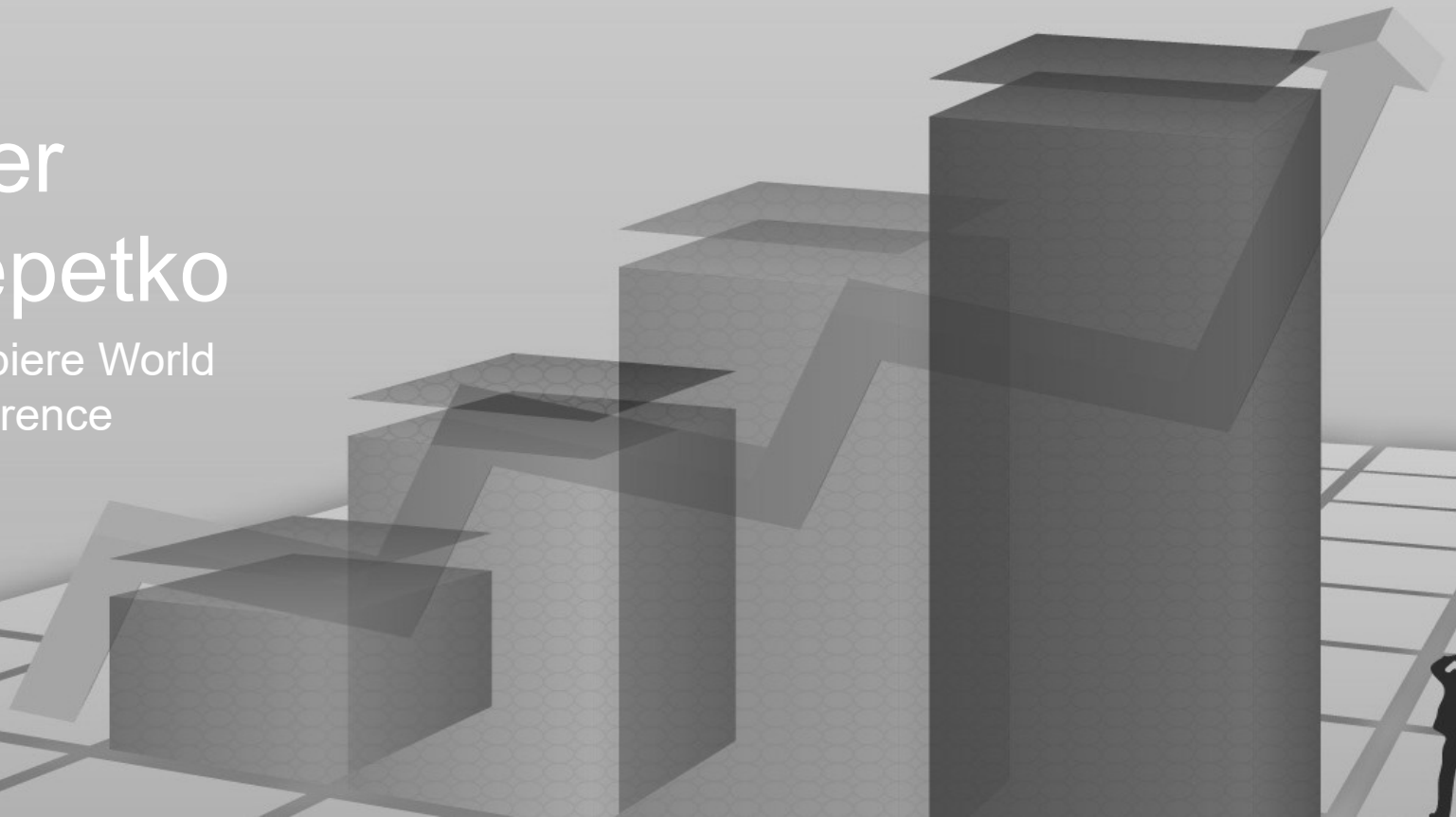




IDEMPIERE PLANNING EXTENSIONS

Peter
Shepetko

iDempiere World
Conference
2019
Lyon

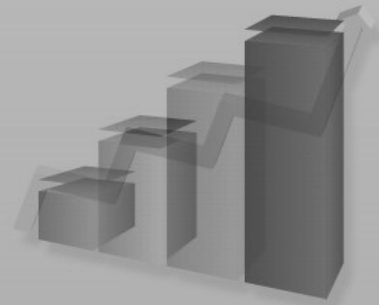




ABOUT ME

Peter Shepetko from Ukraine, Kiev.

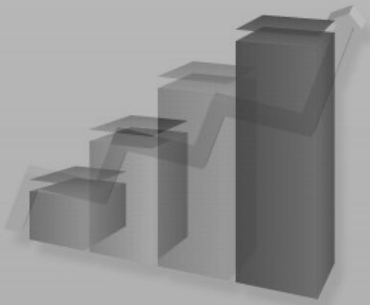
- ***ERP Consultant*** in Oracle partner's company.
Oracle eBusiness Suite modules :
 - Fixed Assets
 - Cash Management
 - Enterprise Asset Management
 - Transport Management (*old module*)
- ***Senior WMS Consultant*** in Oracle, Aldata partner's company.
Gold Stock WMS system.
- ***Project Manager / ERP Consultant / Developer***
****Dempiere ERP Business Suite.***





WHAT ARE THE EXTENSIONS?

