

EGN5621 – Enterprise Systems Collaboration

Term Project

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Tyco Fire & Security Business Process Model

Design and SAP implementation of a business process model for the manufacture and sale of a set of Sensormatic brand products

tyco

tyco
Retail Solutions

Sensormatic[®]
securing today's business[™]

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1 History and Overview

Sensormatic is in the business of the manufacture and sale of electronic article surveillance (EAS) equipment. Sensormatic's portfolio includes vital loss prevention and operational improvement technologies and solutions. Backed by more than 1,500 patents, the Sensormatic solutions portfolio is sold through ADT and authorized business partners around the world. From the front of the store through the entire retail supply chain, Sensormatic products and services help keep losses lower—and profits higher.

Today, over 80 percent of world's top 200 retailers that use EAS rely on Sensormatic solutions, which include EAS, source-tagging, data analytics, and in-store, item-level intelligence applications. Sensormatic forward-thinking solutions also include dual EAS/RFID technology that provides item-level security and visibility in an ever-changing retail environment.

Sensormatic is focused on operational improvements on the retail selling floor. Traditionally a loss prevention company, Sensormatic now helps retailers address their most significant form of loss—decreased sales due to inventory inaccuracies. Sensormatic's family of item-level RFID solutions enables information accuracy that drives intelligence back into the supply chain by improving the integrity of the data at the item level. These products are designed to improve existing store operations, increase product availability, and enhance the customer shopping experience. Retailers are recognizing that dual EAS/RFID functionality addresses both item-level security and item-level visibility to help prevent theft while improving the quality of item-level data.

Tyco International (NYSE: TYC) is a diversified, global company that provides vital products and services to customers in more than 60 countries. Tyco is a leading provider of security products and services, fire protection and detection products and services, valves and controls, and other industrial products. Tyco had 2007 revenues of more than \$18 billion and has 118,000 employees worldwide.

1.1 Key Dates in Sensormatic History

- 1960: Sensormatic is established and incorporated in Florida.
- 1988: Sensormatic Electronics Corp. of Deerfield Beach announces buy-out of Allied-Signal Corp.
- 1995: Sensormatic signs up to sponsor 1996 Atlanta Olympic Games.
- 2000: Sensormatic signs up to sponsor 2002 Winter Olympic Games.
- 2001: Sensormatic is purchased by Tyco International Ltd.
- 2007: Tyco concludes a corporate separation that splits the company into three publicly independent companies: Covidien Ltd. (formerly Tyco Healthcare), Tyco Electronics Ltd. (now TE Connectivity Ltd.) and Tyco International Ltd. (formerly Tyco Fire & Security and Tyco Engineered Products & Services). Sensormatic becomes part of Tyco Fire & Security.
- 2012: Tyco International splits into three independently traded companies: The ADT Corporation, Tyco Fire and Security, and Pentair Ltd.

1.2 Corporate Mission

Tyco's mission is to advance safety and security by finding smarter ways to save lives, improve businesses, and protect where people live and work.

1.3 Values

As part of the Tyco family of companies, Sensormatic Retail Solutions attracts, develops, and promotes a diverse and inclusive work environment that reflects the global community. Sensormatic has programs that foster diversity and inclusion and support Tyco's values of Integrity, Teamwork, Excellence, and Accountability.

1.4 Vision

The security needs of retail customers have evolved, requiring more data-centric applications to manage their business. They desire a cohesive yet diverse set of intelligent, data-driven solutions that address additional challenges including: internal theft, customer service, vendor fraud, inventory accuracy, labor productivity, out-of-stocks, item location, and efficient replenishment. Throughout the changing retail environment, Tyco's vision remains strong, consistent, and focused: providing quality solutions and service to customers around the globe.

Tyco's envisions its Sensormatic brand loss prevention technology as the world's leader in providing the highest detection rate in the retail solution industry.

1.5 Corporate Strategy

As a pure-play operating company, Tyco will align functional and business resources as one organization, dedicated to executing on that growth strategy. Each of Tyco's business units will also continue to have their own specific strategies and initiatives, depending on their unique market needs—and all business units will be pulling in the same direction as one company.

1.6 Roadmap

The roadmap within Tyco Retail Solutions is to provide retailers with a fully integrated solution to problems facing brick and mortar operations. This is done by providing:

- Safety and Security Solutions,
- Loss Prevention,
- Inventory Intelligence, and
- Store Traffic Intelligence.

The integration of these systems can provide a level of performance and security solutions unmatched in the marketplace.

1.7 Product Lines

<p>Hard Tag Family</p> <ul style="list-style-type: none">• Ultra•Tag® Platform• SuperTag® III Family• Alarming SuperTag®• SuperTag® Visible Source Tag (VST)• SuperTag® Ink• Soft Tag• Ultra*Gator®• Ultra•Lock®• Essentials Platform• AMT-5000 Hard Tag Family• AMT-3200 Hard Tag Family• AMT-3210 Accessory Hard Tag• AMT3220 Delicates Hard Tag <p>EAS Labels Family</p> <ul style="list-style-type: none">• Ultra•Strip® III• Ultra•Strip® III Insertable• Ultra•Strip® III Microwavable• Ultra•Strip® III Book Label• Ultra•Strip® III Individual Label• Ultra•Strip® III Low Profile• Ultra•Strip® III Hang Tag• Ultra•Strip® II Narrow• Non-Deactivatable Label	<p>EAS Detection System</p> <ul style="list-style-type: none">• Pedestal Systems• Discreet Systems• Concealed Systems• Detection Accessories• Auxiliary Antennas <p>Label Deactivators</p> <ul style="list-style-type: none">• ScanMax® Pro Family• Other Deactivators and Activators• Essentials Platform <p>Hard Tag Detachers</p> <ul style="list-style-type: none">• AMD-3040 Hand-Held Detacher• MK75I Hand Detacher• MKD-400 Detacher• AMK 1000/1010 Detacher• MK75IZA Hand Detacher with Boot Deactivator• AMD-1000 Detacher• AMK 4200/4300 Detacher• AMK-4100 Decouple
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2 Project Scope

The project scope will be limited to the following two products. This product set is typical of that used to outfit a retail store.

- ***SuperTag® III*** is a robust reusable anti-theft sensor that can be attached to retail items either at the factory or retail location. The tag is removed with a hook inserted into the security pin release. This product can be reattached to products in the retail location or sent back to the factory to be reused.
- ***UltraStrip® III Individual Label*** is the highest volume seller in Tyco's portfolio of single use sensors. With its aggressive adhesive backing, it can be attached to the inside of a finished product without the concern of becoming dislodged inside the product and causing interference.

3 As-Is Product Data

Tyco Fire & Security is located in Boca Raton, FL, USA. The primary factory is located in Matamoros, Mexico. The following information describes the products and production process as currently implemented within the company.

3.1 Vendors

Vendor Name	Location	Materials
Colorful Polymers International	Shanghai, China	Plastics
Mega Machining Company	Seoul, South Korea	Fabricate hook and pin
Rare Earth Alloys, LLC.	Berlin, Germany	Magnet and Bias ribbon
The Best Project Material CO. LTD.	Shangdong, China	Cavity and adhesive film

3.2 Customers

Customer Name	Location
Earl's Home Building Supply	Charlotte, NC USA
Hyper-Mart Corporation	Branson, MO USA
Euro Couture	Linden, NJ, USA

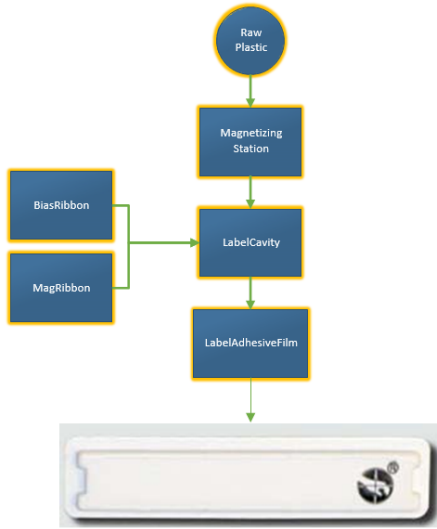
3.3 Bill of Materials

Bill of Materials: Ultra•Strip® III Individual Label					
PART NAME	QTY/ UNIT	COST/ ORDER	ORDE R QTY	COST/ UNIT	VENDOR
Label		\$270.00	5000	\$0.05	
Formed plastic cavity	1	\$29.27	5000	\$0.0059	The Best Project Material CO. LTD
Magnetostrictive material ribbon	2	\$13.90	5000	\$0.0056	Rare Earth Alloys, LLC.
Bias material ribbon	1	\$12.00	5000	\$0.0024	Rare Earth Alloys, LLC.
Adhesive film backing	1	\$24.00	5000	\$0.0048	The Best Project Material CO. LTD
			Total	\$0.019	

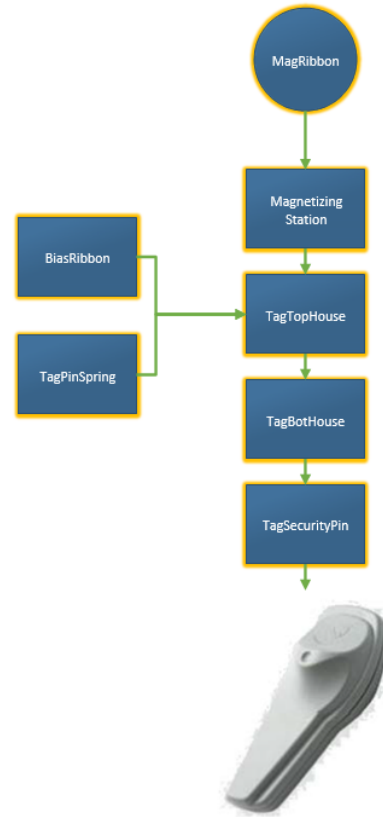
Bill of Materials: SuperTag® III					
PART NAME	QTY/ UNIT	COST/ ORDER	ORDE R QTY	COST/ UNIT	VENDOR
Hard tag		\$630.00	1000	\$0.63	
Top housing enclosure	1	\$130.00	5000	\$0.0260	Colorful Polymers International
Bottom housing enclosure	1	\$120.00	5000	\$0.0240	Colorful Polymers International
Magnetostrictive material ribbon	2	\$13.90	5000	\$0.0056	Rare Earth Alloys, LLC.
Bias material ribbon	1	\$12.00	5000	\$0.0024	Rare Earth Alloys, LLC.
Pin locking spring	1	\$412.10	5000	\$0.0824	Mega Machining Company
Security pin	1	\$340.20	5000	\$0.0680	Mega Machining Company
			Total	\$0.21	

3.4 Product Routing

Ultra•Strip® III Individual Label (LabelAssy)



SuperTag® III (HardTagAssy)

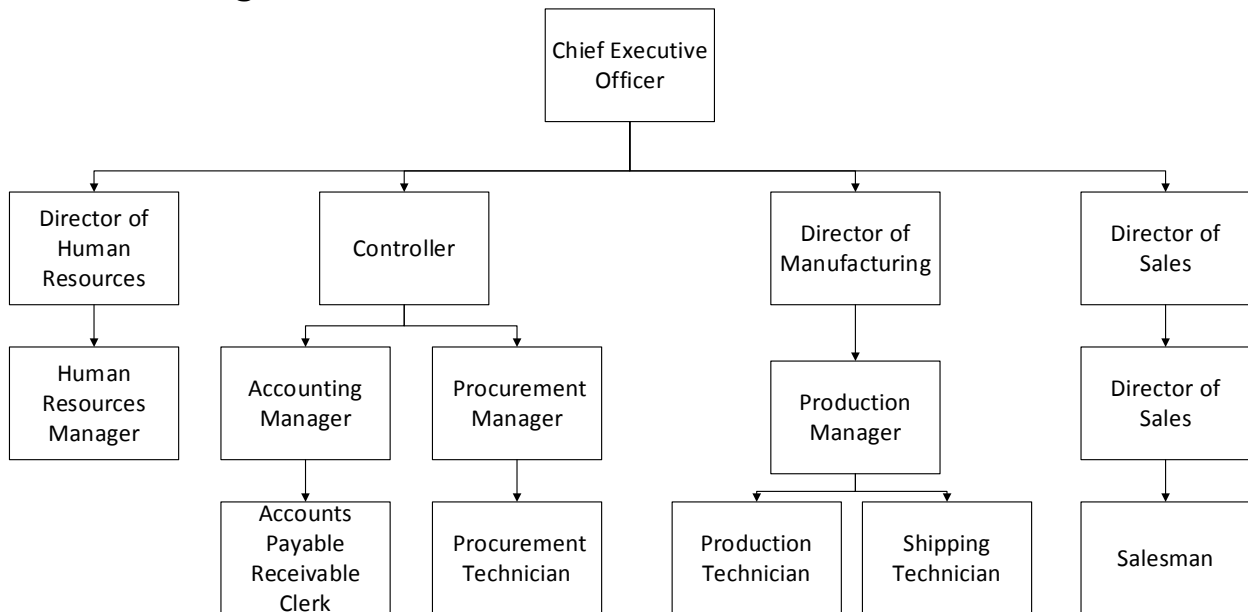


4 As-Is System Model

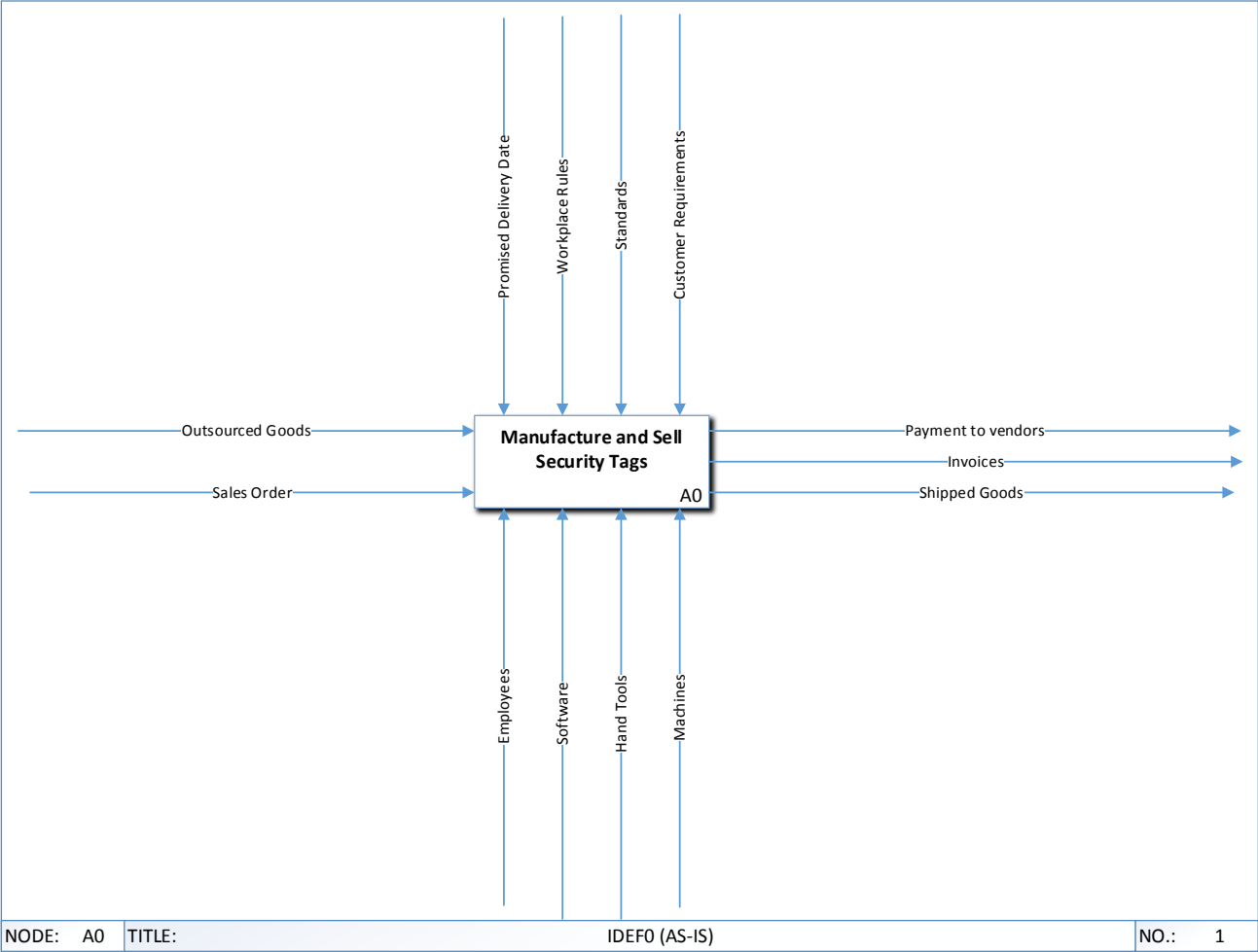
The following system models describe the organizational structure, activities, objects, and states involved in the current process of manufacturing and selling the UltraStrip III Individual Label and the SuperTag III. These As-Is models define the relevant processes as they are currently implemented within the company. These models have not been optimized for implementation in an ERP system.

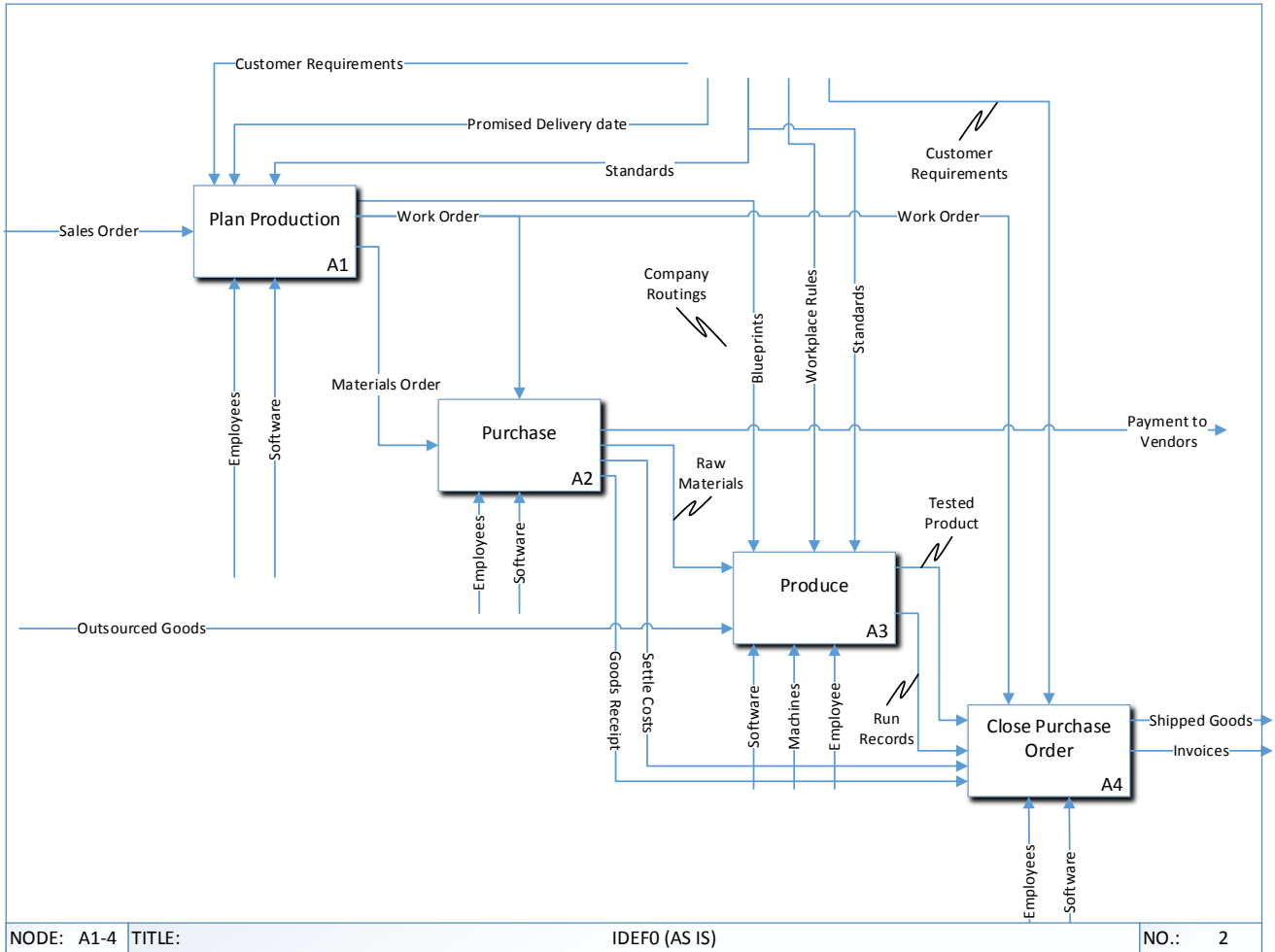
The relationships between the input, control, output, and mechanisms of the IDEF0 Model are described in the Object Model. Each object is further detailed through a Dynamic Model, which shows the available states of the model and the transition events between states.

