP CONNECTED

REAL-TIME
SYNCHRONIZATION

SECURE
BY DESIGN

INTERFACES WITH EXTERNAL SYSTEMS

Enterprise Connectivity, Communication & Digital Integration Infrastructure

The Interfaces with External Systems suite within Sentosa ERP provides the enterprise connectivity layer that enables secure communication, interoperability, automation, authentication, payment processing, messaging, telephony, and real-time synchronisation between the ERP ecosystem and external digital infrastructures.


The platform transforms Sentosa ERP into a fully connected enterprise environment capable of integrating with APIs, cloud services, banking infrastructures, payment gateways, messaging platforms, authentication providers, government systems, logistics networks, and modern digital communication ecosystems.

Unlike isolated ERP environments that depend heavily on disconnected middleware and third-party synchronisation tools, Sentosa ERP includes native integration services designed to support scalable enterprise interoperability across both modern and legacy operational infrastructures.

The suite supports:

- API and web service integration

- Social network connectivity
- Enterprise messaging systems
- Bulk communication services
- Real-time notifications
- IMAP and email synchronization
- OAuth2 authentication
- LDAP and directory integration
- Payment gateway connectivity
- Telephony integration
- Webhooks and automation
- WebDAV collaboration environments
- Secure enterprise messaging gateways
- Real-time event orchestration

 ne of the defining strengths of the integration architecture is its ability to connect internal ERP workflows directly with external operational ecosystems whilst maintaining enterprise security, scalability,

compliance, automation, and real-time synchronisation capabilities.

The architecture integrates directly with:

- Banking systems
- Payment gateways
- Government infrastructures
- Logistics providers
- Cloud platforms
- APIs and SaaS services
- Authentication systems
- Mobile applications
- Telephony environments
- E-commerce ecosystems
- Enterprise messaging infrastructures

Because all integration services operate inside the ERP ecosystem, organisations gain improved interoperability, operational transparency, digital scalability,

and automation efficiency across highly connected business environments.

The platform is especially valuable for organisations requiring:

- Digital transformation infrastructures
- API-first enterprise architectures
- Cross-platform synchronisation
- Government and banking integrations
- International logistics connectivity
- Real-time workflow automation
- Omnichannel communication ecosystems
- Secure enterprise interoperability
- Multi-system operational coordination

By combining enterprise integrations, messaging infrastructures, payment systems, APIs, authentication services, and event-driven automation into one unified operational framework, the Interfaces with External Systems suite significantly strengthens Sentosa ERP as a scalable and future-ready enterprise integration platform designed for modern global digital business operations.

SOCIAL NETWORKS

Social Media Integration & Digital Identity Management

The Social Networks module provides integrated social media connectivity and digital identity management capabilities across the ERP ecosystem.

The platform supports integration with:

- Facebook
- LinkedIn
- X (Twitter)
- Instagram
- YouTube
- TikTok
- WhatsApp
- WeChat
- Line
- Discord

The module enables organisations to associate customers, suppliers, employees, members, and partners with digital communication channels and social profiles directly inside CRM and operational records.

Because social information integrates directly with customer management, campaigns, communications, and CRM workflows, organisations improve digital engagement visibility, customer interaction tracking, and omnichannel relationship management across modern communication environments.

INTELLIGENT BUSINESS NOTIFICATIONS

Automated Event-Driven Communication & Alert System

The Intelligent Business Notifications module provides automated communication and alerting capabilities triggered by ERP business activities and operational events occurring throughout the platform.

Notifications may be triggered by:

- Invoice generation
- Payment confirmations
- Shipment updates
- Workflow changes
- HR requests
- Inventory alerts

- Security events
- Ticket updates
- Contract renewals

The platform supports:

- Email notifications
- SMS gateways
- Internal ERP alerts
- Webhooks
- Mobile notifications
- Microsoft 365 integration
- Google Workspace integration
- SMTP services

By automating communication workflows, organisations improve responsiveness, reduce manual communication overhead, strengthen operational visibility, and improve coordination between departments, customers, suppliers, and enterprise stakeholders.

ENTERPRISE CAMPAIGN & BULK MESSAGING

Multi-Channel Email Distribution & Marketing Communication Platform

The Enterprise Campaign & Bulk Messaging module provides large-scale communication capabilities for newsletters, customer engagement, operational messaging, announcements, and automated communication workflows directly from within the ERP ecosystem.

The platform supports:

- Bulk email campaigns
- Transactional messaging
- Newsletters
- Customer notifications
- Scheduled campaigns
- Personalised messaging
- Marketing automation
- Multi-recipient distribution lists

Supported integrations include:

- Amazon SES
- SendGrid
- Mailgun

- Mailchimp
- Microsoft 365
- Google Workspace
- SMTP relay infrastructures

Because communication workflows integrate directly with CRM, subscriptions, invoices, projects, customer portals, and operational workflows, organisations gain stronger marketing coordination, customer engagement visibility, and enterprise communication scalability.

MAIL GATEWAY & IMAP SYNCHRONISATION

Enterprise Email Integration & Automated Message Processing

The Mail Gateway & IMAP Synchronization module provides centralised integration between the ERP platform and enterprise email infrastructures using secure IMAP synchronization and automated email processing technologies.

The module supports:

- IMAP mailbox synchronization

- Automated email retrieval
- Email-to-ticket conversion
- Attachment processing
- Customer communication tracking
- Workflow-triggered email handling
- ERP-linked message archiving
- Multi-mailbox management

Incoming emails may automatically generate:

- Support tickets
- CRM activities
- Project updates
- Workflow events
- Customer communication records

The platform significantly improves operational communication visibility whilst centralising email history directly inside ERP business workflows and enterprise records.

API / WEB SERVICES (REST SERVER)

Enterprise REST API & External Integration Platform

The API / Web Services module provides a comprehensive RESTful API infrastructure enabling external applications, cloud platforms, mobile environments, payment systems, websites, and enterprise services to communicate securely with Sentosa ERP in real time.

The platform supports:

- REST APIs
- JSON and XML data exchange
- OAuth2 authentication
- Mobile application integration
- Payment gateway connectivity
- Webhook orchestration
- Cloud synchronization
- Enterprise interoperability

Supported HTTP methods include:

- GET
- POST
- PUT
- PATCH
- DELETE

The API infrastructure allows external systems to access:

- Customers and contacts
- Products and inventory
- Orders and shipments
- Invoices and payments
- HR records
- CRM activities
- Manufacturing operations

By supporting API-first enterprise architectures, the module significantly strengthens Sentosa ERP as a scalable and modern digital business platform capable of supporting highly connected operational ecosystems.

LDAP

Centralised Directory Authentication & User Synchronisation

The LDAP module provides enterprise directory integration and centralised authentication management using LDAP-compatible infrastructures such as Microsoft Active Directory, OpenLDAP, and enterprise identity services.

The module supports:

- Centralised authentication
- User synchronisation
- Group mapping
- Department synchronisation
- Access control integration
- Organisational hierarchy mapping
- Corporate credential management

Because user administration synchronises directly with enterprise directory infrastructures, organisations improve identity governance, simplify onboarding and offboarding workflows, strengthen authentication security,

and reduce administrative overhead across large enterprise environments.

OAuth2 Token Management

Secure Authentication & API Access Control System

The OAuth2 Token Management module provides secure API authentication, authorisation control, token management, and external application access governance using the OAuth2 security standard.