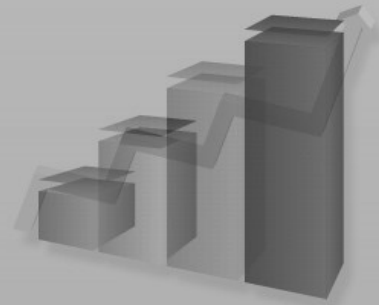
- **Libero Manufacturing Plugin**
 - Manufacturing management
 - Maintenance management
 - Distribution management
- **Transport Management Plugin**
 - Transport management
- **Cash Forecasting Report Plugin**
 - Cash Flow (In/Out) Planning





WHO NEED THAT?

- **Implementation companies**
- **Clients:**
 - - *Manufacturing companies*
 - - *Maintenance companies*
 - - *Transport companies*
 - - *Trading companies*
 - - *Distribution companies*
 - - *and etc.*

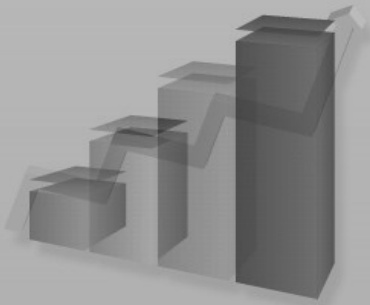




WHAT WILL THAT GIVE THEM?

**Answers to a Resources planning questions [What?Where?When?]
for:**

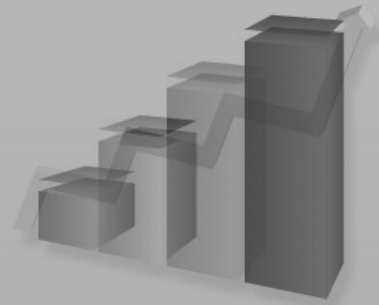
- Finished Products
- Semi-finished Products
- Raw materials
- Resources
- Transports
- Cash Flows
- Costing





WHY NOW?

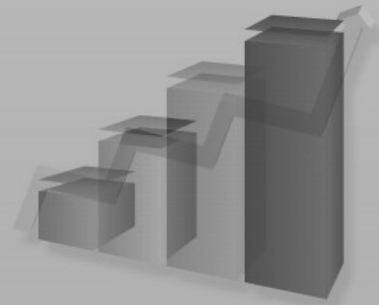
- **High interest to planning:**
 - from a Users of iDempiere
 - from a Members of Community
- **Plugins TMS and Cash Planning Report developed and integrated**
- **The Libero Manufacturing Team was organize**
- **Demo server created**





LIBERO MANUFACTURING

- Team
 - Redhuan Daniel Oon
 - Chuck Boecking
 - Peter Shepetko
 - Deepak Pansheriya
 - Edwin Ang
 - Ferry Irawan
 - Azzam Ahmad Othman
 - Nanang Agus Wijaya
 - Mohamed Dernouna
 - Pierre Ammoun
 - Dmitry Oxenenko
- Groups google: Libero Manufacturing for iDempiere
- Demo server: <http://www.erp4b.pro>
- Road Map:
<https://bitbucket.org/pshepetko/org.libero.mfg62/wiki/Roadmap>

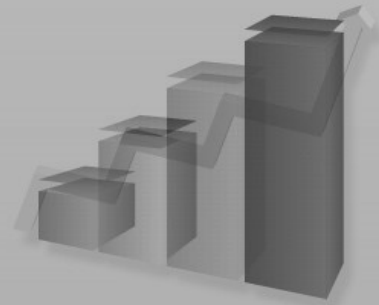




LIBERO MANUFACTURING

- **History**

- Libero Manufacturing (LiberomFG) is another important and huge contribution from Victor Perez of e-Evolution, Mexico during the ADempiere project.
- Beginning 2007 RED1 supported and he helped to edit the English instruction guide.
- Sponsored by SYSNOVA, RED1 tested LiberoMFG and migrated as a free OSGi plugin for iDempiere and he supported it up to version 4.1.
- We migrated to iDempiere v6.2.