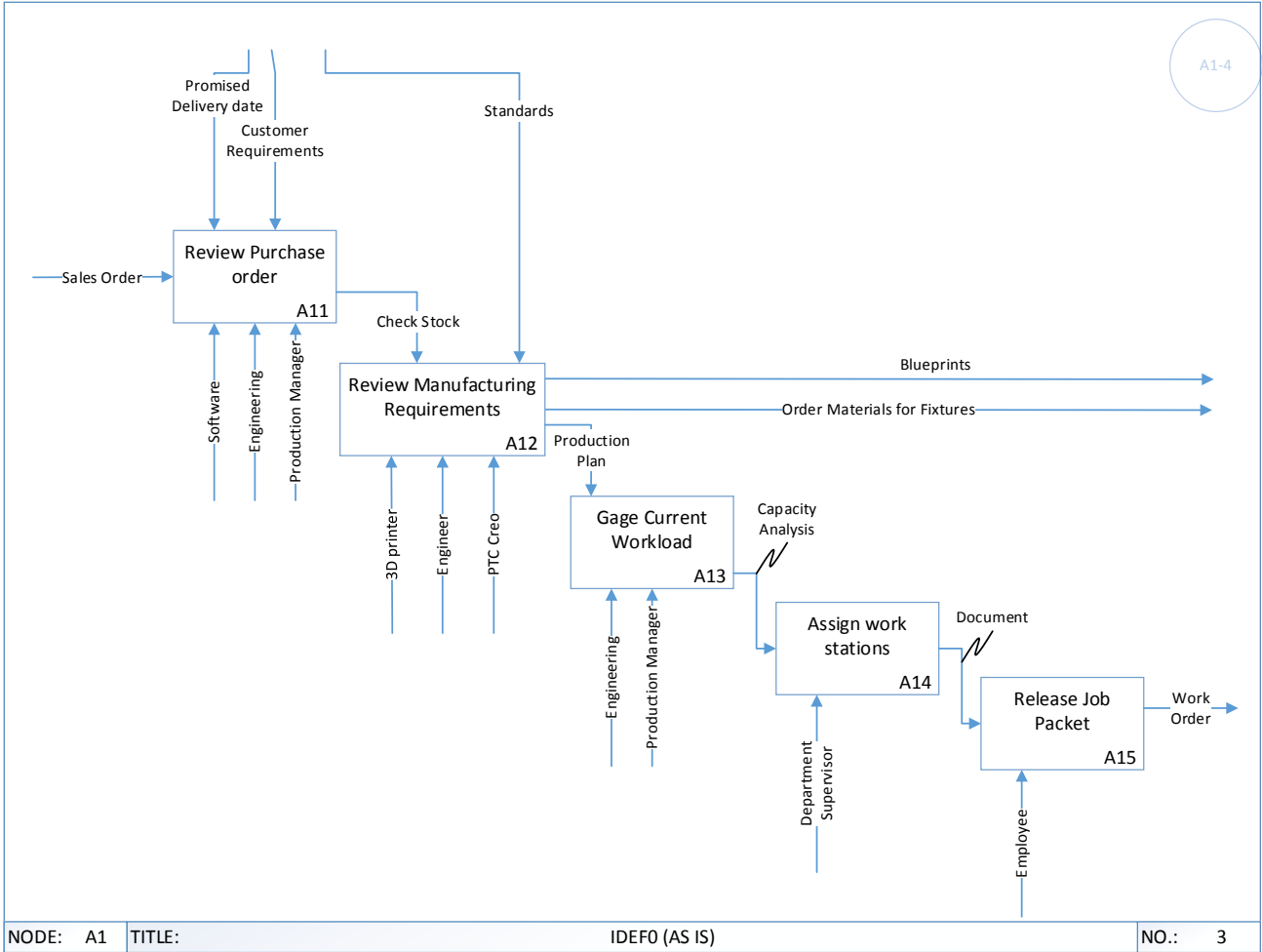
4.1 As-Is Organizational Structure

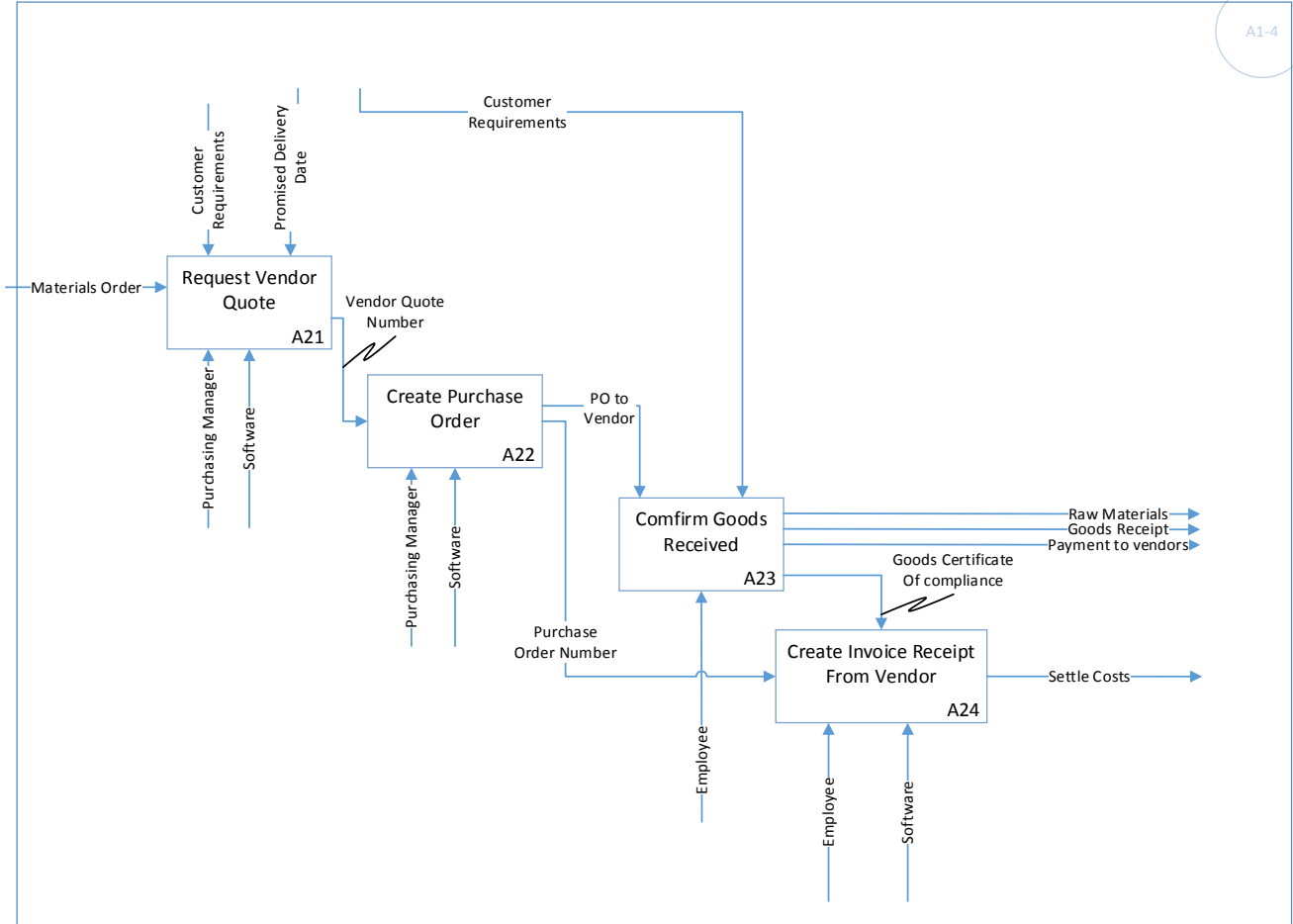


4.2 As-Is IDEF0 Activity Model







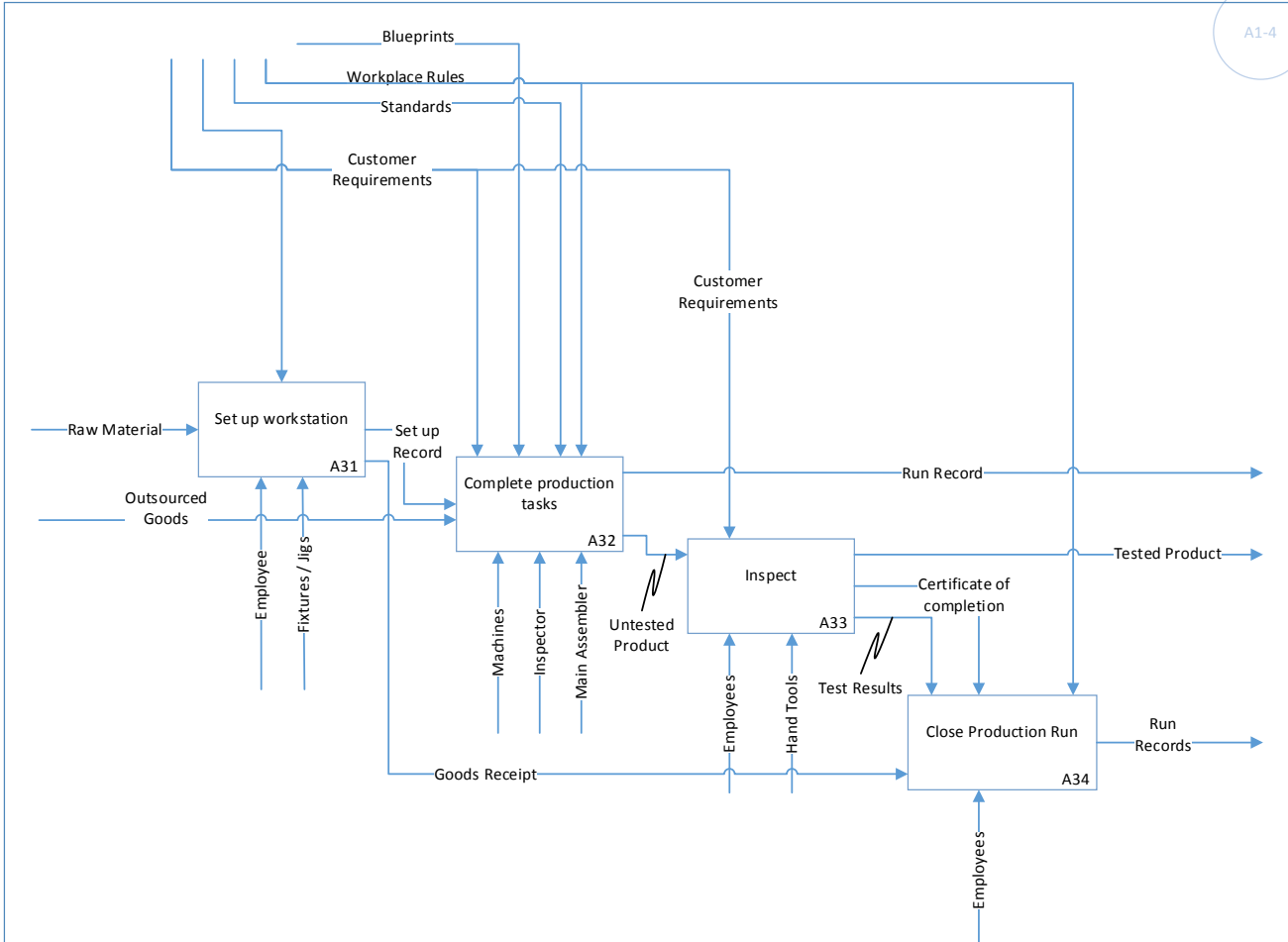


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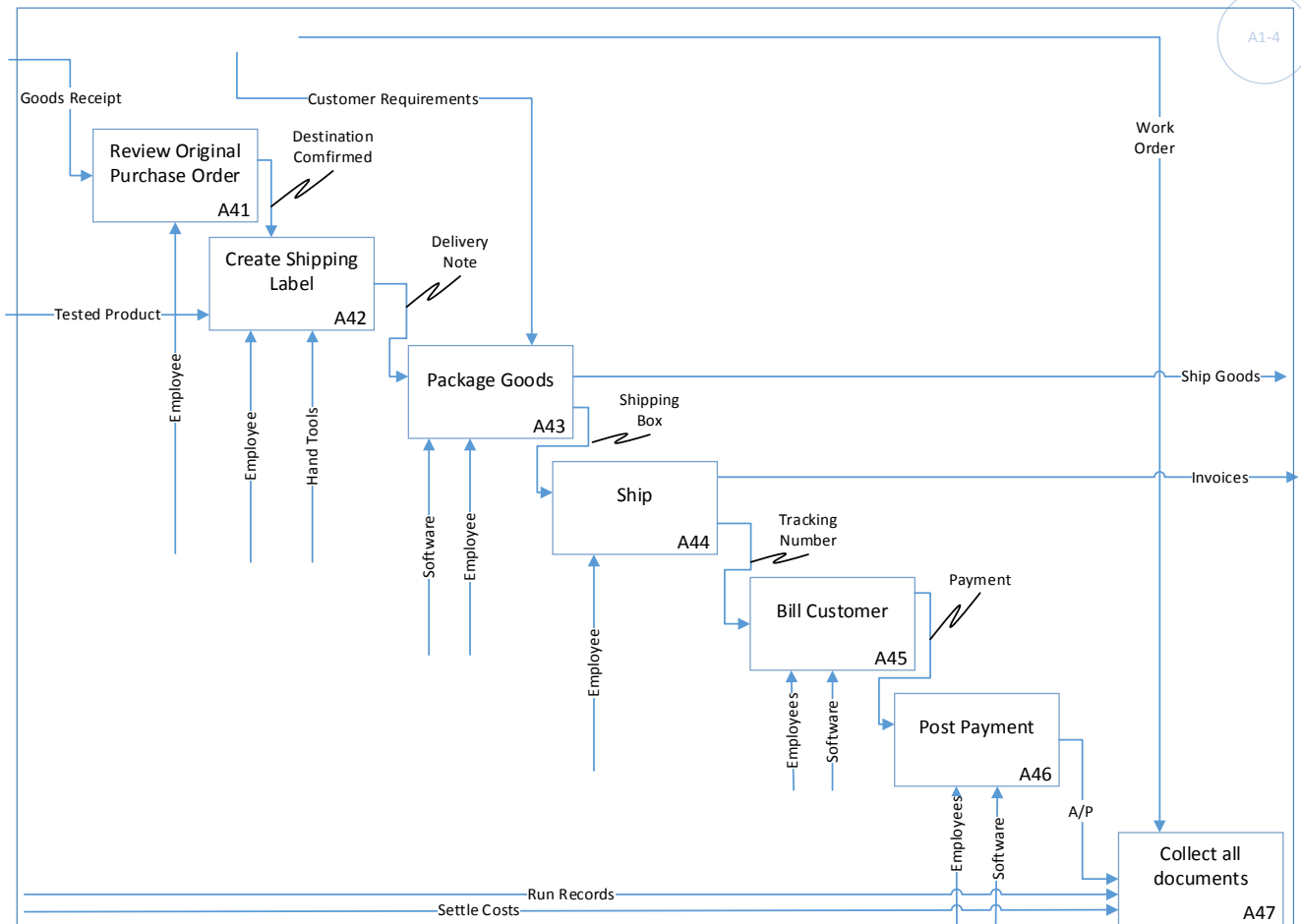
IDEFO (AS IS)

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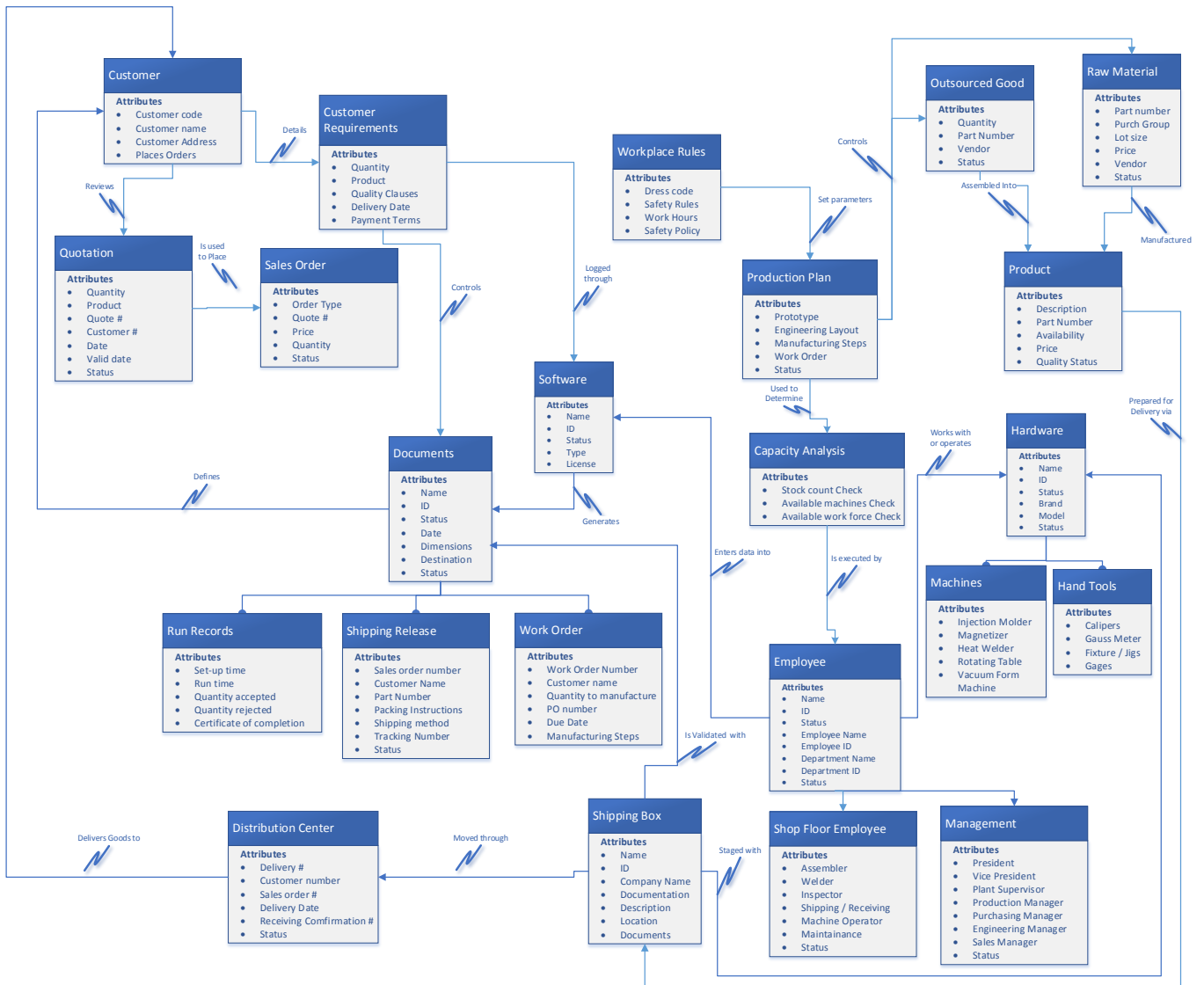
NODE: A3 TITLE: IDEFO (AS IS) NO.: 5

A1-4

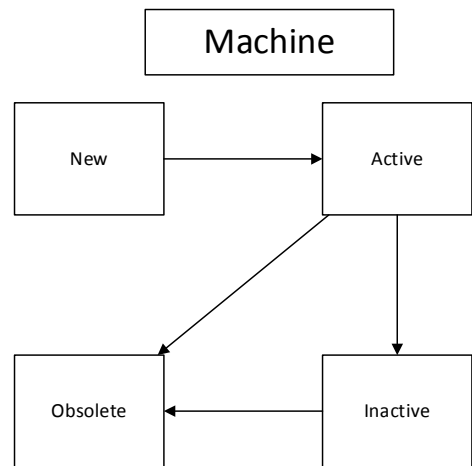
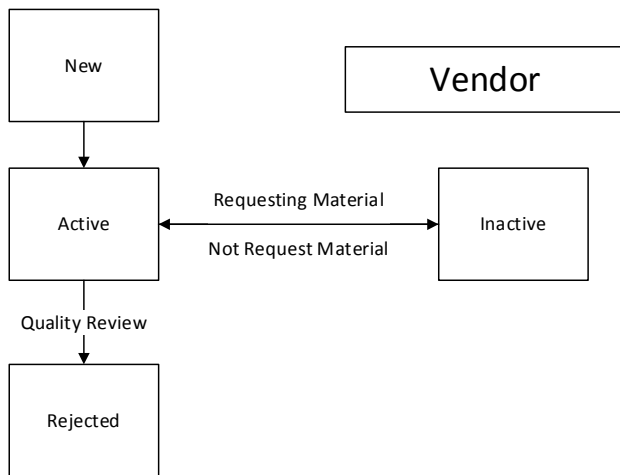
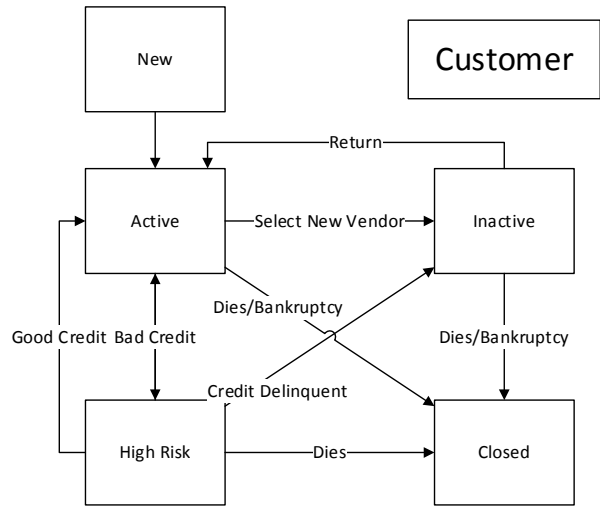
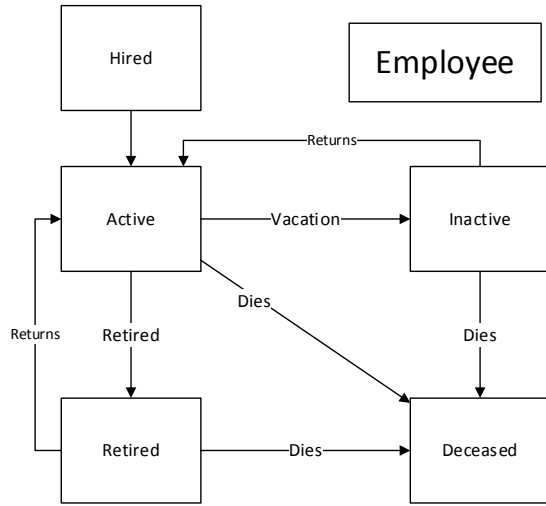


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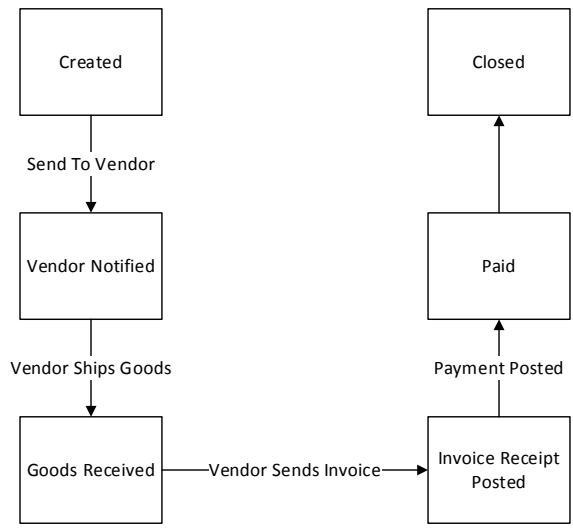
4.3 As-Is Object Model



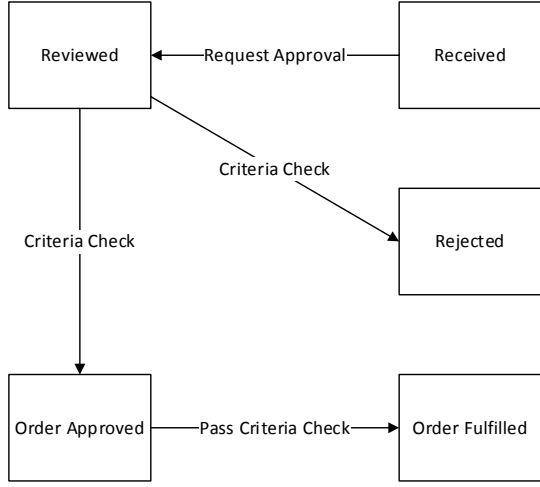
4.4 As-Is Dynamic Model



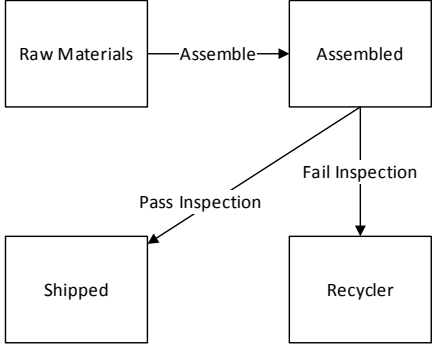
Purchase Order



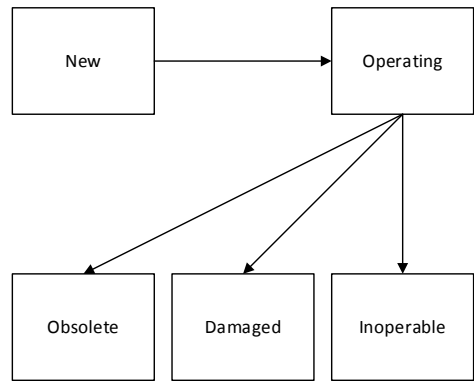
Sales Order



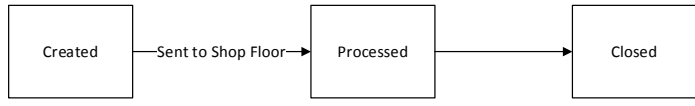
Product

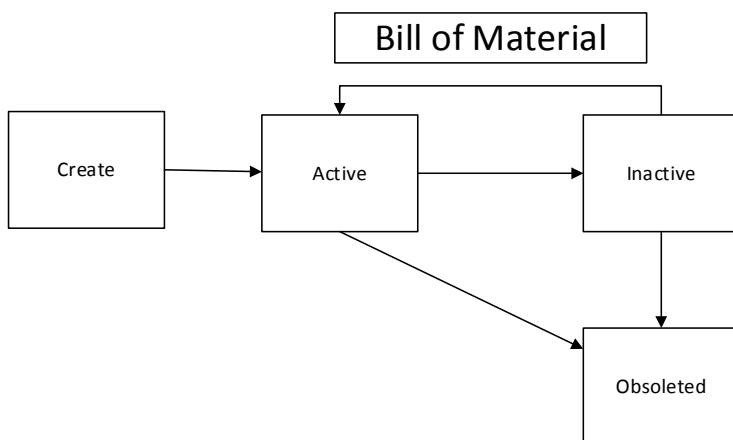
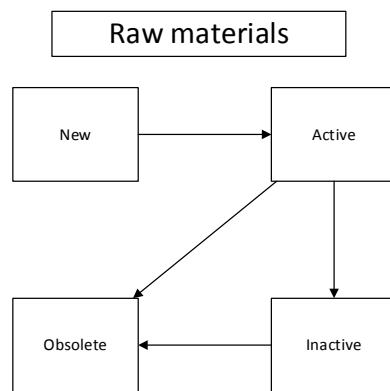
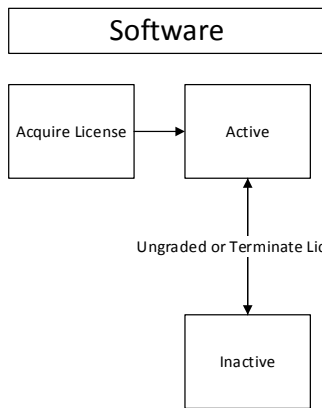
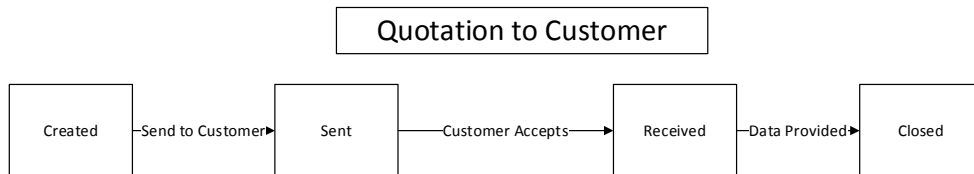
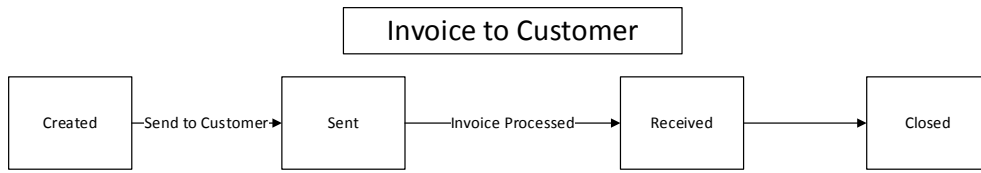


Tools



Production Order





5 To-Be System Model

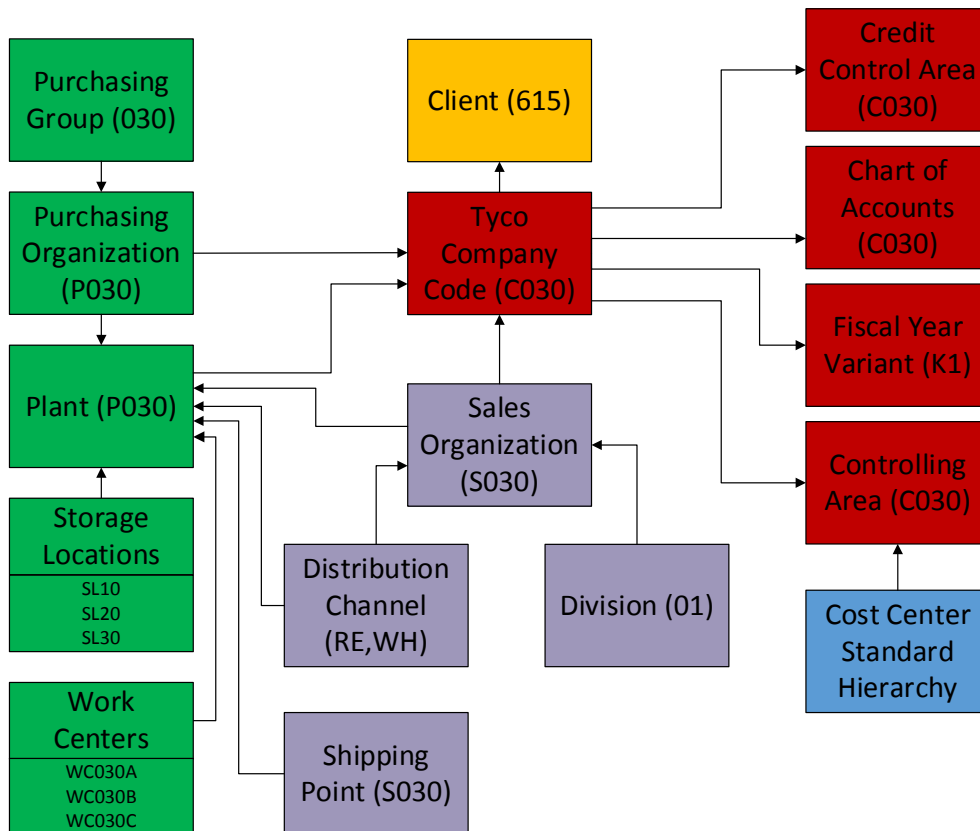
The As-Is model was reviewed and analyzed to determine how to best optimize the business processes for implementation in an ERP system. Missing elements, processes, and objects were identified and added to the models to develop a To-Be model that could be seamlessly implemented in an SAP enterprise structure.

