



SunFish ERP
Enterprise Resource Planning System
Realize the full potential of your company

RealBusiness.RealSolutions.

A close-up of a telescope's lens and barrel, pointing towards a blurred city skyline under a clear blue sky. The image is framed with a blue and white swoosh on the left and a white swoosh on the right.

About Us

Vision

" Our Vision is to drive real business evolution with real software solutions for organizations worldwide. "

Mission

" Our mission is it to create the best software-based solutions for our customers in a way that has the greatest impact on their unique organization. "





Company Overview

Our History

In 1999, Gordon Enns and Casey Kim saw an opportunity to help corporations utilizing early Internet Technology to improve their business. DataOn Corporation was established in Washington State, USA to offer small online business solutions to corporate customers. A year later the company chose Indonesia as its primary technology development and business location leading to the incorporation of PT Indodev Niaga Internet in early 2000.

In the very beginning, DataOn developed a range of small business solutions that can today, be grouped as Corporate Portal products and was able to license these solutions to portal operators and eventually repackaged the offering as a full Content Management Solution for Internet Portals. During this time, DataOn opened a branch office in Singapore to support international sales of its product line.

Anticipating saturation in the CMS market, DataOn began to shift its strategy away from portal products to more traditional business solutions, while still utilizing its base in Internet, or web technologies. These products included Supply Chain Management, Financial Accounting (FA), Content Management, Customer Relationship Management and Human Resource Management (HR). All products were intended as a general base solution which would be customized for the individual needs of clients.

By 2002, DataOn had experienced excellent market acceptance for the HR solutions and released the HR solution under the name SunFish HR. SunFish HR was developed with a concentrated effort on providing a standardized product that met the full range of HR business process requirements. SunFish HR adoption by a range of high profile customers and a focus on

complete success in implementations allowed DataOn to develop a strong reputation and become the leading HRIS provider in Indonesia.

In 2006 DataOn marketed new versions of SunFish HR that provided customers with options to implement basic payroll, operational HR management, or a complete strategic version with SunFish HR Enterprise. DataOn has received awards from the Indonesian Department of Communications and Information Technology as the Top IT & Telco Solution for the category Top HR/HCM Product and the Indonesian Computer Software Association (ASPLUKI) for the Best General Business Application.

The customer's trust in DataOn to provide stable, effective, and affordable software led to requests for further business solutions. The company utilized this opportunity to combine its individual SunFish FA and Supply Chain products under the name SunFish ERP – Enterprise Resource Planning, which is also steadily developing a strong client base.

In 2013 DataOn released SunFish HR SaaS, a completely redeveloped version of SunFish HR with new underlying technology designed for the multi-tenancy cloud environment. Built on the successful business process support of previous SunFish versions, SunFish HR SaaS provides a better user experience, a range of functionality improvements and a simplified implementation process.

Today, DataOn has an extensive network of partners and resellers in Indonesia, Malaysia, Thailand, Vietnam, and the Philippines for SunFish HR and has developed a localized version of the product for each market.



Our Products

Products

SunFish HR™

SunFish HR is a comprehensive Human Resource Solution allowing companies to gain competitive advantage by improving the quality of the people and the efficiency of the business processes. SunFish HR provides the ability and flexibility to manage the company's most important asset, its people. Administrative HR functions (Payroll, Loan, Time, Reimbursement, Organization & Career) and strategic management tools (Training, Recruitment, Performance) are integrated to provide a holistic approach to managing and developing talent.

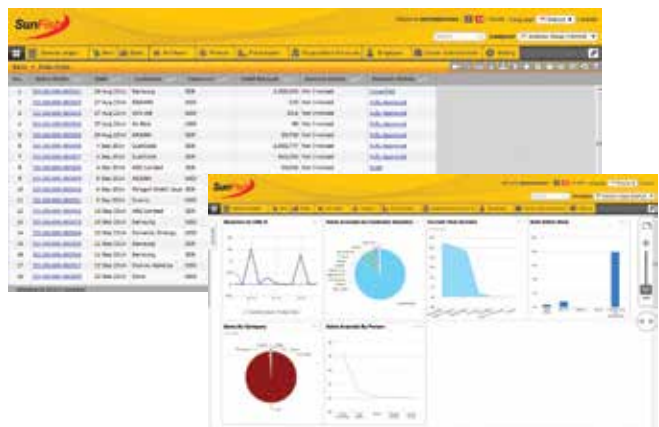
Developed with a focus on cloud computing, SunFish HR is available as a Software as a Service (SaaS) subscription or an On-Premise purchased application. The solution includes flexible workflow management support and comprehensive analytical tools.



SunFish ERP™

SunFish ERP automates and streamlines Enterprise Resource Planning, helping the company work more efficiently while delivering greater insight into the data. A fully integrated suite of functionality allows improved cross-departmental workflow, and higher accuracy that enables improved analytics and better decision-making. SunFish ERP combines and automates processes including accounting, finance, sales, purchasing, fixed asset management, inventory control, and warehouse transfers.

Ease of use, support for cloud computing and the complex analytics of SunFish powers a flexible approach to complex business processes. Dynamic companies are able to leverage SunFish ERP to better manage resources and personnel.



Selected Clients & Partner List

DataOn Client List



Partners

Malaysia



Philippines



Indonesia





Introduction

Today's Complex Business Landscape

Supply or value chains, and resources no longer move one way, from raw materials to end customers, as Porter's model has explained to us since the 1980's. World economies today have become so much more complex – and this complexity is here to stay.

The simple chain evolved into a complex network, where a supplier is not merely a supplier but may become a customer, a strategic partner, or even a competitor. More complexity derives from companies using numerous contractors to build and deliver a product which makes them no longer the experts in every aspect of the chain. On top of that, markets and their conditions change so quickly that managers have difficulty producing a meaningful semi-annual or annual plan.

