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Certification Statement

BetaWatch Inc. digital due diligence™ Evaluation and Certification Service

Certification Report No. ERP084 STEELMAN – SC 1.0 Issue 1.0 June 2002© Reproduction is authorized provided the report is copied in its entirety.

BetaWatch Inc Evaluation and Certification Service 505 University Avenue Suite 1603 Toronto ON CA M5G 1X3. BetaWatch Inc. is a technology audit company, qualified in providing the required service. BetaWatch Inc. digital due diligence™ Evaluation and Certification Service. Methodology: ISO 9126, BetaWatch proprietary Sanity Check © and Test Matrix ©.

The judgements contained in the Evaluation and Certification Report are those of a Technology Audit Corporation that issued it and of the Senior Consultant who carried out the evaluation.

THE SCOPE OF THIS REPORT DOES NOT INCLUDE ANY CONSIDERATION TO SOFTWARE DEVELOPMENT PROCESS.

STEELMAN – SC Version 1.0 is a business intelligence and tracking system for Steel Service and Processing Center. Running on standard platforms including Unix, Linux, and Windows NT, STEELMAN – SC operates an Oracle 9i application server, Oracle 8i-database server, Oracle forms 6i, PL/SQL server side.

Introduction

The purpose of an evaluation, in the context of functionality characteristics, is to assure that the computer program is a trusted implementation of the design specification, which in turn is a trusted transformation of the requirement specification. Simply put, this evaluation answers the question "Is the claimed functionality really available?"

Certification Report No. ERP084 STEELMAN – SC 1.0 Issue 1.0 June 2002© is intended to assist potential consumers when judging the suitability of the product for their particular requirements.

Appointment of BetaWatch Inc. digital due diligence™ Evaluation and Certification Service.

Evaluated Product

STEELMAN – SC Version 1.0 business tracking system for Steel Service and Processing Center. Running on standard boxes, Unix, Line and Windows NT, STEELMAN – SC operates on an Oracle 9i application server, Oracle 8i-database server, Oracle forms 6i, PL/SQL server side

Developed specifically for the Steel Service and Processing Center, this functional evaluation reports on STEELMAN – SC Version 1.0. The system architecture installed on two sites is original code, owned by STEELMAN Software Solutions Inc.

Scope

Evaluation and certification is established on 9126 criteria charted in the left-hand column below. Specific evaluation applicability audited according to BetaWatch proprietary Sanity Check © and Test Matrix © described in the right-hand column below.

ISO criteria	Certification Report No. ERP084 specific evaluation
Functionality	Is the claimed functionality really available?
Reliability	Do the applications maintain a high level of performance under stated conditions for a stated period of time?
Usability	Is the application useful to the Steel Service and Processing Center?
Efficiency	Once running is the application easy to administrate?
Maintainability	Estimation of development teams' ability needed to make specified modifications to the application.
Portability	Can the software be transferred from one environment to another?
Security	Is there an easily integrated extra security available?

Strength of Functions

Unique Windows platform, Oracle driven Steel industry specific software

Designed and implemented to track the following relationships: sales and production, production and costing, sales and costing, production and warehouse, sales and warehouse

Automatic currency and measurement conversion integrated throughout the application

Steel service and processing industry standard compliant.

Real-time system validation ensures correct and consistent data

Reports derived from the query tool Oracle Discoverer™ provide business intelligence

User Guidance

Thorough User Guidance provided

Screen shots and details concerning function buttons and settings

All necessary guidance to administer the system and train users on the computer system

Reports

In all the reports the user can drill down from year and month column, down or up a quarter, week and even a particular day. Below is a list of some reports.

Customer Analysis	Business Partners
	Customers
	Customer Sales
	Product Customer Sales
Sales Analysis	Sales
Production Analysis	Work Center Schedule
	Work Centers
	Shifts
	Product Releases
	Production Orders
	Work Orders
	Work Order Details
	Inventory Allocations
	Sales Orders
Customer Profiles	Customer
	Customer Contact
	Customer Units
	Customer Preferences
	Customer Applicable Taxes
	Customer Orders
	Customer Profiles
Sales Orders	Sales Order Product Info
	Sales Order by date
	Sales Order by city
	Production Cost by date
	Sales Outstanding
Sales Order Delivery	Sales Order Delivery
	Sales Order Delivery2
Purchase Orders	PO Info
	PO Delivery
	PO Delivery2
Product Analysis	Product Sales
Sales Order Taxes	Sales Order Taxes
Work Centers Area	Work Centers Stmt
	Work Center Default Shifts Stmt
	Work Center Processes Stmt
	Productivity on Work Centers1
Inventory Analysis	Inventory History
	Inventory analysis
	Inventory Transactions
	Steel Inventory
Receiving Items	Tested Properties
Business Partners	Customer contacts
	Partners
	Currencies
	Clients
	Customer Taxes
Sales Analysis	Sales Territory
Cost Analysis	Production Cost
	Order Cost Elements
Costing Comparison	Costing Comparison
Sales Control	Sales By Currency
	Sales Orders and Invoices
	Sales Orders and Costing
	Sales Order Un-Invoiced
Work Order Analysis	Work Orders Yield Loss
Customer Parts	Parts
Product Analysis	Product Analysis
Receiving Analysis	Scheduled PO Deliveries

Module: System

System Requirements module enables data set up. Create and maintain users, enable or disallow user access, change password, alert user and configure data.