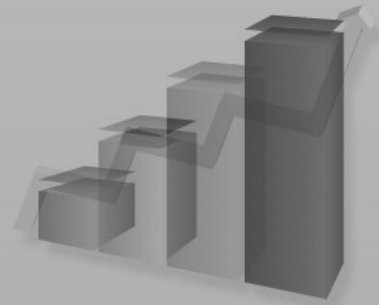




LIBERO MANUFACTURING:

Setting

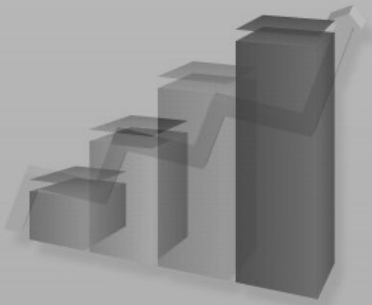
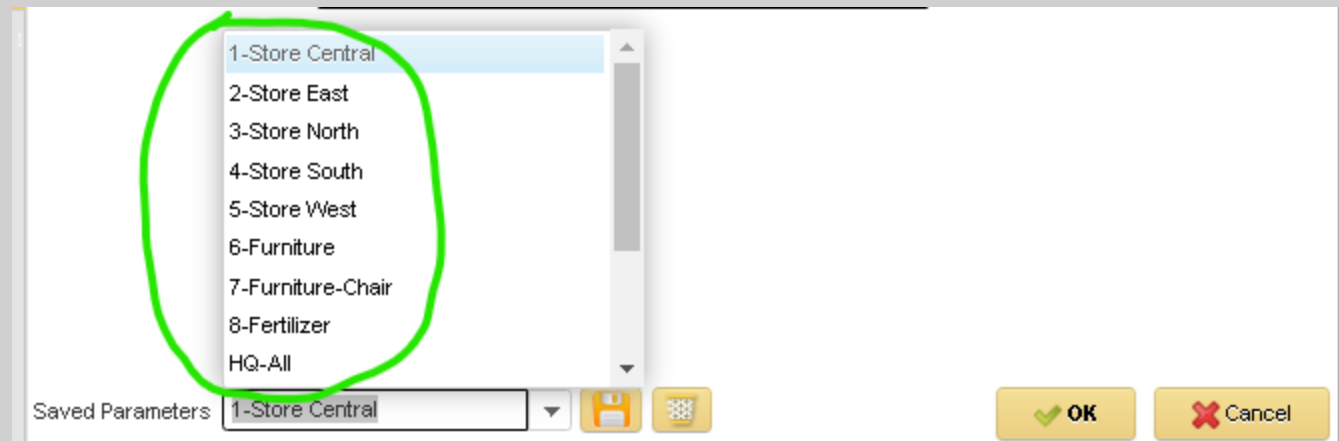
- Organizations and Warehouses
- Resources
- Products
- Business partners
- Bill of materials
- Activities (WorkFlows)
- Distribution networks
- Products planning
- Costing





LIBERO MANUFACTURING: *Run Processes*

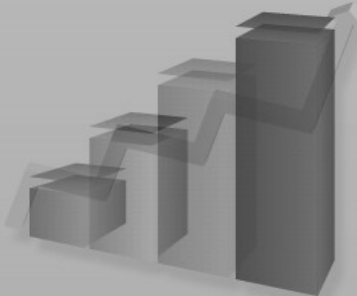
- Calculate Low Level
- Create Record MRP
- Calculate Material Plan for Plants





LIBERO MANUFACTURING: *Distribution Orders*

- Distribution Orders *for Demand Finished Products*
- Distribution Orders *for Demand Semi-finished Products*
- Distribution Orders *for Demand Raw materials*



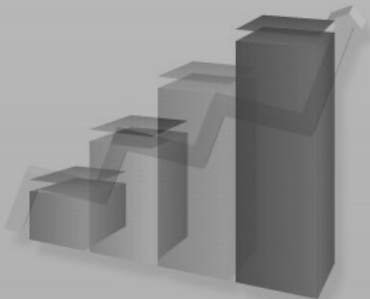
DatePromised	Locator	Locator To	Product	Ordered Quantity	Delivered Quantity	UOM	Organization	Document No
<input type="radio"/> 12/29/2019	HQ Raw materials-Fertilizer	Fertilizer	Bag25-Bag 25 Kg	3.00	0.00	Each	Fertilizer	89668
<input type="radio"/> 12/29/2019	HQ Raw materials-Furniture	Furniture-Chair	UltraGlue-Ultra Glue	4,600.00	0.00	Each	Furniture-Chair	89614
<input type="radio"/> 12/29/2019	HQ Raw materials-Furniture	Furniture-Chair	Screw-#6-32 x 3/8 Socket Head Cap Screw	64.00	0.00	Each	Furniture-Chair	89614
<input type="radio"/> 01/01/2020	Furniture	Default Store Locator	PatioSet-Patio Furniture Set	1.00	0.00	Each	Store Central	89562
<input type="radio"/> 01/02/2020	Fertilizer	Default Store Locator	Fertilizer#70-Fertilizer #70	2.00	0.00	Each	Store Central	89570



LIBERO MANUFACTURING: *Manufacturing Orders*

- Manufacturing Orders *for Supply of Finished Products*
- Manufacturing Orders *for Supply of Semi-finished Products*

