



Product Costing
Scenario Analysis
Budgeting and Forecasting
Inventory Valuation
Bill of Material Management
Reporting

ImpactECS

Enterprise Cost System



Your Costing Process. Our Costing System.

Get the ability to build, calculate, analyze, report and share cost data in one system with the ImpactECS Enterprise Cost System from 3C Software. The ImpactECS platform combines all the things you love with all the things you need to help your company rapidly develop a costing system that fits your organization's exact needs. Whether you need to calculate multiple cost sets, understand transportation costs, value inventory, compute subcontractor costs or perform any other sophisticated analysis, you can do it with ImpactECS.

Name	Length	Color	TotalCost
Black 34	34	Black	9.8322
Black 35	35	Black	6.6236
Black 36	36	Black	10.1756
Black 37	37	Black	6.8476
Black 38	38	Black	6.9826
Natural 34	34	Natural	5.7016
Natural 35	35	Natural	9.7607
Natural 36	36	Natural	9.0109
Natural 37	37	Natural	10.0578
Natural 38	38	Natural	10.2191
Red 34	34	Red	6.6390
Red 35	35	Red	6.7611
Red 36	36	Red	10.3268
Red 37	37	Red	10.5081
Red 38	38	Red	10.7215

Name	Data Type	Data
1 Length	number	34.0000
2 Color	string	Black
3 Market Code	string	Major League
4 Scraping Cost	number	0.0000
5 Material Cost	number	2.9550
6 Process Cost	number	6.6364
7 Manufacturing Cost	number	9.6022
8 SG&A Cost	number	0.2300
9 Total Cost	number	9.8322
10 Profit Margin	number	(1.1849)
11 Profit	number	(5.3322)
12 Sales Price	number	4.5000
13 Sales Price Estimated	boolean	

Enabled	Name	Labor	Payroll Taxes	Insurance	ESOP	Fringes	Electricity	Steam
<input checked="" type="checkbox"/>	Receiving	0.0662	0.0080	0.0066	0.0066	0.0213	0.0000	0.0000
<input checked="" type="checkbox"/>	Pre-Saw	0.0667	0.0081	0.0067	0.0067	0.0214	0.0000	0.0000
<input checked="" type="checkbox"/>	Tuning	0.3000	0.0364	0.0250	0.0390	0.0914	0.0001	0.0000
<input checked="" type="checkbox"/>	HeadSaw	0.0667	0.0081	0.0067	0.0067	0.0214	0.0000	0.0000
<input checked="" type="checkbox"/>	Dipping	0.0444	0.0054	0.0044	0.0044	0.0143	0.0000	0.1778
<input checked="" type="checkbox"/>	BuffSaw	0.0667	0.0081	0.0067	0.0067	0.0214	0.0000	0.0000
<input checked="" type="checkbox"/>	Stamping	0.0523	0.0065	0.0067	0.0053	0.0185	0.0000	0.0000
<input checked="" type="checkbox"/>	Inspection	0.2333	0.0293	0.0167	0.0233	0.0663	0.0000	0.0000
<input checked="" type="checkbox"/>	Shipping	0.3000	0.0364	0.0333	0.0300	0.0990	0.0000	0.0000
<input checked="" type="checkbox"/>	Total Cost	1.1973	0.1455	0.1127	0.1197	0.3779	0.0002	0.1778

ImpactECS is designed to help accounting, finance, and operations groups build sophisticated, detailed cost models without the need to write complex programming code or involve IT resources. This client-server application is a centralized system with a powerful calculation engine to handle an unlimited number of products, processes, and calculations.

Process Manufacturers

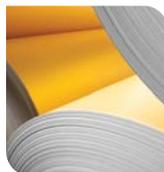
Formulas. Recipes. Bills of Material. Routings. Variances. Yields. Allocations. Rates. Cost accounting teams at process manufacturing companies deal with these factors and more to calculate detailed product costs. The accuracy of their results depends on a number of factors – accessible data, rigorous logic calculations, available time – but the most important of these are the tools required. ImpactECS is designed specifically for process and complex manufacturing companies that have unique cost modeling needs and require a robust platform.



