

## ***iCube Supply1st™ Overview***

iCube Supply1st™ is a management system software that streamlines and integrates the end-to-end ordering, logistics, engineering and manufacturing workflows between the original suppliers to the end customers.

It automates the global processes in the supply chain as a whole, adds process integration, user collaboration, cuts process redundancy and enhances core processes to fit various business and operational requirements.

The simple workflow routes the various orders (sales, purchase, manufacturing, engineering change, bill-of-material) from start to end. Each process is tracked with user and completion time stamp, internal and external communication notes and order status to provide full visibility, traceability and prevent oversight.

Every change of order is logged with the complete order detail identified with a unique revision number for audit trail.

It is a complete and independent system that runs outside and integrates with Sage Accpac ERP and Sage Pro ERP. It also can be run standalone.

iCube Supply1st consists of the system manager, core modules and supplements.

Supplements are add-on components that need to run on a core module and bring specific functionalities to it. "PickNship" is an example that adds picking and shipping processes to eSO workflow to extend eSO to process sales orders from creation to shipping.

### **Core modules**

1. [SO#](#)
2. [eSO](#)
3. [ePO](#)
4. [cPortal](#)
5. [vPortal](#)
6. [eBOM](#)
7. [eWO](#)
8. [WO+](#)
9. [IC Manager](#)
10. [Shipment Update](#)
11. [cSO](#)

### **Supplements**

1. [PickNship](#)
2. [ECO](#)
3. [Ship Link](#)



## Core Modules

### **1. SO#**

SO# routes sales orders from creation to shipping. It consists of the following processes.

1. Create/edit orders

This process is to enter new sales orders or revise existing orders.

2. Sales approval

This process is to approve or reject new or revised sales orders from the sales perspectives such as for pricing, delivery schedule and allocation etc.

Approved orders will be routed to credit approval. Rejected orders will be bounced back to the originated sales people for resolution.

Each order revision will have the complete order detail logged with a unique revision number.

3. Credit approval

Similar to the sales approval process, this process is for approving or rejecting sales orders from the accounting perspective such as for payment term and credit amount etc.

After credit approval, this sales order will be posted to ERP for logistic operation. Users can continue to use the picked and shipped processes.

4. Pick

This process is to print picking ticket for shipment.

5. Ship

This process is to ship the picked items. Users enter the quantity of items to ship, print cartoon labels, tracking number and shipping charge.

### **2. eSO**

eSO is the web-based version of SO#. The standard product comes with workflow up to the "Credit control" process where approved sales orders will be posted to ERP for successive processes.

The supplement "PickNship" adds pick and ship processes in eSO to process shipment.

### **3. ePO**

ePO routes purchase orders and purchase requisitions from creation, revision and approval to posting to the ERP. Every order and requisition is logged with internal and external communication, notes, history of previous processes with user and time stamp.



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Every order revision is logged with the complete order detail identified with a unique revision number for audit trail.

It consists of the following processes.

1. Create/edit PO or PO requisition  
This process is to create and revise purchase orders or purchase requisitions.
2. Approve PO or PO requisition  
This process is to approve or reject purchase orders or purchase requisitions. Approved orders will be posted to the ERP system and the rejected orders will be bounced back to the originated buyer or requester for resolution.

### **4. cPortal**

cPortal is the customer portal to allow your authorized customers to do the following self-services online for their own information.

1. View order status
2. View accounting info such as the purchase and payment statistics, the current receivable and credit status
3. View and update contact info
4. View product list and pricing
5. View invoice and payment history
6. Enter sales order
7. Place RMA requests and view RMA status (Requires iCube Customer1st)

### **5. vPortal**

vPortal is the vendor portal to allow your authorized vendors to do the following self-services online for their own information.

1. View purchase order and history
2. Retrieve purchase orders
3. Update revised PO shipment schedule  
Similar to the "Shipment Update" for buyers to update the shipment information of POs, this feature is for vendors to update on their own shipment schedule.

The split line feature allows the shipment of a line item to break into multiple partial shipments. Each line item will have a log for the original shipment date, the current shipment date, and the revised shipment date. When the shipment is done, the final shipment date is also tracked.



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4. View and update contact info  
The vendors' accounting information is read from ERP system.
5. Retrieve RTV orders (With iCube Customer1st installed)

### **6. eBOM**

eBOM is a workflow oriented bill-of-material and Engineering Change Orders processing system (required "ECO" supplement) to route BOMs and ECOs from creation, revision, approval to posting to the ERP.

Every BOM and ECO is logged with internal and external communication, notes, history of previous processes with user and time stamp. Every document revision is logged with the complete order detail identified with a unique revision number for audit trail.

Each BOM can associate multiple documents in format of Text, PDF, Image, Audio and Video for various requirements such as procedures, manufacturing instructions, ECOs, manuals, drawings, schematics, source codes, net lists, Gerber files, service packs and facility layout, ISO documents and so on.

It consists of the following processes.