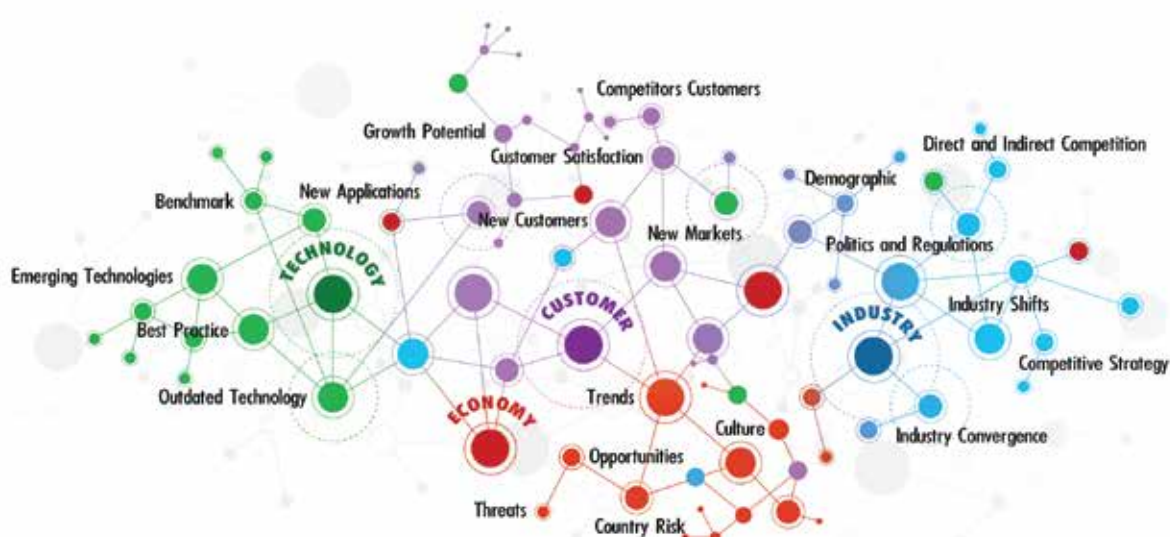
Today, companies require lateral thinking managers who realize that complexity is not a weakness in terms of not knowing every answer, but that the weakness is not knowing who to ask or where to look for it. Understanding the impact of a decision that is made in one part of the company on another very different area is an essential key to success.

Another one is the ability to deal with sophisticated relationships and international cultures, and an environment that facilitates innovation or risk taking.

In order to pursue new opportunities and grow, companies need a sophisticated, integrated IT solution that has the flexibility and scalability to match this new business landscape.

This is where SunFish ERP comes in. It is a cutting-edge business management solution that maps and integrates your company's key business processes and data across its various functional units.

SunFish ERP allows users to manage financials, assets, inventories, human resources, sales, purchases and customer services in a single platform. Comprehensive reportings and analytical tools deliver accurate financial and operational data to drive performance excellence and to react timely to changes driven by diversification, growth, reorganization, or business model and strategy re-evaluation.



INVENTORY

ERP

PRODUCT
MANAGEMENT

Feature Overview

Powerful Solution

SunFish ERP uses the power of the Internet to move goods, information, and money quickly and securely, ensuring the delivery of the right product, to the right location, at the right time, and at the right costs. It provides employees with instant and global access to the tools, communication, and data they need in order to interact with colleagues, partners and customers over distances.

General Ledger - The General Ledger module is at the core of SunFish ERP's Financial Management. It processes and posts all transactions relating to a company's assets, liabilities, equity, revenue, expenses, etc. Transactions originate from other application modules as well as from adjustments made directly within the GL. With the GL companies have the accounting controls necessary to ensure financial data integrity.

Human Resource and Organization Structure - The HR component in SunFish ERP relates to the management of employees and allows the user to arrange and modify organizational hierarchies effectively and map employees, work requirements, positions, and reporting structures to these hierarchies. Therefore it is the backbone of managing application users, role-based privileges, business processes, and approval workflows.

Sales and AR - The Sales and Accounts Receivable module streamlines processes such as quotations, order entries, invoicing and collection of payments, sales returns, credits, proper utilization of discounts, tracking of inventory changes, account receivable adjustments, etc. As such it offers total control over the company's sales related activities and offers the opportunity for customer service improvements.

Fixed Assets - Asset Management in SunFish ERP simplifies the management of the entire asset life cycle: from the maintenance of asset categories, asset purchase through transactions such as transfer, depreciation, revaluation to write off and disposal. Audit trails, transaction journals, accounting and registry reports support easy reconciliation, analysis, transparency and control over a company's assets.

Purchase and AP - The Purchase and Accounts Payable module standardizes and automates the full cycle from requisition through payment to vendor performance analysis. Through effective data and supplier management, it keeps purchase cycles short, owed and due invoices transparent, and allows timely reaction should buying patterns or preferences change.

Inventory - SunFish ERP's Inventory module includes a comprehensive item management system that connects materials, goods and part dimensions with important information for procurement, sales, inventory, and accounting. This offers visibility to manage networked organizations with intercompany and multiple warehouse capabilities.

Finances - The Finance Module helps organization to record and track spending to salaries, suppliers, creditors, and their income from customers, debtors, and investors. Users can conduct bank and cash payments, create payment receipts, manage checks, deposits, verify account balances and reconcile with bank statements. Integrated with General Ledger, Purchase/AP as well as Sales/AR it is part of a comprehensive financial management solution.

Analytics and Reports - Equipped with an advanced business analytics feature utilizing a data warehousing system, SunFish ERP meets the various reporting and monitoring needs of different users across the enterprise in order for them to drive business excellence in every aspect of operation. Whether initiated by a system alert or a new idea, users have a large number of reports, customizable dashboard alerts, graphics, and drillable data to investigate and plan changes to business processes and policies.

Workflow - SunFish ERP integrates a complex workflow management that allows companies to flexibly configure the automated routing of documents and approvals based on groups, modules, rules, if-conditions, and instruction sequences. The workflow management significantly decreases the number of settings involved to coordinate and control each routine business process while bringing consistency and leaving room for exceptions from general rules.