	Organization	Document No	Date Promised	Active	Product	Quantity	UOM	Target Document Type	Description
<input type="checkbox"/>	Fertilizer	81691	04/27/2020 12:00:00 AM	<input checked="" type="checkbox"/>	Fertilizer#50-Fertilizer #50	98	Each	Manufacturing Order	MO generated from MRP
<input type="checkbox"/>	Fertilizer	81692	03/27/2020 12:00:00 AM	<input checked="" type="checkbox"/>	Fertilizer#70-Fertilizer #70	38	Each	Manufacturing Order	MO generated from MRP
<input type="checkbox"/>	Fertilizer	81693	04/27/2020 12:00:00 AM	<input checked="" type="checkbox"/>	Fertilizer#70-Fertilizer #70	106	Each	Manufacturing Order	MO generated from MRP
<input type="checkbox"/>	Fertilizer	81694	12/29/2019 12:00:00 AM	<input checked="" type="checkbox"/>	Fertilizer#25-Fertilizer #25	3	Each	Manufacturing Order	MO generated from MRP
<input type="checkbox"/>	Fertilizer	81695	01/02/2020 12:00:00 AM	<input checked="" type="checkbox"/>	Fertilizer#25-Fertilizer #25	7	Each	Manufacturing Order	MO generated from MRP
<input type="checkbox"/>	Fertilizer	81696	01/06/2020 12:00:00 AM	<input checked="" type="checkbox"/>	Fertilizer#25-Fertilizer #25	11	Each	Manufacturing Order	MO generated from MRP





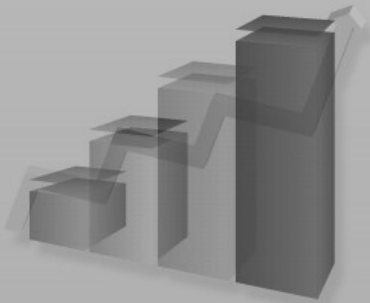
LIBERO MANUFACTURING: *Purchasing Requisition*

- Purchasing Requisitions *for Supply of Raw materials*
- Purchasing Requisitions *for Supply of Packing*

The screenshot displays a software interface for managing purchasing requisitions. The main window shows a list of requisitions sorted by 78 items. Below this, a detailed view of a requisition line is shown, including fields for Organization, Requisition, Line No, Business Partner, Product, UOM, Charge, and Quantity.

Organization	Date Required	Document Type	Document No	Warehouse	Price List	Total Lines	Document Status
HQ	12/09/2019	Purchase Requisition	904952	HQ Raw materials-Furniture	Purchase	6.00	Drafted
HQ	12/09/2019	Purchase Requisition	904984	HQ Raw materials-Furniture	Purchase	4.80	Drafted
HQ	12/14/2019	Purchase Requisition	904945	HQ Raw materials-Furniture	Purchase	20.00	Drafted

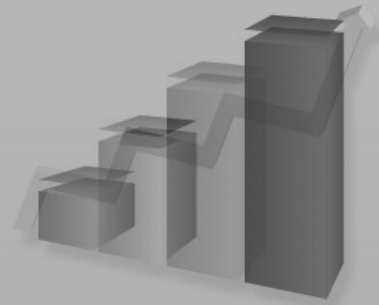
Organization	Requisition	Line No	Business Partner	Product	UOM	Charge	Quantity
HQ	904952_SuperUser	10	Wood, Inc	BackSupport_Back Support	Each		





LIBERO MANUFACTURING: *Production*

- Component Check
- Print & Release Order
- Order Receipt & Issue
- Activity Control
- Quality Management
- Cost Collector