1. Create BOM  
This process is to create a new BOM.
2. Revise BOM  
This process is to revise an existing BOM.
3. Approve BOM  
This process is to approve or reject a BOM. Approved BOMs will be posted to ERP with email notification to internal and external users defined in a distribution list. Rejected BOMs will be bounced back to the originated engineer for change.

### **7. eWO**

eWO is a workflow oriented manufacturing order processing system to route WO from start to completion and to perform all the proper inventory transactions, consuming all components, add the labor and overhead cost, do cost roll up for the finished goods.

Every WO is logged with internal and external communication, notes, history of previous processes with user and time stamp. Every order revision is logged with the complete order detail identified with a unique revision number for audit trail.

It consists of the following processes.

1. Create/edit WO  
This process is to create and change work orders, with option to convert from sales orders.
2. Approve WO



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This process is to assign what work orders to be produced at what schedule and at what inside or outside WIP location.

3. Pick WO  
This process is to pick components from the source location to the WIP location. We can do multiple picks when components are available to cover shortages.
4. Produce WO  
This process is to produce the finished goods. It allows additional inventory transactions such as receiving in shortages, issuing out surplus or swapping for defective items. For serialized items, it tracks the serial no. of components that associates to the serial no. of a finished goods.
5. Complete WO  
This process is to deplete all components, produce the finished goods and do the cost roll up, and transfers the produced finished goods inventory to finished goods location.

### **8. WO+**

WO+ adds on to Sage Pro ERP work order module to provide the following enhancements

1. Component Kitting to allocate components to be issued to a work order.
2. Component Picking to pick components based on the real-time pull list that reflects the shortages and to record what components and serial no. that have been picked. It supports multiple picking.
3. Multiple serialized finished goods to allow work orders to produce multiple quantities of finished goods that require serial no.
4. WIP tracking to log the time in and time out, the components and quantity in and out, the communication & notes with user log.
5. Link serial number of components to serial number of finished good

### **9. IC Manager**

IC manager provides instant inventory status and allocation feature to decide the items and quantities to be shipped for a sales order and to print out the picking slip with only the released items printed.

The simple interface consists of sections for inventory, sales orders and purchase orders. Selecting an item at a location will display the total quantity on hand, quantity on PO and quantity of SO in the inventory section and the breakdown of SO and PO in the corresponding sections.

Once selecting an item, you are able to click a button to view the following data of the item



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1. The historical purchase and sales history
2. Age
3. Projected quantity in the next 13 user-definable periods

### **10. Shipment Update**

Shipment update bridges the logistics processes from customers to sales people, from sales people to buyers and from buyers to vendors to ease the logistic process.

It eases the revision of PO delivery schedule that alerts sales people with the affect sales orders with an easy process to change the SO shipment schedule, and with customer notification for the change.

New sets of fields are introduced for original ETD and quantity, current ETD and quantity, revised ETD and quantity to both PO and SO line items. Buyers and sales can revise PO ETDs and SO ETDs multiple times and each revision will be logged in history with complete detail. We are able to know the original ETD, the current ETD and the previous revisions for any SO and PO item.

The split feature allows any PO and SO item to be split to multiple split lines with each split line a revised schedule of ETD and quantity.

After buyers have revised the PO schedule, auto email notification will be sent to sales people that they can

1. do manual or auto revise of SO ETD to react with the change of PO ETD.
2. update customers for the SO ETD revision by emailing an order acknowledgement that lists the prior shipments and revised ETD schedule of outstanding items.
3. allocate available items to ship and print out picking ticket with the released to ship.

### **11. cSO**

cSO adds in to Sage CRM to provide an interface to eSO or SO# to create, edit and inquire sales orders within Sage CRM.

SO created/edited in cSO will be routed to eSO or SO# for sales and credit approval. All rejected SO will be available in CRM for revision.



## Supplements

### 1. PickNship

PickNship adds picking and shipping function to eSO.

The picking function prints picking slip. If IC Manager or Shipment Control is installed, the picked items are the released items for shipment.

The shipping function allows you to add/edit freight charge, prints cartoon labels and logs the tracking no. Packing slip is printed with a unique running no.

### 2. ECO

ECO brings creation, approving and distributing processes of Engineering Changes Orders to eBOM.

Authorized approvers can reject ECOs that will be bounced back to originators for resolution. Approved ECOs can be stored with auto email notification to users in the distribution list.

ECOs are tied to BOM revisions and you can view what products have gone through what ECOs and which products have been affected by a given ECO etc.

### 3. Ship Link

ShipLink integrates the SO# and eSO modules with the Starship manifest system by v-technologies that support UPS, Fedex, trucking and other carriers, for information exchange to eliminate the manual user entries.

ShipLink bridges these two modules and ERP with auto data exchange to eliminate data entry. It sends shipping information such as shipping address, shipping method and document no., to Starship for the carrier to print out shipping label for each package. In return, ShipLink retrieves the tracking number and the shipping charge and store to ERP and print in the related shipping document.