Production - The Production Module offers crucial functionalities to control and optimize a company's production process in order to save costs and to enhance quality and overall business productivity. It provides necessary functions and tools such as bill of material, production control and planning, routing and material management to control and optimize production process.

Characteristics

Flexible, Secure, Intelligent

Flexible

- Multi-company and locations, multi-currency, exchange rate management, multi-language, and international implementations
- Consolidated reporting
- Dual-base currency support
- Web-based application, accessible from anywhere, at any time with just an Internet connection
- Access information easily from the web, tablet, or mobile apps

Secure Infrastructure

- Intrusion Prevention System
- Certification of ISO/IEC 27001:2013 for information and security management
- Certified ISO 9001-2015 audited by Lloyds every six months

Application Security

- User group access to functions and data configured independently and with granular level access control
- NIST SP 180-118, password rules, expiries, device limitations among others
- Creation of audit trails for all transactions as part of architecture that cannot be disabled
- Multiple layers of encryption and security ensure appropriate access control
- Compliance to OWASP standards

Intelligent

- Advanced analytics using data marts
- Automated workflow and visualized management of access levels and workflows
- Deep ESS features for all employees
- More frequent analysis and tracking of data through mobile and dashboard summaries





Sales

Optimize your Collection Process

Processing customer orders, billings, building, and maintaining good relationships with customers throughout the sales and after-sales cycle are critical components of any business. Underpinning this process with the SunFish ERP sales module allows for effective and rule-consistent management of your customer database, quotations, contract negotiations, order entry and fulfillment, invoicing, and receivable tracking. At the same time users remain able to flexibly handle change requests, pricings, promotions and discounts, and react to inventory adjustments, as well as sales returns.

Repetitive data entry tasks are eliminated by using quotations, which track customers' product and/or price inquiries, quantities, delivery & billing details, and discounts applied, and then users can turn these quotations into sales orders; and sales orders into customer invoices after the delivery has occurred. The display of stock availability from the order forms enables users to react to potential shortages with partial deliveries, multiple shipping dates and ship-to locations.

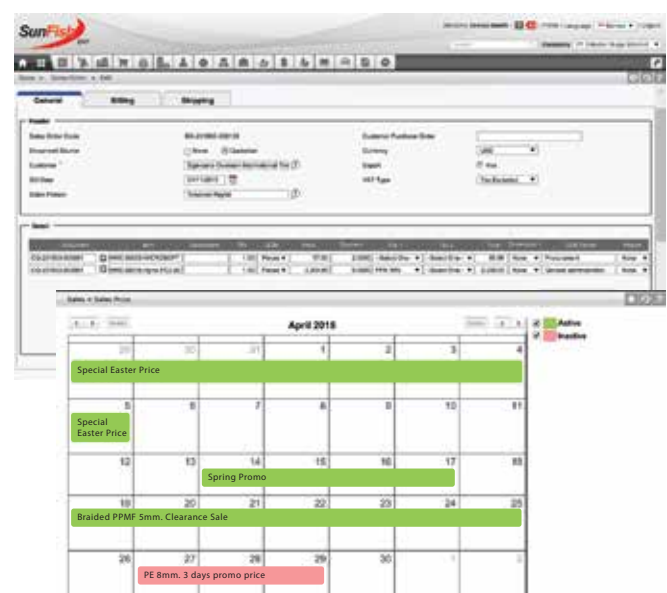
Invoices are then created for single orders or a shipment with options to hold, consolidate or edit prices on invoices before posting the invoices. The integration with Accounts Receivable (AR) easily shows sales and finance people who are paying their bills on time and who should receive a reminder of their aging receivables.

Embedded in the Sales and Accounts Receivable module is the support of versatile pricing conditions and various payment methods. Pricings and payment terms can be defined for specific items, products, services and by customer, reseller, category, volume, promotion, etc.

Payment methods may include check, credit card, bank transfer as well as payments and deposits at the time of sales order, invoice entry, or prepaid orders.

Additionally, SunFish ERP includes the management and control of return and service processes – whether a customer returns one item, a partial delivery or a complete order. The module tracks the quantity returned and creates credit notes to deduct the Accounts Receivable amount. Access to customer data, product orders and supporting documents helps to resolve any complaints or service issues more timely and satisfactorily.

By applying consistent processing rules and by providing one source for order, billing and relationship tracking, SunFish ERP overcomes cross-departmental barriers and helps employees to do their jobs more efficiently as well as enhances customer service.





Inventory

Know the Movement of your Inventory

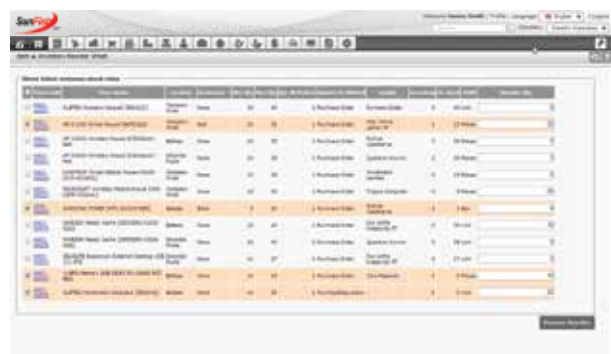
A company's inventory represents a large portion of its investment. Mismanaged inventories can create significant financial harm for a business whether that stems from the costs associated with excess inventory or the loss of business due to shortages. Therefore, inventory concerns are manifold: finding the right balance between too little and too much stock, increasing inventory turnover without sacrificing service levels, decreasing stock levels without jeopardizing the performance, always having enough fast-moving items on hand but just-in-time slow moving items, etc.

Linking the modules of Inventory, Sales and Purchase, SunFish ERP provides companies with the tools necessary for a successful inventory management as it allows them to keep track of existing inventory and its use, and to create replenishment plans that ensure item availability when needed. Instant access, and comparisons of data including current item levels, incoming, outgoing, in transit, promised items, as well as safety stock and maximum stock requirements, slow and aging vs. fast moving inventory,

lead time, inventory turnover ratio, and costs in easy-to-understand single view, empowers managers to determine the economic order quantity.