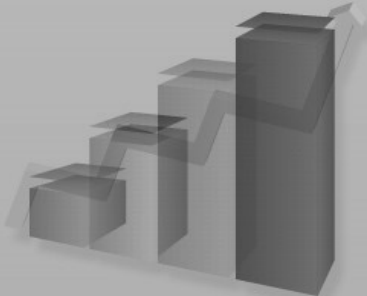




LIBERO MANUFACTURING: *Production*

- Cost BOM Multy Level Review

Levels	Product	Component Type	Quantity	UOM	Scrap %	Cost Element	Cost TL	Cost LL	Cost T	F Cost	F Cost LL	
0	PatioSet-Patio Furniture Set		1			Burden	1.00	0.00	1.00	1.00	0.00	No
0	PatioSet-Patio Furniture Set		1			Labor	2.00	0.00	2.00	2.00	0.00	No
0	PatioSet-Patio Furniture Set		1			Overhead	3.00	0.00	3.00	3.00	0.00	No
0	PatioSet-Patio Furniture Set		1			Outside Processing	0.00	0.00	0.00	0.00	0.00	No
0	PatioSet-Patio Furniture Set		1			Material	0.00	125.56	125.56	0.00	125.56	No
	PatioSet-Patio Furniture Set Σ						6.00	125.56	131.56	6.00	125.56	
	PTable-Patio Table Σ						54.00	0.00	54.00	54.00	0.00	
.1	PChair-Patio Chair	Component	4	Each	0.0	Burden	0.00	0.00	0.00	0.00	0.00	No
.1	PChair-Patio Chair	Component	4	Each	0.0	Labor	0.00	0.00	0.00	0.00	0.00	No
.1	PChair-Patio Chair	Component	4	Each	0.0	Overhead	0.00	0.00	0.00	0.00	0.00	No
.1	PChair-Patio Chair	Component	4	Each	0.0	Outside Processing	0.00	0.00	0.00	0.00	0.00	No
.1	PChair-Patio Chair	Component	4	Each	0.0	Material	0.00	13.39	53.56	0.00	13.39	No
	PChair-Patio Chair Σ						0.00	13.39	53.56	0.00	13.39	
..2	PBackLeg-Assembly Back Leg	Phantom	1	Each	0.0	Burden	0.00	0.00	0.00	0.00	0.00	No
..2	PBackLeg-Assembly Back Leg	Phantom	1	Each	0.0	Labor	0.00	0.00	0.00	0.00	0.00	No
..2	PBackLeg-Assembly Back Leg	Phantom	1	Each	0.0	Overhead	0.00	0.00	0.00	0.00	0.00	No
..2	PBackLeg-Assembly Back Leg	Phantom	1	Each	0.0	Outside Processing	0.00	0.00	0.00	0.00	0.00	No
..2	PBackLeg-Assembly Back Leg	Phantom	1	Each	0.0	Material	0.05	0.00	0.05	0.05	0.00	No
	PBackLeg-Assembly Back Leg Σ						0.05	0.00	0.05	0.05	0.00	
...3	BackLeg-Back Leg	Component	2	Each	0.0	Burden	0.00	0.00	0.00	0.00	0.00	No
...3	BackLeg-Back Leg	Component	2	Each	0.0	Labor	0.00	0.00	0.00	0.00	0.00	No
...3	BackLeg-Back Leg	Component	2	Each	0.0	Overhead	0.00	0.00	0.00	0.00	0.00	No
...3	BackLeg-Back Leg	Component	2	Each	0.0	Outside Processing	0.00	0.00	0.00	0.00	0.00	No
...3	BackLeg-Back Leg	Component	2	Each	0.0	Material	0.10	0.00	0.20	0.10	0.00	No
	BackLeg-Back Leg Σ						0.10	0.00	0.20	0.10	0.00	
Σ							78.85	138.95	374.37	78.85	138.95	





LIBERO MANUFACTURING: *Maintenance*

- Preventative Maintenance tab added to Asset Window
- Rule definition

Preventative Maintenance Rule

Date Rule (example by every X days) ▼

Date Rule (example by every X days)

List of date (example by fixed dates)

Meter rules (example by every 1000 km)

Home Asset Info x Asset: asset001 Packing Pr... x

Asset > Preventative Maintenance ▼

Data requested

Client* GardenWorld Organization* *

Asset* asset-001_Packing Production Line Product Planning Packing Production Line_Packing Production Line_1 ▼

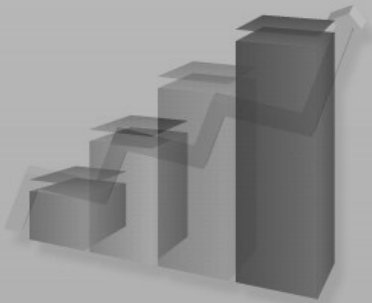
Preventative Maintenance Rule Date Rule (example by every X days) ▼

Units by Cycles 30.0 UOM Day

Description Need maintenance every 30 days

Valid from 01/01/2019 Valid to

Active





LIBERO MANUFACTURING: *Maintenance*

- Asset Info Window

iDempiere Open Source ERP System fore

GardenAdmin@GardenWorld.*/GardenWorld_Admin
[Feedback](#) | [Preference](#) | [Change Role](#) | [Log Out](#)

>> Home **Asset Info** x

Search Key Business Partner Product All / Any

Name

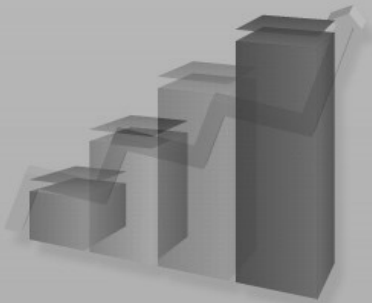
<input checked="" type="checkbox"/>	Search Key	Name	Product	Business Partner	User/Contact	In Service Date	Guarantee Date	Version
<input checked="" type="checkbox"/>	asset001	Packing Production Line	Packing Production Line_Packing Production Li...					

Related Information

Preventative Maintenance Info | [Forecast Info](#) | [Maintenance Orders Info](#) | [Maintenance BOM Info](#) | [Maintenance Activity Info](#)

Description	Preventative Maintenance Rule	Units by Cycles	UOM	Rate	Valid from	Valid to
Need maintenance every 30 days	Date Rule (example by every X days)	30.00	Day	0.00	01/01/2019	

Selected 1 rows 1 Rows found - Enter query criteria (optionally with %) 1





LIBERO MANUFACTURING: *Maintenance*

- Maintenance BOM Info tab

Related Information

Preventative Maintenance Info Forecast Info Maintenance Orders Info **Maintenance BOM Info** Maintenance Activity Info