The platform supports:

- Authorization Code Flow
- Client Credentials Flow
- Bearer Tokens
- Refresh Tokens
- Scoped permissions
- Token expiration
- Token revocation
- API access monitoring

The architecture secures communication between ERP services and:

- Mobile applications
- Cloud platforms
- APIs
- Web portals
- External integrations
- SaaS ecosystems
- Enterprise middleware

By centralising token management and secure authentication workflows, organisations strengthen API security, reduce credential exposure risks, and improve governance across modern integration infrastructures.

GEOIPMAXMIND

IP Geolocation, Traffic Intelligence & Threat Control System

The GeoIPMaxmind module provides IP geolocation, traffic analysis, fraud prevention, and hostile traffic

mitigation capabilities using MaxMind geolocation databases and enterprise network intelligence services.

The platform can identify:

- Country of origin
- ISP and ASN information
- VPN and proxy usage
- Hosting provider networks
- Tor exit nodes
- Suspicious traffic sources
- Geographic anomalies

The module supports:

- Country blocking
- Threat filtering
- Fraud prevention workflows
- Access restrictions
- Traffic analytics

- Localisation services
- Security policy enforcement

The architecture significantly strengthens ERP security for cloud environments, public portals, APIs, financial systems, and internet-facing enterprise infrastructures.

STRIPE

Global Payment Gateway & Digital Payment Processing Integration

The Stripe module enables secure online payment processing, subscription billing, invoice settlement, and digital commerce integration directly inside the ERP ecosystem.

Supported payment methods include:

- Visa
- Mastercard
- American Express
- Apple Pay
- Google Pay

- Alipay
- WeChat Pay
- PromptPay
- Bank transfers
- SEPA Direct Debit
- ACH payments

The module supports:

- Subscription billing
- Multi-currency payments
- Fraud prevention
- Refund management
- Real-time payment confirmation
- Payment reconciliation
- Customer payment portals

Because payment workflows integrate directly with accounting, CRM, invoicing, subscriptions, POS systems, and customer portals, organisations gain real-time financial visibility and improved digital commerce automation.

PAPX PHONE SYSTEM

Enterprise Telephony & Click-to-Dial Integration

The PAPX Phone System module integrates enterprise telephony infrastructures directly with ERP workflows, customer management environments, and communication systems.

The platform supports:

- Click-to-dial operations
- Call logging
- Caller identification
- Communication tracking
- VoIP integration
- SIP-based telephony
- PBX and IP-PBX connectivity

Incoming calls may automatically display related customer information inside the ERP interface, improving operational responsiveness and customer service quality across support, sales, logistics, and administrative environments.

ONE CLICK PRINTING

Instant Document Printing & Workflow Automation

The One Click Printing module simplifies operational printing workflows by allowing users to instantly generate and print ERP documents directly from operational interfaces.

The module supports:

- Invoice printing
- Receipt generation
- Shipping labels
- Delivery notes
- Purchase orders
- Kitchen tickets
- Thermal printing workflows
- Automated print routing

The architecture significantly improves workflow speed and operational consistency in retail, logistics, hospitality, warehousing, and transaction-heavy operational environments.

RECEIPT PRINTERS

Raw & Text-Based Receipt Printing Management

The Receipt Printers module provides direct support for thermal printers, ESC/POS environments, kitchen printers, and raw receipt printing infrastructures commonly used in POS, logistics, hospitality, and retail operations.

The module supports:

- Thermal printing
- ESC/POS devices
- Receipt generation
- Kitchen ticket printing
- Label printing
- Network printers
- USB printing infrastructures
- Remote print routing

Because the platform communicates directly with receipt hardware, organisations benefit from high-speed

transaction processing and simplified operational printing management.

DAV MODULE

WebDAV Server & Enterprise Document Collaboration Platform

The DAV Module transforms Sentosa ERP into a secure enterprise file collaboration and WebDAV-enabled document management environment.

The platform supports:

- Remote document access
- Secure file sharing
- Collaborative editing
- ERP-linked document storage
- Cross-platform synchronization
- Remote workforce collaboration
- Version-aware document management
- Centralized enterprise repositories

The architecture integrates directly with:

- DMS / ECM
- CRM
- HR
- Projects
- Accounting
- Manufacturing
- Contracts
- Vendor management

The module enables organisations to centralise enterprise documents whilst supporting remote access, structured collaboration, secure synchronisation, and ERP-integrated file governance across distributed business environments.

X400 BRIDGE (CIPHERX)

Secure Enterprise Messaging & VAN Gateway Integration

The X400 Bridge, internally known as CipherX, provides secure enterprise-grade messaging, VAN integration,

EDI interoperability, and structured communication routing using X.400 and related enterprise messaging standards.

The module is optimised for:

- Banking infrastructures
- Customs systems
- Government communication
- Logistics networks
- Financial settlement environments
- Regulated industries
- ASEAN enterprise ecosystems

The platform supports:

- Secure message exchange
- Delivery confirmation
- Digital signatures
- PKI certificate validation
- EDI transformations



SENTOSAERP X400

ENTERPRISE MESSAGE PRIORITY. REAL-TIME DELIVERY. TRUSTED WORLDWIDE.

SentosaERP X400 is our enterprise-grade message communication platform built for speed, reliability, security and global interoperability. All X400 messages are sent, validated and tracked inside SentosaERP — powered by SNX.



ALL X400 MESSAGES SENT VIA SENTOSAERP ARE POWERED BY SNX

PRIORITY DELIVERY Guaranteed high-priority message handling	SECURE & ENCRYPTED End-to-end encryption and digital signature validation	REAL-TIME TRACKING Full visibility from submission to delivery	GLOBAL REACH Interoperable with all X400 networks worldwide	COST-EFFICIENT Low transaction fees powered by SNX	AUDIT & COMPLIANCE Immutable audit trail for compliance and governance
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SENDER (INSIDE SENTOSAERP)

- Accounting & Finance
- Purchase & Procurement
- Sales & CRM
- Inventory & Warehouse
- Logistics & Shipping
- Manufacturing
- HR & Payroll
- Project Management
- Document Management
- Other Modules



CREATE X400 MESSAGE (INSIDE SENTOSAERP)

- Standard X400 Format
- Attachments / Documents
- Priority Setting
- Digital Signature

SENTOSAERP X400 ECOSYSTEM

X400 MESSAGE ENGINE (INSIDE SENTOSAERP)

Format Validation	Address Validation	Priority Routing	Security Encryption	SNX Tokenization
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SENTOSAERP X400 GATEWAY

High Speed • High Availability • Global Routing



RECEIVER (X400 NETWORK)

- Banks & Financial Institutions
- Government Agencies
- Customs & Trade Authorities
- Suppliers & Vendors
- Logistics & Shipping Lines
- International Partners
- Other Enterprises



SNX POWERED INFRASTRUCTURE

Transaction Fee (Per Message) ≈ USD \$0.01 or 0.1 SNX		Used For
Token Value (Fixed) 1 SNX = USD \$0.10 ≈ THB ฿3.60*		<ul style="list-style-type: none"> Message Validation Priority Processing Network Security Audit & Compliance System Sustainability
23 MILLION SNX Fixed Supply. No Additional Minting.		Blockchain Validation Secured on Ethereum & Hedera Hashgraph