SunFish ERP supports the definition of inventory items by multiple parameters that include category, type, supplier, item dimensions, location/warehouse, costing method, primary and secondary measurement units (including their conversion rates), reordering rules, minimum/maximum stock, replenishment method, etc.

Item prices can be set up in different currencies and differentiated for retail, shop, and/or distributor including margin, mark-up, discounts, or promotions, which are then automatically applied in transactions with supplier and customer.

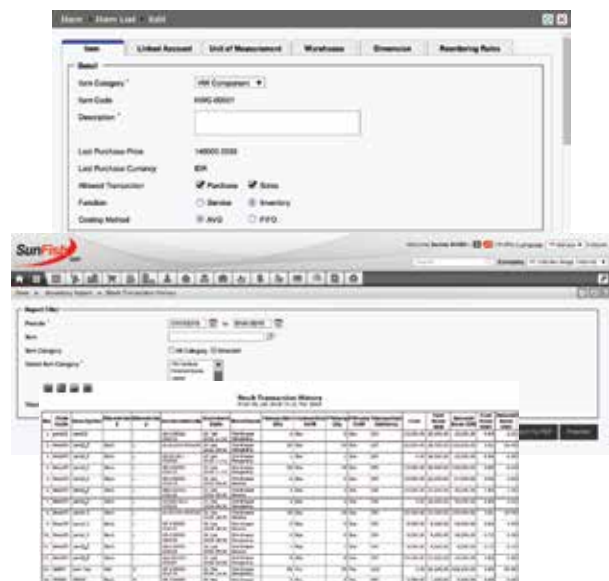


| Item Code | Description | Quantity | Location | Status | Unit | Price | Cost | Turnover |
|-----------|---|----------|-------------|----------|------|---------|---------|----------|
| 1001 | Apple iPhone 12 Pro Max 128GB | 15 | Warehouse A | In Stock | Unit | \$1,200 | \$1,100 | 1.5 |
| 1002 | Apple iPhone 12 Pro Max 256GB | 10 | Warehouse A | In Stock | Unit | \$1,300 | \$1,200 | 1.5 |
| 1003 | Apple iPhone 12 Pro Max 512GB | 5 | Warehouse A | In Stock | Unit | \$1,400 | \$1,300 | 1.5 |
| 1004 | Apple iPhone 12 Pro Max 1TB | 2 | Warehouse A | In Stock | Unit | \$1,500 | \$1,400 | 1.5 |
| 1005 | Apple iPhone 12 Pro Max 128GB (Refurbished) | 20 | Warehouse B | In Stock | Unit | \$1,100 | \$1,000 | 1.5 |
| 1006 | Apple iPhone 12 Pro Max 256GB (Refurbished) | 15 | Warehouse B | In Stock | Unit | \$1,200 | \$1,100 | 1.5 |
| 1007 | Apple iPhone 12 Pro Max 512GB (Refurbished) | 8 | Warehouse B | In Stock | Unit | \$1,300 | \$1,200 | 1.5 |
| 1008 | Apple iPhone 12 Pro Max 1TB (Refurbished) | 3 | Warehouse B | In Stock | Unit | \$1,400 | \$1,300 | 1.5 |
| 1009 | Apple iPhone 12 Pro Max 128GB (New) | 10 | Warehouse C | In Stock | Unit | \$1,200 | \$1,100 | 1.5 |
| 1010 | Apple iPhone 12 Pro Max 256GB (New) | 8 | Warehouse C | In Stock | Unit | \$1,300 | \$1,200 | 1.5 |

Determine your Economic Quantity Levels

The system incorporates a batch release process of goods to satisfy multiple urgent sales orders deliveries, circumventing their serial (one-by-one) approvals. It also provides a physical stock count function to assist in managing periodic manual stock level checks in order to ensure that differences between current physical stock and system determined stocks are caught and dealt with.

Extensive reports, analysis tools, and alerts keep track of performance targets and identify slow-moving items, bottlenecks, and other inefficiencies so that appropriate actions can be taken and optimal space and resource usage can be achieved.





Purchase

Improve Spending and Demand Analysis

In the past, purchasing has been –more or less - considered a necessary task but has never drawn much attention from senior management as a strategically relevant part of corporate performance. Led by the technology and automotive industries this perception is changing and purchasing is increasingly acknowledged for the substantial impact it has on engineering, sales, the ability to meet customer demands, and its role in the success of a company.

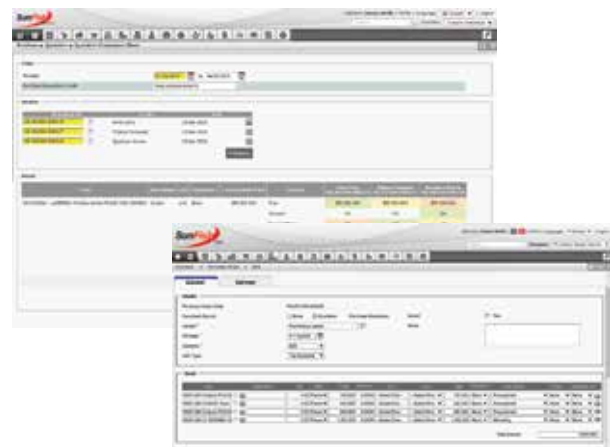
SunFish's Purchase and Accounts Payable Module integrates the entire purchasing and receiving process from automatic order generation to paying vendor invoices. Using the power of automation, it not only helps employees to save time in achieving daily tasks such as validating item statuses, generating orders, updating quantities/ dates and vendor information, but also avoids costly mistakes that stem from double data entries and inaccuracies.

Automation begins with the module's supplier management that links detailed vendor information to items, minimums, prices, discounts, past purchase terms and delivery performance. Automation continues with the order process, by letting users generate purchase orders (PO) directly from a supplier quotation, or when inventory items are below a minimum stock level. POs can be split into several parts for allocation to different warehouses informing managers of their expected arrival dates.