The scope of the To-Be model is limited to the manufacture and sale of security tags. The IDEF0 model describes the business processes that fall within this scope. The process begins with the receipt of a sales order, which is used to identify the amounts of raw materials and finished goods needed in order to fulfill the sale. The availability of raw and finished goods within the warehouse is checked before finalizing the amount of raw materials to be procured and the amount of finished goods to be produced. Once the procurement and purchasing processes have been completed, the sales process can continue and the sales order can be completed.

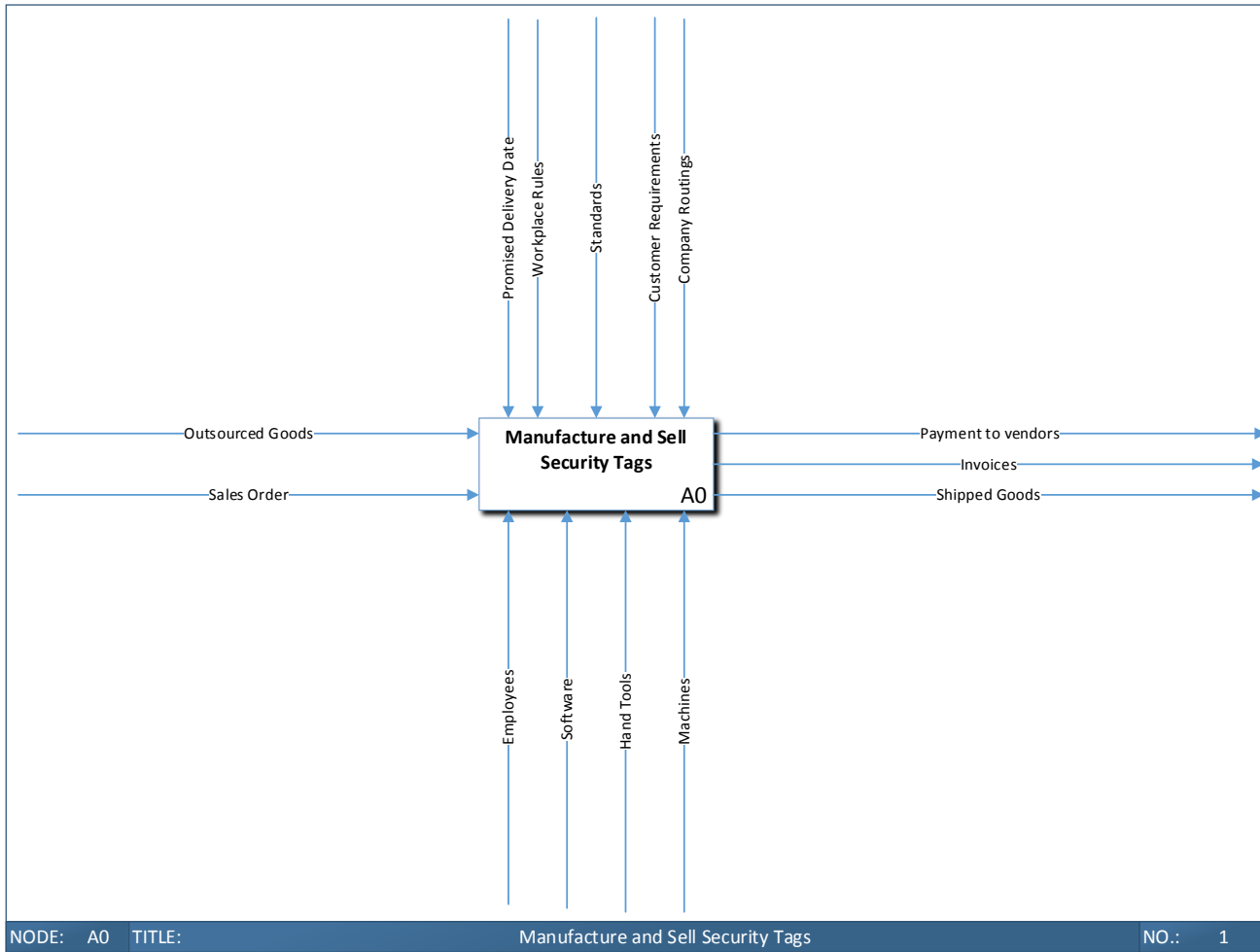
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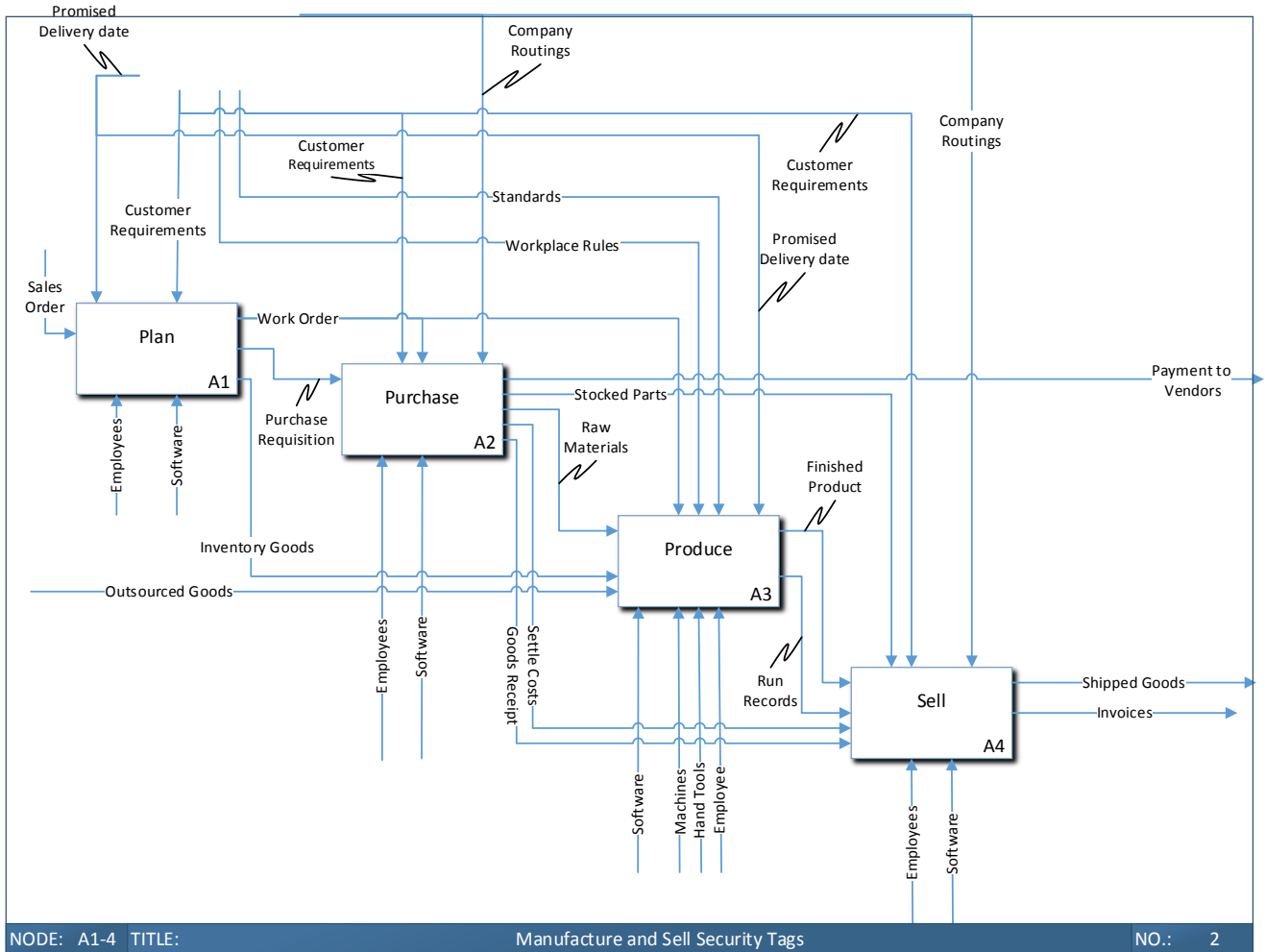
5.1 To-Be Organizational Structure

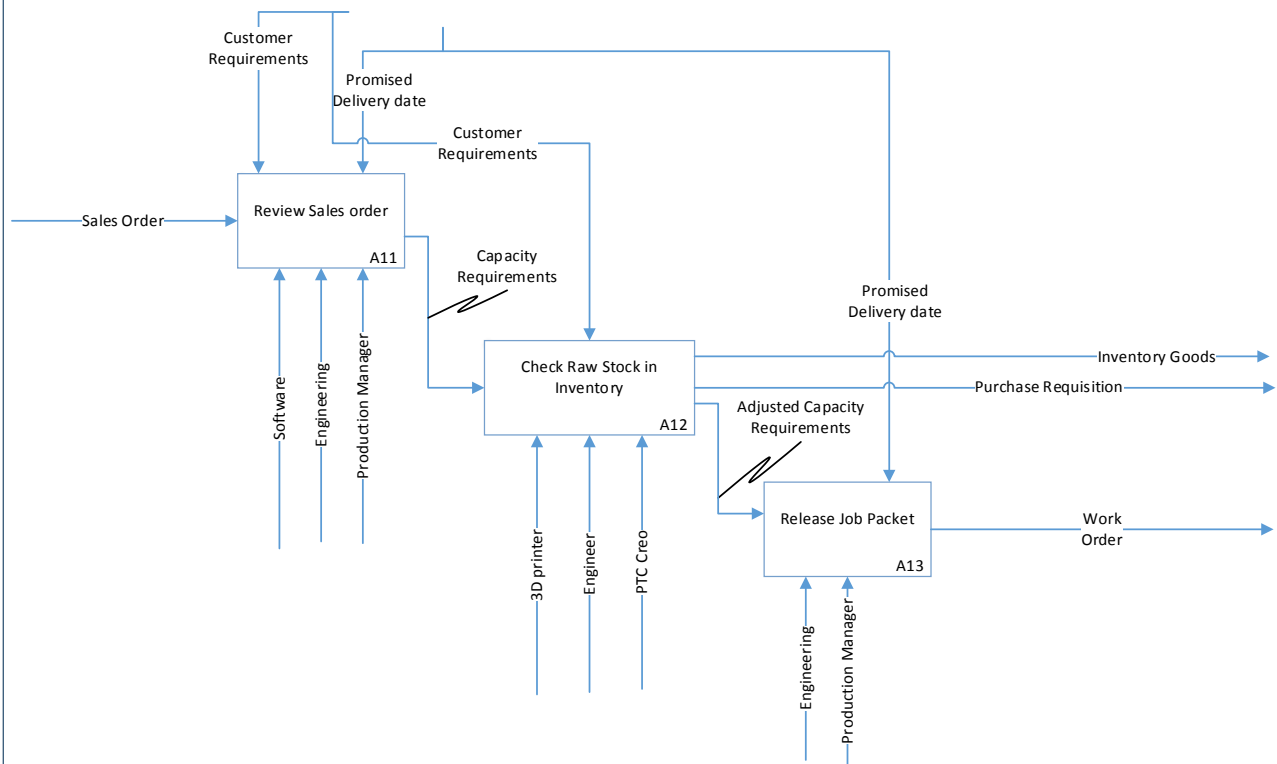
The organizational structure, as implemented in SAP, is shown below.