Food and Beverage Processing



Semiconductor Fabrication



Pulp and Paper Manufacturing



Metals Fabrication



Textile and Apparel Manufacturing



Chemical, Rubber and Plastics Processing

ImpactECS Enterprise Cost System

Designed with the needs of process manufacturers in mind, ImpactECS is a costing system platform that provides the best of both worlds - the benefits of a packaged software solution with the ability for customization to meet your specific business needs.

With the ImpactECS platform, you have all the tools to build custom models that exactly replicate your production process. The powerful calculation engine coupled with the easy-to-use client interface seamlessly integrates into your existing IT architecture. ImpactECS is situated between the ERP systems that provide financial data and the manufacturing execution systems that deliver production data to generate detailed product cost results.



Product Costing. Uncovering the true cost of a product is at the core of any effective cost management program. ImpactECS is a platform with no pre-determined accounting methodology that gives you the tools to build specific cost models with the flexibility of spreadsheet modeling and the sophistication of an enterprise system.

Scenario Analysis. Historical cost results are important for government and shareholder reports, but they do not give business leaders the information needed to make decisions. With a few steps, you can convert any ImpactECS model into a forward-looking scenario analysis tool to evaluate the effects of changing any variable associated with your production process. By using the exact same logic and data as your product cost model, you can have confidence in the results.

Budgeting and Forecasting. The approaching end of the fiscal year brings about a fresh round of budgets and forecasts. For process manufacturers, this end-of-year activity includes setting standard costs, predicting production volumes and determining appropriate overhead allocations. ImpactECS helps companies streamline and reduce the time spent on the budgeting process.

Inventory Valuation and Bill of Material Management. For some industries, the value of raw materials and work-in-process goods is a significant component in making daily decisions about operations, sales and marketing. ImpactECS can calculate inventory values at each production step, providing detailed results. For others, maintaining detailed bills of material or recipes for each product is a complicated task that requires flexibility. ImpactECS can either serve as the system of record or communicate with existing systems to manage BOMs and recipes for each product.

Reporting. ImpactECS offers a number of reporting options to fit the needs of your organization. From the internal Cost Report Designer to Microsoft Excel or other third-party solutions, you can easily export cost results to the people who need them in a format that makes sense for your organization.

Product Costing

One of the central tenants of success for any manufacturing company is to understand costs. Calculating product costs is often a straightforward exercise for discreet manufacturers. Process manufacturers, however, have a wide range of variables that can affect the ultimate cost of a product. ImpactECS gives cost accountants the tools to build intricate models that account for every possible variation that affects product costs.

ImpactECS Product Costing Capabilities

- Calculate detailed standard and actual product costs for each SKU produced to make better decisions that directly impact profitability.
- Integrate directly with existing ERP, business intelligence and data warehouse systems to improve accuracy of results and reduce redundant data entry processes.
- Facilitate critical finance organization activities like building budgets, closing books for the period, and allocating overhead expenses.

Local Factors include product specifications, capacities, planned volumes, rates, machine efficiencies, and yields. An unlimited number of Local Factors can exist for each Cost Object and the data comes from internal tables, external data sources, or entered manually.

Using the Routings functionality, it is possible to calculate a cost for every raw material or process step used to manufacture the finished product. Multiple routings can exist for each product based on the unique costing requirements of each business that uses ImpactECS.

Name	Data
PRODUCT INFO	
Product Number	2456
Line Number	11
Product Name	FC WHT CKN MT SLCS 1 1/2 X 1/2
Customer	A Major Restaurant Chain
Division	National Ind
Category	Non
Std Lbs per Hr	7,900.0000
Std Green Yield	0.9800
Std Prod Yield	0.8345
Std Overhead Cost	0.7590
Std Meat & Season Cost	1.1250
Std Product Cost	1.8840
Std CO2	0.0000
Std Oil	0.0000
Std Direct Lab	0.0893
Std Indirect Lab	0.0622
Std Packaging	0.0230
Std Fringes	0.0699