MESSAGE DELIVERY

- Priority Delivery
- Delivery Confirmation (MDN)
- Real-time Status Update
- Proof of Delivery

X400 MESSAGE FLOW INSIDE SENTOSAERP

1 CREATE User creates X400 message in SentosaERP	2 VALIDATE System validates format, address, priority & attachments	3 TOKENIZE SNX is used for validation and priority processing (0.1 SNX = \$0.10)	4 ROUTE Message routed through SentosaERP X400 Gateway	5 DELIVER Message delivered to X400 network worldwide	6 CONFIRM Delivery status returned and updated in real-time	7 AUDIT Immutable record stored on blockchain for audit & compliance
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KEY BENEFITS OF X400 INSIDE SENTOSAERP

ENTERPRISE GRADE Built for mission-critical business communication	ULTRA RELIABLE High priority, guaranteed message handling	COST PREDICTABLE Low cost per message with SNX	FULLY INTEGRATED Works seamlessly across all SentosaERP modules	GLOBALLY CONNECTED Connect with any X400 network worldwide	FUTURE READY Blockchain, AI & automation ready infrastructure
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SENTOSAERP YOUR ENTERPRISE COMMAND CENTER



X400 + SNX POWERED BY SENTOSAERP



GLOBAL X400 NETWORK WORLDWIDE CONNECTIVITY



BUSINESS WITHOUT BORDERS

COMMUNICATE. CONNECT. COLLABORATE. GROW.

SENTOSA ERP

One Platform. Infinite Solutions.

CONTACT US

Website www.sentosaerp.com	Email info@sentosaerp.com	Phone +66 2 026 3438	Address Bangkok, Thailand
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SCAN TO LEARN MORE



POWERING ENTERPRISE COMMUNICATION WITH PRIORITY, SECURITY & TRUST

ALL X400 MESSAGES SENT VIA SENTOSAERP ARE POWERED BY SNX

BUILT FOR TODAY. READY FOR TOMORROW.

TRUSTED BY ENTERPRISES. CONNECTED TO THE WORLD.

* THB value is approximate and subject to fluctuation.

- VAN routing
- Regulatory compliance
- Audit logging

CipherX significantly strengthens Sentosa ERP for government digitalisation projects, banking infrastructures, customs integration, and highly regulated enterprise communication ecosystems.

WEBHOOK MODULE

Real-Time Event Integration & Enterprise Automation Gateway

The Webhook Module provides event-driven integration capabilities allowing Sentosa ERP to communicate automatically with external applications, cloud services, APIs, SaaS platforms, and enterprise infrastructures in real time.

The platform supports:

- Real-time event notifications
- Workflow automation
- JSON and XML payloads
- API orchestration

INTERFACES WITH EXTERNAL SYSTEMS

Enterprise Connectivity, Communication & Digital Integration Infrastructure

Connect, integrate and automate across your enterprise ecosystem. Sentosa ERP provides powerful native interfaces to external systems, platforms and services for a fully connected digital business.



<p>REAL-TIME INTEGRATION</p> <p>Live data exchange and event-driven synchronization.</p>	<p>SECURE & RELIABLE</p> <p>Enterprise-grade security, encryption and compliance.</p>	<p>SCALABLE & FLEXIBLE</p> <p>Adaptable to any business model, industry or region.</p>	<p>AUTOMATED & INTELLIGENT</p> <p>Automate workflows, communications and external interactions.</p>	<p>GLOBAL CONNECTIVITY</p> <p>Integrate across global networks and platforms.</p>
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COMPREHENSIVE INTEGRATION MODULES

<p>1 SOCIAL NETWORKS</p> <p>Social Media Integration & Digital Identity Management</p> <p>Key Features</p> <ul style="list-style-type: none"> Link social profiles to ERP records Track digital engagement channels Improve omnichannel relationships <p>Integrates With</p> <p>CRM, Contacts, Campaigns, Customer Management</p>	<p>2 INTELLIGENT BUSINESS NOTIFICATIONS</p> <p>Automated Event-Driven Communication & Alerts</p> <p>Key Features</p> <ul style="list-style-type: none"> Event-triggered notifications Multi-channel delivery (Email, SMS) Real-time alerts & reminders <p>Integrates With</p> <p>Accounting, CRM, HR, Logistics, Workflows, APIs</p>	<p>3 ENTERPRISE CAMPAIGN & BULK MESSAGING</p> <p>Multi-Channel Email & Marketing Communication</p> <p>Key Features</p> <ul style="list-style-type: none"> Bulk email & newsletter campaigns Personalized & scheduled sends Track delivery, opens & clicks <p>Integrates With</p> <p>CRM, Subscriptions, Portals, Mail Services, Campaigns</p>	<p>4 MAIL GATEWAY & IMAP SYNCHRONIZATION</p> <p>Enterprise Email Integration & Automated Processing</p> <p>Key Features</p> <ul style="list-style-type: none"> IMAP mailbox synchronization Auto email-to-ticket conversion Attachment & thread processing <p>Integrates With</p> <p>Helpdesk, CRM, Projects, Notifications, Workflows</p>	<p>5 API / WEB SERVICES (REST SERVER)</p> <p>Enterprise REST API & External Integration</p> <p>Key Features</p> <ul style="list-style-type: none"> RESTful APIs (JSON / XML) OAuth2 secured access Real-time data exchange <p>Integrates With</p> <p>All ERP Modules, Mobile Apps, Websites, 3rd Party Systems</p>
<p>6 LDAP</p> <p>Centralized Directory Authentication & Sync</p> <p>Key Features</p> <ul style="list-style-type: none"> Centralized user authentication AD / OpenLDAP integration Group & role synchronization <p>Integrates With</p> <p>User Management, HR, Permissions, Security</p>	<p>7 OAUTH2 TOKEN MANAGEMENT</p> <p>Secure Authentication & API Access Control</p> <p>Key Features</p> <ul style="list-style-type: none"> OAuth2 token issuance & control Access scopes & permissions Token refresh & revocation <p>Integrates With</p> <p>APIs, Mobile Apps, Portals, External Applications</p>	<p>8 GEOIPMAXMIND</p> <p>IP Geolocation, Traffic Intelligence & Threat Control</p> <p>Key Features</p> <ul style="list-style-type: none"> IP geolocation & ISP detection Fraud prevention & threat control Country blocking & restrictions <p>Integrates With</p> <p>Security, Portals, APIs, Access Control, Logs</p>	<p>9 STRIPE</p> <p>Global Payment Gateway & Digital Payment Processing</p> <p>Key Features</p> <ul style="list-style-type: none"> Online payments & subscriptions Multi-currency & multi-methods Webhooks & real-time updates <p>Integrates With</p> <p>Accounting, Invoices, CRM, POS, Subscriptions, Portals</p>	<p>10 PAPX PHONE SYSTEM</p> <p>Enterprise Telephony & Click-to-Dial Integration</p> <p>Key Features</p> <ul style="list-style-type: none"> Click-to-dial from ERP Call logging & caller ID VoIP / SIP integration <p>Integrates With</p> <p>CRM, Helpdesk, Contacts, Sales, Support</p>
<p>11 ONE CLICK PRINTING</p> <p>Instant Document Printing & Workflow Automation</p> <p>Key Features</p> <ul style="list-style-type: none"> One-click document printing Auto print routing & templates Supports multiple printers <p>Integrates With</p> <p>Invoices, Orders, Shipping, POS, Reports</p>	<p>12 RECEIPT PRINTERS</p> <p>Raw & Text-Based Receipt Printing Management</p> <p>Key Features</p> <ul style="list-style-type: none"> Thermal / ESC-POS support Receipt, label & kitchen tickets High speed & reliable printing <p>Integrates With</p> <p>POS, Kitchen, Warehouse, Logistics, Retail</p>	<p>13 DAV MODULE</p> <p>WebDAV Server & Enterprise Document Collaboration</p> <p>Key Features</p> <ul style="list-style-type: none"> Secure file sharing & access Remote collaboration Version-aware documents <p>Integrates With</p> <p>DMS, Projects, CRM, HR, Accounting, Contracts</p>	<p>14 X400 BRIDGE (CIPHERX)</p> <p>Secure Enterprise Messaging & VAN Gateway Integration</p> <p>Key Features</p> <ul style="list-style-type: none"> X.400 / VAN communication Secure message exchange EDI & regulatory compliance <p>Integrates With</p> <p>Banks, Customs, Govt, EDI, Logistics, Financial Systems</p>	<p>15 WEBHOOK MODULE</p> <p>Real-Time Event Integration & Automation Gateway</p> <p>Key Features</p> <ul style="list-style-type: none"> Real-time event triggers JSON / XML payloads Reliable & secure delivery <p>Integrates With</p> <p>APIs, 3rd Party Apps, SaaS, Cloud Services, Workflows</p>