Users can compare multiple vendor quotations related to a purchase inquiry by criteria such as price, discount, payment terms, lead time, etc. The system highlights the best/ worst option, and lets users know whether they have purchased the item from a vendor previously.

Good Receipts are used to monitor goods deliveries, inspecting formal receipt criteria, quality, and vendor performance. They record any improper conditions and are used to process return options including exchange, repair, or disposal. An approved good receipt concludes the good delivery, at which point the vendor invoice can be accounted for.

Extensive drill-down capabilities allow to track transactions step by step back to their origins to resolve problems and provide users with fast, easily accessible business insights into purchase data on any level.





Production

Improve your Production process and Operational Visibility

Production planning, implementation process and inventory control (PPIC) is the center of the supply chain process for many types of trading and manufacturing companies. Effective management of a company's production process not only ensures smooth and efficient operation but both defines and differentiates your company.

The Production Module in SunFish ERP provides the functions and tools necessary to streamline, control and optimize the production process by integrating data from sales, finance, and planning. It exchanges information such as sales forecasts, inventory levels, and budgets until detailed production orders can be issued. As a result, it improves operational visibility, facilitates a faster and more accurate decision making process, and minimizes the effort and time spent on collecting, correlating and interpreting required data.

The Production Module allows users to create independent production steps that can be used individually in configuring the production process of many different products – whether they are for single time only or made-to-order production. Once set up, production orders can be created either from the Bill of Material (BOM) or Sales Orders. Generating production orders from BOMs is the standard way, which has the benefit that item availability, warehouse location and production issue method are automatically recorded. However, orders can also be based on Sales Orders with estimated delivery dates, which lets users schedule the activities for each production

process and monitor their timely completion via the Production Controller.

Production personnel can always see the status of production orders, work-in-progress inventory, time to completion, etc. and analyze key performance indicators for quality, production lead time, and costs. Moreover, SunFish supports the prediction of demand based on received orders and based on forecasts. That means production staff have better foresight of future demand for products and can adjust material planning accordingly. Through the ratio management and automated inventory control, users can also handle raw materials efficiently and properly and as such eliminate the majority of waste.

Ultimately, the Production Module in SunFish consists of many, individually simple configurations to define and track all aspects of production. However, all settings combined then provide users with significant insight into the production performance and allows them to see where enhancement opportunities lie.





General Ledger

Fact-based Insight for Smart Financial Decision-Making

The general ledger is the central and chronological accounting record of your company and all its financial and non-financial transaction. It processes and posts all transactions relating to a company's assets, liabilities, equity, revenue, and expenses – data received from other application modules such as Sales, Purchase and Fixed Assets as well as adjustments made directly within the GL. The insight gained in this process will help you to enforce relevant accounting policies and procedures.

The General Ledger module is at the core of SunFish ERP's Financial Management. It provides a flexible chart of accounts structure to incorporate an unlimited number of main and sub accounts as well as cost centers using templates. The module's flexibility includes: the setup of the many different entities an organization can have with their individual financial patterns and base currencies; allocation of GL transactions across multiple entities; and quick consolidation of companies.

More benefits of the General Ledger module in SunFish come from its capability to setup segment-based journals grouped by cost center, projects, branches or other options that company policies dictate. The built-in Budget Management feature follows that structure and can combine multiple segment options when forecasting budget figures and configuring budget allocation methods.

The module simplifies standard accounting tasks by allowing users to define postings for regular accounting execution specified with a frequency and recurrence-based reminders, and automatic accrual journal entries using defined dates.

Moreover, it allows the incorporation of various options for month-end and year-end jobs to close accounts for a respective period, and reminders to periodically evaluate open items in foreign currencies.

Altogether, the General Ledger Module delivers a solid base for your financial reporting and analysis needs by consolidating financial transactions and data throughout the system and from all subsidiaries.





Optimized Asset Management & Accuracy

Whether they are buildings, machineries, vehicles, computers (hardware/software), electronics or office equipments; fixed assets are an important part of your business value and you are accountable for the status and value of your company's assets to tax agencies, auditors, and executives. The management of fixed assets is more than just depreciation; it is about accurately tracking them through the different stages of their respective lifecycles and following government regulations in order to avoid tax over payments or, worse, penalties for non-compliance.

The Assets Management Module in SunFish ERP gives companies control over the entire asset life cycle and related accounting transactions. It requires users to input detailed information including asset code, serial number, acquisition/PO date and cost, quantity, vendor, freight, department, lifetime, insurance, salvage costs, etc. This allows that the total cost of ownership for individual assets and their related transactions from purchase to deactivation are accurately tracked and transparently represented with the value in each lifecycle phase. Users can create as many asset categories as their company's business requires to group individual items in order to save time when locating specific asset records.

For the asset depreciation SunFish allows the definition of several methods, and embeds the most common ones, (e.g. straight line) as predefined methods in the system. Users can select the most advantageous depreciation method for each asset item.

Depreciation is processed as system default every month based on each asset's acquisition date, whereas 'not yet due' or 'already salvaged' assets are blocked from being processed. After each run the system automatically accumulates the depreciation values and expenses to the related charts of accounts as set up for each item.