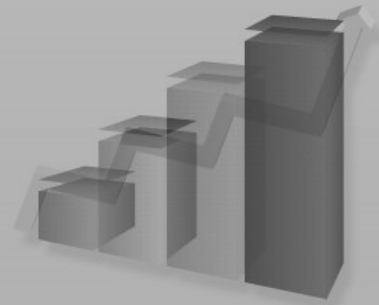
Date Promised	Component	Qty Required	Delivered Quantity	UOM	Warehouse
01/31/2020	spare part_Spare part	1.00	0.00	Each	Fertilizer
03/01/2020	spare part_Spare part	1.00	0.00	Each	Fertilizer
03/31/2020	spare part_Spare part	1.00	0.00	Each	Fertilizer
04/30/2020	spare part_Spare part	1.00	0.00	Each	Fertilizer

- Maintenance Activity Info tab

Related Information

Preventative Maintenance Info Forecast Info Maintenance Orders Info Maintenance BOM Info **Maintenance Activity Info**

Date Promised	Name	Resource	Business Partner	HR Requirement	Duration	Cost	Date Start Schedule	Date Finish Schedule	Employee
01/31/2020	Activity 1	Fertilizer Plant		Requirement for Operator 1	1	0.00			<input checked="" type="checkbox"/>
01/31/2020	Activity 2	Fertilizer Plant		Requirement for Operator 2	1	0.00			<input checked="" type="checkbox"/>
03/01/2020	Activity 1	Fertilizer Plant		Requirement for Operator 1	1	0.00			<input checked="" type="checkbox"/>
03/01/2020	Activity 2	Fertilizer Plant		Requirement for Operator 2	1	0.00			<input checked="" type="checkbox"/>





LIBERO MANUFACTURING: *Maintenance*

- Purchasing Requisitions *for Supply of Spare parts*

Home Asset Info x Requisition: 903812 x

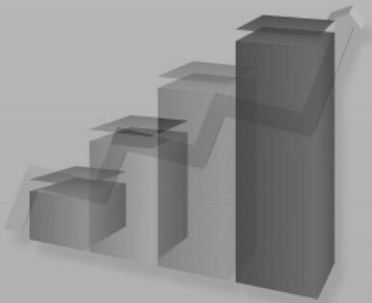
Sorted: #72

<input type="checkbox"/>	Date Required	Organization	Document Type	Document No	Document Date	Warehouse	Price List	Total Lines	Document
<input checked="" type="checkbox"/>	01/31/2020	HQ	Purchase Requisition	903804	10/05/2019	HQ Raw materials-Fertilizer	Purchase	1.00	Drafted
<input type="checkbox"/>	01/31/2020	HQ	Purchase Requisition	903795	10/05/2019	HQ Raw materials-Fertilizer	Purchase	1.00	Drafted
<input type="checkbox"/>	01/31/2020	HQ	Purchase Requisition	903786	10/05/2019	HQ Raw materials-Fertilizer	Purchase	1.00	Drafted
<input type="checkbox"/>	01/31/2020	HQ	Purchase Requisition	903777	10/05/2019	HQ Raw materials-Fertilizer	Purchase	1.00	Drafted
<input type="checkbox"/>	01/31/2020	HQ	Purchase Requisition	903768	10/05/2019	HQ Raw materials-Fertilizer	Purchase	1.00	Drafted
<input type="checkbox"/>	01/31/2020	HQ	Purchase Requisition	903759	10/05/2019	HQ Raw materials-Fertilizer	Purchase	1.00	Drafted
<input type="checkbox"/>	01/31/2020	HQ	Purchase Requisition	903750	10/05/2019	HQ Raw materials-Fertilizer	Purchase	1.00	Drafted
<input type="checkbox"/>	01/31/2020	HQ	Purchase Requisition	903741	10/05/2019	HQ Raw materials-Fertilizer	Purchase	1.00	Drafted

Requisition Line Purchase Orders

1 Records

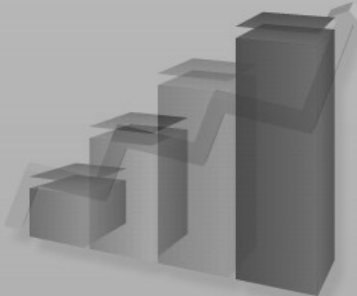
<input type="checkbox"/>	Organization	Requisition	Line No	Business Partner	Product	UOM	Charge	Quantity	Unit Price
<input checked="" type="checkbox"/>	HQ	903804_GardenAdmin	10	Chrome, Inc	spare part_Spare part	Each		1	





CASH FORECASTING REPORT

- Calendar Definition
- Template Definition
- Create Report



Home | Cash Forecasting Template: ... x | **Report: Cash Forecasting** x | Create Cash Forecasting Rec... x

Report: Cash Forecasting

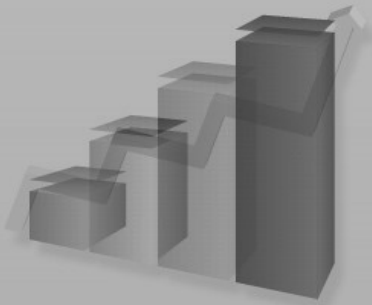
HTML | Cash Forecasting | Summary | [Icons]