CONNECTED. SECURE. AUTOMATED.

Event-Driven Automation	Multi-Channel Communication	Real-Time Synchronization	Enterprise-Grade Security	Global Compliance & Standards
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SUPPORTED COMMUNICATION CHANNELS

Email	SMS	Push	IM	Webhooks	APIs
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KEY BUSINESS BENEFITS

- Seamless integration with external systems
- Improved operational efficiency & automation
- Real-time visibility & actionable notifications
- Stronger security, compliance & governance
- Enhanced customer experience & engagement
- Scalable architecture for future growth

ONE PLATFORM. ENDLESS CONNECTIONS.



BUILT FOR THE MODERN ENTERPRISE

- Omnichannel communication
- API-first integration architecture
- Secure authentication & identity
- Global connectivity & interoperability
- Powering digital transformation
- Your ERP. Connected to Everything.

- SaaS synchronisation
- Trigger-based integrations
- Queue management
- Secure webhook delivery

Supported trigger events include:

- Invoice generation
- Payment confirmations
- Stock updates
- Shipment creation
- CRM activities
- HR workflows
- Logistics operations
- Security events

The Webhook architecture significantly improves enterprise interoperability, digital transformation readiness, and real-time operational coordination across modern connected business ecosystems.

SYSTEM MODULES & DIGITAL TRUST INFRASTRUCTURE

Enterprise Automation, Diagnostics, Compliance & Future Blockchain Ecosystems

The System Modules & Digital Trust Infrastructure suite within Sentosa ERP represents the operational foundation responsible for automation, diagnostics, system integrity, compliance governance, immutable audibility, and future-ready distributed digital infrastructure services across the ERP ecosystem.

Unlike user-facing operational modules focused on finance, CRM, logistics, manufacturing, or HR, these core infrastructure components operate at the system level and provide the underlying automation, monitoring, security, scalability, developer tooling, audit controls, and blockchain-enabled trust frameworks required to support enterprise-grade operational environments.

The suite supports:

- Background process automation
- ERP diagnostics and debugging
- Performance monitoring
- Immutable audit logging

- Real-time system diagnostics
- Compliance and governance controls
- Distributed ledger integration
- Blockchain validation services
- Digital asset infrastructures
- Enterprise scalability frameworks
- Developer tooling and instrumentation
- Operational integrity monitoring

One of the defining strengths of this infrastructure layer is its ability to combine traditional enterprise ERP governance with next-generation digital trust technologies including distributed ledgers, tokenised workflows, immutable validation systems, and future digital financial infrastructures.

The architecture integrates directly with:

- Accounting and finance
- CRM environments
- Inventory and logistics

- Manufacturing systems
- APIs and integrations
- Authentication infrastructures
- Compliance frameworks
- Enterprise reporting systems
- Blockchain ecosystems
- AI and automation services

Because these modules operate across the full ERP architecture, organisations gain stronger operational reliability, automated governance, real-time visibility, compliance readiness, enterprise audibility, and future digital transformation scalability.

The platform is especially valuable for organisations requiring:

- Enterprise automation infrastructures
- High-availability ERP environments
- Financial audibility
- Regulatory compliance

- Secure operational governance
- Blockchain-ready infrastructures
- Distributed digital trust systems
- Government-linked operational ecosystems
- Enterprise-scale integration environments

By combining automation engines, immutable audibility, enterprise diagnostics, compliance infrastructures, and blockchain-enabled trust architectures into one integrated ecosystem, the System Modules & Digital Trust Infrastructure suite significantly strengthens Sentosa ERP as a highly scalable, secure, and future-ready enterprise platform.

SCHEDULED JOBS

Automated Task & Background Process Management

The Scheduled Jobs module provides automated execution of recurring ERP processes, background tasks, synchronisation workflows, and operational automation activities throughout the Sentosa ERP ecosystem.

The platform supports:

- Automated invoicing
- Email processing
- Synchronisation workflows
- Payment reminders
- API communications
- Workflow triggers
- Database maintenance
- Scheduled reporting

Administrators may configure execution schedules including:

- Minute-based tasks
- Hourly jobs
- Daily workflows
- Weekly automation
- Monthly processing

The module acts as the automation engine of the ERP ecosystem and significantly improves operational

continuity, process consistency, scalability, and enterprise-wide automation efficiency across finance, CRM, logistics, manufacturing, HR, and integration environments.

DEBUG LOGS

Technical Logging & Troubleshooting Module

The Debug Logs module provides centralised technical logging and diagnostic monitoring for ERP operations, integrations, APIs, workflows, and system events.

The module records:

- User actions
- API requests
- Database operations
- Error messages
- Failed processes
- Authentication events
- Administrative changes
- Integration failures

The platform supports:

- Real-time diagnostics
- Performance monitoring
- Error tracking
- API debugging
- Security auditing
- Troubleshooting workflows

By improving technical visibility and diagnostics, the module significantly strengthens ERP reliability, integration stability, and operational maintainability across complex enterprise environments.

DEBUG SYSTEM

Developer Diagnostics & Performance Analysis Framework

The Debug System module provides advanced browser-based debugging, runtime diagnostics, SQL analysis, performance profiling, API inspection, and developer troubleshooting capabilities across the Sentosa ERP platform.

The module supports:

- SQL query analysis
- Runtime diagnostics
- Performance profiling
- API debugging
- AJAX monitoring
- Error tracking
- Request inspection
- Memory usage monitoring

The architecture is especially valuable for:

- ERP customisation projects
- API integration testing
- Performance optimisation
- Module development
- Enterprise troubleshooting
- Upgrade validation

Because the platform exposes deep technical diagnostics and runtime analysis tools, developers and administrators can significantly improve ERP optimisation, integration reliability, and enterprise scalability across large operational deployments.