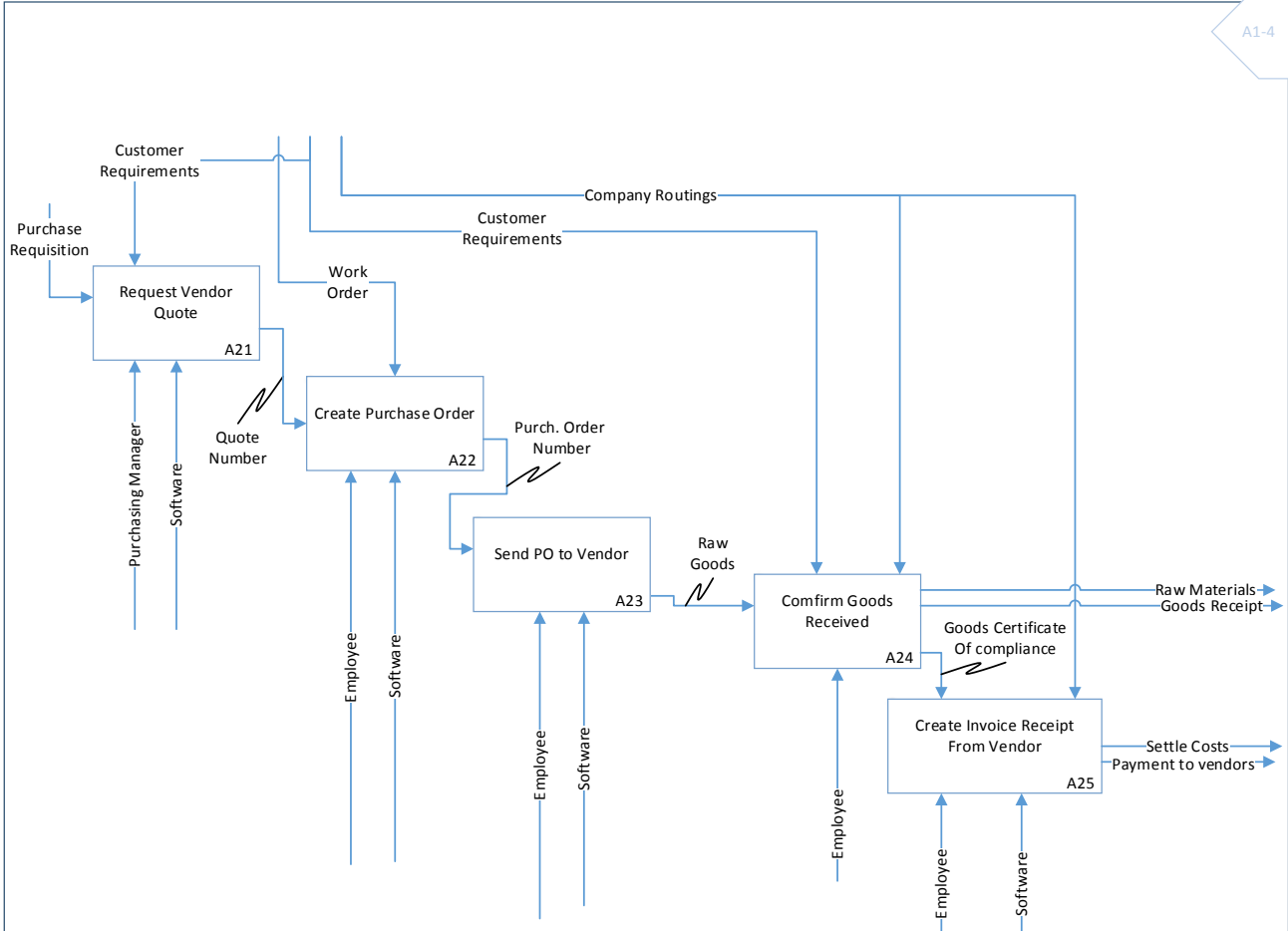


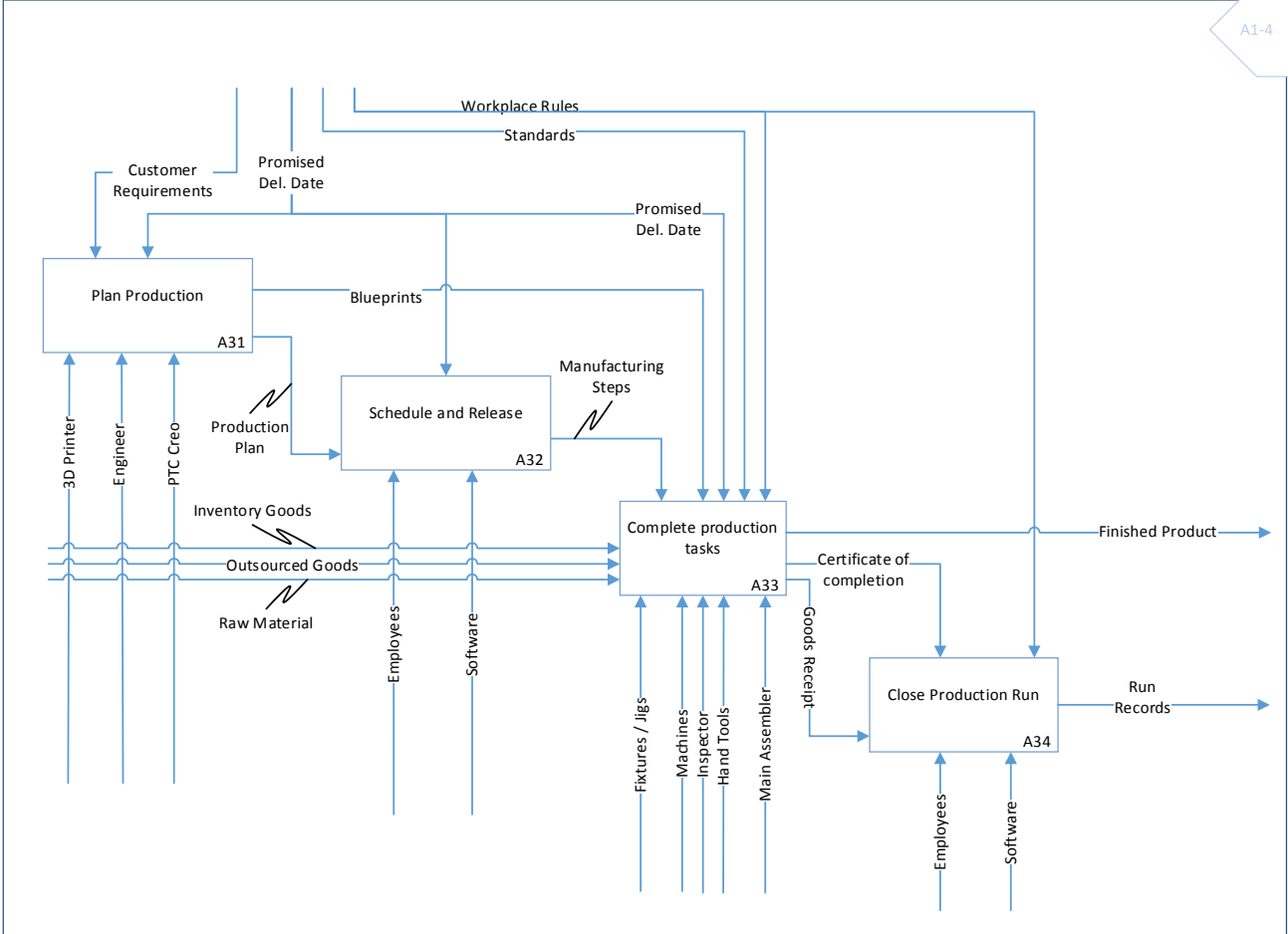
5.2 To-Be IDEF0 Activity Model

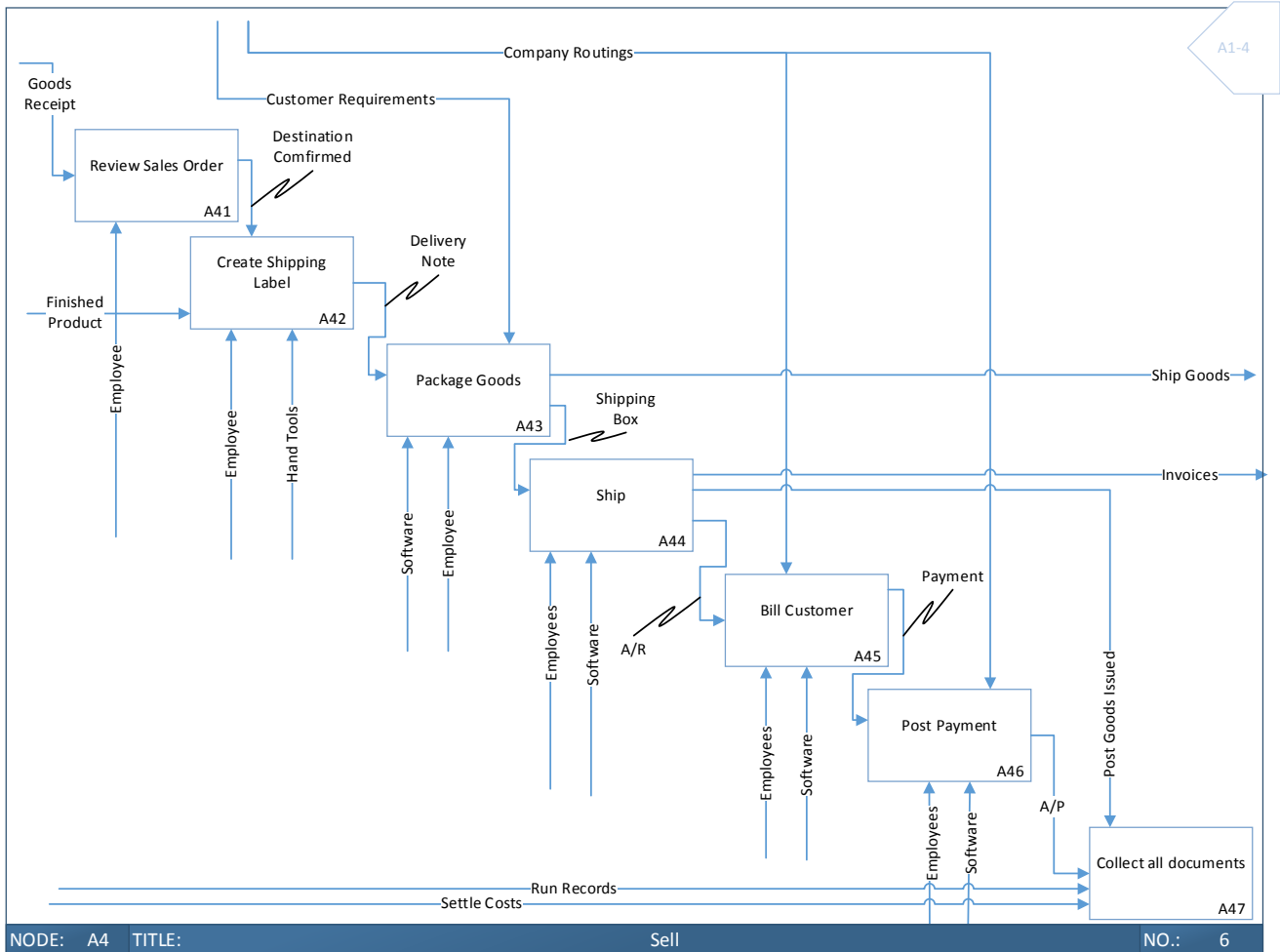












5.4 To-Be Dynamic Model

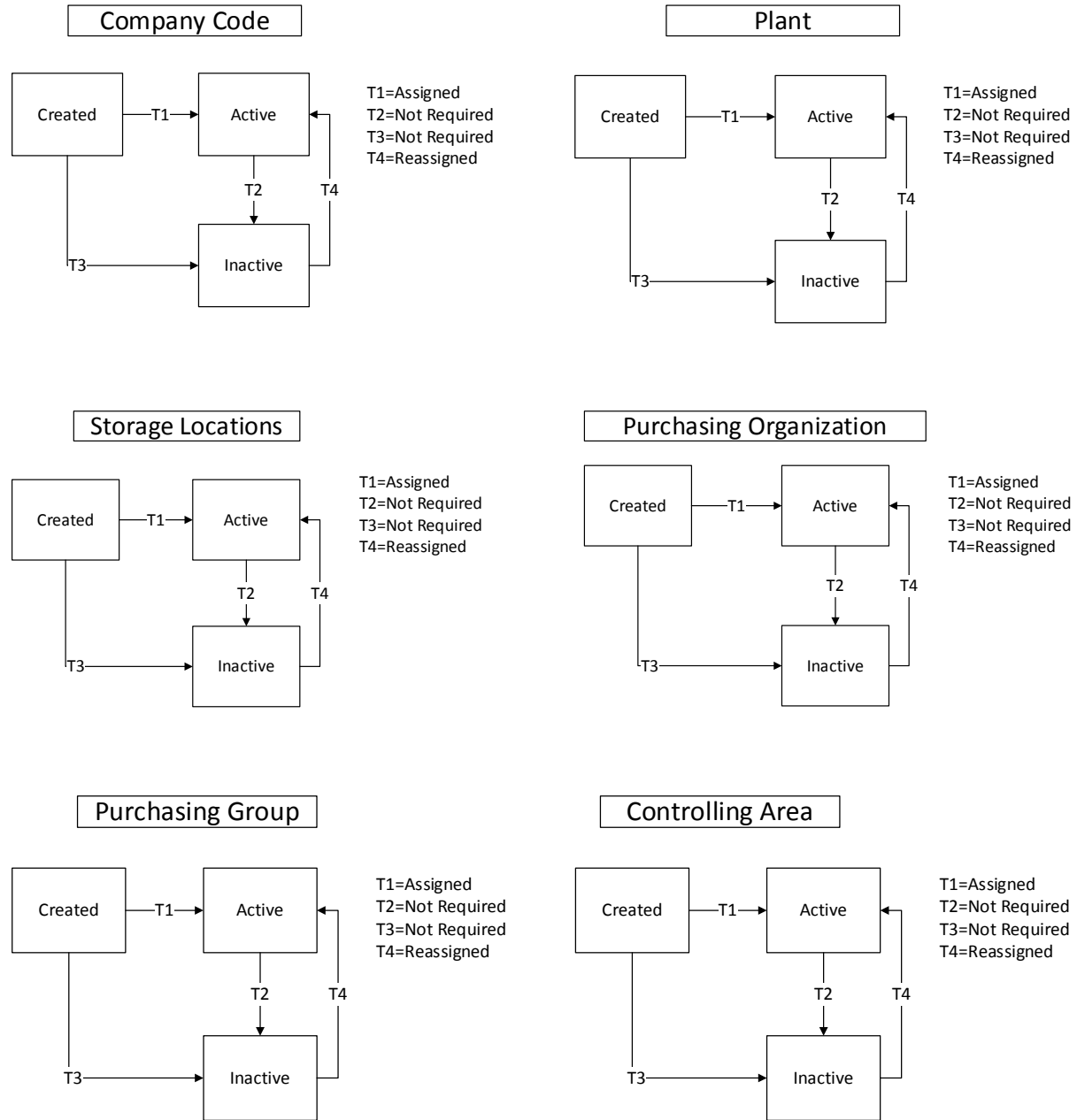
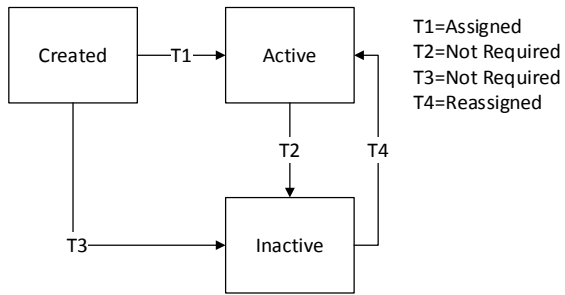
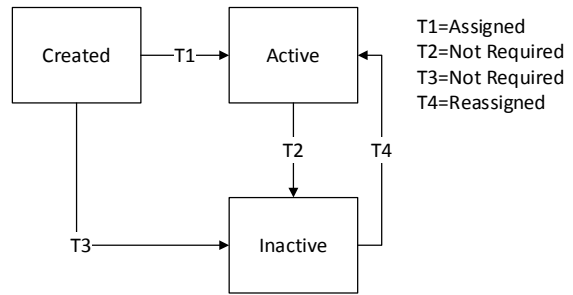


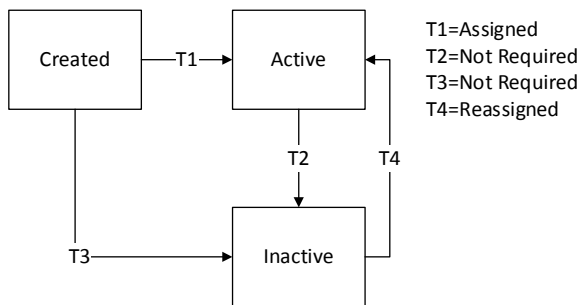
Chart of Accounts



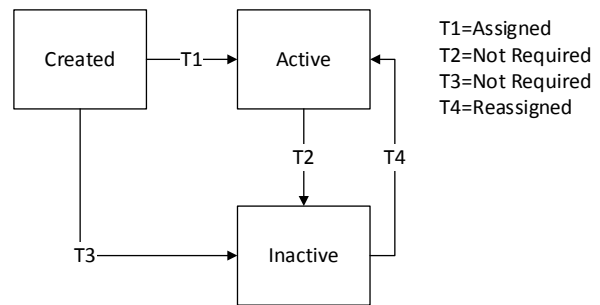
Credit Control Area



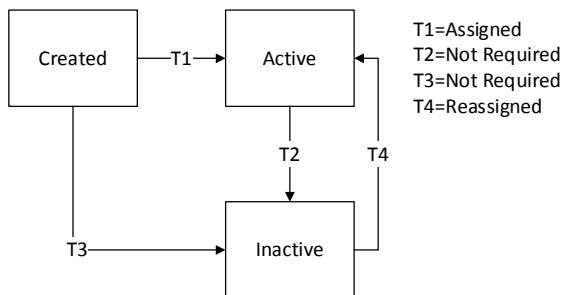
Distribution Channel



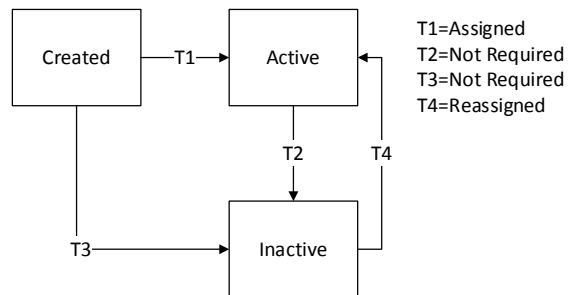
Division



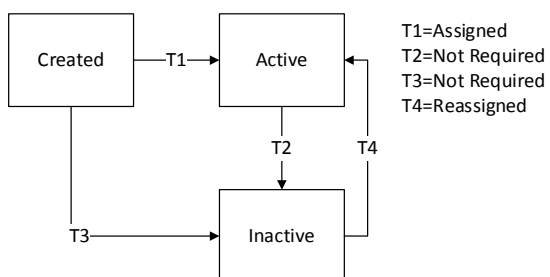
Production Scheduler



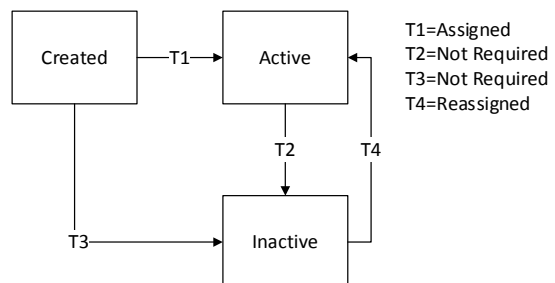
Cost Center

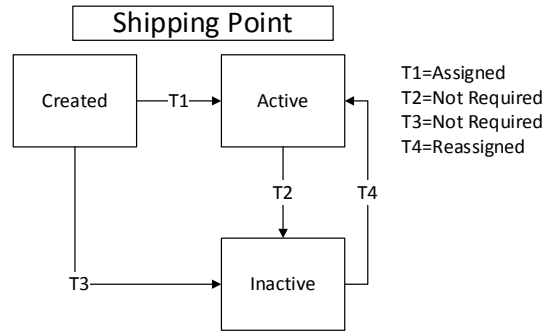
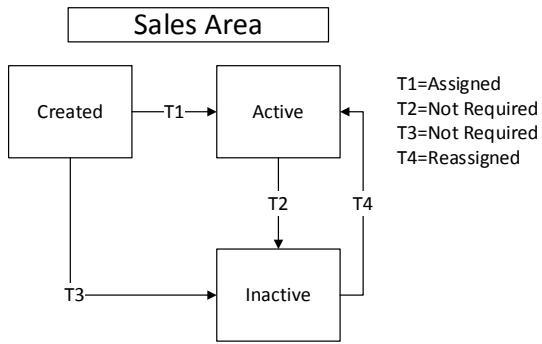


Sales Organization

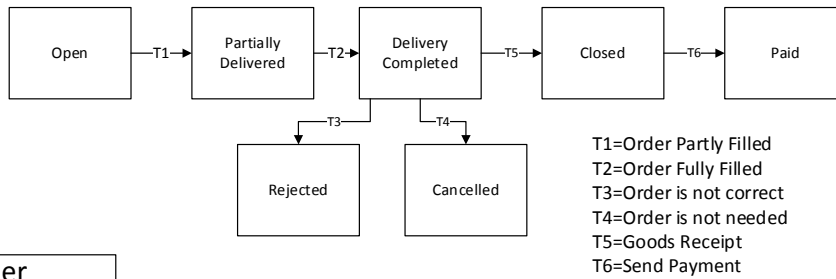


Account

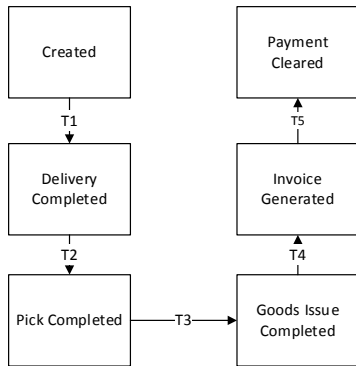




Purchase Order

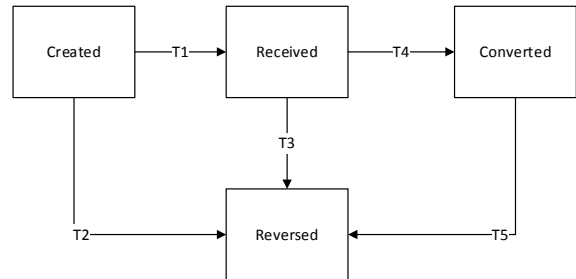


Sales Order



T1=Order produced
T2=Fill Order
T3=Shipped
T4=Request Invoice be sent
T5=Invoice Sent to Customer

Purchase Requisition



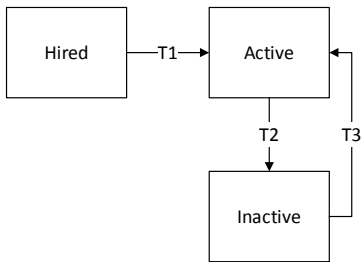
T1=Assigned
T2=Reversal
T3=Reversal
T4=Conversion to PO
T5=Reversal

Customer Requirements



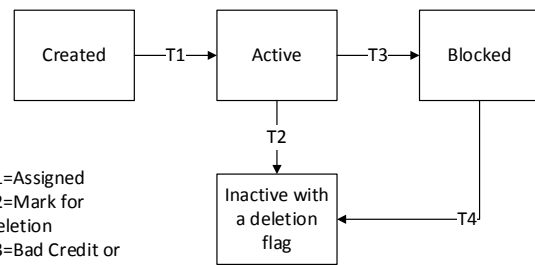
T1=Sent FromCustomer
T2=Reviewed

Employee



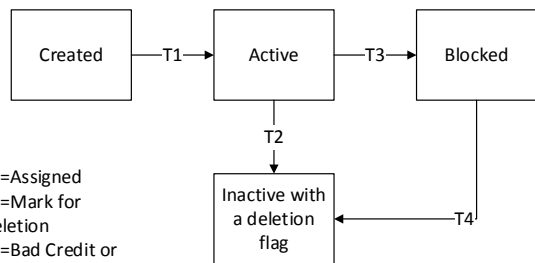
T1=Fills position
T2=vacation/
retired/laid off/
deceased
T3=returns to
position

Customer

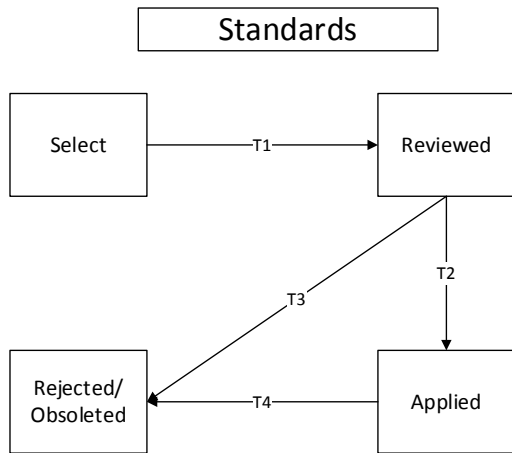


T1=Assigned
T2=Mark for
Deletion
T3=Bad Credit or
non-payment
T4=Mark for
Deletion

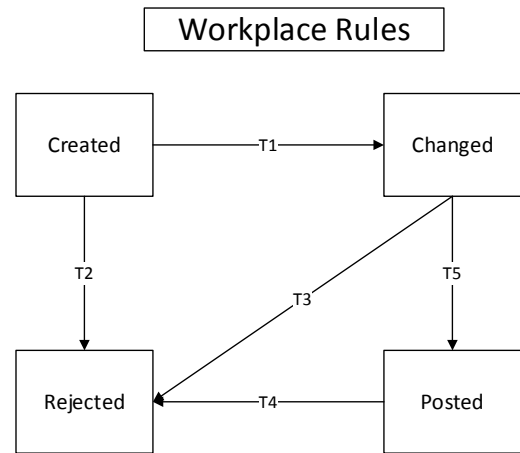
Vendor



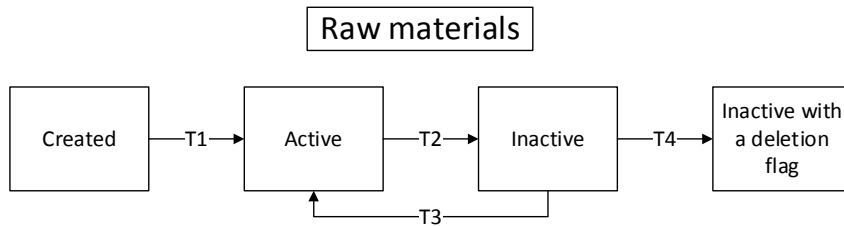
T1=Assigned
T2=Mark for
Deletion
T3=Bad Credit or
non-payment
T4=Mark for
Deletion



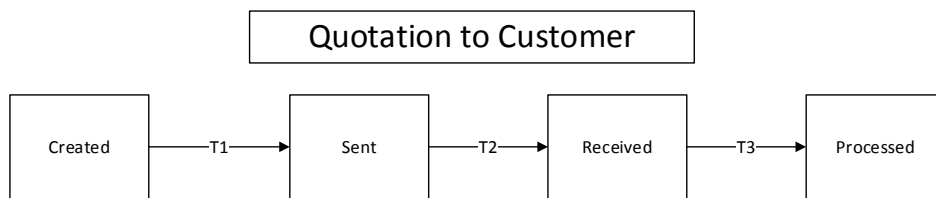
T1=Review
 T2=Apply to Process
 T3=Does not meet needs
 T4=Out of date



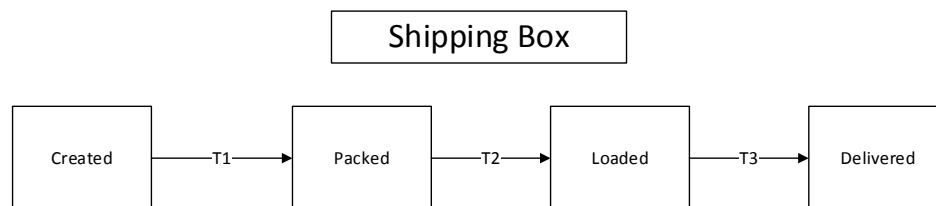
T1=Data Co
 T2=Reject
 T3=Reject
 T4=Reject
 T5=Approved



T1=Assigned
 T2=Removed from service
 T3=Returned to Service
 T4=Obsolete

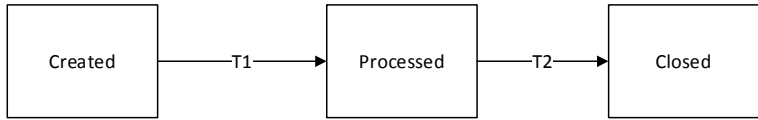


T1=Send to Customer
 T2=Customer Accepts
 T3=Data Provided



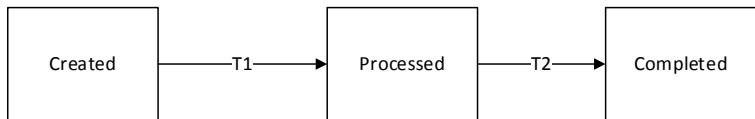
T1=Assigned
 T2=Shipping Label Created
 T3=Shipped

Shipping Release



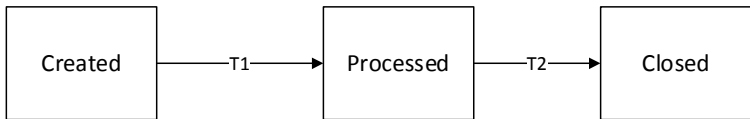
T1=Collect Shipping Details
T2=Release Shipping Item

Work Order



T1=In Process
T2=Settle Cost

Production Plan



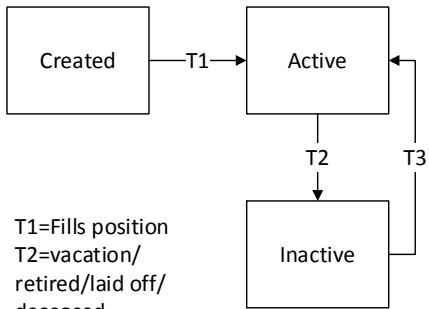
T1=Sent to Factory
T2=Goods Receipt

Capacity Analysis

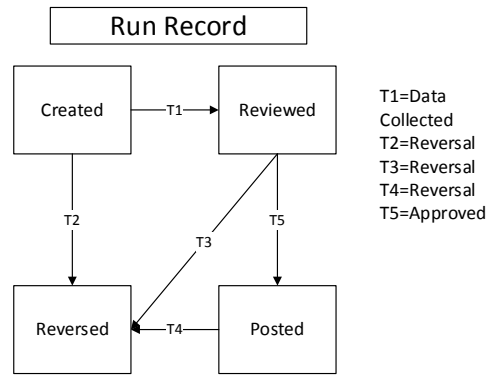
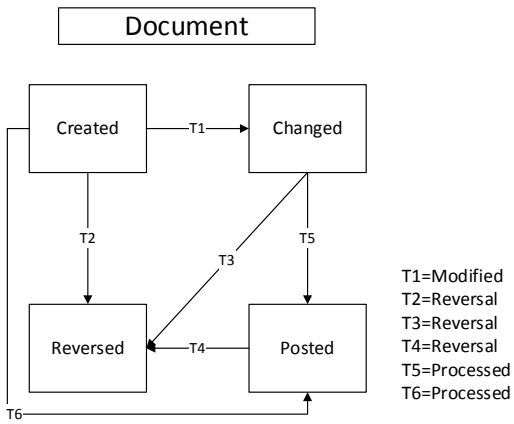
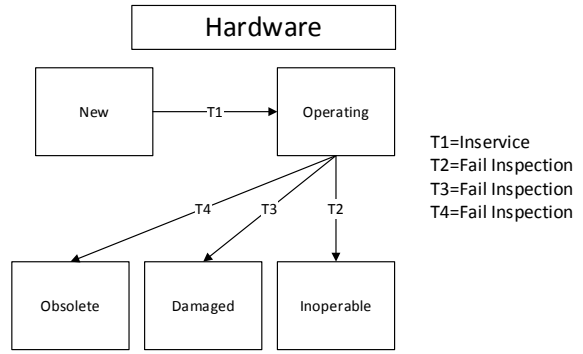
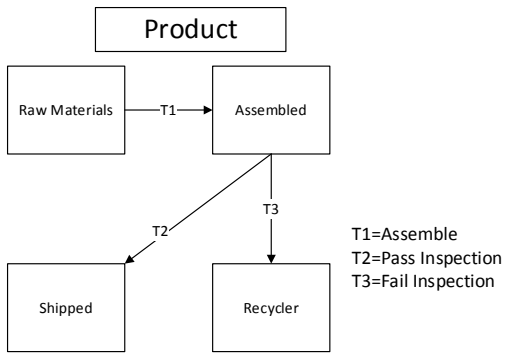


T1=Data Collection
T2=Complete Documentation

Bill of Material



T1=Fills position
T2=vacation/
retired/laid off/
deceased
T3=returns to
position



6 To-Be Implementation Overview

The To-Be model was designed around the SAP business processes for seamless implementation. The To-Be model was implemented in SAP for company code C030. The implementation process involved setting up the enterprise organization and creating master data for materials, sales, and production management. The implementation was proven to be successful through the processing of two sales orders. The operations involved in processing the sales orders included planning, procurement, production, and sales, as outlined in the To-Be model.

6.1 Materials Management

Master data for two finished goods and eight raw materials were created.

Material ID	Material Description	Material Type
LABELASSY030	Ultra Strip III Individual Label	Finished Goods
HARDTAGASSY030	Super Tag III	Finished Goods
LABELCAVITY030	Formed plastic cavity	Raw Material
MAGRIBBON030	Magnetostrictive material ribbon	Raw Material
BIASRIB030	Bias material ribbon	Raw Material
LABELADHESIVE030	Adhesive film backing	Raw Material
TAGTOPHOUSE030	Top housing enclosure	Raw Material
TAGBOTHOUSE030	Bottom housing enclosure	Raw Material
TAGPINSRING030	Pin locking spring	Raw Material
TAGSECURITYPIN030	Security pin	Raw Material

Four vendors were created, for procurement of the eight raw materials. Source lists were created such that each raw material is only available through one vendor.

Vendor Name	Vendor ID	Location	Available Materials
Colorful Polymers International	100171	Shanghai, China	TAGTOPHOUSE030 TAGBOTHOUSE030
Mega Machining Company	100172	Seoul, South Korea	TAGPINSRING030 TAGSECURITYPIN030
Rare Earth Alloys, LLC	100173	Berlin, Germany	MAGRIBBON030 BIASRIB030
The Best Project Material Co, Ltd	100174	Shangdong, China	LABELCAVITY030 LABELADHESIVE030

6.2 Sales Management

Master data was created for three new customers with appropriate credit limits and discounts.

Customer Name	Customer ID	Distribution Channel	Credit Limit	Discounts
Earls Home Building Supplies	141	RE	\$5,000	None
Hyper Mart Corporation	142	WH	\$6,000	5%/\$1,000 8%/\$2,000 10%/\$3,000
Euro Couture	143	RE	\$5,000	None

6.3 Production Management

The Bill of Materials and routing were created for each finished product. Both finished goods were assigned to the same product group.