Define and control data to make information available to other modules.

Questions

How is this updated?

Is there a report one can derive from the configuration data?

Is this an executable file that can be run adjunct to any server side web-programming environment?

How is the database searched?

Are there forms?

Can they be customized?

Does the language seamlessly integrate with all modules of this system?

Answers

Authorized users and forms

Yes. Filter screen into Excel

Yes. Can run off site

The database is searched using Oracle Discoverer

Yes

Not by the user. Data rules protect which form the user can look at.

Yes

Module: Setup

Setup requirements provides standard 'master tables' used in other modules. Master Tables include: industry markets, product end use, industry services, regions [country, region, city], chemistry symbols, units of measure including conversion factors, properties, grades, standards, currencies, payment terms, sales territories, tax codes, languages, employee roles.

Questions

Is standard information included?

Is there a US and Canadian version?

What are the standard defaults?

Answers

Yes

The system enables automatic conversions between units of measure and conversions between currencies.

These are customized

Module: Customer Relationship Management

Customer and vendor tracking system defines hierarchical business partners.

Features include:

- Classification by class and properties
- View, change, delete customer /business partner information
- Pricing schedules can be viewed, changed or deleted
- Profile view
- Report view
- Define relationships that determine which products get sold to the customer as well as preferences in addition to history
- Industry standard delivers business rule based, target purchasing through reports
- An Oracle driven database
- Delivery to web browser

Questions

Is this delivered with a sample Customer and Supplier Profile, Forms and Query samples?

Can images be uploaded easily?

Are additional content licenses required?

Are forms included?

Are standard reporting tools included?

Do the query features include the ability to define product relationships using the Boolean relationship delivered with the query data file?

Searching of multiple, supplier/customer

relationship delivered in clearly laid out report?

Answers

No, this is done at system configuration

Yes images of steel for claims can be uploaded

Application service license

Yes

Yes. Two tools: Discoverer and Report Write

Yes. There is a comprehensive analysis

Yes

Module: Products

Products catalogue is the classification tool for describing products steel service centers sell by way of processing. It helps simplify the complex task of collecting and generating consistent and up-to-date product information bought or sold throughout the Steel Service and Processing Center.

Features include:

- Master table of products integrated throughout this system
- Product Definition of shape attributes
- Definition of dimension tables
- Definition of products
- Default value type and tolerance type
- Definition of allowable dimensions for each product
- Parent product
- Product shape
- List of standards associated with product
- List of grade associated with each standard
- List of properties other than shape attributes
- Association of dimension tables with each product
- Association of product with standard and grade combination
- List of processes that must be performed to produce the products
- Default ordering unit
- Ability to flag discontinued product
- Specify superceded product [superceded product flagged as discontinued]
- Query shows products selling, to whom and quantity

Questions

Is a standard catalogue included?

How is it revised?

Is this component delivered as an executable file that can be run adjunct to any server side web-programming environment?

Who updates this to deliver the language that will seamlessly integrate with all modules of this software?

Answers

This is the Oracle 8i database

Designated user

Yes. Oracle 9i application server. A collection of 10 screens

Designated user

Module: Orders

Sales Order module allows you to enter sales-order, monitor sales order and inquiries. It reduces transaction costs of creating, tracking, and monitoring orders and inquiries as well as curtails errors and decrease processing time. From customer representative order entry to sales representative 24/7/365 tracking this module ensures that your staff is on the same page and customers are in the know.

Functionality includes:

- Ability to have any number of Line Items. Each item is individually priced.
Open architecture generates valuable customer profile reports to purchasing, customer service, sales reps, production and shipping.
- Clients can also view on-line pricing order status on the web.

Questions

Can one track orders from sales to production, shipping and cost?

Is the application delivered with a sample Customer and Supplier Forms?

On which browsers does it run?

Are additional content licenses required?

Are there Business Rules to handle pricing queries?

Answers

Yes one can track orders from sales to production and shipping as well as the ability to track sales order price to cost.

Yes, there is a query built into every form.

Any Java compliant browser.