UNALTERABLE LOGS & ARCHIVES

Immutable Audit Logging & Compliance Infrastructure

The Unalterable Logs & Archives module provides tamper-resistant audit logging and immutable event archiving across the ERP ecosystem.

The platform records:

- Invoice validations
- Payment registrations
- Stock movements
- Order approvals
- Contract changes
- User authentication events
- Administrative actions

- Accounting entries

One of the module's most important capabilities is its immutable archive architecture. Once an event is recorded, it cannot be silently modified or deleted, significantly improving:

- Audit reliability
- Fraud prevention
- Compliance governance
- Legal traceability
- Financial transparency
- Operational accountability

The module is especially valuable for:

- Financially audited organisations
- Government-linked infrastructures
- Tax-sensitive operations
- Regulated industries
- Compliance-driven environments

By adding immutable audibility and secure historical event validation to the ERP ecosystem, the platform significantly strengthens Sentosa ERP as an enterprise-grade governance and compliance infrastructure.

EXTERNAL USER ACCESSIBLE MODULES

Controlled Portal & External Stakeholder Access Framework

Sentosa ERP allows controlled access to selected operational modules for customers, suppliers, vendors, partners, members, contractors, and external stakeholders when permissions are granted.

External users may access:

- Users & Groups
- Members
- Organisations
- Sales Orders
- Invoices
- Vendors

- Projects or Leads
- Events & Agenda
- Resources
- Contracts & Subscriptions
- Shipments
- Tickets
- Receptions
- Vendor Commercial Proposals
- Interventions
- Unalterable Logs & Archives

This architecture enables secure collaboration between organisations and external stakeholders whilst maintaining operational visibility, permission governance, workflow coordination, and enterprise-grade access control across digital collaboration environments.

HEDERA HASHGRAPH, ETHEREUM & DIGITAL ASSET INFRASTRUCTURE

Enterprise Blockchain Validation, Distributed Trust & Future Digital Economy Platform

The Hedera Hashgraph, Ethereum & Digital Asset Infrastructure module represents one of the most advanced technologies within the Sentosa ERP ecosystem and provides enterprise-grade integration with distributed ledger infrastructures, blockchain validation systems, tokenised workflows, and next-generation digital financial ecosystems.

The platform supports:

- Blockchain validation
- Distributed trust systems
- Immutable audibility
- Smart contract interoperability
- Digital asset infrastructures
- Tokenised workflows
- Web3 interoperability
- Enterprise blockchain automation
- Cross-border settlement ecosystems

Unlike traditional proof-of-work blockchain systems, the architecture primarily leverages Hedera Hashgraph technology, providing:

- High transaction throughput
- Near real-time settlement
- Energy efficiency
- Enterprise scalability
- Very low transaction costs
- Asynchronous Byzantine Fault Tolerance (aBFT)

The infrastructure integrates directly with:

- Hedera Consensus Services (HCS)
- Hedera Token Services (HTS)
- Ethereum-compatible ecosystems
- Smart contract environments
- Digital finance infrastructures
- Compliance systems
- Supply chain ecosystems

- Cross-border settlement platforms

The platform utilises:

- \$HBAR for Hedera transaction infrastructure
- \$SNX for Ethereum-compatible enterprise workflows

The architecture is especially valuable for:

- Government digitalisation projects
- Banking infrastructures
- Supply chain verification
- Digital trade systems
- CBDC ecosystems
- Tokenised asset environments
- Smart logistics infrastructures
- Distributed compliance validation

One of the most important strategic advantages of the infrastructure is its connection to the Hedera Governing Council, which includes globally recognised enterprises such as:

- Google

- IBM
- Boeing
- LG
- Deutsche Telekom
- Dell Technologies
- Hitachi
- ServiceNow
- Tata Communications

This governance structure provides stronger long-term enterprise reliability, institutional trust, operational stability, and regulatory confidence compared to many speculative blockchain ecosystems.

The platform is also strategically aligned with future financial ecosystems including:

- Central Bank Digital Currencies (CBDCs)
- Real World Asset (RWA) tokenisation
- Digital trade infrastructures
- Smart settlement systems
- ASEAN digital finance ecosystems
- Programmable financial networks
- Tokenised logistics operations

By combining distributed trust infrastructures, blockchain validation, enterprise tokenisation, digital settlement ecosystems, and Web3 interoperability into one scalable operational framework, the Hedera Hashgraph,

Ethereum & Digital Asset Infrastructure module significantly strengthens Sentosa ERP as a future-ready enterprise platform designed for next-generation global digital commerce and decentralised enterprise ecosystems.

ABOUT SENTOSA ERP SYSTEMS



*Building the Future of Enterprise Operations
Across ASEAN and Global Digital Economies*

Sentosa ERP was originally founded in Singapore in 2009 with the objective of creating a modern

enterprise platform capable of supporting increasingly complex regional and international business operations across Asia. From its earliest development stages, the platform was designed not merely as a traditional ERP application, but as an integrated operational ecosystem capable of connecting finance, logistics, manufacturing, trade, customer management, digital services, and enterprise automation within one unified infrastructure.

As ASEAN economies accelerated their digital transformation and cross-border commercial integration, the strategic direction of the platform evolved beyond conventional ERP functionality toward a broader vision focused on intelligent enterprise operations, regional digital connectivity, and future-ready business infrastructures.

Over time, the organisation transitioned its core operational focus to Thailand, positioning Sentosa ERP within one of Southeast Asia's most strategically important economic and logistics environments. Thailand's role as a regional manufacturing, trade, logistics, tourism, and digital finance hub provided the ideal foundation for expanding the platform across ASEAN and international enterprise ecosystems.

Today, Sentosa ERP operates as a Thai-led enterprise technology initiative supported by Thai, Swiss, and

German investors. This structure combines regional operational leadership with international business experience, European governance standards, and long-term strategic enterprise development capabilities.

FOUNDER'S VISION

Building the Future of Enterprise Infrastructure Across ASEAN

By Tongpian Freiburghaus, CEO of Sentosa ERP

When Sentosa ERP was first envisioned in 2009, the objective was never simply to create another business software platform. From the beginning, the vision was far broader: to build an intelligent enterprise ecosystem capable of supporting the rapidly evolving operational realities of modern Asia and the increasingly interconnected global economy.

At that time, many ERP systems were still designed around isolated departmental workflows and fragmented operational structures. Businesses often relied on disconnected accounting platforms, separate CRM systems, independent inventory tools, external communication infrastructures, and highly fragmented reporting environments. These limitations created operational inefficiencies, reduced transparency, increased administrative complexity, and slowed the

ability of organisations to adapt to changing market conditions.

Our belief was that the future of enterprise operations would require something fundamentally different.

We believed businesses would eventually need integrated digital ecosystems capable of connecting finance, logistics, manufacturing, customer engagement, workforce management, digital communications, automation, artificial intelligence, and international trade operations inside one intelligent operational infrastructure.



Tongpian Freiburghaus, CEO

This philosophy became the foundation of Sentosa ERP.

Over the years, the platform evolved alongside the accelerating transformation of ASEAN economies, cross-border trade ecosystems, digital finance infrastructures, cloud computing environments, and enterprise automation technologies. As regional

business environments became increasingly connected, the strategic role of ERP systems also changed. ERP platforms could no longer function solely as administrative software. They needed to become operational intelligence systems capable of supporting complex, multinational, and digitally connected enterprise ecosystems.

