

» Company Background

Samuel G. and Barney L. Keywell established Keywell in 1924 as a scrap metal recycling business. The Company began operations with one facility in Detroit Michigan, supplying carbon steel scrap to nearby mills. In 1979, the Keywell family sold the Company to Key International Manufacturing, Inc. The Company grew steadily through acquisitions and aggressive marketing. In 1986, Keywell was spun-out into a separate entity and taken private by an investor group led by the Company's current Board of Directors.

In 1987, Keywell purchased the business of Vac Air Alloys Corporation, the largest supplier of high temperature alloys in the world and a leading stainless steel scrap processor. In 1993, Keywell purchased the business of Rainbow Metals, Inc., a major processor of high temperature alloys. Keywell is an established enterprise with fourteen domestic locations and over 270 dedicated employees.

Throughout its history, the company has maintained profitable growth to become an industry leader in the processing of stainless steel, high temperature alloys and titanium scrap metal.

Keywell has achieved ISO 9001 certification. ISO 9001 is the internationally recognized standard for quality management systems. Keywell's state-of-the-industry facilities is equipped with inbound and outbound radiation monitors, as well as one or more X-ray analyzers or other sophisticated analytical equipment for precise detection and identification of every piece of metal it process.

» Business Needs

Keywell wanted an Online Inventory System for their clients with following core features.

- Design and build a user-friendly web-based Inventory System to run on Keywell's AS/400
- Allows Toll customers to easily view, sort, print, download and communicate order & delivery instructions to Keywell.
- This inventory system will provide summary information and Lot based detail data on a daily basis, which will better assist our customers in defining their purchasing requirements.
- Toll customers, such as ATI Allvac, will securely connect over the Internet using any web browser.
- Reports should be in various formats (.pdf, xls, cvs)
- Session log maintenance & tracking.



Keywell in providing inventory information on demand

» Business Solution

- After considering several options, Royal Cyber decided to build Online Inventory System using IBM Rational® Enterprise Generation Language (EGL), IBM's strategic rapid development technology.
- EGL was a perfect fit because its development paradigm can be easily understood by skilled RPG & java developers. EGL enabled Royal Cyber developers with wide-ranging skill sets and backgrounds to apply Web and service-oriented architecture (SOA) technologies as they delivered an advanced solution.

» Delivered application in two Phases

- Online Inventory System application developed in two months with all core features required by the Keywell.

» Online Inventory Reporting System

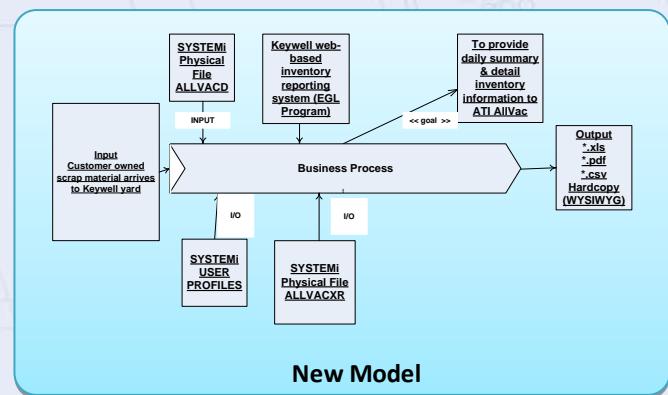
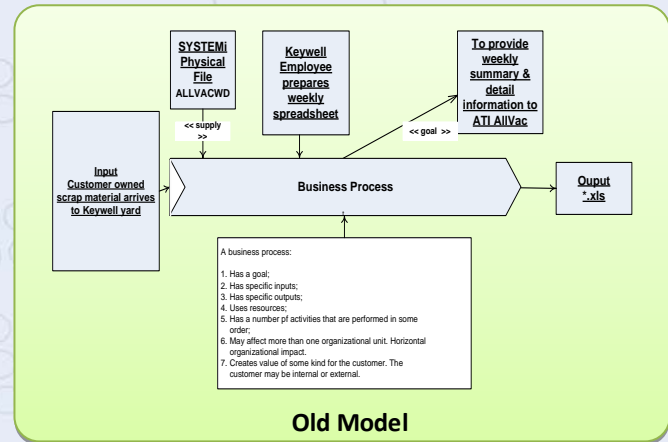
Dashboard

KEYWELL On-Line Inventory Reporting System						
Name	Product Line	Inventory Detail	Report Location	Summary	Contract No.	Log Out
Product Line						
1:Fabrics	3,085,912	ATI Aches Descriptions	Trancom	Rs based	Other	Total
W Souths and Eastman OEM	499,822	ALLEGHENY BRACHMORFIDE	24,914	0	0	24,914
Souths, Eastman, Souths, Fines	357,269	ALLEGHENY LARROVE	0	0	117,293	117,293
USO (Graham)		ALL VAC ALLOY RESOURCES	0	0	22,369	22,369
Total	3,922,743	ALL VAC BAKERS	227,890	0	0	227,890
Inventory Detail						
1:Fabrics	3,085,912	ALL VAC GOLDEN TITANIUM	76,490	0	0	76,490
W Souths and Eastman OEM	499,822	ALL VAC LOCKPORT	0	134,071	0	134,071
Souths, Eastman, Souths, Fines	357,269	ALL VAC MOPFIDE	0	126,117	0	126,117
USO (Graham)		ALL VAC PINEHOLE	262,227	0	0	262,227
All Inventory	3,922,743	Total Finished Material	586,581	262,688	140,274	989,543
Other						
On Process	577,261	On Process	116,527	24,620		141,147
Missouri, NC (Carter, SA)	378,627	On Hand	142,794	0	0	142,794
Missouri, NC (Carter, SA)	1,223,826	To Be Purchased	9,172	0	0	9,172
Evansville, IN	2,279,986	To Be Determined	220,140	0	0	220,140
		On Hand	0	0	52,171	52,171
		On Spec	24,360	0	6,862	31,222
Subtotal	3,922,743	Unshown	1,884,274	0	6,084	1,890,358
LAR	3,922,743	Revised Onsp	427,702	120,597	45,153	693,452
		Total Other Material	2,476,371	227,134	27,208	2,830,688
		Grand Total	3,888,922	499,822	352,269	3,822,743

Source view Page

KEYWELL On-Line Inventory Reporting System						
Name	Product Line	Inventory Detail	Report Location	Summary	Contract No.	Log Out
Group By Source						
Source	Material	Source	Material	Source	Material	Weight
ATLANTIC	274,125	ATL METALS	77,293	ATLANTIC	14,749	14,749
EUROPE	269,440	EUROPE	77,293	EUROPE	17,419	17,419
GREENE	21,574	GREENE	62,099	GREENE	17,419	17,419
AFRICA	21,574	AFRICA	62,099	AFRICA	9,893	9,893
INDONESIA	292,746	INDONESIA	86,177	INDONESIA	9,893	9,893
SOUTH	176,189	SOUTH	29,520	SOUTH	7,298	7,298

» Design Architecture



» Key Technologies and Tools used

- IBM Rational Enterprise Generation Language (EGL)
- IBM WebSphere Application Server
- Rational Business Developer (RBD)
- CSS, JavaScript, HTML

» Business Benefits

Helped in providing inventory information on demand; web 2.0 styled web application; reporting & session log maintenance; rapid development of new capabilities and features to meet customer demands; improved employee productivity & customers satisfaction.