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High Volume Processing for Global Organizations

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Director, Product Strategy



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High Volume Order Processing (HVOP)

What is it?



- Alternate way to import orders
- Introduced in Release 11.5.9
- Leverages the same Order Management interface tables
- Imports Orders faster than Order Import
- Consumes lesser CPU
- Require some preprocessing
 - Use for EDI, XML, Rosetta net
- Leverages your preprocessor
- Also known as HVOP

High Volume Order Processing (HVOP) Key Uses



HVOP is designed for ...

- Larger order volumes – 30,000 to 100,000 lines per day, or more.
- Limited time for importing, i.e. 5000 lines per CPU in an hour.
- Limited hardware -- CPU processing power and memory.

High Volume Order Processing (HVOP) How is performance improved?



- By using the Bulk processing features of RDBMS
- By processing orders in batch, rather than processing order by order
- By supporting a more limited set of features which are suitable for a more simplified architecture

Compared to standard Order Import, users may observe 2-fold to 4-fold improvement.



High Volume Order Processing (HVOP) Similarities of Order Import & HVOP

- Uses the Order Import Interface Tables
- Creates and Books Orders
- Runs as a concurrent Request
- Leverages your preprocessor investment
- Use the Corrections Form to correct data



High Volume Order Processing (HVOP) Difference Between Order Import & HVOP

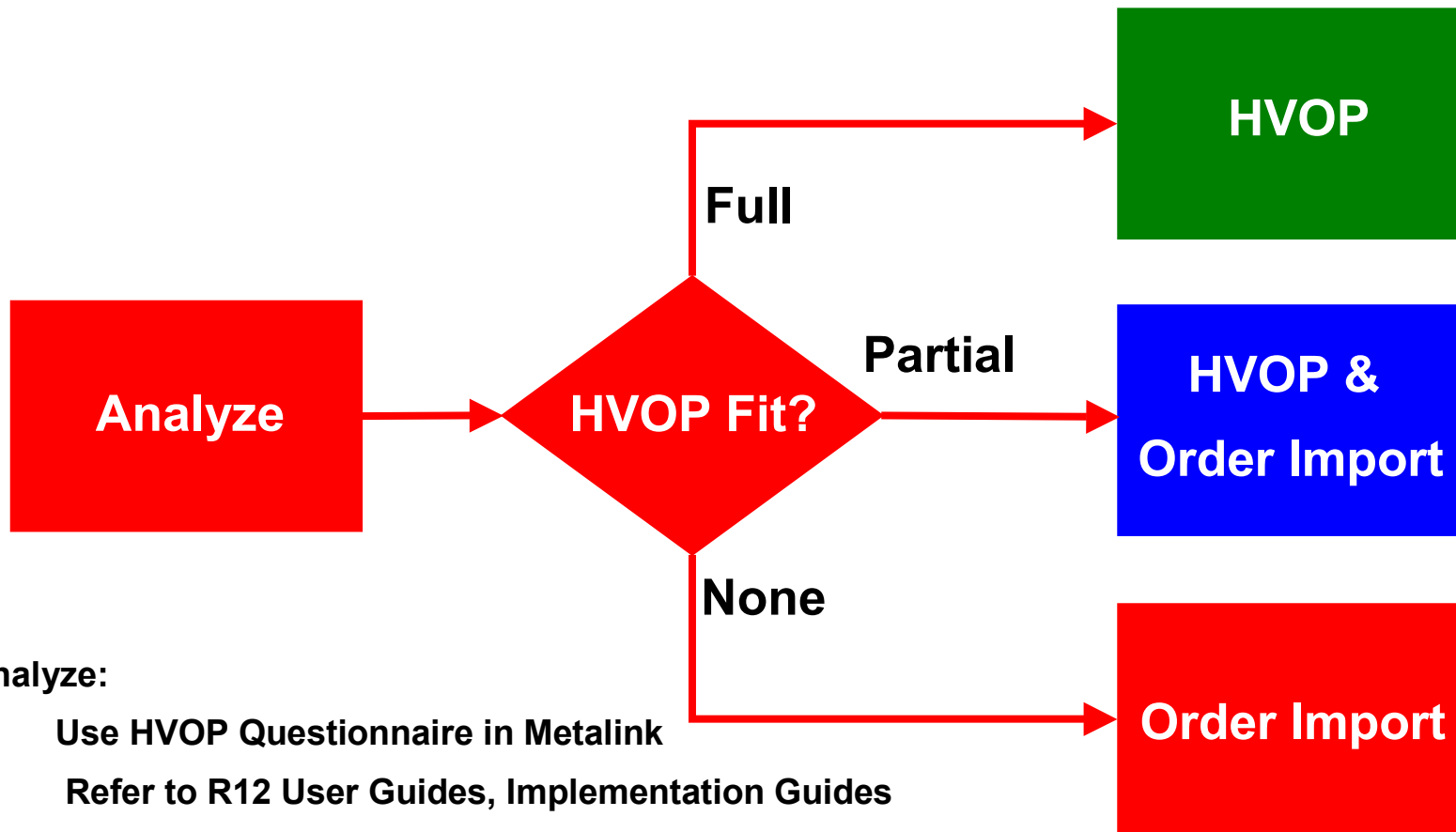
- HVOP
 - In memory bulk processing
 - Assumes all data in interface tables are populated
 - Greener – Uses less CPU
 - Faster
- Order Import
 - Uses the Process Order API
 - Will default data based on defaulting rules, for data not populated in interface tables