6.3.1 Bill of Materials

Bill of Materials: Ultra•Strip® III Individual Label (LABELASSY030)							
PART NAME	PART NUMBER	QTY/ UNIT	COST/ ORDER	ORDER QTY	COST/ UNIT	MATERIAL	VENDOR
Label	LABELASSY030		\$270.00	5000	\$0.05		
Formed plastic cavity	LABELCAVITY030	1	\$29.27	5000	\$0.0059	RAW	The Best Project Material CO. LTD
Magnetostrictive material ribbon	MAGRIBBON030	2	\$13.90	5000	\$0.0056	RAW	Rare Earth Alloys, LLC.
Bias material ribbon	BIASRIB030	1	\$12.00	5000	\$0.0024	RAW	Rare Earth Alloys, LLC.
Adhesive film backing	LABELADHESIVE030	1	\$24.00	5000	\$0.0048	RAW	The Best Project Material CO. LTD
					\$0.019	Total	

Bill of Materials: SuperTag® III (HARDTAGASSY030)							
PART NAME	PART NUMBER	QTY/ UNIT	COST/ ORDER	ORDER QTY	COST/ UNIT	MATERIAL	VENDOR
Hard tag	HardTagAssy030		\$630.00	1000	\$0.63		
Top housing enclosure	TAGTOPHOUSE030	1	\$130.00	5000	\$0.0260	RAW	Colorful Polymers International
Bottom housing enclosure	TAGBOTHOUSE030	1	\$120.00	5000	\$0.0240	RAW	Colorful Polymers International
Magnetostrictive material ribbon	MAGRIBBON030	2	\$13.90	5000	\$0.0056	RAW	Rare Earth Alloys, LLC.
Bias material ribbon	BIASRIB030	1	\$12.00	5000	\$0.0024	RAW	Rare Earth Alloys, LLC.
Pin locking spring	TAGPINSRING030	1	\$412.10	5000	\$0.0824	RAW	Mega Machining Company
Security pin	TAGSECURITYPIN030	1	\$340.20	5000	\$0.0680	RAW	Mega Machining Company
					\$0.21	Total	

6.3.2 Product Routing

Routing: Ultra•Strip® III Individual Label (LABELASSY030)							
Op #	Parts Used	STEPS	TIME (min)	COST	Work Center	Work Center Description	Plant
1		Magnetize magnetostrictive ribbon	0.5	0.1	WC030A	Magnetizing Machine	P030
2		Place raw plastic material in forming die to create label cavity	0.6	0.12	WC030B	Molding Department	P030
3	LABELCAVITY030	The label cavity is placed in an assembly tray	0.2	0.04	WC030C	Clean Assembly Room	P030
4	MAGRIBBON030 BIASRIB030	Insert magnetostrictive ribbon and bias ribbon in label cavity	0.75	0.15	WC030C	Clean Assembly Room	P030
5	LABELADHESIVE030	Seal Label together by attaching adhesive film backing and label cavity	0.2	0.04	WC030C	Clean Assembly Room	P030
		Total	2.25	12			

Routing: SuperTag® III (HARDTAGASSY030)							
Op #	Parts Used	STEPS	TIME (min)	COST	Work Center	Work Center Description	Plant
1		Magnetize magnetostrictive ribbon	0.5	0.1	WC030A	Magnetizing Machine	P030
2		Mold top and bottom housing enclosure	0.5	0.1	WC030B	Molding department	P030
3	MAGRIBBON030 BIASRIB030 TAGTOPHOUSE030	Insert magnetostrictive ribbon and bias ribbon into top housing enclosure	0.75	0.15	WC030C	Clean Assembly Room	P030
4	TAGPINSRING030	Insert pin locking spring into top housing enclosure	0.4	0.08	WC030C	Clean Assembly Room	P030
5	TAGBOTHOUSE030	Seal top and bottom housing enclosure	0.8	0.16	WC030C	Clean Assembly Room	P030
6	TAGSECURITYPIN030	Insert security pin	0.1	0.02	WC030C	Clean Assembly Room	P030
		Total	3.05	12			

6.4 Financial Management

The following chart of accounts was implemented in SAP.

G/L Account	G/L Account name
100030	Bank (Checking Account)
101030	Alternate Bank
110030	Accounts Receivable Reconciliation
200030	Raw Materials Inventory
201030	Trading Goods Inventory
202030	Finished Goods Inventory
203030	Operating Supplies Inventory
300030	Accounts Payable Reconciliation
310030	Goods Receipt / Invoice Receipt Account
320030	Accrued Tax - Output
321030	Accrued Tax - Input
330030	Retained Earnings
350030	Common Stock 030
600030	Sales Revenue
610030	Revenue Deductions
710030	Labor Expense
720030	Raw Materials Consumption / Expense
721030	Trading Goods Consumption/Expense
722030	Finished Goods Consumption / Expense
731030	Production Order Settlement Expense
740030	Supplies Expense
750030	Utilities Expense Account
760030	Purchase Price Difference Account
762030	Production Variance Expense
770030	Information Technology Expense
780030	Rent Expense
781030	Miscellaneous Expense
790030	Cost of Goods Sold Expense

6.5 Operations

Two sales orders were received, as detailed below.

Customer Name	Customer ID	Distribution Channel	Material ID	Quantity	Total
Earls Home Building Supplies	141	RE	LABELASSY030	10,000	\$ 3,650.00
			HARDTAGASSY030	5,000	
Hyper Mart Corp	142	WH	LABELASSY030	20,000	\$ 3,572.00
			HARDTAGASSY030	5,000	

To complete these sales orders, materials had to be purchased and finished goods had to be produced. Summaries of the procurement, production, and sales processes are provided in the following tables.

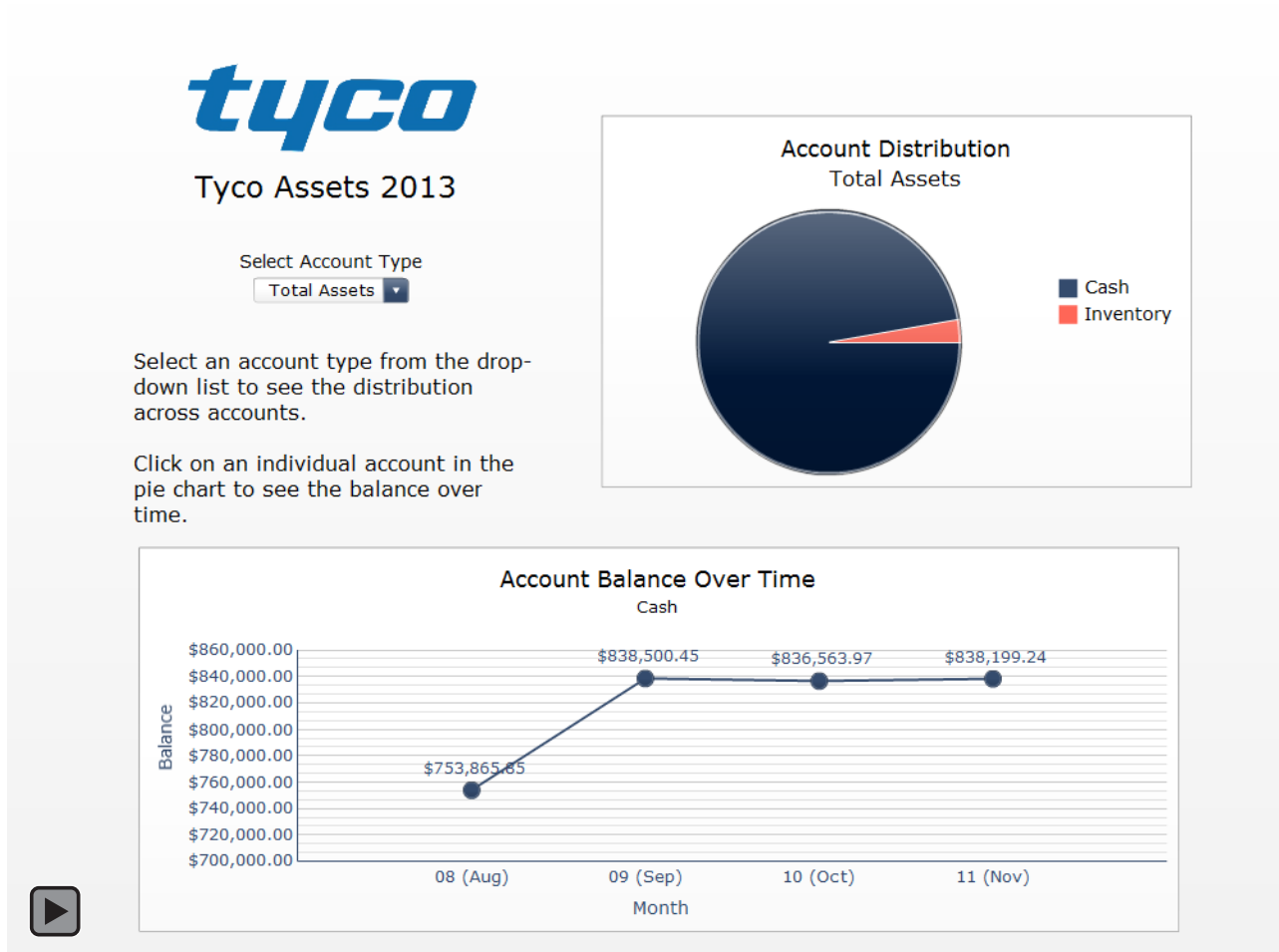
Purchase Order Summary					
Vendor	Vendor ID	Purchase Order	Goods Receipt	Invoice	Payment
Colorful Polymers	100171	4500000224	5000000361	5105601000	1500000015
Mega Machining Company	100172	4500000225	5000000362	5105601001	1500000016
Rare Earth Alloys	100173	4500000226	5000000363	5105601002	1500000017
Best Project Material	100174	4500000227	5000000364	5105601003	1500000018

Production Order Summary				
Material ID	Planned Order	Production Order	Goods Issue	Goods Receipt
LABELASSY030	15971	1000112	4900000235	5000000365
HARDTAGASSY030	15969	1000113	4900000236	5000000366

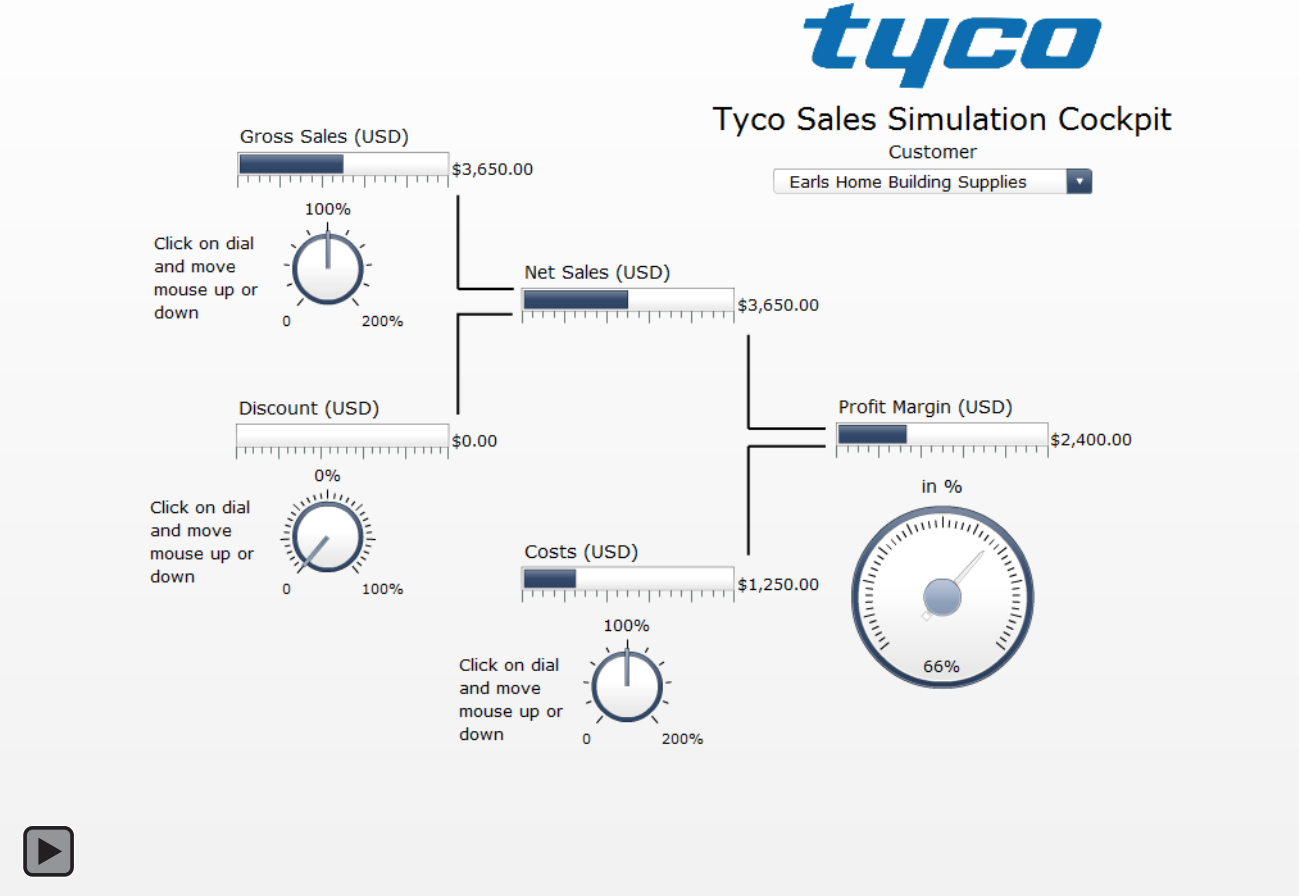
Sales Order Summary						
Customer Name	Customer ID	Sales Quote	Sales Order	Delivery Note	Invoice	Payment
Earls Home Building Supplies	141	20000061	79	80000124	90000127	1400000006
Hyper Mart Corp	142	20000062	80	80000125	90000128	1400000007

6.6 SAP Crystal Dashboard Design

SAP Crystal Dashboard was used to design an interactive graphic of the cash and inventory available in 2013. Selecting either cash or inventory in the drop-down menu changes the account distribution shown in the pie chart. Selecting one of the pie pieces will show the individual account balance over time in the line chart.



SAP Crystal Dashboard was also used to display the financial information related to the two sales orders that were processed as part of the model implementation. The customer can be selected from the drop-down menu and the sales, discount, and cost information can be adjusted to determine the effects on profit margin.



7 SAP Implementation Details

Screenshots of the SAP implementation and operation are provided below.

7.1 SAP Environment

Application Server	Madrid.cob.csuchico.edu
Instance Number	01
System ID	MDR
Client	615
Company Code	C030

7.2 Changes in Enterprise Organization Structure

7.2.1 Change name of company code (SPRO)

Edit address: C030

Name

Title

Name Tyco Fire & Security

Search Terms

Search term 1/2 030

Street Address

Street/House number Congress Ave 6600

Postal Code/City 33487 Boca Raton

Country US USA Region FL Florida

Time zone EST

7.2.2 Change plant name (SPRO)

Change View "Plants": Details

New Entries

Plant P030

Name 1 Tyco Safety Products Co. Ltd.

Name 2 Shenyang

Detailed information

Language Key EN English

House number/street

PO Box

Postal Code

City

Country Key CN China

Region 070 Liaoning

County code

City code

Tax Jurisdiction

Factory calendar US Factory calendar US standard

Note: The address fields Name1 and Name2 are not copied from the address screen and you must maintain them separately.
All other addr. data can only be maintained in addr. screen.
The changes can only be seen in the overview and detail view after they have been saved.

7.2.3 Change sales organization name (SPRO)

Change View "Sales organizations": Details

New Entries

Sales Organization: S030 Tyco Sales

Detailed information

Statistics currency:

Address text name: ADRS_SENDER RefSorg.SalesDocType:

Letter header text: ADRS_HEADER Cust.inter-co.bill.:

Footer lines text: ADRS_FOOTER Sales org.calendar: US

Greeting text name: ADRS_SIGNATURE

Text SDS sender: Rebate proc.active

ALE : Data for purchase order

Purch. Organization: Plant:

Purchasing Group: Storage Location:

Vendor: Movement Type:

Order Type:

7.3 New Master Data for Materials Management

7.3.1 Create two new finished goods (MMF1)

Create Finished Product HARDTAGASSY

Additional Data Org. Levels Check Screen Data

Basic data 1 Basic data 2 Classification Sales: sales org. 1 Sales:...

Material: HARDTAGASSY SuperTag III

General data

Base Unit of Measure: EA each Material Group: 01

Old material number: Ext. Matl Group:

Division: 01 Lab/Office:

Product allocation: Prod.hierarchy:

X-plant matl status: Valid from:

Assign effect. vals GenItemCatGroup: NORM Standard item

Material authorization group

Authorization Group:

Dimensions/EANs

Gross Weight: 12 Weight unit: G

Net Weight:

Volume: Volume unit:

Size/dimensions:

EAN/UPC: EAN Category:

Packaging material data

Matl Grp Pack.Matls:

Basic Data Texts

Languages Maintained: 0 Basic Data Text Language:

Create Finished Product LABELASSY

Additional Data Org. Levels Check Screen Data

Basic data 1 Basic data 2 Classification Sales: sales org. 1 Sales:...

Material: LABELASSY Ultra Strip III Individual Label

General data

Base Unit of Measure: EA each Material Group: 01

Old material number: Ext. Matl Group:

Division: 01 Lab/Office:

Product allocation: Prod.hierarchy:

X-plant matl status: Valid from:

Assign effect. vals GenItemCatGroup: NORM Standard item

Material authorization group

Authorization Group:

Dimensions/EANs

Gross Weight: 1 Weight unit: G

Net Weight:

Volume: Volume unit:

Size/dimensions:

EAN/UPC: EAN Category:

Packaging material data

Matl Grp Pack.Matls:

Basic Data Texts

Languages Maintained: 0 Basic Data Text Language:

7.3.2 Create relative raw materials (MMR1)

Create Raw Material BIASRIB030

Additional Data Org. Levels Check Screen Data

Basic data 1 Basic data 2 Classification Sales: sales org. 1 Sales: sales or...

Material BIASRIB030 Bias material ribbon for tag and label

General data

Base Unit of Measure EA each Material Group 01

Old material number Ext. Matl Group

Division Lab/Office

Product allocation

X-plant matl status Valid from

Assign effect. vals GenItemCatGroup

Material authorization group

Authorization Group

Dimensions/EANs

Gross Weight 0.100 Weight unit G

Net Weight 0.100

Volume Volume unit

Size/dimensions

EAN/UPC EAN Category

Packaging material data

Matl Grp Pack.Mats

Basic Data Texts

Languages Maintained 0 Basic Data Text Language:

Create Raw Material LABELADHESIVE030

Additional Data Org. Levels Check Screen Data

Basic data 1 Basic data 2 Classification Sales: sales org. 1 Sales: sales or...

Material LABELADHESIVE030 adhesive film for labelassy030

General data

Base Unit of Measure EA each Material Group 01

Old material number Ext. Matl Group

Division Lab/Office

Product allocation

X-plant matl status Valid from

Assign effect. vals GenItemCatGroup

Material authorization group

Authorization Group

Dimensions/EANs

Gross Weight 0.200 Weight unit G

Net Weight 0.200

Volume Volume unit

Size/dimensions

EAN/UPC EAN Category

Packaging material data

Matl Grp Pack.Mats

Basic Data Texts

Languages Maintained 0 Basic Data Text Language:

Create Raw Material LABELCAVITY

Additional Data Org. Levels Check Screen Data

Basic data 1 Basic data 2 Classification Sales: sales org. 1 Sales: sales or...

Material LABELCAVITY formed cavity for labelassy

General data

Base Unit of Measure EA each Material Group 01

Old material number Ext. Matl Group

Division Lab/Office

Product allocation

X-plant matl status Valid from

Assign effect. vals GenItemCatGroup

Material authorization group

Authorization Group

Dimensions/EANs

Gross Weight 0.500 Weight unit G

Net Weight 0.500

Volume Volume unit

Size/dimensions

EAN/UPC EAN Category

Packaging material data

Matl Grp Pack.Mats

Basic Data Texts

Languages Maintained 0 Basic Data Text Language:

Create Raw Material MAGRIBBON030

Additional Data Org. Levels Check Screen Data

Basic data 1 Basic data 2 Classification Sales: sales org. 1 Sales: sales or...

Material MAGRIBBON030 magnetostrictive material ribbon

General data

Base Unit of Measure EA each Material Group 01

Old material number Ext. Matl Group

Division Lab/Office

Product allocation

X-plant matl status Valid from

Assign effect. vals GenItemCatGroup

Material authorization group

Authorization Group

Dimensions/EANs

Gross Weight 0.100 Weight unit G

Net Weight 0.100

Volume Volume unit

Size/dimensions

EAN/UPC EAN Category

Packaging material data

Matl Grp Pack.Mats

Basic Data Texts

Languages Maintained 0 Basic Data Text Language:

Create Raw Material TAGBOTHOUSE030

Additional Data Org. Levels Check Screen Data

Basic data 1 Basic data 2 Classification Sales: sales org. 1 Sales: sales or...

Material TAGBOTHOUSE030 bottom plastic part for hardtagassy030

General data

Base Unit of Measure EA each Material Group 01
 Old material number Ext. Matl Group
 Division Lab/Office
 Product allocation
 X-plant matl status Valid from
 Assign effect. vals GenItemCatGroup

Material authorization group

Authorization Group

Dimensions/EANs

Gross Weight 4 Weight unit G
 Net Weight 4
 Volume Volume unit
 Size/dimensions
 EAN/UPC EAN Category

Packaging material data

Matl Grp Pack.Mats

Basic Data Texts

Languages Maintained 0 Basic Data Text Language:

Create Raw Material TAGTOPHOUSE030

Additional Data Org. Levels Check Screen Data

Basic data 1 Basic data 2 Classification Sales: sales org. 1 Sales: sales or...

Material TAGTOPHOUSE030 top plastic part for hardtagassy030

General data

Base Unit of Measure EA each Material Group 01
 Old material number Ext. Matl Group
 Division Lab/Office
 Product allocation
 X-plant matl status Valid from
 Assign effect. vals GenItemCatGroup

Material authorization group

Authorization Group

Dimensions/EANs

Gross Weight 4.700 Weight unit G
 Net Weight 4.700
 Volume Volume unit
 Size/dimensions
 EAN/UPC EAN Category

Packaging material data

Matl Grp Pack.Mats

Basic Data Texts

Languages Maintained 0 Basic Data Text Language:

Create Raw Material TAGPINSRING030

Additional Data Org. Levels Check Screen Data

Basic data 1 Basic data 2 Classification Sales: sales org. 1 Sales: sales or...

Material TAGPINSRING030 tag pin spring for hardtagassy030

General data

Base Unit of Measure EA each Material Group 01
 Old material number Ext. Matl Group
 Division Lab/Office
 Product allocation
 X-plant matl status Valid from
 Assign effect. vals GenItemCatGroup

Material authorization group

Authorization Group

Dimensions/EANs

Gross Weight 1 Weight unit G
 Net Weight 1
 Volume Volume unit
 Size/dimensions
 EAN/UPC EAN Category

Packaging material data

Matl Grp Pack.Mats

Basic Data Texts

Languages Maintained 0 Basic Data Text Language:

Create Raw Material TAGSECURITYPIN030

Additional Data Org. Levels Check Screen Data

Sales text Purchasing Foreign trade import Purchase order text M.

Material TAGSECURITYPIN030 tag security pin for hardtagassy0303
 Plant P030 Tyco Safety Products Co. Ltd.

General Data

Base Unit of Measure EA each Order Unit Var. OUn
 Purchasing Group 030 Material Group 01
 Plant-sp.matl status Valid from
 Tax ind. f. material Qual.f.FreeGoodsDis.
 Material freight grp Autom. PO
 Batch management

Purchasing values

Purchasing value key Shipping Instr.
 1st Rem./Exped. 0 days Underdel. Tolerance 0.0 percent
 2nd Reminder/Exped. 0 days Overdelv. Tolerance 0.0 percent
 3rd Reminder/Exped. 0 days Min. Del. Qty in % 0.0 percent
 StdValueDelvDateVar 0 days Untd Overdelivery Acknowledgment Reqd

Other data / manufacturer data

GR Processing Time 3 days Post to insp. stock Critical Part
 Quota arr. usage Source list JIT Sched. Indicator

7.3.3 Create new vendors (XK01)

List of Vendors: Purchasing

Name of vendor	Street	City	Post.Code	City	Group	Search term	B	DeF	One-time	POrg	Purch. Org. Descr.	PayT	IncoT	Inco. 2	B	D	Min. value	Crcy	Salespers.	Telephone	POrg	Number
Vendor 100171																						4
Colorful Polymers International030																						1
Vendor 100172																						1
Mega Machining Company030																						1
Vendor 100173																						1
Rare Earth Alloys, LLC.030																						1
Vendor 100174																						1
The Best Project Material CO.030																						1

7.3.4 Create new info records for new raw materials (ME11)

Create Info Record: Initial Screen

Vendor: 100171

Material: IAGBOTHOUSE030

Purchasing Org.: P030

Plant: P030

Info Record:

Info category: Standard

Create Info Record: Initial Screen

Vendor: 100171

Material: IAGTOPHOUSE030

Purchasing Org.: P030

Plant: P030

Info Record:

Info category: Standard

Create Info Record: Initial Screen

Vendor: 100174

Material: LABELCAVITY030

Purchasing Org.: P030

Plant: P030

Info Record:

Info category: Standard

Create Info Record: Initial Screen

Vendor: 100174

Material: LABELADHESIVE030

Purchasing Org.: P030

Plant: P030

Info Record:

Info category: Standard

Create Info Record: Initial Screen

Vendor: 100173

Material: MAGRIBBON030

Purchasing Org.: P030

Plant: P030

Info Record:

Info category: Standard

Create Info Record: Initial Screen

Vendor: 100173

Material: BIASRIB030

Purchasing Org.: P030

Plant: P030

Info Record:

Info category: Standard

Create Info Record: Initial Screen

Vendor: 100172

Material: IAGPINSFRING030

Purchasing Org.: P030

Plant: P030

Info Record:

Info category: Standard

Create Info Record: Initial Screen

Vendor: 100172

Material: IAGSECURITYYPIN030

Purchasing Org.: P030

Plant: P030

Info Record:

Info category: Standard

7.3.5 Create source lists for raw materials and vendors (ME01)

Maintain Source List: Overview Screen

Material: LABELCAVITY030 [formed cavity for labelassy030]
 Plant: P030 Tyco Safety Products Co. Ltd.