Sequence	Search Key	Name	Amt	Balance	Cash Forecasting Period
0.0	Opening Balance	Calculating Balance		148.00	
1.0	Opening Balance	Calculating Balance		148.00	01-20
1.1	InFlow	Sales Order	69,864.00	70,012.00	01-20
1.2	OutFlow	Purchase Requisition	-34,686.536	35,325.464	01-20
1.3	Ending Balance	Calculating Balance		35,325.464	01-20
			35,177.464		01-20 Σ
2.0	Opening Balance	Calculating Balance		35,325.464	02-20
2.1	InFlow	Sales Order	63,553.00	98,878.464	02-20
2.2	OutFlow	Purchase Requisition	-20,576.452	78,302.012	02-20
2.3	Ending Balance	Calculating Balance		78,302.012	02-20
			42,976.548		02-20 Σ
3.0	Opening Balance	Calculating Balance		78,302.012	03-20
3.1	InFlow	Sales Order	72,751.00	151,053.012	03-20
3.2	OutFlow	Purchase Requisition	-20,477.268	130,575.744	03-20
3.3	Ending Balance	Calculating Balance		130,575.744	03-20
			52,273.732		03-20 Σ
4.0	Opening Balance	Calculating Balance		130,575.744	04-20
4.1	InFlow	Sales Order	71,728.00	202,303.744	04-20
4.2	OutFlow	Purchase Requisition	-19,217.367	183,086.377	04-20
4.3	Ending Balance	Calculating Balance		183,086.377	04-20



TRANSPORT MANAGEMENT

- **Setting:**
 - Business Partners Definition
 - Transport Units Definition
 - Vehicles Definition
 - Drivers Definition
 - Transport License Definition
 - Transport Requirement





TRANSPORT MANAGEMENT

- Setting:
 - Freight Calculation Methods

The screenshot displays a software interface for configuring freight calculation methods. It features a browser-like window with a toolbar and two main data tables.

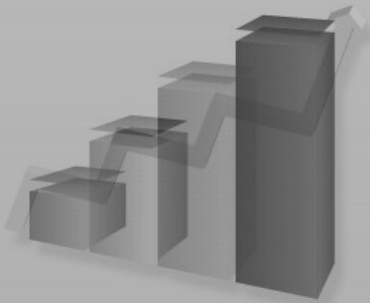
Freight Calculation Method Type

<input type="checkbox"/>	Orga	Search Key	Name	Description	Charge	Active	Comment/Help
<input type="checkbox"/>	*	SW	Standard Weight (SW)	Calculates the transportation charges based on the ...	Freight Service	<input checked="" type="checkbox"/>	For example, the rate is USD 10 and the calculation r...
<input checked="" type="checkbox"/>	*	BW	Break-Weight (BW)	Calculates the transportation charges by comparing...	Freight Service	<input checked="" type="checkbox"/>	Break-weight is the weight from which it is cheaper ...
<input type="checkbox"/>	*	CW	Clipping Weight(CW)	calculates the transportation charges by working th...	Freight Service	<input checked="" type="checkbox"/>	The system then totals up the calculation results fro...
<input type="checkbox"/>	*	ICC	Internal charge calculation (ICC)	Calculate transportation charges between organizat...	Freight Service	<input checked="" type="checkbox"/>	You can use internal agreements for internal charge...
<input type="checkbox"/>	*	SD	Standard - Length (SD)	Calculates the transportation charges based on the ...	Freight Service	<input checked="" type="checkbox"/>	For example, the rate is USD 50 and the calculation r...
<input type="checkbox"/>	*	FS	Fuel Surcharge (FS)	Calculates the transportation charges for Fuel.	Freight Fuel	<input checked="" type="checkbox"/>	For example, the rate is USD 10 and the calculation r...
<input type="checkbox"/>	*	SOC	Stop Off Costs (SOC)	Calculates the transportation charges for Stops.	Freight Service	<input checked="" type="checkbox"/>	For example, the rate is USD 10 and the calculation r...
<input type="checkbox"/>	*	DWR	Deficit weight rating (DWR)	Calculates the transportation charges for a weight ...	Freight Service	<input checked="" type="checkbox"/>	The system calculates the transportation charges fo...
<input type="checkbox"/>	*	ES	External system (ES)	Connects to an external system to determine the rat...	Freight Service	<input checked="" type="checkbox"/>	

Calculation Method Type Line

3 Records

<input type="checkbox"/>	Orga	Calculation Method	Quantity	UOM	Operation	Rate	Description	Active	Line No	Is Qty Percent
<input checked="" type="checkbox"/>	*	Break-Weight (BW)	100	kilogram	>=	10.0	>= 100 kg USD 10 per kg	<input checked="" type="checkbox"/>	1	<input type="checkbox"/>
<input type="checkbox"/>	*	Break-Weight (BW)	500	kilogram	>=	8.0	>= 500 kg USD 8 per kg	<input checked="" type="checkbox"/>	2	<input type="checkbox"/>
<input type="checkbox"/>	*	Break-Weight (BW)	1,000	kilogram	>=	6.0	>= 1000 kg USD 6 per kg	<input checked="" type="checkbox"/>	0	<input type="checkbox"/>








TRANSPORT MANAGEMENT

- Create OTRs process

» Home Create OTRs × ⤴ ?