The strategic transition of our operational focus to Thailand represented an important milestone in this journey. Thailand occupies one of the most strategically significant positions within Southeast Asia. Its role as a manufacturing hub, logistics gateway, tourism Center, financial ecosystem, and regional trade connector made it the ideal environment for building a future-ready enterprise platform designed for ASEAN and international business operations.

Today, Sentosa ERP operates as a Thai-led enterprise technology initiative supported by Thai, Swiss, and German investment structures. This combination allows us to merge regional operational understanding with international business standards, long-term strategic planning, and enterprise governance principles required for sustainable digital transformation.

Our mission today extends beyond software development.

We aim to help organisations modernise operations, strengthen governance, improve transparency, reduce operational fragmentation, and prepare for the next generation of intelligent digital enterprise ecosystems.

The future of enterprise technology will increasingly involve:

- Artificial intelligence
- Blockchain validation
- Real-time digital finance
- Cross-border automation
- Distributed trust infrastructures
- Smart logistics ecosystems
- API-driven interoperability
- Tokenised financial environments
- CBDC-ready transaction systems
- Intelligent workflow orchestration

Sentosa ERP is being developed with this future already in mind.

We strongly believe that ASEAN will become one of the most important digitally connected economic regions in the world over the coming decades. Organisations operating within this environment will require enterprise infrastructures capable of supporting not only current operational requirements, but also the next generation of digital economic systems and intelligent business networks.

Our commitment is therefore long-term.

We continue to invest in enterprise scalability, cybersecurity, automation, distributed systems, digital governance, blockchain interoperability, AI integration, and international operational connectivity to ensure that Sentosa ERP remains positioned for the future evolution of global enterprise ecosystems.

At its core, Sentosa ERP represents more than technology.

It represents a vision for connected enterprise operations, operational transparency, intelligent automation, and sustainable digital transformation designed specifically for the realities of modern ASEAN and globally connected business environments.

We are not simply building ERP software but we are building the infrastructure for the next generation of intelligent enterprise operations.

Tongpian Freiburghaus

Sentosa ERP

ENTERPRISE UTILITY TOKEN, DISTRIBUTED VALIDATION & DIGITAL TRUST INFRASTRUCTURE

The Sentosa Xchange Coin (\$SNX) represents the native utility token framework designed to support selected blockchain-enabled services within the Sentosa ERP ecosystem.

Unlike speculative cryptocurrency projects focused primarily on retail trading activity, the SNX infrastructure was developed specifically to support enterprise operations, distributed audit validation, immutable transaction verification, digital trust services, and future-ready decentralised enterprise workflows.

The blockchain infrastructure inside Sentosa ERP is designed as a fully optional enterprise capability.

Organisations may operate the ERP platform entirely through traditional enterprise infrastructures without activating blockchain services. However, businesses requiring enhanced auditability, distributed validation, cross-border verification, digital compliance frameworks, or future digital financial interoperability may activate the blockchain-enabled infrastructure modules whenever operational requirements evolve.

The Sentosa Xchange Coin was originally minted on the Ethereum blockchain in 2019 as part of the long-term strategic vision to integrate enterprise operations with emerging digital asset ecosystems, smart-contract infrastructures, distributed ledger technologies, and future digital trade environments.

Only: 23 Million SNX Tokens were permanently minted.



SENTOSA XCHANGE COIN

\$SNX

Enterprise Utility Token for SentosaERP Ecosystem

POWERING TRUST.
ENABLING FUTURES.

Powering the future of enterprise operations through blockchain validation, immutable audit, and digital trust infrastructure.

- DISTRIBUTED VALIDATION**
Secure, transparent and tamper-proof validation for critical business transactions.
- IMMUTABLE AUDIT TRAIL**
Immutable records for audit, compliance and regulatory confidence.
- LOW TRANSACTION COST**
Capped at \$0.01 (= ฿0.36) per validation for predictable enterprise economics.
- OPTIONAL & FLEXIBLE**
Blockchain module is fully optional and can be activated anytime as your business grows.



TOKEN FACTS

- TOKEN NAME**
Sentosa Xchange Coin
- TOKEN SYMBOL**
SNX
- BLOCKCHAIN**
Ethereum
- YEAR MINTED**
2019
- TOTAL SUPPLY**
23,000,000 SNX
Fixed Supply. No additional minting.
- TOKEN TYPE**
Utility Token
Enterprise Infrastructure Fuel

TOKEN VALUE (FIXED)

1 SNX = USD \$0.10
≈ THB ฿3.60*

*Average exchange rate (subject to fluctuation)

TRANSACTION FEE (VALIDATION)

CAPPED AT USD \$0.01
≈ THB ฿0.36*

*Average exchange rate (subject to fluctuation)

POWERING ENTERPRISE OPERATIONS



Audit & Compliance



Invoice & Payments



Logistics & Supply Chain



Smart Contracts



Cross-Border Transactions



Digital Identity & Verification



AI & Automation Workflows



Data Integrity & Governance

TOKENOMICS EXAMPLE

Example: 200 companies validate an average of 1,000 transactions for audit purpose.

Total Transactions	200,000
Validation Fee	\$0.01 per transaction (= ฿0.36)
Total Validation Value	\$2,000 (= ฿720,000)
Token Value	\$0.10 per SNX (= ฿3.60)
SNX Consumed	20,000 SNX

ENTERPRISE SCALE POTENTIAL

Companies	Avg. Daily Validations	Daily Transactions	Daily Validation Value (USD)	SNX Consumed (at \$0.10 per SNX)
200	1,000	200,000	\$2,000 (= ฿720,000)	20,000 SNX
1,000	2,000	2,000,000	\$20,000 (= ฿720,000)	200,000 SNX
5,000	5,000	25,000,000	\$250,000 (= ฿9,000,000)	2,500,000 SNX

* Based on token value of \$0.10 per SNX (= ฿3.60)

SNX SUPPLY OVERVIEW



- Fixed Supply**
23,000,000 SNX
No additional minting
- 100% Utility Driven**
Designed for enterprise infrastructure and validation usage
- Long-Term Scarcity**
Increasing enterprise demand against a permanently limited supply

OWNERSHIP & OPERATIONAL TRANSPARENCY

Thailand based Phraya Nak ERP holds 60% ownership in Singapore based Sentosa Blockchain Pte. Ltd., which operates the Sentosa Xchange Coin (\$SNX) ecosystem.

Phraya Nak ERP (Thailand)



Sentosa Blockchain Pte. Ltd. (Singapore)



This structure ensures strong ASEAN alignment, international governance standards and long-term commitment to enterprise blockchain innovation.

DUAL-NETWORK STRATEGY

ethereum
Interoperability
Smart Contracts
Global Connectivity

Hedera Hashgraph
High Throughput
Low Cost
Enterprise Scale

FUTURE VISION

SNX is building the digital infrastructure for the next generation of enterprise economies across ASEAN and beyond.



CBDC & Digital Currency Ready



Real World Asset Tokenization



Smart Logistics Ecosystems



Cross-Border Settlements



AI-Powered Automation



Decentralized Enterprise Finance



Digital Trade Networks



No additional minting capability exists beyond the original issuance, creating a permanently fixed supply model designed around controlled enterprise utility growth, long-term ecosystem sustainability, and predictable digital infrastructure economics.