SunFish also features all other asset management processes such as status changes, transfer, capitalization, asset revaluation, write-off and disposal including profit/loss on sales and balancing charges. The interface to the General Ledger module ensures that all events affecting the financial recognition of an asset are recorded for its entire lifecycle and automatically posted to the ledger and update respective GL account codes in order to maintain accurate financial data. Additionally through the interface, the system allows users to generate year-to-date-values, to consolidate depreciation records and to purge retired, disposed or written-off assets.

| Asset Code | Description | Category | Acquisition Date | Acquisition Cost | Useful Life | Depreciation Method | Current Value |
|------------|-----------------|----------|------------------|------------------|-------------|---------------------|---------------|
| 10000001 | Office Computer | Computer | 01/01/2015 | 1000.00 | 36 Months | Straight Line | 833.33 |
| 10000002 | Office Computer | Computer | 01/01/2015 | 1000.00 | 36 Months | Straight Line | 833.33 |
| 10000003 | Office Computer | Computer | 01/01/2015 | 1000.00 | 36 Months | Straight Line | 833.33 |
| 10000004 | Office Computer | Computer | 01/01/2015 | 1000.00 | 36 Months | Straight Line | 833.33 |
| 10000005 | Office Computer | Computer | 01/01/2015 | 1000.00 | 36 Months | Straight Line | 833.33 |

| Field | Value |
|------------------------------|--------------|
| Acquisition Date | 01/01/2015 |
| Acquisition Cost | 1000.00 |
| Useful Life | 36 Months |
| Residual Value | 0.00 |
| Start Depreciation Period | January 2015 |
| Last Depreciation Date | 31 Jan 2016 |
| Net Book Value/Current Value | 166.67 |
| Remaining Useful Life | 35 Months |



HR Management

Manage your Employees & Organizational Hierarchies Effectively

The HR component in SunFish ERP comprises of managing your employee and organizational hierarchies effectively. It does not only provide all essential processes for your workforce administration, but it is also the key in setting up application users, role-based privileges, business processes, and approval workflows.

SunFish ERP's Employee Management maintains a broad range of information including personal, employment, education, family, OSHA, career transitions, service agreements, etc. whereas an ESS interface allows employees to participate in the HR administration and control the validity of their own data. Beyond pure data management, the module tracks and ensures processing of requests that employees can make throughout the ERP system such as supply or transportation requests (which can be generally made by all employees) or warehouse transfer, purchase, sales return, or good issues requests, etc. (which are made by employees with specific ERP tasks).

The module is linked to the Organization Structure component as it maps employees, work requirements, positions, and reporting structures to their respective organizational hierarchies.

As structures undergo changes from time to time SunFish provides user-friendly features to easily make adjustments. Versions of structural set ups can be saved to templates for later re-use or to simply keep a record for historical data tracking.

Both components come with strong reporting and analysis tools, allowing managers to "mine" this data to review demographic tendencies, trends in

employee turnover, to identify vacant or unproductive positions in order to fine-tune performance, development or recruitment efforts.

As mentioned earlier both components also serve an application configurational purpose: employees are set up as passive or administrative system users and depending on their roles in the system receive access to only those functions and data needed to fulfill that role. Organizational information such as organizational unit, cost center, job title, or job grade, on the other hand, are used to define and automate the routing of documents, requests, and approvals bringing consistency to each routine business processes while leaving room for exceptions from general rules.

SunFish also allows companies to adapt a more comprehensive HR strategy. Using a modular approach, companies can add on other administrative (Payroll, Attendance, Benefits, Loans) or strategic (Training, Performance, Talent Management, Recruitment) functions as needed and easily upgrade to a full ERP & HR packages over time.





Data analysis

Analysis

Quickly Answer Important Business Questions

Collecting the right data is only half the battle. Organizing and processing the data to reveal useful information and analysis of the aspects that impact your bottom line is the other half. Real-time visibility and where appropriate, cross-functional sharing of data, improves the company's ability to serve customers, control costs, investigate problems, plan accurately, and make effective changes and improvements.

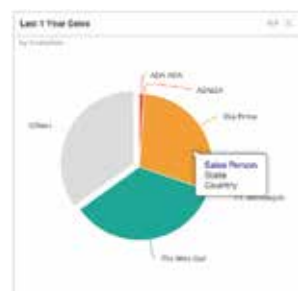
Therefore, SunFish ERP is equipped with powerful business intelligence tools that encompass a large number of reports, customizable dashboard trackers, trends KPIs, alerts, notifications, reminders, graphical analysis, and drillable data to not only give companies a clear picture of its operational performance but also to meet all their reporting and ad hoc analytic needs.

Each ERP feature includes a variety of pre-defined, readily available summary overviews, detailed data reports, and drill downs in different output formats. Via the solution's simple data navigation and interactive report generation, users can easily retrieve the exact data required to do their work, for reports to supervisors, further data simulation, action taking, or presentation to stakeholders. Additionally, customized reports can be added to truly fulfill each company's unique reporting requirements.

Customizable performance indicators, charts, alerts and reminders can be assembled in personalized or (role-based) pre-defined homepage dashboards so users can monitor process and performance issues belonging to their area of expertise.

As such they provide users with an efficient way to stay informed of the status of their operational flows and tasks on an overview basis. If users are alerted to an undesirable development through notifications, yellow, or red flags; they can drill down those data from the indicator level to the individual transaction level until they identify the origin of the problem and take appropriate action to resolve it.

Even though these tools already remove the barriers to better business insight, SunFish ERP goes one step further utilizing data warehouses.





Never-Known Query Flexibility to Satisfy Your Information Needs

SunFish ERP incorporates data warehousing technology that provides users at every organizational level with great flexibility to define scope and content queries which can span hundreds of operational processes and transactions to satisfy their information need - not just for complex data queries, but also for getting quick, coherent and insightful information. This technology addresses common challenges faced by many users where the existing reporting tools are simply too inefficient, too time consuming, or too difficult to use, effectively generate multi-dimensional, insightful reports that can provide the answers required by the management.

Allowing the combination of data from different sources such as sales, inventory and finance, etc. users can quickly answer (basic, yet) important questions such as: Which products are our best (or worst) sellers? -- in what region, drill-down by sales person? How are profit margins? How do discounts and promotions affect sales volume? How much money do we loose on excess inventory? Which costs can be cut without causing long-term harm? How can cash be conserved?

Additionally, the multi-tiered data structure of the warehouse gives users the flexibility to conduct their analysis on different levels - ranging from a high-level summary down to transactional level detail.

Presenting the vast amount of operation data in an actionable, easy-to-understand format, data warehouses can reveal current and long-term trends, highlights problems, indicates opportunities, and ultimately gives users the information that is critical to understand business conditions and successfully execute business initiatives.





Workflow

Simplified Management of Workflows and Approvals

SunFish embeds the sophisticated features of a professional workflow management system that provides users with a graphical, easy-to-use interface to flexibly configure and manage the automated routing of their documents, approvals and business processes.