Enabled	Cost ID	Cost Desc	Material Type	Prc't Used of Meat Batch	Prc't Used of Total	Cost per Unit	Std Cost per Lb	Prc't of Cost
<input checked="" type="checkbox"/>	7100138	Water	IN	0.1150	0.1150	0.0000	0.0000	0.0000
<input checked="" type="checkbox"/>	7100149	PENCLING 530	IN	0.0100	0.0100	0.7000	0.0070	0.0000
<input checked="" type="checkbox"/>	7100389	TRIPOLY/PHOSPHATE	IN	0.0035	0.0035	1.7000	0.0060	0.0000
<input checked="" type="checkbox"/>	7100437	IFF 135-77227	IN	0.0100	0.0100	3.3500	0.0335	0.0000
<input checked="" type="checkbox"/>	7100579	SALT	IN	0.0100	0.0100	0.1680	0.0017	0.0000
<input checked="" type="checkbox"/>	810300	Trimmed Thigh	RM	0.1703	0.1703	0.9500	0.1618	0.0000
<input checked="" type="checkbox"/>	903701	Large Trim	RM	0.6812	0.6812	1.0700	0.7289	0.0000
<input checked="" type="checkbox"/>		Meat & Seasoning		1.0000	1.0000	0.0000	0.9388	0.0000
<input checked="" type="checkbox"/>		Batter & Breading		0.0000	0.0000	0.0000	0.0000	0.0000
<input checked="" type="checkbox"/>		Seconds		0.0000	0.0000	0.0000	0.0000	0.0000
<input checked="" type="checkbox"/>		Meat Inedible		0.0000	0.0000	0.0000	0.0000	0.0000
<input checked="" type="checkbox"/>		Non-Meat Inedible		0.0000	0.0000	0.0000	0.0000	0.0000
<input checked="" type="checkbox"/>		Unidentified		0.0000	0.0000	0.0000	0.0000	0.0000
<input checked="" type="checkbox"/>		Seconds		0.0000	0.0000	0.0000	0.0000	0.0000
<input checked="" type="checkbox"/>		Total Meat & Ingrid		1.0000	1.0000	0.0000	0.9388	0.0000

In ImpactECS, the Cost Object represents an item that has a unique cost. You can assign an unlimited number of attributes, or Factors, to each Cost Object that can adjust dynamically to minimize data maintenance and ensure accurate results.

Scenario Analysis and Decision Support

Finance executives are spending more time thinking about the future and gauging how changing market conditions can ultimately affect the company's profitability. But, modeling the future successfully is completely dependent on the quality of data that exists today. With ImpactECS, the same data and logic used to calculate standard and actual product costs is replicated to create detailed scenario analysis models – lending more credibility to the results and eliminating potential errors.

ImpactECS Scenario Analysis and Decision Support Capabilities

- Clone existing ImpactECS models to create powerful analysis tools that accesses real data without changing the official production data set.
- Provide quick answers to evaluate price and volume changes on production costs to protect profit margins and negotiate contracts with vendors and suppliers.
- Support decision-making activities by providing a full view of how overall costs will affect future periods.

ImpactECS Calculations are created based on specific business rules and do not require programming knowledge to create intricate logic sequences.

Calculations are intentionally generic so they can apply to more than one item in a Model. From simple arithmetic and conditional arguments to interacting with table data and launching scripts, Calculations is the key to ImpactECS' flexible platform.

Custom forms built using ImpactECS makes it easy to calculate different scenarios with a few keystrokes.

Using the Forms Item Type in ImpactECS, you can build a limitless number of Forms to create start pages, documentation pages, interactive forms, data maintenance forms, or any other custom pages.