Valid from	Valid to	Vendor	POrg	PPI	OUn	Agmt	Item	Central Co...
11/05/2013	12/31/2013	100174	p030					

Maintain Source List: Overview Screen

Material: LABELADHESIVE030 [adhesive film for labelassy030]
 Plant: P030 Tyco Safety Products Co. Ltd.

Valid from	Valid to	Vendor	POrg	PPI	OUn	Agmt	Item	Central Co...
11/05/2013	12/31/2013	100174	p030					

Maintain Source List: Overview Screen

Material: MAGRIBBON030 [magnetostrictive material ribbon]
 Plant: P030 Tyco Safety Products Co. Ltd.

Valid from	Valid to	Vendor	POrg	PPI	OUn	Agmt	Item	Central Co...
11/05/2013	12/31/2013	100173	p030					

Maintain Source List: Overview Screen

Material: BIASRIB030 [bias material ribbon for tag and label]
 Plant: P030 Tyco Safety Products Co. Ltd.

Valid from	Valid to	Vendor	POrg	PPI	OUn	Agmt	Item	Central Co...
11/05/2013	12/31/2013	100173	p030					

Maintain Source List: Overview Screen

Material: TAGTOPHOUSE030 [top plastic part for hardtagassy030]
 Plant: P030 Tyco Safety Products Co. Ltd.

Valid from	Valid to	Vendor	POrg	PPI	OUn	Agmt	Item	Central Co...
11/05/2013	12/31/2013	100171	p030					

Maintain Source List: Overview Screen

Material: TAGBOHOUSE030 [bottom plastic part for hardtagassy030]
 Plant: P030 Tyco Safety Products Co. Ltd.

Valid from	Valid to	Vendor	POrg	PPI	OUn	Agmt	Item	Central Co...
11/05/2013	12/31/2013	100171	p030					

Maintain Source List: Overview Screen

Material: TAGPINSRING030 [tag pin spring for hardtagassy030]
 Plant: P030 Tyco Safety Products Co. Ltd.

Valid from	Valid to	Vendor	POrg	PPI	OUn	Agmt	Item	Central Co...
11/05/2013	12/31/2013	100172	p030					

Maintain Source List: Overview Screen

Material: TAGSECURITYPIN030 [tag security pin for hardtagassy030]
 Plant: P030 Tyco Safety Products Co. Ltd.

Valid from	Valid to	Vendor	POrg	PPI	OUn	Agmt	Item	Central Co...
11/05/2013	12/31/2013	100172	p030					

7.4 New Master Data for Sales Management

7.4.1 Create new customers (XD01)

Customer List

Customer	SOrg.	DChl	Dv	SOFF.	SGrp	Name 1	City	Search term	Name 1	Street	House No.	Post.Code	City	Cty	Rg	Telephone1	OrBk	OrBl
141	S030	RE	01			EARLS HOME BUILDING SUPPL	CHARLOTTE	030	Earls Home Building Supplies			28203	Charlotte	US	NC			
142	S030	WH	01			HYPER MART CORPORATION 03	BRANSON	030	Hyper Mart Corporation 030	300 Tanger Blvd		65616	Branson	US	MO			
143	S030	RE	01			EURO COUTURE 030	LINDEN	030	Euro Couture 030	210 North Wood Avenue		07036	Linden	US	NJ			

7.4.2 Create customer specific material prices for finished products (VK31)

Create Customer: Sales Area Data

Other Customer General Data Company Code Data CIN Details Additional Data, Empty

Customer: INTERNAL Earls Home Building Supplies Charlotte
 Sales Org.: S030 Tyco Sales
 Distr. Channel: RE Retail
 Division: 01 General Products

Sales Shipping Billing Documents Partner Functions

Billing document

Subs. invoice processing Rebate Price determin.
 Invoicing dates:
 InvoicingListDates:

Delivery and payment terms

Incoterms: FOB Origin Shipping Dock
 Terms of payment: 0001

Accounting

Acct assgmt group: 01

Taxes

Country	Name	Tax categ...	Name	Tax...	Description
CN	China	MWST	Output Tax	0	
US	USA	UIX2	County Sales Tax	0	
US	USA	UIX3	City Sales Tax	0	
US	USA	UIXJ	Tax Jurisdict.Code	0	

Licenses

Create Customer: Sales Area Data

Other Customer General Data Company Code Data CIN Details Additional Data, Empty

Customer: INTERNAL Hyper Mart Corporation 030 Branson
 Sales Org.: S030 Tyco Sales
 Distr. Channel: WH Wholesale
 Division: 01 General Products

Sales Shipping Billing Documents Partner Functions

Billing document

Subs. invoice processing Rebate Price determin.
 Invoicing dates:
 InvoicingListDates:

Delivery and payment terms

Incoterms: FOB Origin Shipping Dock
 Terms of payment: 0001

Accounting

Acct assgmt group: 01

Taxes

Country	Name	Tax categ...	Name	Tax...	Description
CN	China	MWST	Output Tax	0	
US	USA	UIX2	County Sales Tax	0	
US	USA	UIX3	City Sales Tax	0	
US	USA	UIXJ	Tax Jurisdict.Code	0	

Licenses

Create Customer: Sales Area Data

Other Customer General Data Company Code Data CIN Details Additional Data, Empty

Customer: INTERNAL Euro Couture 030 Linden
 Sales Org.: S030 Tyco Sales
 Distr. Channel: RE Retail
 Division: 01 General Products

Sales Shipping Billing Documents Partner Functions

Sales order

Sales district: Order probab.: 100 %
 Sales Office: AuthorizGroup:
 Sales Group: Item proposal:
 Customer group: Acct at cust.:
 ABC class: UoM Group:
 Currency: USD United States Dollar Exch. Rate Type:
 Switch off rounding PP cust. proc.:
 Product attributes

Pricing/Statistics

Price group:
 Cust.pric.proc.: 1 Standard
 Price List:
 Cust.Stats.Grp: 1

Agency business

Relevant for agency business

Customer hierarchy

Hierarchy type:
 Higher-level customer:

7.4.3 Create discount for your new customer (VK31)

Create Customer Discount Condition (K007) : Scales

Variable key

SOrg.	DChl	Customer	ReSt	Description
S030	WH	142		Hyper Mart Corporation 030

Validity

Valid From: 11/04/2013
Valid to: 12/31/9999

Control

ScaleBasis: Value scale
Check: None

Scales

Scale Type	Scale value	ScCur	Amount	Unit	per	U...
From		1000 USD		5 %		
	2000			8		
	3000			10		

7.4.4 Setup credit limit for your new customer (FD32)

Customer Credit Management Change: Central Data

Customer: 142 Hyper Mart Corporation 030

Current credit limit assigned

Total amount: 0.00
Largest indiv.limit: 0.00

Maximum permitted credit limits

Total amount: 6000
Individual limit: 6000
Currency: usd

Last information

Last general info:

Customer Credit Management Change: Central Data

Customer: 141 Earls Home Building Supplies

Current credit limit assigned

Total amount: 5,000.00
Largest indiv.limit: 5,000.00 (Cred.contr.area C030)

Maximum permitted credit limits

Total amount: 5,000.00
Individual limit: 5,000.00
Currency: USD

Last information

Last general info:

Customer Credit Management Change: Central Data

Customer: 143 Euro Couture 030

Current credit limit assigned

Total amount: 0.00
Largest indiv.limit: 0.00

Maximum permitted credit limits

Total amount: 5000
Individual limit: 5000
Currency: usd

Last information

Last general info:

7.5 New Master Data for Production Management

7.5.1 Modify your plant capacity if necessary (CR12)

Change Capacity: Header

Intervals and Shifts
 Intervals
 Available Capacity Profile
 Reference Available Capacity

Plant: P030 Tyco Safety Products Co. Ltd.
 Capacity: SHIFT **Standard Day Shift**
 Capacity category: 002 Person

General data

Capacity planner grp: A Planner group A
 Pooled capacity Grouping:

Available capacity

Factory calendar ID: US Factory calendar US standard
 Active version:
 Base unit of meas.: MIN Minute

Standard available capacity

Start: 08:00:00 Capacity utilization: 90
 Finish: 20:00:00 No. of indiv. cap.: 4
 Length of breaks: 01:00:00 Capacity: 39.60 H
 Operating time: 9.90

Planning details

Relevant to finite scheduling Overload: %
 Can be used by several operations Long-term planning

7.5.2 Modify labor activity price if necessary (KP26)

Display Activity Type/Price Planning: Overview Screen

Line Items

Version: 0 Plan/Act - Version
 Period: 1 To: 12
 Fiscal Year: 2013
 Cost Center: D005 Warehouse

Acti...	Plan Activity	Dis...	Capacity	Dis...	U...	Price (Fixed)	Variable pr...	Price ...	Pl...	P...	Av...	Alloc. cost...	T EquNo	Scheduled Activity	L...	
LABOR	100,000	2		0	2	H	0.00	15.00	00001	1	<input type="checkbox"/>	800030	1	1	0	<input type="checkbox"/>

7.5.3 Modify your work center for production if necessary (CR02)

Display Work Center: Basic Data

HRMS Hierarchy

Plant: P030 Tyco Safety Products Co. Ltd.
 Work center: WC030A Magnetizing Machine

Basic Data | Default Values | Capacities | Scheduling | Costing | Technology

General Data

Work center cat.: 0003 Labor
 Person responsible: 030 Lilly
 Location: 030 Bldg030
 QDR system:
 Supply Area:
 Usage: 009 All task list types
 Backflush
 Shift Note Type:
 Shift Report Type:

Standard Value Maintenance

Standard value key: SAP1 Normal production

Key Word	Rule for Maint.	K...	Description
Setup	should be en...		
Machine	no checking		
Labor	should be en...		

Display Work Center: Basic Data

HRMS Hierarchy

Plant: P030 Tyco Safety Products Co. Ltd.
 Work center: WC030B Molding Department

Basic Data | Default Values | Capacities | Scheduling | Costing | Technology

General Data

Work center cat.: 0003 Labor
 Person responsible: 030 Lilly
 Location: 030 Bldg030
 QDR system:
 Supply Area:
 Usage: 009 All task list types
 Backflush
 Shift Note Type:
 Shift Report Type:

Standard Value Maintenance

Standard value key: SAP1 Normal production

Key Word	Rule for Maint.	K...	Description
Setup	should be en...		
Machine	no checking		
Labor	should be en...		

Display Work Center: Basic Data

HRMS Hierarchy

Plant: P030 Tyco Safety Products Co. Ltd.
 Work center: WC030C Clean Assembly Room

Basic Data | Default Values | Capacities | Scheduling | Costing | Technology

General Data

Work center cat.: 0003 Labor
 Person responsible: 030 Lilly
 Location: 030 Bldg030
 QDR system:
 Supply Area:
 Usage: 009 All task list types
 Backflush
 Shift Note Type:
 Shift Report Type:

Standard Value Maintenance

Standard value key: SAP1 Normal production

Key Word	Rule for Maint.	K...	Description
Setup	should be en...		
Machine	no checking		
Labor	should be en...		

7.5.4 Create BOM for two new finished products (CS01)

Create material BOM: General Item Overview

Material: LABELASSY030 Ultra Strip III Individual Label
 Plant: P030 Tyco Safety Products Co. Ltd.
 Alternative BOM: 1

Item	ICt	Component	Component description	Funct.ID	Quantity	Un	A...	SIs	Valid From	Valid to	Change No.
0010	L	LABELCAVITY030	formed cavity for labelassy030		1	EA	<input type="checkbox"/>	<input type="checkbox"/>	11/05/2013	12/31/9999	
0020	L	MAGRIBBON030	magnetostrictive material ribbon		2	EA	<input type="checkbox"/>	<input type="checkbox"/>	11/05/2013	12/31/9999	
0030	L	BIASRIB030	bias material ribbon for tag and label		1	EA	<input type="checkbox"/>	<input type="checkbox"/>	11/05/2013	12/31/9999	
0040	L	LABELADHESIVE030	adhesive film for labelassy030		1	EA	<input type="checkbox"/>	<input type="checkbox"/>	11/05/2013	12/31/9999	
0050							<input type="checkbox"/>	<input type="checkbox"/>			

Create material BOM: General Item Overview

Material: HARDTAGASSY030 SuperTag III
 Plant: P030 Tyco Safety Products Co. Ltd.
 Alternative BOM: 1

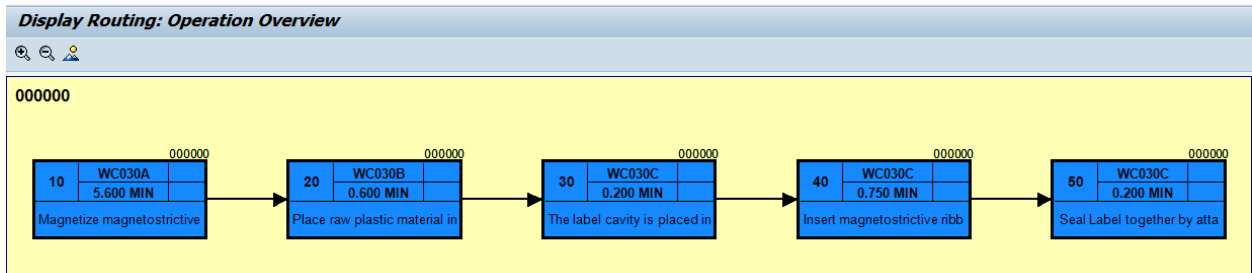
Item	ICt	Component	Component description	Funct.ID	Quantity	Un	A...	SIs	Valid From	Valid to	Change No.	P...	SortStrng	Item
0010	L	TAGTOPHOUSE030	top plastic part for hardtagassy030		1	EA	<input type="checkbox"/>	<input type="checkbox"/>	11/05/2013	12/31/9999		<input type="checkbox"/>		
0020	L	TAGBOTHOUSE030	bottom plastic part for hardtagassy030		1	EA	<input type="checkbox"/>	<input type="checkbox"/>	11/05/2013	12/31/9999		<input type="checkbox"/>		
0030	L	MAGRIBBON030	magnetostrictive material ribbon		2	EA	<input type="checkbox"/>	<input type="checkbox"/>	11/05/2013	12/31/9999		<input type="checkbox"/>		
0040	L	BIASRIB030	bias material ribbon for tag and label		1	EA	<input type="checkbox"/>	<input type="checkbox"/>	11/05/2013	12/31/9999		<input type="checkbox"/>		
0050	L	TAGPINSRING030	tag pin spring for hardtagassy030		1	EA	<input type="checkbox"/>	<input type="checkbox"/>	11/05/2013	12/31/9999		<input type="checkbox"/>		
0060	L	TAGSECURITYPIN030	tag security pin for hardtagassy0303		1	EA	<input type="checkbox"/>	<input type="checkbox"/>	11/05/2013	12/31/9999		<input type="checkbox"/>		
0070							<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>		

7.5.5 Create routings for two new finished goods (CA01)

Change Routing: Operation Overview

Material: LABELASSY030 Ultra Strip III Individual Label Grp.Count1
 Sequence: 0

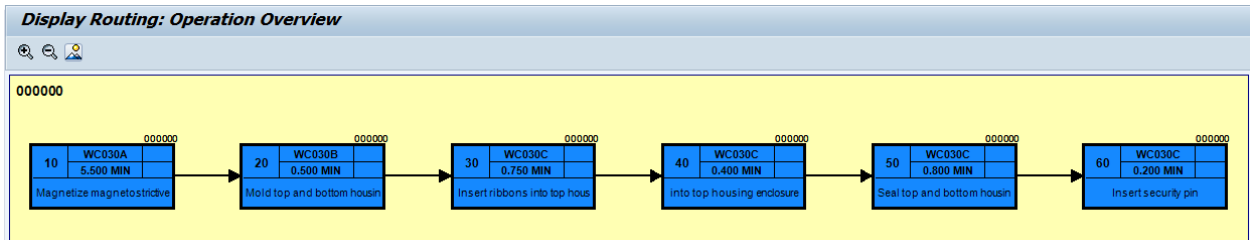
Op...	SOp	Work c...	Plnt	Co...	Standar...	Description	L...	P...	Cl...	O...	P...	C...	S...	Base Quantity	U...	Setup	U...	Activ...	Machine	U...	Activ...
0010		WC030A	P030	ASSY		Magnetize magnetostrictive ribbon	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	EA	5	MIN	LABOR			
0020		WC030B	P030	ASSY		Place raw plastic material in forming di	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	EA	0.100	MIN	LABOR			
0030		WC030C	P030	ASSY		The label cavity is placed in an assembl	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	EA	0.100	MIN	LABOR			
0040		WC030C	P030	ASSY		Insert magnetostrictive ribbon and bias	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	EA	0.100	MIN	LABOR			
0050		WC030C	P030	ASSY		Seal Label together by attaching adhesiv	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	EA	0.100	MIN	LABOR			
0060			P030				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	EA						



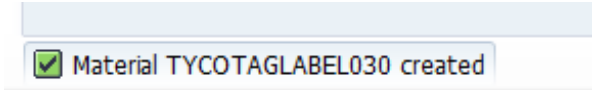
Change Routing: Operation Overview

Material: HARDTAGASSY030 SuperTag III Grp.Count1
 Sequence: 0

Op...	SOP	Work c...	Plnt	Co...	Standar...	Description	L...	P...	Cl...	O...	P...	C...	S...	Base Quantity	U...	Setup	U...	Activi...	Machine	U...	Activi...
0010		WC030a	P030	ASSY		Magnetize magnetostrictive ribbon	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	EA	5	MIN	LABOR			
0020		WC030b	P030	ASSY		Mold top and bottom housing enclosure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	EA	0.100	MIN	LABOR			
0030		WC030c	P030	ASSY		Insert ribbons into top housing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	EA	0.100	MIN	LABOR			
0040		WC030c	P030	ASSY		into top housing enclosure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	EA	0.100	MIN	LABOR			
0050		WC030c	P030	ASSY		Seal top and bottom housing enclosure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	EA	0.100	MIN	LABOR			
0060		WC030c	P030	ASSY		Insert security pin	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	EA	0.100	MIN	LABOR			
0070			P030				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1	EA						



7.5.6 Create product group (MM01)



7.5.7 Assign members for your product group (MC86)

Change Product Group: Maintain Members (Materials)

Hierarchy graphic Versions... Master data... Product grp. graphic Delete member

Product group: TYCOTAGLABEL030 Tyco Tag and Label group 030
 Plant: P030 Tyco Safety Products Co. Ltd.
 Base Unit: EA

Member number	Plnt	Unit conv.	Aggr.fact.	Proportion	UoM	V M Fx
		Short Text			MTyp	
LABELASSY030	p030			80		<input type="checkbox"/>
HARDTAGASSY030	p030			20		<input type="checkbox"/>
						<input type="checkbox"/>

7.6 Operation Activities

7.6.1 After implementation, send an email to your instructor to introduce two new products with prices in WH, discount rate, credit limit, delivery date

Finished Product	Price	Per	Product Group
LABELASSY030	\$274.95	5000	TYCOTAGLABEL030
HARDTAGASSY030	\$631.80	1000	TYCOTAGLABEL030

Customer	Address	Distr. Ch	Region	Cust. #	Credit Limit	Discount Rate
Earls Home Building Supplies	4927 Monroe Rd Charlotte, NC 28203	RE	East	141	\$5000	
Hyper Mart Corporation	300 Tanger Blvd Branson, MO 65616	WH	West	142	\$6000	5%/\$1000 8%/\$2000 10%/\$3000
Euro Couture	210 North Wood Avenue Linden, NJ 07036	RE	East	143	\$5000	

7.6.2 Create SOP for production group (MC82)

Change Rough-Cut Plan

Characteristic

Product group: TYCOTAGLABEL030 Tyco Tag and Label group 030
 Plant: P030
 Version: A00 Active version Active

SOP: plan individual product group

Planning table	Un	M 11/2013	M 12/2013	M 01/2014	M 02/2014	M 03/2014	M 04/2014	M 05/2014	M 06/2014	M 07/2014
Sales	EA	50000								
Production	EA	50000								
Stock level	EA									
Target stock level	EA									
Days' supply	***									
Target days' supply	***									

7.6.3 Transfer planning data to demand management (MC75)

Transfer Planning Data to Demand Management

Transfer now

Product group: TYCOTAGLABEL030 Tyco Tag and Label group 030
 Plant: P030 Tyco Safety Products Co. Ltd.
 Version: A00

Transfer strategy and period

Sales plan for material or PG members
 Sales plan for mat. or PG members as proportion of PG
 Production plan for material or PG members
 Prod.plan for mat. or PG members as proportion of PG

From: 11/12/2013 To:

Invisible transfer

Independent requirement specifications

Requirements type:
 Version:
 Active

7.6.4 Create sales quotation based on your new customer request (VA21)

Create Quotation: Overview

Quotation: Net value: USD

Sold-To Party: Earls Home Building Supplies // Charlotte NC 28203

Ship-To Party: Earls Home Building Supplies // Charlotte NC 28203

PO Number: PO date:

Sales | **Item overview** | Item detail | Ordering party | Procurement | Shipping | Reason for rejection

Valid from: Valid to:

Req. deliv.date: Expect.ord.val.: USD

All items

Item	Material	Order Quantity	SU	AltItm	Description
10	LABELASSY030	10,000	EA		Ultra Strip III Individual Label
20	HARDTAGASSY030	5,000	EA		SuperTag III

Create Quotation: Overview

Quotation: Net value: USD

Sold-To Party: Hyper Mart Corporation 030 / 300 Tanger Blvd / Branson MO 6..

Ship-To Party: Hyper Mart Corporation 030 / 300 Tanger Blvd / Branson MO 6..

PO Number: PO date:

Sales | **Item overview** | Item detail | Ordering party | Procurement | Shipping | Reason for rejection

Valid from: Valid to:

Req. deliv.date: Expect.ord.val.: USD

All items

Item	Material	Order Quantity	SU	AltItm	Description
10	LABELASSY030	20,000	EA		Ultra Strip III Individual Label
20	HARDTAGASSY030	5,000	EA		SuperTag III

7.6.5 Convert your sales quotation to a sales order (VA01)

Create Standard Order: Overview

Standard Order: [] Net value: 3,650.00 USD

Sold-To Party: 141 Earls Home Building Supplies / / Charlotte NC 28203

Ship-To Party: 141 Earls Home Building Supplies / / Charlotte NC 28203

PQ Number: 2013-030-X PQ date: 11/12/2013

Sales | Item overview | Item detail | Ordering party | Procurement | Shipping | Reason for rejection

Req. deliv.date: D 11/15/2013 Deliver.Plant: []

Complete delv. Total Weight: 70,000 G

Delivery block: [] Volume: 0.000

Billing block: [] Pricing date: 11/12/2013

Payment card: [] Exp.date: []

Card Verif.Code: []

Payment terms: 0001 Pay immediately w/... Incoterms: FOB Origin Shipping Dock

Order reason: []

All items

Item	Material	Order Quantity	Un	S	Description	Customer Material Numb
10	LABELASSY030	10,000	EA	<input type="checkbox"/>	Ultra Strip III Individual Label	
20	HARDTAGASSY030	5,000	EA	<input type="checkbox"/>	SuperTag III	

Create Standard Order: Overview

Standard Order: [] Net value: 3,572.00 USD

Sold-To Party: 142 Hyper Mart Corporation 030 / 300 Tanger Blvd / Branson MO 6...

Ship-To Party: 142 Hyper Mart Corporation 030 / 300 Tanger Blvd / Branson MO 6...