For operational transparency and enterprise governance clarity, the blockchain and digital infrastructure associated with the Sentosa Xchange ecosystem is operated through:

Sentosa Blockchain Pte. Ltd. - Singapore

which serves as the blockchain and digital infrastructure entity responsible for the development and operation of the Sentosa Xchange (\$SNX) ecosystem, distributed validation services, blockchain interoperability frameworks, and related enterprise digital infrastructure initiatives.

To maintain strong ASEAN operational alignment and regional enterprise governance, Thailand-based:

Phraya Nak ERP Thailand holds:

60% ownership in Sentosa Blockchain Pte. Ltd.

This ownership structure ensures that the blockchain infrastructure remains strategically connected to the

broader Sentosa ERP ecosystem whilst maintaining long-term operational coordination between enterprise ERP development, distributed digital infrastructure services, and future blockchain-enabled business operations.

The structure also reflects the company's broader ASEAN-focused strategy, combining:

- Singapore's international digital infrastructure environment
- Thailand's regional operational leadership
- ASEAN enterprise market integration
- International governance standards
- Long-term enterprise technology development

One of the most important design principles behind the Sentosa Xchange ecosystem is predictable enterprise transaction economics.

The operational utility value of the SNX token is strategically fixed at:

USD \$0.10 per SNX which equals approximately:
THB ฿3.60 per SNX depending on exchange rate fluctuations.

This valuation model is intentionally designed to support scalable enterprise adoption whilst maintaining low operational validation costs and predictable long-term infrastructure economics.

For blockchain-assisted validation and audit operations inside the ERP ecosystem, transaction fees are intentionally capped at approximately:

USD \$0.01 per validation transaction

which equals approximately:

THB ฿0.36

depending on exchange rate movements.

At the fixed operational value of:

\$0.10 per SNX each validation transaction consumes approximately: **0.1 SNX**

This low-cost validation structure is strategically important because enterprise ERP environments may generate extremely large operational workloads involving invoices, logistics events, manufacturing records, payment transactions, compliance verification, contracts, audit trails, and distributed workflow validation.

The architecture therefore prioritises:

- Low operational cost
- Enterprise scalability
- Predictable validation economics
- High-volume transaction processing
- Sustainable infrastructure growth
- Efficient distributed verification

The tokenomics structure of SNX becomes particularly important when viewed from the perspective of long-term enterprise adoption and operational ecosystem growth.

For example:

If:

- 200 enterprise customers each validate 1,000 operational audit events
- across invoices, payments, contracts, logistics records, or ERP workflows

then the ecosystem would generate:

200,000 validation transactions at the capped validation rate of: **USD \$0.01** per transaction

the operational validation economy generated across the ecosystem would equal:

USD \$2,000 or approximately: THB **฿72,000**

At the operational token value of:

USD \$0.10 per SNX the validation activity would consume:

20,000 SNX across the distributed validation ecosystem.

As enterprise adoption increases, transaction demand may scale significantly.

Example operational growth scenarios may include:

Daily Transactions

Companies	Validations	Transactions
200	200	200,000
1,000	2,000	2,000,000
5,000	5,000	25,000,000

At larger enterprise scale, operational demand for distributed validation infrastructure may become highly significant relative to the permanently fixed supply of only 23 million SNX tokens.

This creates a tokenomics structure based primarily on:

- Enterprise utility demand
- ERP ecosystem growth
- Distributed audit validation
- Cross-border operational workflows
- Smart enterprise automation
- Future digital trade infrastructure
- Long-term business adoption rather than speculative retail trading activity.

This distinction is strategically important because it positions SNX not as a conventional cryptocurrency project, but rather as:

**ENTERPRISE DIGITAL
INFRASTRUCTURE FUEL**

The Sentosa ERP blockchain architecture also operates alongside Hedera Hashgraph technologies for enterprise-scale distributed validation and high-speed operational verification. This dual-network strategy provides flexibility between Ethereum interoperability and Hedera-powered enterprise scalability.

The long-term strategic vision for the Sentosa Xchange ecosystem extends beyond simple token utilisation.

The infrastructure is being designed to support future enterprise environments involving:

- Central Bank Digital Currencies (CBDCs)
- Real World Asset (RWA) tokenisation
- Tokenised trade ecosystems
- Smart logistics infrastructures
- Cross-border settlement systems
- AI-assisted distributed workflows
- Decentralised enterprise automation
- Digital compliance verification
- Programmable financial ecosystems

- ASEAN digital trade infrastructures

As ASEAN economies continue transitioning toward digital finance, smart settlement systems, programmable transactions, and distributed operational ecosystems, Sentosa ERP's blockchain-ready infrastructure provides organisations with a scalable pathway toward future digital enterprise transformation without disrupting existing operational continuity.

The Sentosa Xchange Coin therefore represents far more than a digital token.

It represents part of a broader long-term enterprise infrastructure strategy focused on operational transparency, distributed trust, intelligent automation, digital governance, scalable validation systems, and the future evolution of globally connected enterprise ecosystems.

DIGITAL TRANSFORMATION & ASEAN ENTERPRISE STRATEGY

Building Intelligent Enterprise Ecosystems for the Future of ASEAN

The accelerating digital transformation of ASEAN economies is reshaping the way organisations manage operations, conduct international trade, coordinate supply chains, process financial transactions, interact with customers, and build long-term enterprise competitiveness.

Across Southeast Asia and increasingly connected global markets, organisations are facing growing pressure to modernise operational infrastructures whilst maintaining scalability, transparency, compliance readiness, and long-term operational resilience.

Traditional fragmented software environments are no longer capable of supporting the operational complexity of modern enterprise ecosystems.

Businesses today often operate across:

- Multiple countries
- Multiple currencies
- Distributed workforce environments
- International logistics corridors
- Cross-border financial systems

- Digital commerce ecosystems
- Multi-channel communication infrastructures
- Cloud and mobile operational platforms

At the same time, organisations must also adapt to rapidly evolving technologies including:

- Artificial intelligence
- Workflow automation
- Blockchain infrastructures
- Digital finance ecosystems
- API-driven interoperability
- Smart logistics
- Real-time operational analytics
- Enterprise cybersecurity frameworks

The future of enterprise operations therefore requires more than isolated software applications.

It requires intelligent, scalable, and deeply connected enterprise ecosystems capable of integrating

operations, automation, governance, digital finance, communication, logistics, and decision-making within one unified operational infrastructure.

This philosophy forms the strategic foundation of Sentosa ERP.

ASEAN AS THE NEXT GLOBAL GROWTH ENGINE

ASEAN has become one of the world's fastest growing economic regions and continues to strengthen its role as a globally significant manufacturing, logistics, financial, tourism, and digital commerce ecosystem.

The region benefits from:

- Strategic global trade positioning
- Strong manufacturing growth
- Expanding digital economies
- Rising cross-border commerce
- Young and technology-driven populations
- Increasing enterprise modernisation

- Government-supported digitalisation initiatives
- Rapid fintech and payment innovation

As regional economic integration accelerates, businesses increasingly require operational infrastructures capable of supporting multilingual, multi-jurisdictional, and cross-border enterprise operations.