High Volume Order Processing (HVOP) Features

- Supports
 - Importing Standard Items
 - Importing Kits
 - Importing Configurations
 - Ship, Arrival, Fulfillment sets
 - Pricing
 - Calculating Tax
 - Credit Checking
 - Booking
- Does Not Support
 - Drop Shipments
 - Sales Credits
 - Gapless Order Numbering

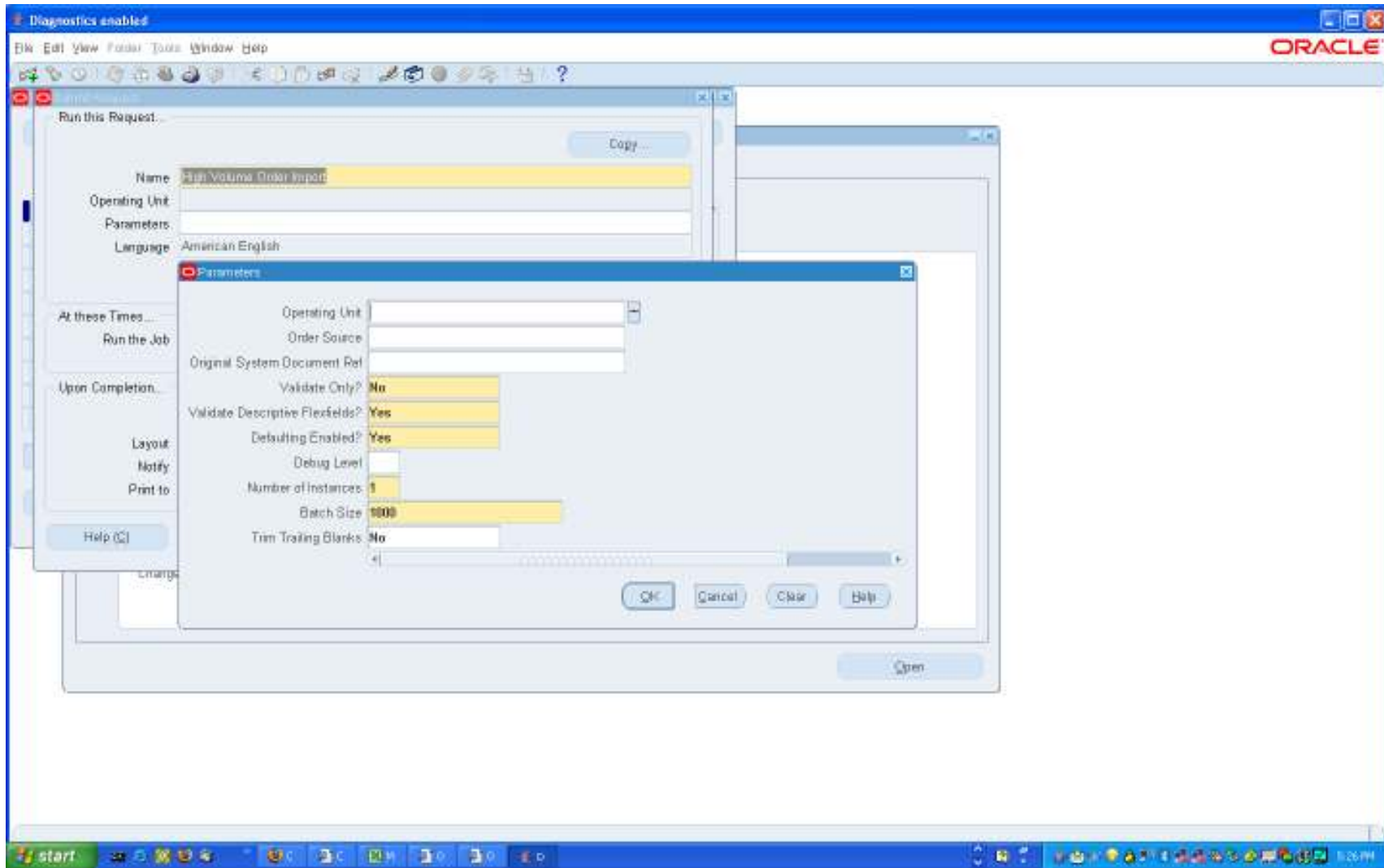
High Volume Order Processing (HVOP) Deciding on an Implementation Approach