PQ Number: [] PQ date: []

Sales | Item overview | Item detail | Ordering party | Procurement | Shipping | Reason for rejection

Req. deliv.date: D 11/15/2013 Deliver.Plant: []

Complete delv. Total Weight: 80,000 G

Delivery block: [] Volume: 0.000

Billing block: [] Pricing date: 11/12/2013

Payment card: [] Exp.date: []

Card Verif.Code: []

Payment terms: 0001 Pay immediately w/... Incoterms: FOB Origin Shipping Dock

Order reason: []

All items

Item	Material	Order Quantity	Un	S	Description	Customer Material Numb
10	LABELASSY030	20,000	EA	<input checked="" type="checkbox"/>	Ultra Strip III Individual Label	
20	HARDTAGASSY030	5,000	EA	<input checked="" type="checkbox"/>	SuperTag III	

7.6.6 Run MPS/MRP to generate purchase requisitions and planned orders (MD40)

Master Production Scheduling Planning Run												
MRP list Curr.list Except.grp												
Planned Materials					Selection Group							
Count.	Time	Lev	Plnt	Material	1	2	3	4	5	6	7	8
1	12.43.05	000	P030	HARDTAGASSY030							7	
2	12.43.05	000	P030	LABELASSY030							7	
3	12.43.05	001	P030	BIASRIB030				4				
4	12.43.05	001	P030	LABELADHESIVE030				4				
5	12.43.05	001	P030	LABELCAVITY030				4				
6	12.43.05	001	P030	MAGRIBBON030				4				
7	12.43.05	001	P030	TAGBOTHOUSE030							7	
8	12.43.05	001	P030	TAGPINSRING030							7	
9	12.43.05	001	P030	TAGSECURITYPIN030							7	
10	12.43.05	001	P030	TAGTOPHOUSE030							7	

Statistics	
Materials planned	10
Materials with New Exceptions	10
Materials with Termination MRP List	

Parameters	
Scope of Planning	
Plnt	P030
Processing Key	NETCH
Create Purchase Requisition	2
SA Schedule Line	3
Create MRP List	1
Planning Mode	1
Scheduling	1
MRP Date	11/12/2013

Database Statistics	
Planned orders created	3
Planned orders changed	4
Purchase requisitions changed	4
Purchase requisitions deleted	8
Dependent requirements created	14

Runtime Statistics	
Start of Planning Run	12:43:05
End of Planning Run	12:43:05

Ranking List of Materials with Highest CPU Times (in ms)							
Material	Plnt	Runtime	Read	Net Calc.	BOM	ldTmeSched	Update
HARDTAGASSY030	P030	149	22	52	32	0	34
TAGBOTHOUSE030	P030	62	6	2	0	0	53
BIASRIB030	P030	59	6	1	0	0	49
LABELASSY030	P030	36	6	1	14	0	13
TAGPINSRING030	P030	26	7	0	0	0	17
TAGSECURITYPIN030	P030	25	8	1	0	0	15
LABELCAVITY030	P030	24	6	1	0	0	16
MAGRIBBON030	P030	22	10	1	0	0	9
TAGTOPHOUSE030	P030	19	6	1	0	0	11
LABELADHESIVE030	P030	17	7	0	0	0	10

7.6.7 Create a purchase order for required raw materials (ME21N)

Standard PO Vendor: 100171 Colorful Polymers Interna Doc. date: 11/12/2013

Delivery/Invoice Conditions Texts Address Communication Partners Additional Data Org. Data Status Payment Processing

Net: 550.00 USD

N.	On Ty Name	Amount	Qty	per	U...	Condition value	Curr.	Status	Condition value	CdCur	S...
FB00	Gross Price	130.00	USD	5,000	EA	286.00	USD		0.00		<input type="checkbox"/>
FB00	Gross Price	120.00	USD	5,000	EA	264.00	USD		0.00		<input type="checkbox"/>
	Net value incl. disc					550.00	USD		0.00		<input type="checkbox"/>
NAV5	Non-Deductible Tax					0.00	USD		0.00		<input checked="" type="checkbox"/>
	Net value incl. tax					550.00	USD		0.00		<input type="checkbox"/>
SKT0	Cash Discount	0.000				0.00	USD		0.00		<input checked="" type="checkbox"/>
	Actual price					550.00	USD		0.00		<input type="checkbox"/>
W0TB	OTB Procurement					550.00	USD		0.00		<input checked="" type="checkbox"/>

Condition rec. Activate Update

S...	Item	A	I	Material	Short Text	PO Quantity	O...	C	Deliv. Date	Net Price	Curr...	Per	O...	Matl Group	Pint	Stor. Location
10				TAGTOPHOUSE	top plastic part for hardt...	11,000	EA	D	11/26/2013	130.00	USD	5,000	EA	Material gro...	Tyco Safety Produ...	Raw Material I...
20				TAGBOTHOUSE	bottom plastic part for h...	11,000	EA	D	11/26/2013	120.00	USD	5,000	EA	Material gro...	Tyco Safety Produ...	Raw Material I...

Default Values Add Planning

Item: [10] TAGTOPHOUSE030, top plastic part for...

Material Data Quantities/Weights Delivery Schedule Delivery Invoice Conditions Texts Delivery Address Confirmations Condition Control

Material group: 01 Revision Level:
 Vendor mat. no.: EAN/UPC:
 Vendor sub-range:
 Batch: Vendor Batch: InfoUpdate

Standard PO Vendor: 100172 Mega Machining Compan Doc. date: 11/12/2013

Delivery/Invoice Conditions Texts Address Communication Partners Additional Data Org. Data Status Payment Processing

Net: 1,655.06 USD

N.	On Ty Name	Amount	Qty	per	U...	Condition value	Curr.	Status	Condition value	CdCur	S...
FB00	Gross Price	412.10	USD	5,000	EA	906.62	USD		0.00		<input type="checkbox"/>
FB00	Gross Price	340.20	USD	5,000	EA	748.44	USD		0.00		<input type="checkbox"/>
	Net value incl. disc					1,655.06	USD		0.00		<input type="checkbox"/>
NAV5	Non-Deductible Tax					0.00	USD		0.00		<input checked="" type="checkbox"/>
	Net value incl. tax					1,655.06	USD		0.00		<input type="checkbox"/>
SKT0	Cash Discount	0.000				0.00	USD		0.00		<input checked="" type="checkbox"/>
	Actual price					1,655.06	USD		0.00		<input type="checkbox"/>
W0TB	OTB Procurement					1,655.06	USD		0.00		<input checked="" type="checkbox"/>

Condition rec. Activate Update

S...	Item	A	I	Material	Short Text	PO Quantity	O...	C	Deliv. Date	Net Price	Curr...	Per	O...	Matl Group	Pint	Stor. Location
10				TAGPINSPRIN	tag pin spring for hardt...	11,000	EA	D	11/26/2013	412.10	USD	5,000	EA	Material gro...	Tyco Safety Produ...	Raw Material I...
20				TAGSECURITY	tag security pin for hardt...	11,000	EA	D	11/26/2013	340.20	USD	5,000	EA	Material gro...	Tyco Safety Produ...	Raw Material I...

Default Values Add Planning

Item: [10] TAGPINSPRING030, tag pin spring for h...

Material Data Quantities/Weights Delivery Schedule Delivery Invoice Conditions Texts Delivery Address Confirmations Condition Control

Material group: 01 Revision Level:
 Vendor mat. no.: EAN/UPC:
 Vendor sub-range:
 Batch: Vendor Batch: InfoUpdate

Standard PO Vendor 100173 Rare Earth Alloys, LLC.030 Doc. date 11/12/2013

Delivery/Invoice Conditions Texts Address Communication Partners Additional Data Org. Data Status Payment Processing

Net 366.16 USD

Pricing Elements

N.	CnTy Name	Amount	Orcy	per	U...	Condition value	Curr.	Status	Condition value	CdCur	S...
FB00	Gross Price	13.90	USD	5,000	EA	255.76	USD		0.00		
FB00	Gross Price	12.00	USD	5,000	EA	110.40	USD		0.00		
	Net value incl. disc					366.16	USD		0.00		
NAVS	Non-Deductible Tax					0.00	USD		0.00		<input checked="" type="checkbox"/>
	Net value incl. tax					366.16	USD		0.00		
SKTO	Cash Discount	0.000				0.00	USD		0.00		<input checked="" type="checkbox"/>
	Actual price					366.16	USD		0.00		
WOTB	OTB Procurement					366.16	USD		0.00		<input checked="" type="checkbox"/>

Condition rec. Activate Update

S...	Item	Material	Short Text	PO Quantity	O...	C Delv. Date	Net Price	Curr...	Per	O...	Matl Group	Plnt	Stor. Location	Batch
10		MAGRIBB030	magnetostrictive material	82,000	EA	11/26/2013	13.90	USD	5,000	EA	Material gro	Tyco Safety Produ	Raw Material I.	
20		BIASRIB030	bias material ribbon for ta	46,000	EA	11/26/2013	12.00	USD	5,000	EA	Material gro	Tyco Safety Produ	Raw Material I.	

Default Values Add Planning

Item [10] MAGRIBB030 , magnetostrictive mate

Material Data Quantities/Weights Delivery Schedule Delivery Invoice Conditions Texts Delivery Address Confirmations Condition Control

Material group 01 Revision Level
 Vendor mat. no. EAN/UPC
 Vendor sub-range
 Batch Vendor Batch InfoUpdate

Standard PO Vendor 100174 The Best Project Materia... Doc. date 11/12/2013

Delivery/Invoice Conditions Texts Address Communication Partners Additional Data Org. Data Status Payment Processing

Net 372.89 USD

Pricing Elements

N.	CnTy Name	Amount	Orcy	per	U...	Condition value	Curr.	Status	Condition value	CdCur	S...
FB00	Gross Price	29.27	USD	5,000	EA	204.89	USD		0.00		
FB00	Gross Price	24.00	USD	5,000	EA	168.00	USD		0.00		
	Net value incl. disc					372.89	USD		0.00		
NAVS	Non-Deductible Tax					0.00	USD		0.00		<input checked="" type="checkbox"/>
	Net value incl. tax					372.89	USD		0.00		
SKTO	Cash Discount	0.000				0.00	USD		0.00		<input checked="" type="checkbox"/>
	Actual price					372.89	USD		0.00		
WOTB	OTB Procurement					372.89	USD		0.00		<input checked="" type="checkbox"/>

Condition rec. Activate Update

S...	Item	Material	Short Text	PO Quantity	O...	C Delv. Date	Net Price	Curr...	Per	O...	Matl Group	Plnt	Stor. Location	Batch
10		LABELCAVITY	formed cavity for labelass	35,000	EA	11/26/2013	29.27	USD	5,000	EA	Material gro	Tyco Safety Produ	Raw Material I.	
20		LABELADHESI	adhesive film for labelass	35,000	EA	11/26/2013	24.00	USD	5,000	EA	Material gro	Tyco Safety Produ	Raw Material I.	

Default Values Add Planning

Item [10] LABELCAVITY030 , formed cavity for lab

Material Data Quantities/Weights Delivery Schedule Delivery Invoice Conditions Texts Delivery Address Confirmations Condition Control

Material group 01 Revision Level
 Vendor mat. no. EAN/UPC
 Vendor sub-range
 Batch Vendor Batch InfoUpdate

7.6.8 Make goods receipt for PO (MIGO)

Goods Receipt Purchase Order 450000224 - BPI-030

Show Overview | Hold | Check | Post | Help

Goods Receipt | Purchase Order | GR goods receipt | 101

General | Vendor

Document Date: 11/12/2013 | Delivery Note: | Vendor: Colorful Polymers Internationa
 Posting Date: 11/12/2013 | Bill of Lading: | HeaderText: |
 Individual Slip

Line	Mat. Short Text	OK	Qty in UnE	E... SLoc	Batch	Valuation ...	M...
1	top plastic part for hardtagassy030	<input checked="" type="checkbox"/>	11,000	EA Raw Material Inv			101
2	bottom plastic part for hardtagassy030	<input checked="" type="checkbox"/>	11,000	EA Raw Material Inv			101

Material | Quantity | Where | Purchase Order Data | Partner

Qty in Unit of Entry: 11,000 EA
 Qty in SKU: 11,000 EA
 Qty in Delivery Note: | |
 Quantity Ordered: 11,000 EA

Item OK | Line: 1

Goods Receipt Purchase Order 450000225 - BPI-030

Show Overview | Hold | Check | Post | Help

Goods Receipt | Purchase Order | GR goods receipt | 101

General | Vendor

Document Date: 11/12/2013 | Delivery Note: | Vendor: Mega Machining Company030
 Posting Date: 11/12/2013 | Bill of Lading: | HeaderText: |
 Individual Slip

Line	Mat. Short Text	OK	Qty in UnE	E... SLoc	Batch	Valuation ...	M...
1	tag pin spring for hardtagassy030	<input checked="" type="checkbox"/>	11,000	EA Raw Material Inv			101
2	tag security pin for hardtagassy0303	<input checked="" type="checkbox"/>	11,000	EA Raw Material Inv			101

Material | Quantity | Where | Purchase Order Data | Partner

Qty in Unit of Entry: 11,000 EA
 Qty in SKU: 11,000 EA
 Qty in Delivery Note: | |
 Quantity Ordered: 11,000 EA

Item OK | Line: 1

Goods Receipt Purchase Order 450000226 - BPI-030

Show Overview | Hold | Check | Post | Help

Goods Receipt | Purchase Order | GR goods receipt | 101

General | Vendor

Document Date: 11/12/2013 | Delivery Note: | Vendor: Rare Earth Alloys, LLC,030
 Posting Date: 11/12/2013 | Bill of Lading: | HeaderText: |
 Individual Slip

Line	Mat. Short Text	OK	Qty in UnE	E...	SLoc	Batch	Valuation ...	M...
1	magnetostrictive material ribbon	<input checked="" type="checkbox"/>	92,000	EA	Raw Material Inv			101
2	bias material ribbon for tag and label	<input checked="" type="checkbox"/>	46,000	EA	Raw Material Inv			101

Material | **Quantity** | Where | Purchase Order Data | Partner

Qty in Unit of Entry: 92,000 EA
 Qty in SKU: 92,000 EA
 Qty in Delivery Note: | |
 Quantity Ordered: 92,000 EA

Item OK | Line: 1

Goods Receipt Purchase Order 450000227 - BPI-030

Show Overview | Hold | Check | Post | Help

Goods Receipt | Purchase Order | GR goods receipt | 101

General | Vendor

Document Date: 11/12/2013 | Delivery Note: | Vendor: The Best Project Material CO.0
 Posting Date: 11/12/2013 | Bill of Lading: | HeaderText: |
 Individual Slip

Line	Mat. Short Text	OK	Qty in UnE	E...	SLoc	Batch	Valuation ...	M...
1	formed cavity for labelassy030	<input checked="" type="checkbox"/>	35,000	EA	Raw Material Inv			101
2	adhesive film for labelassy030	<input checked="" type="checkbox"/>	35,000	EA	Raw Material Inv			101

Material | **Quantity** | Where | Purchase Order Data | Partner

Qty in Unit of Entry: 35,000 EA
 Qty in SKU: 35,000 EA
 Qty in Delivery Note: | |
 Quantity Ordered: 35,000 EA

Item OK | Line: 1

7.6.9 Post invoice receipt for your new vendor (MIRO)

Enter Incoming Invoice: Company Code C030

Show PO structure Show worklist Messages

Transaction Invoice Balance 0.00 USD

Basic data Payment Details Tax Contacts Note

Invoice date 11/12/2013 Reference
 Posting Date 11/12/2013
 Amount 550.00 USD Calculate tax
 Tax amount XI (Input Tax)
 Text
 Paymt terms Due immediately
 Baseline Date 11/12/2013
 Company Code C030 Tyco Fire & Security Boca Raton

Vendor 0000100171
 Colorful Polymers International030
 201900 SHANGHAI
 CHINA

Purchase Order/Scheduling Agreement 4500000224 Goods/service items

Item	Amount	Quantity	O...	Purchase ...	Item	Smart Number	PO Text
1	286.00	11,000	EA	<input type="checkbox"/>	4500000224	10	top plast
2	264.00	11,000	EA	<input type="checkbox"/>	4500000224	20	bottom

Simulate Document in USD (Document currency)

Position	A G/L	Act/Mat/Ast/Vndr	Smart Number	Amount	Cu...	Purchasing...	It
1K	300030	Colorful Polymers Inter...		550.00	USD		
2S	310030	Goods Receipt / Invoic..		286.00	USD	4500000224	1
3S	310030	Goods Receipt / Invoic..		264.00	USD	4500000224	2

Enter Incoming Invoice: Company Code C030

Show PO structure Show worklist Messages

Transaction Invoice Balance 0.00 USD

Basic data Payment Details Tax Contacts Note

Invoice date 11/12/2013 Reference
 Posting Date 11/12/2013
 Amount 1,655.06 USD Calculate tax
 Tax amount XI (Input Tax)
 Text
 Paymt terms Due immediately
 Baseline Date 11/12/2013
 Company Code C030 Tyco Fire & Security Boca Raton

Vendor 0000100172
 Company
 Mega Machining Company030
 SEOUL 688-823
 SOUTH KOREA

Purchase Order/Scheduling Agreement 4500000225 Goods/service items

Item	Amount	Quantity	O...	Purchase ...	Item	Smart Number	PO Text
1	906.62	11,000	EA	<input type="checkbox"/>	4500000225	10	tag pin
2	748.44	11,000	EA	<input type="checkbox"/>	4500000225	20	tag secu

Simulate Document in USD (Document currency)

Position	A G/L	Act/Mat/Ast/Vndr	Smart Number	Amount	Cu...	Purchasing...	It
1K	300030	Mega Machining Comp...		1,655.06	USD		
2S	310030	Goods Receipt / Invoic..		906.62	USD	4500000225	1
3S	310030	Goods Receipt / Invoic..		748.44	USD	4500000225	2

Enter Incoming Invoice: Company Code C030

Show PO structure Show worklist Hold Messages Help

Transaction Invoice Balance 0.00 USD

Basic data | Payment | Details | Tax | Contacts | Note

Invoice date: 11/12/2013 Reference:
 Posting Date: 11/12/2013
 Amount: 366.16 USD Calculate tax
 Tax amount: XI (Input Tax)
 Text:
 Paymt terms: Due immediately
 Baseline Date: 11/12/2013
 Company Code: C030 Tyco Fire & Security Boca Raton

Vendor 0000100173
 Company: Rare Earth Alloys, LLC.030
 10319 BERLIN
 GERMANY

Purchase Order/Scheduling Agreement: 4500000226

Goods/service items:
 Layout: All information

Item	Amount	Quantity	O...	Purchase ...	Item	Smart Number	PO Text
1	255.76	92,000 EA	<input type="checkbox"/>	4500000226	10		magnete
2	110.40	46,000 EA	<input type="checkbox"/>	4500000226	20		bias mat

Simulate Document in USD (Document currency)

Position	A G/L	Act/Mat/Ast/Vndr	Smart Number	Amount	Cu...	Purchasing...	It
1 K	300030	Rare Earth Alloys, LLC...		366.16	USD		
2 S	310030	Goods Receipt / Invoic..		255.76	USD	4500000226	1
3 S	310030	Goods Receipt / Invoic..		110.40	USD	4500000226	2

Enter Incoming Invoice: Company Code C030

Show PO structure Show worklist Hold Messages Help

Transaction Invoice Balance 0.00 USD

Basic data | Payment | Details | Tax | Contacts | Note

Invoice date: 11/12/2013 Reference:
 Posting Date: 11/12/2013
 Amount: 372.89 USD Calculate tax
 Tax amount: XI (Input Tax)
 Text:
 Paymt terms: Due immediately
 Baseline Date: 11/12/2013
 Company Code: C030 Tyco Fire & Security Boca Raton

Vendor 0000100174
 The Best Project Material CO.030
 262100 SHANGDONG
 CHINA

Purchase Order/Scheduling Agreement: 4500000227

Goods/service items:
 Layout: All information

Item	Amount	Quantity	O...	Purchase ...	Item	Smart Number	PO Text
1	204.89	35,000 EA	<input type="checkbox"/>	4500000227	10		formed
2	168.00	35,000 EA	<input type="checkbox"/>	4500000227	20		adhesive

Simulate Document in USD (Document currency)

Position	A G/L	Act/Mat/Ast/Vndr	Smart Number	Amount	Cu...	Purchasing...	It
1 K	300030	The Best Project Mate..		372.89	USD		
2 S	310030	Goods Receipt / Invoic..		204.89	USD	4500000227	1
3 S	310030	Goods Receipt / Invoic..		168.00	USD	4500000227	2

7.6.10 Post payment to your new vendor (F-53)

Post Outgoing Payments Process open items

Distribute diff. Charge off diff. Editing options Cash Disc. Due

Standard Partial Pmt Res.items Withhldg tax

Account items 100171 Colorful Polymers International030

Document...	D.	Document...	P.	Bu...	Da...	USD Gross	Cash discnt	Cash...
5100000014	RE	11/12/2013	31		0	550.00-		

Editing status

Number of items	<input type="text" value="1"/>	Amount entered	<input type="text" value="550.00-"/>
Display from item	<input type="text" value="1"/>	Assigned	<input type="text" value="550.00-"/>
Reason code	<input type="text"/>	Difference postings	<input type="text"/>
Display in clearing currency		Not assigned	<input type="text" value="0.00"/>

Post Outgoing Payments Process open items

Distribute diff. Charge off diff. Editing options Cash Disc. Due

Standard Partial Pmt Res.items Withhldg tax

Account items 100172 Mega Machining Company030

Document...	D.	Document...	P.	Bu...	Da...	USD Gross	Cash discnt	Cash...
5100000015	RE	11/12/2013	31		0	1,655.06-		

Editing status

Number of items	<input type="text" value="1"/>	Amount entered	<input type="text" value="1,655.06-"/>
Display from item	<input type="text" value="1"/>	Assigned	<input type="text" value="1,655.06-"/>
Reason code	<input type="text"/>	Difference postings	<input type="text"/>
Display in clearing currency		Not assigned	<input type="text" value="0.00"/>

Post Outgoing Payments Process open items

Distribute diff. Charge off diff. Editing options Cash Disc. Due

Standard Partial Pmt Res.items Withhldg tax

Account items 100173 Rare Earth Alloys, LLC.030

Document...	D.	Document...	P.	Bu...	Da...	USD Gross	Cash discnt	Cash...
5100000016	RE	11/12/2013	31		0	366.16-		

Editing status

Number of items	<input type="text" value="1"/>	Amount entered	<input type="text" value="366.16-"/>
Display from item	<input type="text" value="1"/>	Assigned	<input type="text" value="366.16-"/>
Reason code	<input type="text"/>	Difference postings	<input type="text"/>
Display in clearing currency		Not assigned	<input type="text" value="0.00"/>

Post Outgoing Payments Process open items

Distribute diff. Charge off diff. Editing options Cash Disc. Due

Standard Partial Pmt Res.items Withhldg tax

Account items 100174 The Best Project Material CO.030

Document...	D.	Document...	P.	Bu...	Da...	USD Gross	Cash discnt	Cash...
5100000017	RE	11/12/2013	31	0		372.89-		

Editing status

Number of items: 1 Amount entered: 372.89-
 Display from item: 1 Assigned: 372.89-
 Reason code: Difference postings:
 Display in clearing currency: Not assigned 0.00

7.6.11 Convert planned orders to production order (MD04)

Production order Create: Header

Material Capacity

Order: \$00000000001 Type: PP01
 Material: LABELASSY030 Ultra Strip III Individual Label Pnt: P030
 Status: REL MACM SETC

General Assignment Goods Receipt Control Dates/Qties Master Data Long Text

Quantities

Total Qty: 30,000 EA Scrap portion: 0.00 \$
 Delivered: 0 ExpectYieldVar: 0

Dates

	BasicDates	Scheduled	Confirmd
Finish	02/21/2014 00:00	02/19/2014 13:55	
Start	11/12/2013 00:00	11/13/2013 08:00	00:00
Release		11/12/2013	

Scheduling Floats

Production order Create: Header

Material Capacity

Order: \$00000000001 Type: PP01
 Material: HARDTAGASSY030 SuperTag III Pnt: P030
 Status: REL MACM SETC

General Assignment Goods Receipt Control Dates/Qties Master Data Long Text

Quantities

Total Qty: 1,000 EA Scrap portion: 0.00 \$
 Delivered: 0 ExpectYieldVar: 0

Dates

	BasicDates	Scheduled	Confirmd
Finish	11/20/2013 00:00	11/18/2013 20:00	
Start	11/13/2013 00:00	11/14/2013 14:21	00:00
Release		11/13/2013	11/12/2013

Scheduling Floats

7.6.12 Make goods issue to production order (MB1A)

Enter Goods Issue: Overview

To Reservation... To Order...

Posting Date: 11/12/2013

Item	Quantity	EU	Material	Plnt	SLoc	Batch	Re	MvT	S	S
			BUn Material Description				Reserv.No.	Itm	FI	
1	30,000	EA	LABELCAVITY030	P030	30			261	-	
			formed cavity for labelassy030			2753	1			
2	60,000	EA	MAGRIBBON030	P030	30			261	-	
			magnetostrictive material ribbon			2753	2			
3	30,000	EA	BIASRIB030	P030	30			261	-	
			bias material ribbon for tag and label			2753	3			
4	30,000	EA	LABELADHESIVE030	P030	30			261	-	
			adhesive film for labelassy030			2753	4			

Enter Goods Issue: Overview

To Reservation... To Order...