Action	Operand	Comment
Read From Table	Work.Center	Looks up cost rate of Work.Center
Table Index	Work.Center	
=	Table.LaborRate	
=	LaborRate	
=	Table.WorkCenterDescription	
=	WCDDescription	
Read From Table	LaborTable	
Table Index	Item #	Reads data from Tables used in the following calculations
Table Index	Work.Center	
10	Table.RunLaborHrs	Looks up Run Hours from Table and inserts value in Calculation
11	X	LaborRate
12	=	RunHrs x Wages = Run Cost
13	=	Saves Run Cost as a Bucket
14	X	Table.SetupHrs
15	=	LaborRate
16	=	SetupHrs x Wages = Setup Cost
17	=	Inserts saved data
18	=	Setup
19	=	Item #
20	=	Looks up "Lot Size" from Local Factors and inserts it into calculations
21	=	Item
22	=	Table.Operation
23	=	Operation
24	=	Reads data from table and inserts it in the Bucket called on next line
25	=	Table.RunLaborHrs
26	=	RunLaborHrs
27	=	Table.SetupHrs
28	=	SetupHrs
29	=	Table.ItemDescription
30	=	ItemDescription
31	=	Run
32	+	Total Run Cost
33	+	Setup
34	+	Total Setup Cost
35	+	LaborTotal
36	+	Total Labor Cost

Budgeting and Forecasting

With months to go before the end of the fiscal year, cost accountants are distracted from current events and become mired in the details of building budgets and forecasts for the next year. And, instead of focusing on making solid predictions, they are more engrossed with making sure that everything adds up. ImpactECS enhances budgeting and forecasting activities by providing tools to automate and integrate the process within the costing system.

ImpactECS Budgeting and Forecasting Capabilities

- Calculate new standard costs at finished goods and sub-assembly stages and directly upload the results to ERP, business intelligence, or data warehouse systems.
- Manipulate cost factors like vendor pricing, labor force or volume changes by specific product or manufacturing location.
- Evaluate and apply fixed and variable overhead allocation rates based on business rules for the particular manufacturing location.

ImpactECS - Table - Destinations and Proportions, Model - Enterprise Costing Budget

Sequence	RuleID	ToCostCenter	CostCenter Descr	ToAccount	Account Descr	Proportion	tion
1	0002	CP_WOOD_PROCURE	1420	CPN-Kraft Cooking	78189	Wood Procurement	100.0000 %
2	0003	CP_COMPUTER	1756	CPN-No. 3 Paper Machine	78162	Computer Process Control	24.9016 %
3	0003	CP_COMPUTER	2041	CPN-Paper Mill General	78162	Computer Process Control	0.0000 %
4	0003	CP_COMPUTER	2059	CPN-No. 4 Paper Machine	78162	Computer Process Control	25.0984 %
5	0003	CP_COMPUTER	2072	CPN-Pulp Dryer	78162	Computer Process Control	50.0000 %
6	0006	CP_ENVIRONMENTAL	1756	CPN-No. 3 Paper Machine	78184	Environmental Ops	19.9213 %
7	0006	CP_ENVIRONMENTAL	2059	CPN-No. 4 Paper Machine	78184	Environmental Ops	20.0787 %
8	0006	CP_ENVIRONMENTAL	2072	CPN-Pulp Dryer	78184	Environmental Ops	60.0000 %
9	0007	CP_SWINGFUELS/UNIT	1745	CPN-Power Boiler(s) 1	78151	Steam - Direct	100.0000 %
10	0008	CP_SWINGFUELS/HEATUOM	1745	CPN-Power Boiler(s) 1	78152	Steam - Fixed	100.0000 %
11	0010	CP_BLKLIQR_CREDIT	1420	CPN-Kraft Cooking	78189	Wood Procurement	100.0000 %
12	0011	CP_GENRLUTILITIES_DIRECT\$	1756	CPN-No. 3 Paper Machine	78162	Computer Process Control	24.9016 %
13	0011	CP_GENRLUTILITIES_DIRECT\$	2059	CPN-No. 4 Paper Machine	78162	Computer Process Control	0.0000 %
14	0011	CP_GENRLUTILITIES_DIRECT\$	2072	CPN-Pulp Dryer	78162	Computer Process Control	50.0000 %
15	0012	CP_GENRLUTILITIES_FIXED\$	1756	CPN-No. 3 Paper Machine	78184	Environmental Ops	19.9213 %
16	0012	CP_GENRLUTILITIES_FIXED\$	2059	CPN-No. 4 Paper Machine	78184	Environmental Ops	20.0787 %
17	0012	CP_GENRLUTILITIES_FIXED\$	2072	CPN-Pulp Dryer	78184	Environmental Ops	60.0000 %
18	0017	CP_RCVRYBLR_TO_ELECT_DIRECT\$	1334	CPN-Electric Power 1	78151	Steam - Direct	100.0000 %
19	0018	CP_RCVRYBLR_TO_ELECT_FIXED\$	1334	CPN-Electric Power 1	78152	Steam - Fixed	100.0000 %
20	0019	CP_POWRBCLR_TO_ELECT_DIRECT\$	1334	CPN-Electric Power 1	78151	Steam - Direct	100.0000 %
21	0020	CP_POWRBCLR_TO_ELECT_FIXED\$	1334	CPN-Electric Power 1	78152	Steam - Fixed	100.0000 %