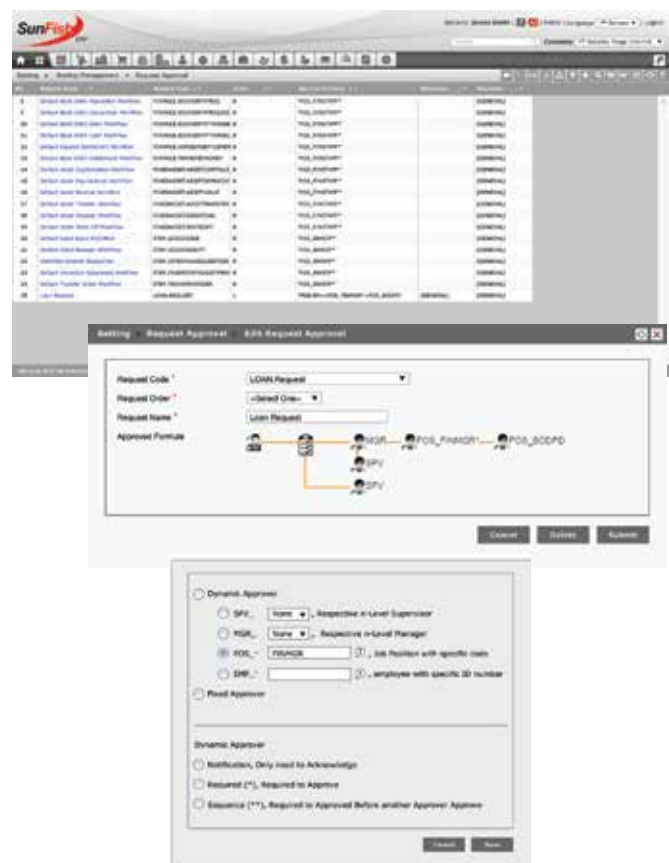
Processes such as sales or purchase order approvals, discount approvals, warehouse item transfers, inventory adjustments, invoice payments or collection and many more can be easily defined with simple and/or complex workflow rules to give companies the control over these processes they require to ensure that the processes are properly tracked and followed up.

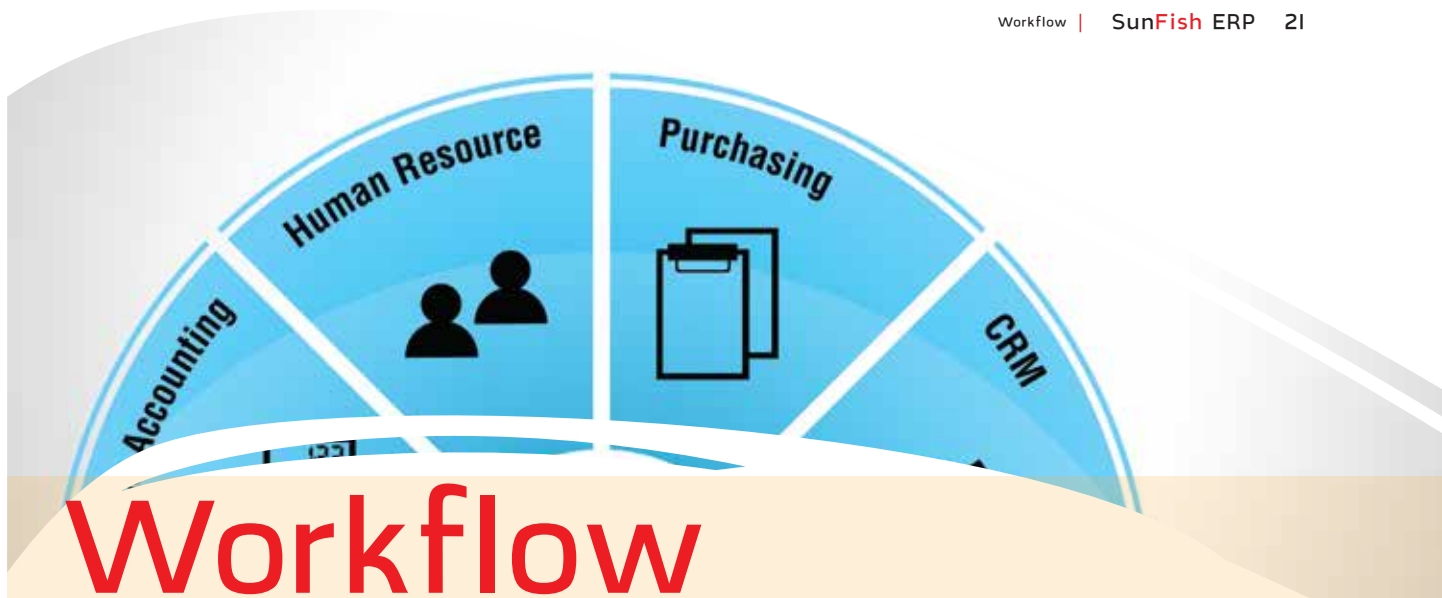
For any request or form, users can create a workflow main level that catches any situation and then add as many lower levels of details and optional rules as needed. Each approval workflow is set up with the criteria that triggers the workflow rule execution, the immediate actions to be taken, in which order and by whom, and follow up actions to be taken if approvals exceed a pre-defined duration of time.

The origin of a workflow can be defined as 'who is the requester' or 'whom the request is for' and the system allows the combination of multiple filters such as positions, organizational units, cost centers, job grades, etc. to specify that origin. For the approval flow the system supports sequential or parallel, single, group or multi-tiered approval processes, whereas parallel processes can be

merged back to a single sequence process after each individual process branch is completed.

Approvers, cross-functional approval lines, and alternate approvers can be specified by position, employee ID, levels of supervisors, directors, managers, etc. using the matrix organization chart.