Posting Date: 11/12/2013

Item	Quantity	EU	Material	Plnt	SLoc	Batch	Re	MvT	S	S
			BUn Material Description				Reserv.No.	Itm	FI	
1	1,000	EA	TAGTOPHOUSE030	P030	30			261	-	
			top plastic part for hardtagassy030			2751	1			
2	1,000	EA	TAGBOTHOUSE030	P030	30			261	-	
			bottom plastic part for hardtagassy0...			2751	2			
3	2,000	EA	MAGRIBBON030	P030	30			261	-	
			magnetostrictive material ribbon			2751	3			
4	1,000	EA	BIASRIB030	P030	30			261	-	
			bias material ribbon for tag and label			2751	4			
5	1,000	EA	TAGPINSRING030	P030	30			261	-	
			tag pin spring for hardtagassy030			2751	5			
6	1,000	EA	TAGSECURITYPIN030	P030	30			261	-	
			tag security pin for hardtagassy0303			2751	6			

7.6.13 Confirm production completion (CO15)

Confirmation of Production Order Enter : Actual Data

Goods Movements

Order: 1000112 Status: REL PRC CSER GMPS MACM SETC
 Material Number: LABELASSY030 Ultra Strip III Individual Label

Confirmation Type
 Partial Confirm. Final Confirm. Aut. Final Conf. Clear Reservation

Actual Data

	Current to Confirm	Unit	Confirmed to Date	Planned t/b Conf.	Unit
Yield to conf.	30000				
Confirmed scrap					
Rework					
Reason for Var.					
Personnel no.					

To Be Confirmed

Execution start	11/12/2013	17:59:09
Finish Execut.	11/12/2013	18:59:09
Posting date	11/12/2013	

Confirm. text: Long Text Exists

Confirmation of Production Order Enter : Actual Data

Goods Movements

Order: 1000113 Status: REL PRC GMPS MACM SETC
 Material Number: HARDTAGASSY030 SuperTag III

Confirmation Type
 Partial Confirm. Final Confirm. Aut. Final Conf. Clear Reservation

Actual Data

	Current to Confirm	Unit	Confirmed to Date	Planned t/b Conf.	Unit
Yield to conf.	1000				
Confirmed scrap					
Rework					
Reason for Var.					
Personnel no.					

To Be Confirmed

Execution start	11/12/2013	18:00:20
Finish Execut.	11/12/2013	19:00:20
Posting date	11/12/2013	

Confirm. text: Long Text Exists

7.6.14 Make goods receipt of finished goods from production order (MB31)

Goods Receipt for Order: Overview 0001 / 0001

To Order...

Posting Date: 11/12/2013

Item	Quantity	EUn	Material	Plnt	SLoc	Order	C
		BUn	Material Description			Batch	Re MvT S S
1	30,000	EA	LABELASSY030	P030	10	1000112	<input checked="" type="checkbox"/>
			Ultra Strip III Individual Label				101 +

Goods Receipt for Order: Overview 0001 / 0001

To Order...

Posting Date: 11/12/2013

Item	Quantity	EUn	Material	Plnt	SLoc	Order	C
		BUn	Material Description			Batch	Re MvT S S
1	1,000	EA	HARDTAGASSY030	P030	10	1000113	<input checked="" type="checkbox"/>
			SuperTag III				101 +

7.6.15 Make production order costs settlement (CO02/KO88)

Orders: Actual/Plan/Variance

Orders: Actual/Plan/Variance Date: 11/12/2013 17:11:06 Page: 2 / 2

Order/Group: 1000112 000001000112
 Fiscal year: 2013
 Period: 1 - 11

Cost Elements	Actual	Plan	Var. (Abs.)	Var. (\$)
720030 Raw Mat. Consp/Exp	558.42	175.62	382.80	217.97
800030 Labor	19,501.82	3,481.00	16,020.82	460.24
* Costs	20,060.24	3,656.62	16,403.62	448.60
731030 Prod Ord Settle Exp	19,460.24-		19,460.24-	
* Settled Costs	19,460.24-		19,460.24-	
731030 Prod Ord Settle Exp	600.00-		600.00-	
* Deliveries to Stock	600.00-		600.00-	
** Balance		3,656.62	3,656.62-	100.00-

Orders: Actual/Plan/Variance

Orders: Actual/Plan/Variance Date: 11/12/2013 17:13:25 Page: 2 / 2

Order/Group 1000113 000001000113
 Fiscal year 2013
 Period 1 - 11

Cost Elements	Actual	Plan	Var. (Abs.)	Var. (\$)
720030 Raw Mat. Consp/Exp	208.42	208.42		
800030 Labor	885.20	885.20		
* Costs	1,093.62	1,093.62		
731030 Prod Ord Settle Exp	883.62-		883.62-	
* Settled Costs	883.62-		883.62-	
731030 Prod Ord Settle Exp	210.00-	210.00-		
* Deliveries to Stock	210.00-	210.00-		
** Balance		883.62	883.62-	100.00-

7.6.16 Create delivery notes (VL01N)

Outbound Delivery Create: Overview

Post Goods Issue

Outbound deliv. Document Date 11/12/2013
 Ship-to party 141 Earls Home Building Supplies // Charlotte NC 28203

Item Overview Picking Loading Transport Status Overview Goods Movement Data

Pick Date/Time 11/15/2013 00:0... OvrllPickStatus A Not yet picked
 Warehouse No. OverallWMStatus No WM trnsf ord req

Item	Material	Plnt	SLoc	Deliv. Qty	Un	Picked Qty	Un	Batch	B..	P	V	Stag. Date	Matl.
10	LABELASSY030	P030	10	10,000	EA		EA		<input checked="" type="checkbox"/>	A		11/15/2013 00:0	<input type="checkbox"/>
20	HARDTAGASSY030	P030	10	5,000	EA		EA		<input checked="" type="checkbox"/>	A		11/15/2013 00:0	<input type="checkbox"/>

Outbound Delivery Create: Overview

Post Goods Issue

Outbound deliv. Document Date 11/12/2013
 Ship-to party 142 Hyper Mart Corporation 030 / 300 Tanger Blvd / Branson MO 65616

Item Overview Picking Loading Transport Status Overview Goods Movement Data

Pick Date/Time 11/16/2013 00:0... OvrllPickStatus A Not yet picked
 Warehouse No. OverallWMStatus No WM trnsf ord req

Item	Material	Plnt	SLoc	Deliv. Qty	Un	Picked Qty	Un	Batch	B..	P	V	Stag. Date	Matl.
10	LABELASSY030	P030	10	20,000	EA		EA		<input checked="" type="checkbox"/>	A		11/16/2013 00:0	<input type="checkbox"/>
20	HARDTAGASSY030	P030	10	5,000	EA		EA		<input checked="" type="checkbox"/>	A		11/16/2013 00:0	<input type="checkbox"/>

7.6.17 Pick and make goods issue (VL02N)

Outbound Delivery 80000124 Change: Overview

Post Goods Issue

Outbound deliv. 80000124 Document Date 11/12/2013
 Ship-to party 141 Earls Home Building Supplies // Charlotte NC 28203

Item Overview Picking Loading Transport Status Overview Goods Movement Data

Pick Date/Time 11/15/2013 00:00:00 OvrllPickStatus A Not yet picked
 Warehouse No. OverallWMStatus No WM trnsf ord reqd

Item	Material	Pint	SLoc	Delv. Qty	Un	Picked Qty	Un	Batch	B..	P	V	Stag. Date	Matl.
10	LABELASSY030	P030	10	10,000	EA	10000	EA			A		11/15/2013	00:00
20	HARDTAGASSY030	P030	10	5,000	EA	5000	EA			A		11/15/2013	00:00

Outbound Delivery 80000125 Change: Overview

Post Goods Issue

Outbound deliv. 80000125 Document Date 11/12/2013
 Ship-to party 142 Hyper Mart Corporation 030 / 300 Tanger Blvd / Branson MO 65616

Item Overview Picking Loading Transport Status Overview Goods Movement Data

Pick Date/Time 11/16/2013 00:00:00 OvrllPickStatus A Not yet picked
 Warehouse No. OverallWMStatus No WM trnsf ord reqd

Item	Material	Pint	SLoc	Delv. Qty	Un	Picked Qty	Un	Batch	B..	P	V	Stag. Date	Matl.
10	LABELASSY030	P030	10	20,000	EA	20000	EA			A		11/16/2013	00:00
20	HARDTAGASSY030	P030	10	5,000	EA	5000	EA			A		11/16/2013	00:00

7.6.18 Bill your new customer (VF01)

Invoice (F2) Create: Overview of Billing Items

Billing documents

Invoice \$000000001 Net Value 3,650.00 USD
 Payer 141 Earls Home Building Supplies // US - 28203 Charlotte
 Billing Date 11/12/2013

Item	Description	Billed Quantity	SU	Net value	Material	Cost
10	Ultra Strip III Individual Label	10,000 EA		500.00	LABELASSY030	200.00
20	SuperTag III	5,000 EA		3,150.00	HARDTAGASSY030	1,050.00

Invoice (F2) Create: Overview of Billing Items

Billing documents

Invoice \$000000001 Net Value 3,572.00 USD
 Payer 142 Hyper Mart Corporation 030 / 300 Tanger Blvd / US - ...
 Billing Date 11/12/2013

Item	Description	Billed Quantity	SU	Net value	Material	Cost
10	Ultra Strip III Individual Label	20,000 EA		950.00	LABELASSY030	400.00
20	SuperTag III	5,000 EA		2,622.00	HARDTAGASSY030	1,050.00

7.6.19 Post payment (F-28)

Post Incoming Payments Process open items

Distribute diff.
 Charge off diff.
 Editing options
 Cash Disc. Due
 Create Dispute Case

Standard | Partial Pmt | Res.items | Withhldg tax

Account items 141 Earls Home Building Supplies

Document...	D..	Document...	P..	Bu...	Da...	USD Gross	Cash discnt	Cash...
90000007	RV	11/12/2013	01		0	3,650.00		

Editing status

Number of items	1	Amount entered	3,650.00
Display from item	1	Assigned	3,650.00
Reason code		Difference postings	
Display in clearing currency		Not assigned	0.00

Post Incoming Payments Process open items

Distribute diff.
 Charge off diff.
 Editing options
 Cash Disc. Due
 Create Dispute Case

Standard | Partial Pmt | Res.items | Withhldg tax

Account items 142 Hyper Mart Corporation 030

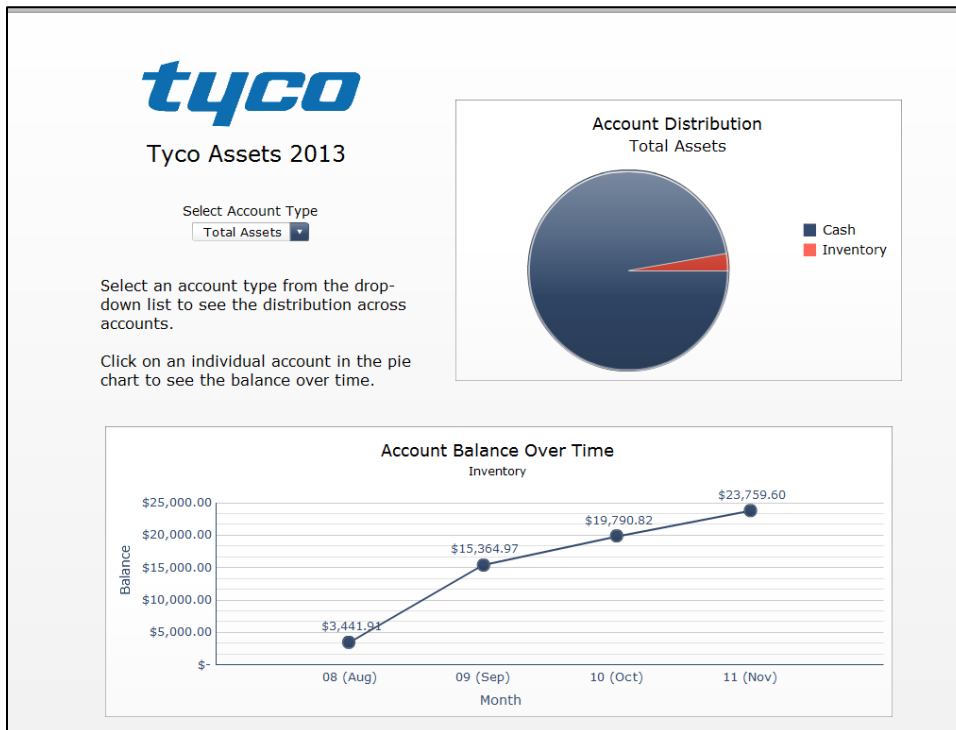
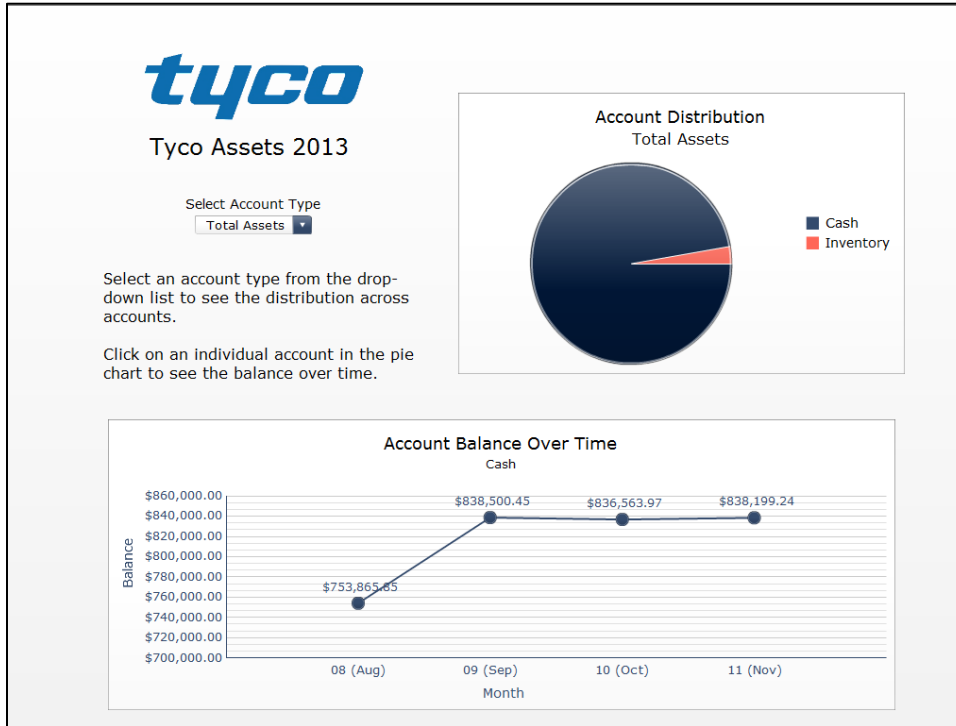
Document...	D..	Document...	P..	Bu...	Da...	USD Gross	Cash discnt	Cash...
90000008	RV	11/12/2013	01		0	3,572.00		

Editing status

Number of items	1	Amount entered	3,572.00
Display from item	1	Assigned	3,572.00
Reason code		Difference postings	
Display in clearing currency		Not assigned	0.00

7.6.20 Use Crystal Dashboard to show your cash, inventory of your assets

The following screenshots show the different views available through the two Dashboard designs.





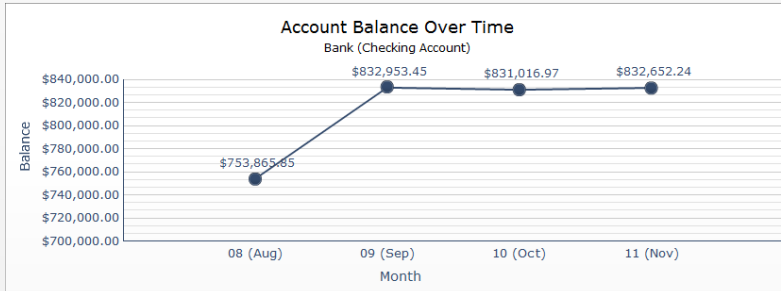
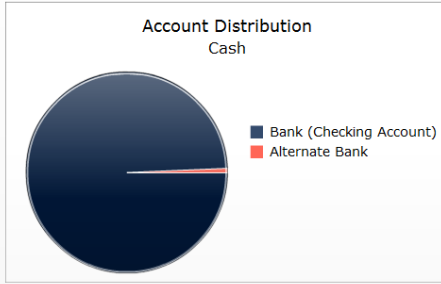
Tyco Assets 2013

Select Account Type

Cash

Select an account type from the drop-down list to see the distribution across accounts.

Click on an individual account in the pie chart to see the balance over time.



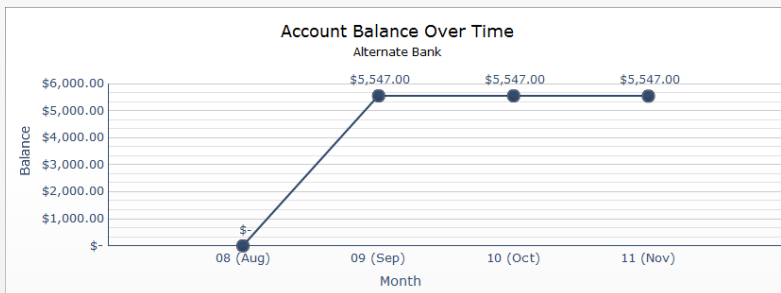
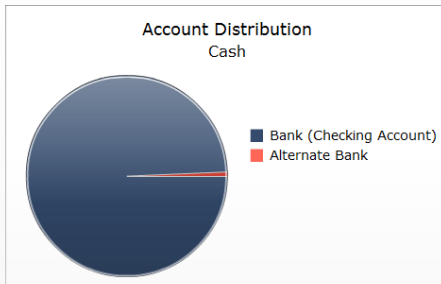
Tyco Assets 2013

Select Account Type

Cash

Select an account type from the drop-down list to see the distribution across accounts.

Click on an individual account in the pie chart to see the balance over time.





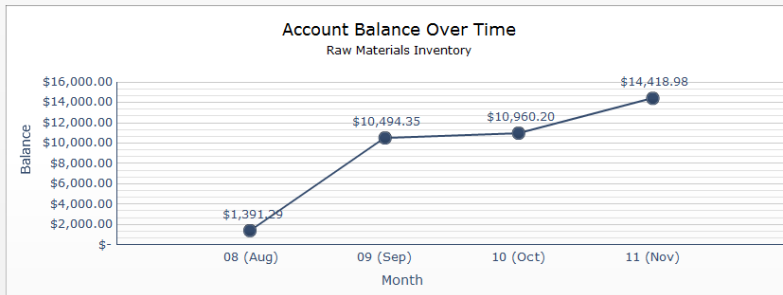
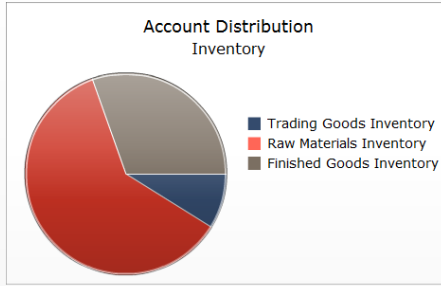
Tyco Assets 2013

Select Account Type

Inventory

Select an account type from the drop-down list to see the distribution across accounts.

Click on an individual account in the pie chart to see the balance over time.



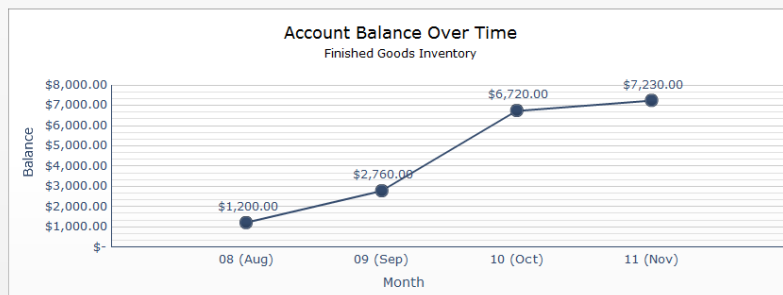
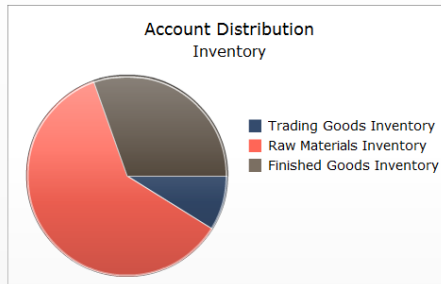
Tyco Assets 2013

Select Account Type

Inventory

Select an account type from the drop-down list to see the distribution across accounts.

Click on an individual account in the pie chart to see the balance over time.



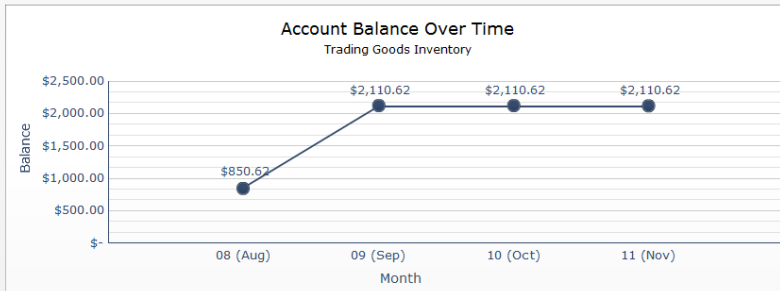
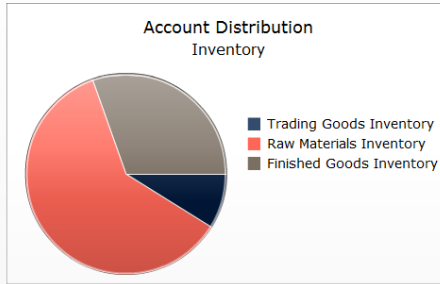


Tyco Assets 2013

Select Account Type
Inventory

Select an account type from the drop-down list to see the distribution across accounts.

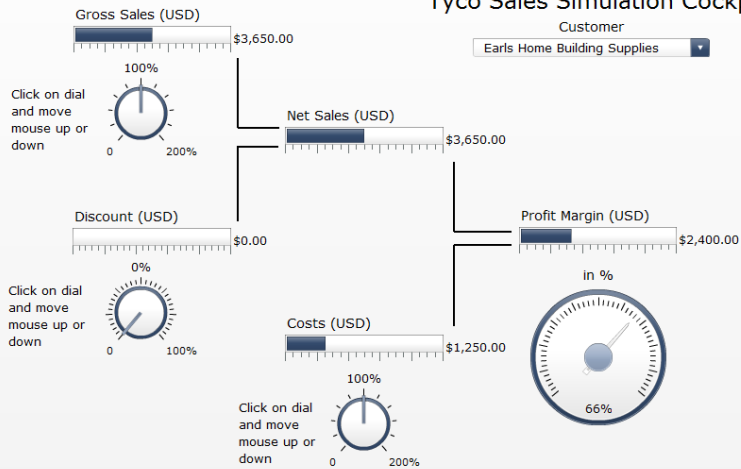
Click on an individual account in the pie chart to see the balance over time.



Tyco Sales Simulation Cockpit

Customer

Earls Home Building Supplies

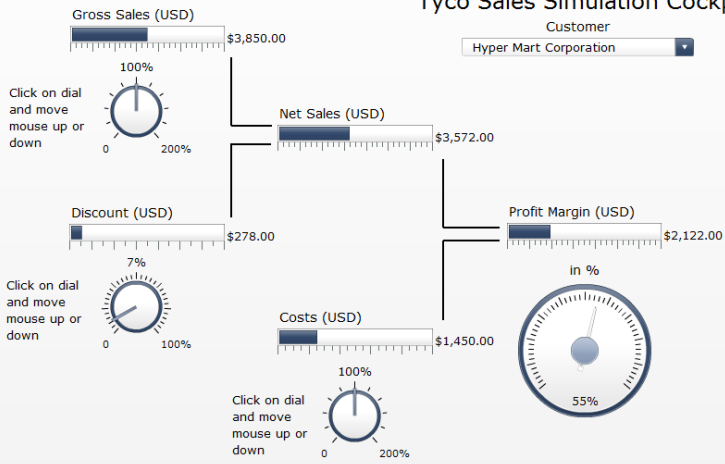




Tyco Sales Simulation Cockpit

Customer

Hyper Mart Corporation



Appendix: List of T-Codes

The following transaction codes were used in the SAP implementation and operation.

T-Code	Description	Module
CA01	Create routing	PP
CO02	Change production order	PP
CO15	Enter production order confirmation	PP
CR02	Change work center	PP
CR12	Change capacity	PP
CS01	Create material BOM	MM
F-28	Post incoming payments	FI
F-53	Post outgoing payments	FI
FD32	Change customer credit management	FI
KO88	Actual settlement: order	CO
KP26	Change plan data for activity types	CO
MB1A	Goods withdrawal	MM
MB31	Goods receipt for production order	MM
MC75	Transfer PG to demand management	PP
MC82	Sales and operations planning	PP
MC86	Change product groups	PP
MD04	Display stock/requirements situation	PP
MD40	MPS	PP
ME01	Maintain source list	MM
ME11	Create purchasing info record	MM
ME21N	Create purchase order	MM
MIGO	Goods movement	MM
MIRO	Enter incoming invoice	MM
MM01	Create material	MM
MMF1	Create finished product	MM
MMR1	Create raw material	MM
SPRO	Customizing - edit project	--
VA01	Create sales order	SD
VA21	Create quotation	SD
VF01	Create billing document	SD
VK31	Condition maintenance	SD
VL01N	Create outbound delivery	PP
VL02N	Change outbound delivery	PP
XD01	Create customer centrally	FI
XK01	Create vendor centrally	FI