Yes. Oracle database 8i

Yes, there are automatic Business Rules based pricing that drives pricing.

Module: Production

Production module manages and controls the production process of orders entered into Sales. This reduces the cost of scheduling, tracking, accounting, and reporting production schedule. This tool helps deliver on time.

Features include: data setup, work instructions, provision orders, production release, work order maintenance, stock search, reserve stock, shifts schedule, production schedule, production line-up, production record keeping, miscellaneous queries and reports.

Additional functionality includes ability to stock to orders at various points through the production process.

Questions

Is there stock and order modeling capability through a Graphical User Interface (GUI) delivered to desktop or laptop?

Is there mapping to external, back-end host systems?

Can you apply stock to orders at various points in the production process?

Is there a nightly product batch update facility?

Is there a database rule driven scheduling using a system to notify production and sales concerning scheduling problem?

Answers

Yes. The model is to merge orders to inventory.

Yes. This will be configured at the time of installation.

Yes

No

No

Module: Warehouse

Goods tracking system to purchase, receive, and add inventory as well as maintain inventory file and control both steel products and consumable item flow.

Features include entry of product weight and dimensions in any units of measure, and automatic conversion between units of measure and conversion between currencies.

Some specific features include:

Purchasing

- Order and receive products in weight, pieces or other units, for example length of pipes
- Calculate the number of pieces based on designated measurement
- Decrease the amount of manually entered data using the copy function
- Validate each product entry with Master Product Catalogue
- Order consists of a header and one or more line items. Header contains information that is common to all line items, for example, order Id, carrier, shipping and mailing address, and more. Line item for each product can contain 10 various dimensions.
- Schedule multiple deliveries by expected delivery date, weight and pieces.
- Post-order release generate report
- Generate report of all released orders
- Monitor the status of an order

Order Costing

- Creation of purchasing cost groups and costs within a group
- Approve, release, monitor delivery, and close.

Receiving

- Record the receipt of material and add to inventory, this includes purchase order receiving, customer-owned material, customer return, and receiving from production
- Generate and print inventory tags
- Pre-receiving functions include receipt costing, advance shipment information of incoming delivery

Reporting

- Scheduled received deliveries by supplier, product and carries can be viewed daily, for a given date range, or periodically

Inventory

- Control both work in progress and finished goods through automatic entry of inventory items at the time of and completion of each production transaction
- Tags tracing of any inventory item and view report
- Ability to hold and reject items
- Automatically control the purchase order status
- Monitor weight tolerance of order line item for closing
- Monitor order threshold

Module: Warehouse

Questions

How many location types can be tracked?

How many different types of orders can you enter?

What is a Blanket Order?

Can the Blanket Order you create control its releases?

Does the application provide the means for physical inventory count?

Are the differences posted to inventory?

Can you print a reconciliation report?

Can you track the product from receiving to finished product?

Is there a validation of order, at the time of entry against information defined in product catalogue

Can one integrate a bar code device?

Is there real-time integration with inventory control and back office systems?

Answers

Locations can be tracked. They are warehouse, location in the warehouse [bin, row etc.], and manufacturing work center / aggregate.

Three different types. Standard Order, Outside Processing Order and Blanket Release Order.

Blanket Purchase Order is an agreement by the vendor to sell to the purchaser at a specific price for a designated period of time.

Yes

Yes

Yes

Yes

Yes

Yes

Module: Costing

Supplies customers with instant and accurate production cost, in addition to analysis of variances between standard estimate and actual production cost.

Features include:

- Manual entry of product cost hour, fixed overhead/per hour or per weight unit and variable overhead cost per hour/weight unit
- Preset rules and ability to change value retrieval rules for cost of freight and recalculation
- Enabling of cost control to maximize profit margins
- Cost variances for sales orders, cost elements and work centers
- Reports track standard, deviated and historical cost elements, by periods, comparison, and variances

Questions

Does the costing feature generate realistic quotes, which considers hidden manufacturing costs, like special processing, packaging, and shipping?

Are report forms included?

Is there real time integration with inventory control and back office systems providing actual production cost?

Is the cost of manpower included?

Answers

Yes

Yes

Yes

Yes. Standard labor cost is included.

Module: Shipping

The Shipping Management module provides the knowledge management application to create master tables to take charge of the following shipping modes and methods:

- Determination of load capacity on rail, sea, and road
- Definition of freight rates by route and carrier
- Point and click for printed bill of lading and invoice
- Maintain freight carrier information together with contact information
- Customized freight rates either as weight per unit or load.