Simplified Management of Workflows and Approvals

Auto-approvals can be setup if the conditions required for approvals are clear without exceptions. More nuanced decisions will trigger approval requests and reminders. Email notification, status updates, and reminders accompany each record through its workflow cycle and alert people in charge to what action they need to take.

Additionally, dashboard indicators and alerts graphically display the performance of different approval flows, highlight problems, and let users drill down the data until the origin of the bottleneck is identified.

Approvals that exceed a defined time frame will be addressed by the system automatically depending on a company's policy. The following options are possible:

- Rerouting of the requests to a central position
- Voiding the requests with notification to employees to re-apply
- Auto approval of requests
- Auto rejection of requests

Ultimately, the workflow management system in SunFish reduces the complexity of configuring approval flows and easily maintains them. Users no longer need to remember to adjust workflow settings in case of partial or complete organizational restructuring, employee promotions or resignations as automatic and pre-defined adjustments ensure that requests do not become obsolete when sudden vacancies occur.



| Request No. | Request Date | Request Amount | Request Status | Request Type |
|------------------|--------------|----------------|----------------|--------------|
| LGR2014000000002 | 21 Mar 2014 | 100,000.00 | Fully Approved | Loan Request |



System Overview

Comprehensive Strategy to Security and Availability

SunFish Security

DataOn offers clients On-Premises and SaaS options when using SunFish ERP. On-Premises allows clients to provide every infrastructure needed to run the software, while in SaaS all the hardware infrastructures are managed by DataOn. As security is a major concern, DataOn addresses the issue by obtaining certification of ISO/IEC 27001:2013 for information and security management.

Clients have the right to trust that confidential data is protected. Rest easy knowing that data storage and processing are constantly upgraded to optimize efficiency subject to uncompromising security standards. Data access is controlled within your organization through user access control and protected from intrusion using successive layers of data security - all of which are challenged, tested and upgraded subject to DataOn's client protection policies.

The combination of rigid security standards and constant tuning for optimal processing allows you to run your business securely and efficiently knowing SunFish ensures the security of all processing applications 24/7. This allows you to focus your energies where they are of most value - making decisions that will drive your organization forward.

The SunFish application itself is functionally secured by configuring user group access to functions and data independently and with granular levels access control. Access to the application is controllable by NIST SP 180-118 password rules, expiries and device limitations to name a few security measures. Also, SunFish creates audit trails for all transactions as a component of the application architecture that cannot be disabled. Confidential data stored in the data base is encrypted when stored and its decryption is controlled by the SunFish application security ensuring all confidential data is only viewable by the duly authenticated user.

Moreover, DataOn staff and third party auditors frequently update security configurations to the latest industry standards and perform periodic system penetration testing both manually and with automated intrusion systems.

Development procedures are audited by a security team and comply with Open Web Application Security Project guidelines and avoidance techniques for penetration vulnerabilities including the OWASP Annual Top 10. Development and hosting infrastructure teams undergo procedural compliance audits for DataOn's ISO 9001:2015 certification every six months by Lloyd's Register Quality Assurance.

SunFish may be hosted by the customer in a private cloud environment or on secure infrastructure provided by DataOn. SunFish secure infrastructure is designed for security and availability at a level that would not normally be achievable by a single individual customer. Access to data is restricted at multiple levels through firewalls and Intrusion Prevention Systems. Reaching the physical data store requires layers of subnets, which are physically segmented, and have individualized security configurations. Considerable effort is taken to remove any single point of failure and to absorb multiple points of failure in more failure prone components. All DataOn data centers are Tier 3 facilities with 24/7 physical monitoring and access restricted to a small number of DataOn staff. Data centers have full UPS power and generators and preference is given to green data centers that utilize renewable energy sources and have low PUE ratings.

As no infrastructure can be completely immune to failure, DataOn maintains fully redundant reserved capacity for Disaster Recovery at other DataOn data centers with warm failover systems. In the case of a total loss of a primary datacenter, current maximum RPO is eight hours with an RTO of four hours.



System Overview

Advantages of Cloud Native SunFish

Architecture

The original SunFish developed in 1999 was a 100% web-native application available as both an on-premise and a hosted solution. SunFish version 6 has been redeveloped as a purely multi-tenancy cloud application with support for deployment to DataOn or customer facilities. Even when deployed in customer facilities, SunFish remains linked to the single application core either in real-time or through a batch process depending on the customer security restrictions.



The multi-tenancy approach allows DataOn to improve and enhance SunFish much more quickly than traditional software versioning processes did. With this process, DataOn performs monthly and quarterly updates to a single instance of SunFish, enabling all customers to always have the latest available software and avoiding the cumbersome process of annual or even less frequent major version upgrades.

With the SunFish Development Kit, customers can add customization to their tenant for their specific requirements. This may include reports, screen changes or even customization of core processing functions and database structures. Although there is a single instance of the SunFish core application, each customer's database, files and customization are stored separately to prevent even the smallest possibility of data leakage. The SunFish Development Kit controls how customization is handled by the application in order to prevent a conflict between customer specific customization and future updates and provides warning of potential conflicts so that the developer can verify the impact and resolve it prior to deployment.

SunFish provides some pre-built methods of interfacing to other corporate systems and the ability to add new interfaces. Interfaces are handled by separated channels, which exist in a segmented partial DMZ when hosting on the SunFish secure infrastructure. The main SunFish application controls all access through a single access channel that determines privilege regardless of the request types such as HTTP from a PC browser user or JSON from a mobile apps user. The application itself is segmented to the presentation, business process, application and data layers to provide the enhanced level of componentization and standardization that is frequently overlooked in web-native applications.

The SunFish architecture handles the generation of data marts that provide the basis for business intelligence analytics; forces data change audit trailing of all transactions; manages real-time encryption/decryption of confidential data and provides a range of other features to ensure company data is reliable, available and secure.





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PT Indodev Niaga Internet



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info@dataon.com



DataOnCorp

DataOn Head Office

Nissi Bintaro Campus

Jalan tegal Rotan No. 78 Bintaro Sektor 9,
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Phone : +62.21.2221.3077

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in accordance with the Quality Management System
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