Thailand in particular has emerged as one of the region's most strategically important enterprise hubs due to its role in:

- Manufacturing ecosystems
- Regional logistics
- Tourism and hospitality
- Import/export industries
- ASEAN connectivity
- Digital finance initiatives
- Smart infrastructure development

Sentosa ERP was strategically positioned to support these evolving enterprise realities from the beginning.

THE DIGITAL TRANSFORMATION CHALLENGE

Many organisations continue to rely on fragmented operational environments where accounting systems, CRM platforms, inventory software, logistics systems, HR applications, communication infrastructures, and reporting environments operate independently from one another.

These disconnected systems often create:

- Operational inefficiencies
- Duplicate data structures
- Reduced enterprise visibility
- Manual administrative overhead
- Inconsistent reporting
- Slower decision-making
- Limited automation capability
- Increased compliance complexity

As organisations scale, these operational limitations become increasingly difficult to manage.

Digital transformation therefore requires more than replacing isolated software applications.

It requires the creation of integrated enterprise ecosystems capable of connecting departments, workflows, operational data, customers, suppliers, logistics networks, financial systems, and enterprise intelligence services into one unified operational environment.

Sentosa ERP was specifically designed to solve this challenge.

From ERP Software to Intelligent Enterprise Ecosystems

Sentosa ERP is not positioned merely as traditional business management software.

The platform was designed as a scalable enterprise ecosystem capable of supporting intelligent operational infrastructures across highly connected and rapidly evolving business environments.

The architecture combines:

- Enterprise resource planning

- Operational automation
- CRM and customer management
- Financial management
- Logistics coordination
- Manufacturing intelligence
- Human resources
- AI-assisted workflows
- Blockchain validation
- Digital finance readiness
- Web-based operational ecosystems
- API-driven enterprise interoperability

This integrated approach allows organisations to centralise operations whilst maintaining flexibility, scalability, and future technology readiness.

Unlike legacy ERP environments that often require multiple disconnected external systems, Sentosa ERP provides a unified enterprise architecture capable of

supporting both current operational requirements and future digital transformation strategies.

ASEAN Trade & Cross-Border Enterprise Operations

Modern ASEAN business operations increasingly depend on cross-border operational coordination involving suppliers, manufacturers, logistics providers, payment systems, customs environments, digital finance platforms, and international customer ecosystems.

Sentosa ERP is strategically optimized to support:

- ASEAN trade operations
- China-linked commercial ecosystems
- International logistics environments
- Import/export businesses
- Maritime operations
- Multi-currency accounting
- Digital payment infrastructures
- PromptPay and PromptBiz environments

- International procurement ecosystems
- Cross-border operational governance

The platform's modular enterprise architecture enables organisations to manage highly complex international workflows whilst maintaining centralized operational visibility and enterprise governance across distributed business environments.

Because modern trade ecosystems increasingly depend on digital interoperability, Sentosa ERP also supports API-driven enterprise connectivity between financial systems, logistics providers, payment gateways, portals, suppliers, customers, and external operational platforms.

Artificial Intelligence, Automation & Intelligent Operations

The future of enterprise management will increasingly depend on intelligent automation and AI-assisted operational ecosystems.

Sentosa ERP has therefore been designed with enterprise AI integration as part of its long-term strategic architecture.

The platform supports:

- AI-assisted reporting
- Intelligent workflow automation
- Predictive operational analytics
- Automated document processing
- Smart enterprise search
- Business intelligence integration
- AI-driven communication workflows
- Operational forecasting
- Intelligent ERP assistants
- Fraud and anomaly detection

As AI technologies continue to evolve, enterprise systems will increasingly transition from passive administrative software toward intelligent operational ecosystems capable of assisting organisations with real-time decision-making, automation, compliance management, and operational optimization.

Sentosa ERP is being developed with this future already in mind.

BLOCKCHAIN, DIGITAL TRUST & DISTRIBUTED ENTERPRISE INFRASTRUCTURE

The increasing importance of digital trust, operational transparency, auditability, and secure distributed validation is driving significant interest in blockchain-enabled enterprise infrastructures.

Sentosa ERP's blockchain-ready architecture supports:

- Immutable audit trails
- Distributed validation systems
- Enterprise blockchain interoperability
- Smart contract integration
- Tokenized operational workflows
- Cross-border verification infrastructures
- Digital trust environments
- Future programmable financial ecosystems

The optional Sentosa Xchange Coin (\$SNX) infrastructure extends these capabilities further by

enabling scalable enterprise validation and distributed operational trust services whilst maintaining low and predictable transaction costs suitable for enterprise-scale environments.

Importantly, the blockchain infrastructure remains fully optional and may be activated progressively depending on operational requirements and enterprise digital transformation strategies.

The Future of Enterprise Infrastructure

The next generation of enterprise ecosystems will likely combine:

- Artificial intelligence
- Distributed operational automation
- Smart logistics
- Real-time financial interoperability
- Blockchain validation
- API-driven ecosystems
- Cross-border digital finance
- Tokenized trade infrastructures

- CBDC-compatible settlement environments
- Intelligent operational analytics

As global business operations become increasingly connected and digitally integrated, organisations will require enterprise infrastructures capable of adapting rapidly to evolving technologies, international regulatory environments, and future digital economic systems.

Sentosa ERP is strategically positioned to support this transition.

The platform's long-term vision is not simply to function as operational software, but rather as a scalable enterprise infrastructure platform capable of supporting the future evolution of intelligent business ecosystems across ASEAN and globally connected enterprise environments.

By combining enterprise operations, automation, AI, blockchain readiness, digital finance interoperability, and scalable operational governance into one integrated ecosystem, Sentosa ERP provides organisations with a future-ready foundation for sustainable digital transformation and long-term enterprise growth.

Contact & Corporate Information

Sentosa ERP

Building the Future of Intelligent Enterprise Operations

Thank you for taking the time to review the Sentosa ERP enterprise ecosystem and corporate profile.

Sentosa ERP represents a long-term vision focused on intelligent enterprise operations, ASEAN digital transformation, scalable operational infrastructure, and the future evolution of globally connected business ecosystems.

Our mission is to help organisations modernise operations, improve governance, strengthen operational visibility, simplify enterprise complexity, and prepare for the next generation of digital enterprise transformation.

Whether supporting manufacturing, logistics, retail, hospitality, finance, international trade, government-linked operations, or emerging digital infrastructures.

Sentosa ERP is designed to provide organisations with a scalable and future-ready operational foundation capable of adapting to rapidly evolving global business environments.

We welcome the opportunity to discuss how Sentosa ERP may support your organisation's operational

strategy, enterprise modernisation initiatives, and long-term digital transformation objectives.

Corporate Contact Information

Sentosa ERP

Enterprise Portal:

www.sentosaos.cloud

Email: info@sentosaos.cloud

Enterprise Sales & Partnerships:

sales@sentosaos.cloud

Technical & Integration Services:

support@sentosaos.cloud

Phraya Nak ERP

Udon Thani, Thailand

Singapore Digital Infrastructure

Sentosa Blockchain Pte. Ltd., Singapore

One Platform. Infinite Enterprise Possibilities.

Sentosa ERP is more than software.

It is an integrated enterprise ecosystem designed to support the future evolution of intelligent operations, digital governance, scalable automation, and globally connected business environments across ASEAN and international markets.

We look forward to building the future of enterprise operations together.