Do you want to start the Process?

Date Promised*  

Delivery Via 




Sale Orders

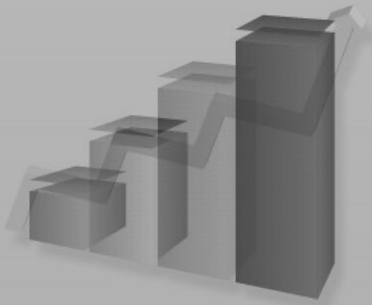
Purchasing Orders

Distribution Orders

Delete old/existing records

Run as Job

Saved Parameters   





TRANSPORT MANAGEMENT

- OTRs Info window

Home TMS:OTRs info x

Date Promised >= Date Promised <= Warehouse All / Any

Business Partner Product Freight Category

Vehicle Delivered

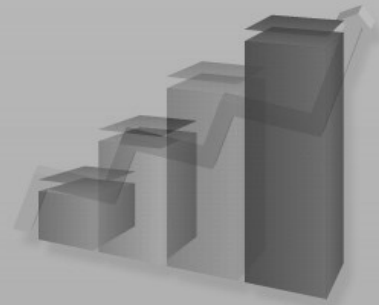
<input type="checkbox"/>	Date Promised	Date Promised	FU	Vehicle	Location From	Location To	Business Partner	Product	Ordered Quantity	Delivered Quantity	Delivered	UOM	Order Type	Descript
<input type="checkbox"/>	08/28/2020	08/28/2020	101000050000067	Truck 1	Munich	Munich	Fertilizer	spare part_Spare part	1.00	0.00	No	Each	DOO	line cr
<input type="checkbox"/>	09/27/2020	09/27/2020	101000050000068	Truck 1	Munich	Munich	Fertilizer	spare part_Spare part	1.00	0.00	No	Each	DOO	line cr
<input type="checkbox"/>	01/01/2020	01/01/2020	101040000003	Truck 1	Tangelwood	Hartford	Joe Block	PatioSet_Patio Furniture Set	1.00	0.00	No	Each	SOO	line cr
<input type="checkbox"/>	01/05/2020	01/05/2020	101040000008	Truck 1	Tangelwood	Hartford	Joe Block	PatioSet_Patio Furniture Set	5.00	0.00	No	Each	SOO	line cr
<input type="checkbox"/>	01/06/2020	01/06/2020	101040000011	Truck 1	Tangelwood	Hartford	Joe Block	Fertilizer#70_Fertilizer #70	6.00	0.00	No	Each	SOO	line cr
<input type="checkbox"/>	01/08/2020	01/08/2020	101040000013	Truck 1	Tangelwood	Hartford	Joe Block	Fertilizer#50_Fertilizer #50	8.00	0.00	No	Each	SOO	line cr
<input type="checkbox"/>	01/09/2020	01/09/2020	101040000015	Truck 1	Tangelwood	Hartford	Joe Block	PatioSet_Patio Furniture Set	9.00	0.00	No	Each	SOO	line cr

1 / 3 [1 - 100 / 282]

Create Freight Units Vehicle Assignment Create Freight Order Create RFQs Freight Cost Calculation Create Invoice from FO

Selected 0 rows 282 Rows found - Enter query criteria (optionally with %)

- Create Freight Unit process
- Vehicle Assignment process
- Create Freight Order process





TRANSPORT MANAGEMENT

- Create RFQs process

Create RFQs

Create Request For Quotations (RFQs)

RFQ Topic* Garden Supplies

Business Partner Group* Vendors

Run as Job

Saved Parameters Saved Parameters

OK Cancel

- Freight Cost Calculation process

Freight Order > Freight Order Cost

Data required

Client* GardenWorld

Organization* *

Freight Order* 1000155

Product

Charge Freight Service

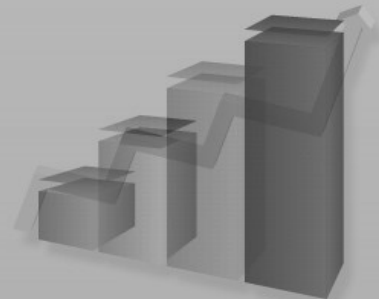
Quantity 100

Price 0.10

Amount 10.00

Description Standard Weight (SW)

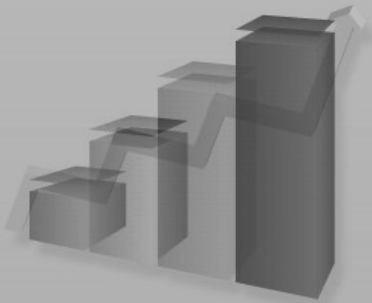
- Create Invoices from FO process





TRANSPORT MANAGEMENT

- Map View Form





WE'LL IMPROVE PLANNING FOR IDEMPIERE TOGETHER!

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