Questions	Answers
Can one e-mail the bill of lading and invoice?	Yes
Can one view any reports?	Yes
Can one view daily shipping logs?	Yes
Can one view summaries by order?	Yes
Can one view customers?	Yes
Can one view list of carriers and details?	Yes
Can one view comparison rates by routes	No
Can one define parameters to determine that weight does not exceed shipping vehicle capacity?	Yes
Are shipped inventory items moved from live inventory and archived into a historical inventory table?	
Can the user close released orders?	
Can the system administrator set the weight percentage threshold	

Metal Service and Processing Center Tracking Objectives

Steel Service and Processing Centers from a corporate and data intelligence standpoint, and need an enterprise-wide solution. Mission critical decisions require instantaneous access to information. The application will give customers a first-mover advantage. Neither SAP nor PeopleSoft deliver a specific solution to this industry. Drawn from extensive experience in the field, Steelman – SC provides strategic business decision process for Steel Service and Processing Center growth.

Certification Result

Functionality satisfies the business tracking and intelligence needs of Steel Service and Processing Centers.

Evaluator's Statement

This evaluation is impartial and free from unfair bias towards achieving any particular result.

Evaluation process included close reading of the product's functional specifications, note transcription throughout the evaluation process.

The evaluation was performed under the methodology of BetaWatch Inc. proprietary Sanity Check © and Test Matrix ©. The Evaluator wrote a series of random tests covering the nine working modules, based on ISO 9126 principles.

Evaluator's tests contributing to the certification were carried out on the production server. For the test results see the Annex A: "Test Matrix".

Evaluator's Tests

ISO criteria	Test	Certification Report No. ERP084 specific evaluation
Functionality	Series of random tests of each module [See Annex A STEELMAN test matrix]	Is the claimed functionality really available?
Reliability	Consideration to application architecture, implementation language, structural integrity of the code, scalability [support for concurrent transactions]	Do the applications maintain a high level of performance under stated conditions for a stated period of time?
Usability	Consideration to the specific tracking and business intelligence needs of Steel Service and Processing Center and software functionality	Is the application useful to the Steel Service and Processing Center?
Efficiency	Hands on evaluation and User Manual review	Once running is the application easy to run?
Maintainability	Investigate competency, loyalty and length of service of the core development team	Estimation of development teams' ability needed to make specified modifications to the application?
Portability	Investigation into data conversion in a structured format	Can the software be transferred from one environment to another?
Security	Application review	Is there an easily integrated extra security available?

EVALUATION OUTCOME

ISO criteria	Result	Test	Certification Report No. ERP084 Specific evaluation
Functionality	Functionality works as described	Series of random tests of each module [See Annex A STEELMAN test matrix]	Is the claimed functionality really available?
Reliability	Set up in standard directory in modular structure, neatly phrased, support 15,000 concurrent transaction/min	Consideration to application architecture, implementation language, structural integrity of the code, scalability [support for concurrent transactions]	Do the applications maintain a high level of performance under stated conditions for a stated period of time?
Usability	Easy to navigate logical pop down menus reduces typing errors and ensures data integrity. Automatic currency and measurement conversions. Convenient calendar and notification features guarantees that all stakeholders of the steel service and / or processing center are on the same page. The wealth of knowledge is filtered into excel easy to read reports.	Consideration to the specific tracking and business intelligence needs of Steel Service and Processing Center and the functions of the software	Is the application useful to the Steel Service and Processing Center?
Efficiency	Works as described and users can use the system with ease	Hands on evaluation and User Manual review	Once implemented, is the application easy to run?
Maintainability	Average length of service to development is five and a half years. Team of three is very loyal, technically competent, and dedicated to maintaining the software. Willing to host and manage an installation either remotely, in a secure data center, or at client site.	Investigate competency, loyalty and length of service of the core development team	Estimation of development teams' ability needed to make specified modifications to the application?
Portability	Yes. A SQL database can be ported into this application.	Investigation into data conversion in a structured format	Can the software be transferred from one environment to another?
Security	User Name and Password Authentication and optional Oracle SSL™	Application review	Is there an easily integrated extra security module available?

The integrated modular software, STEELMAN – SC version 1.0 recognizes and understands Steel Service and Processing Centers business from a corporate and data intelligence standpoint, and delivers an enterprise-wide solution. Mission critical decisions require instantaneous access to information. The application will give customers a first-mover advantage. Drawn from extensive experience in the field, STEELMAN – SC helps strategic business decision process for Steel Service and Processing Center growth.

Protection of Profile Conformance

Those responsible for the Steel Service and Processing Center must ensure that it is installed and managed in an appropriate manner. Those responsible for the system must train an administrator to establish and maintain sound policies and practices. The Administrator of the system must ensure that the software is used and managed effectively. In particular, the Administrator should ensure careful entry of products into the Product Master Table. Regular database back up and off site storage is imperative. Furthermore, the Administrator should become familiar with the Oracle Discoverer query tool and assist users to use the depth and breadth of available Reports.