Ready 0 sec

This allocation table in ImpactECS gives a quick snapshot of how overhead is distributed to specific general ledger accounts and the effective rates. Tables in ImpactECS are versatile and can be formatted to contain any data relevant to the costing process.

Inventory Valuation and Bill of Material Management

Knowing what materials go into each product and how much it costs is an important step to collecting detailed product costs. Equally important is valuing both work-in-process as they move through production and finished goods once they are ready for sale. Using ImpactECS tables, you can build BOMs and recipes to manage the types and quantities of materials needed to produce each product. And as raw materials become work-in-process items and ultimately finished goods, ImpactECS can calculate their value at any production stage.

ImpactECS Reporting Tools

Analysis is great, but a costing system also needs a robust reporting platform to easily share results throughout the organization. ImpactECS has a number of reporting options to give you the flexibility to design and share reports.

Cost Report Designer

The integrated Cost Report Designer, based on Crystal Reports by Business Objects, offers a familiar interface to design custom templates to quickly generate reports.

Microsoft Excel Add-In

This easy-to-install Excel Add-In built with Visual Studio Tools allows you to build templates and generate reports using Microsoft Excel.

External Reporting

ImpactECS can export results to user defined tables, data warehouses, or any third party reporting tool to leverage your existing reporting capabilities.

