



Business Overview:

Vale is a pioneer mining company that works diligently to transform mineral resources into the essential ingredients of people's everyday lives.

Vale is a global company headquartered in Brazil, with a workforce of over 100,000 employees, including outsourced workers.

Interesting facts about Vale:

- The second largest mining company in the world.
- The world's leading producer and exporter of iron ore and pellets, and an important global producer of manganese and ferroalloys.
- Sales of iron ore and pellets in the 2008: 296.241 million tons
- China accounted for 28.7% of the shipments. Asia was responsible for 47.8% of total sales in 2008, Europe for 24.4%, the Americas for 23.1% and remaining 4.7% was spread through the Middle East, Africa and Australia.

Company Overview:

Revenues: \$38,509 Billion

Industry: Mining.

Types of products: Iron Ore and Pellets, Nickel, Coal, Aluminum, Potassium, Copper, Manganese and Steel.

Site Size: 269.097 Square Ft (each warehouse)

Storage: Pallet locations, Floor Storage, Cantilevers, Shelves.

8-10.000 SKUs per site

System Overview:

Number of Sites: 8

Install Date (first site): August, 2007

Host system: Oracle ERP version 11.5.10

HJ Database: Oracle 10G

Locations (Brazilian states): PA, MG, MA, ES

Number of Users: 170

Supply Chain Advantage version: 9.0

Modules: Warehouse Advantage and Advantage Fulfillment Optimizer

3rd Party Applications: Business Objects Crystal Reports, Georgia Softworks, and Loftware.

Operation/Volume:

The WMS is used in MRO warehouses (maintenance, repair and operation) and put away items to attend the factories and ports.

A lot of kinds of products are stored, including small screws until enormous ore transfer belt.

There are floor storage locations in the yard to put away big items.

The warehouses work 24 hours per day, and despite do not have big volumes, they need to have agility to attend the factory's maintenance.

8 outbound/inbound dock doors

4,000 lines shipped/months/warehouse

The items are received, staged and stored in locations according to put away class. Some items need to control FEFO.

The MRO operation requests VAS in the receiving to storage items like motors.

Each item in the storage is controlled by the state, called sub-inventory, like use, old, refurbished, etc.

The items are picked and staged straight from storage locations. There are not picking locations.

Some orders are delivered straight in the factory, so the order is shipped only after the delivery confirmation.

HighJump's Advanced Fulfillment Optimizer is used to release works according the orders priority and is managed by supervisor.

Benefits realized by Vale with the HighJump solution:

- Real-time capability
- Increased visibility to inventory
- Increased level services
- Increased visibility to operation – inbound and outbound orders
- Decreased the inventory time
- Decreased the operations errors

Future plans:

Vale is evaluating install Warehouse Advantage in more 10 sites in the next year and more 30 sites in the next 5 years. Vale too is evaluating Yard Advantage.