XYZ Paper Company					Actual Work in Process Inventory Valuation					July 2010				
Grade	ktBW	Color	Finish	WIP Tns	Cost Per Ton for WIP			Inventory Value				TotalCost		
					Direct	Semi Var	Period	Direct	Sem/Var	Period	Total			
0400	50.00	8255	01	3.73	236.38	135.21	50.80	422.39	882.56	504.85	189.65	1,577.06		
0400	50.00	8255	02	2.99	238.23	148.18	51.26	437.67	711.75	442.70	153.13			
0400	60.00	8255	01	1.01	236.21	127.85	49.99	414.04	238.16	128.90	50.40			
0400	60.00	8255	02	1.88	238.78	135.26	51.70	425.74	448.14	253.85	97.03			
0400	70.00	8255	01	0.41	250.48	129.34	49.13	428.94	102.35	52.85	20.07			
0400	70.00	8255	02	0.43	254.54	141.33	53.38	449.25	109.71	60.91	23.01			
0410	77.50	8255	02	0.11	228.75	132.23	51.31	412.29	26.13	15.10	5.86			
0415	75.00	8255	02	9.18	243.62	149.38	53.90	446.91	2,236.97	1,371.68	494.93			
0500	50.00	0001	01	0.17	243.43	133.09	50.08	426.60	41.12	22.48	8.46			
0500	50.00	0001	02	4.11	239.76	135.91	49.80	425.47	994.52	558.11	204.90			
0500	60.00	0001	01	0.52	240.02	116.96	48.76	405.74	125.37	61.09	25.47			
0500	60.00	0001	02	0.98	234.72	121.15	49.14	405.01	229.77	118.80	48.10			
0500	70.00	0001	01	0.78	238.51	121.54	49.81	409.86	185.04	94.29	38.64			
0500	70.00	0001	02	0.19	252.42	136.30	51.34	440.05	47.90	25.87	9.74			
0510	77.50	0001	02	0.93	249.48	133.01	50.68	433.17	230.78	123.04	46.88			
0515	75.00	0001	02	4.17	238.61	127.89	50.13	416.63	995.46	533.54	209.13			
0519	97.00	0001	02	0.17	310.09	120.17	42.87	473.13	52.39	20.30	7.24			
1076	23.00	8176	41	0.38	253.62	159.99	53.33	466.93	95.41	60.18	20.06			
1076	24.00	8176	41	1.38	337.34	166.35	52.06	555.74	496.33	229.96	71.96			
1079	21.00	8180	41	1.25	242.11	136.61	50.85	429.57	302.85	170.88	63.60			
4070	22.00	0001	41	1.93	248.38	139.76	51.71	439.85	480.03	270.10	99.94			
4070	24.00	0001	41	2.72	243.85	132.76	50.90	427.51	663.38	361.17	138.48			
4074	21.00	0001	01	0.60	240.88	136.37	50.76	428.01	145.59	82.42	30.68			
4074	22.00	0001	01	0.37	241.91	136.04	50.76	428.71	89.09	50.10	18.69			
4078	23.00	0001	01	8.16	248.46	136.09	51.75	436.30	2,028.49	1,111.06	422.48			
4083	23.00	0001	01	0.69	227.47	117.22	48.12	392.80	155.91	80.34	32.98			
4083	24.00	0001	01	1.91	244.13	131.64	50.48	426.26	466.41	251.50	96.43			
4083	24.80	0001	01	5.23	243.62	131.32	49.88	424.81	1,273.73	686.57	260.77			
4089	24.00	0001	41	0.78	249.91	130.05	50.88	430.83	195.39	101.67	39.78			
4089	24.00	8306	41	0.88	236.82	121.79	49.14	407.74	209.14	107.55	43.39			
8258	50.00	0001	41	6.97	256.52	155.89	51.69	464.10	1,788.06	1,086.65	360.30			
8304	20.00	0001	41	0.42	228.79	139.52	52.06	420.36	96.36	58.76	21.93			
8304	20.00	3400	41	0.18	269.99	151.06	53.77	465.62	49.11	29.44	9.78			
8304	20.00	6210	41	2.28	309.05	234.60	64.98	608.63	704.53	534.82	148.14			
8304	20.00	6910	41	0.89	279.91	215.83	61.55	557.29	248.13	191.32	54.56	494.02		
8304	24.00	0001	41	1.53	257.05	155.19	53.32	465.56	394.47	238.16	81.83	714.45		
8308	18.50	0001	41	5.48	231.65	134.81	50.65	417.11	1,269.59	738.83	277.61	2,286.04		
8308	18.50	3400	41	0.12	239.29	132.86	50.47	422.62	27.88	15.48	5.88	49.24		
8308	18.50	4250	41	1.02	252.31	151.60	51.62	455.53	257.37	154.64	52.06	464.66		
8308	18.50	6200	41	4.63	304.57	280.33	67.85	632.76	1,409.92	1,205.11	314.11	2,929.14		
TOTAL				81.56	10,061.65	5,763.28	2,072.62	17,897.55	20,465.28	12,204.91	4,298.30	36,968.49		

This sample Work-In-Process report for a paper manufacturer was built using the ImpactECS Cost Report Designer.

There are an unlimited number of report types available. Some examples of reports include:

- Product Cost Sheets
- Inventory Valuations
- Budgets and Forecasts
- Materials Pricing
- Earnings Estimates
- Customer or Product Profitability

Learn more about ImpactECS

3C Software Website

Visit us at www.3csoftware.com to learn more about ImpactECS and how we help process manufacturers develop their own custom enterprise cost environment.

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3C Software
1300 Parkwood Circle | Suite 300 | Atlanta, Georgia 30339 | USA

www.3csoftware.com

800.226.2036 | 770.956.7744

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