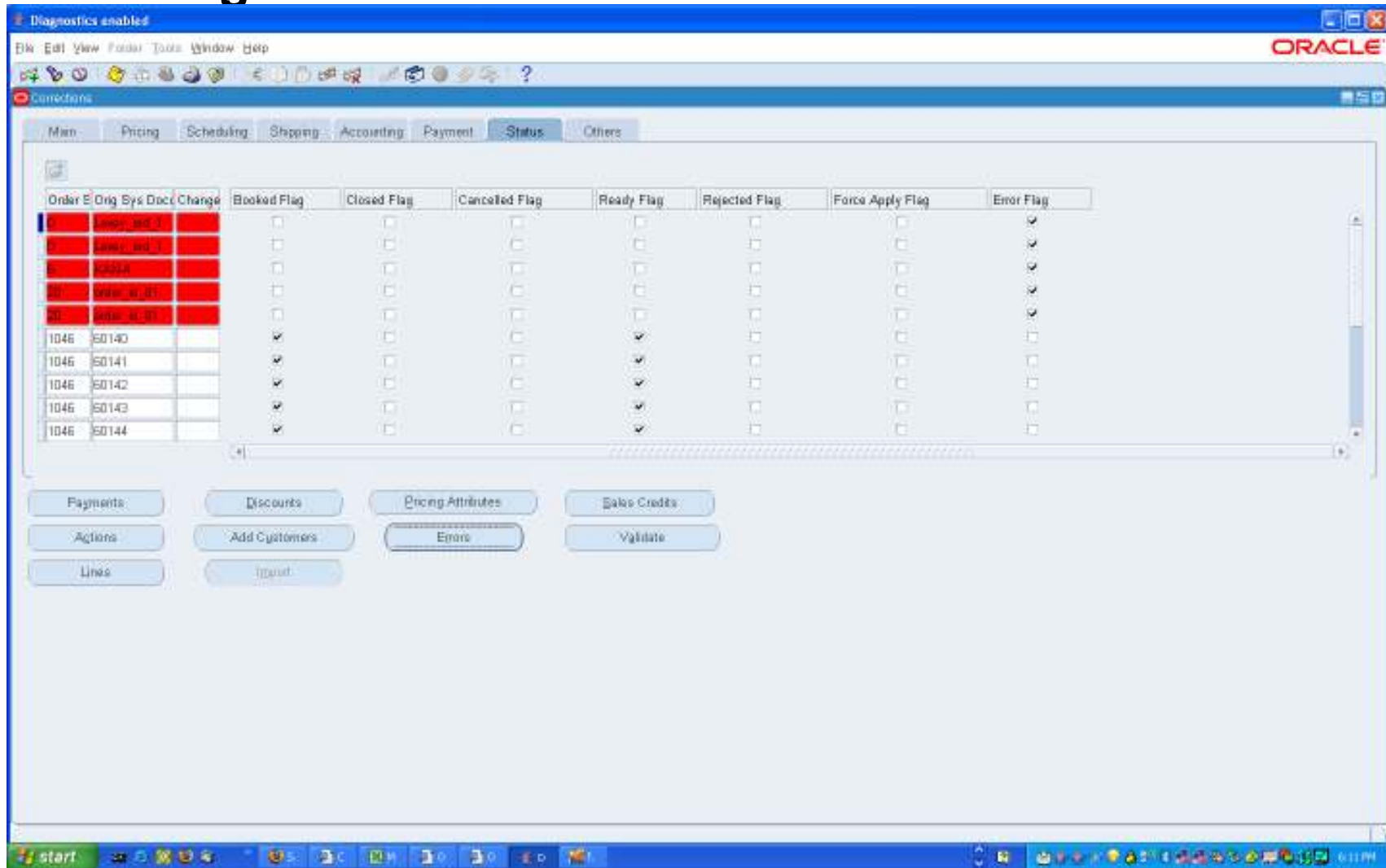
Analyze:

1. Use HVOP Questionnaire in Metalink
2. Refer to R12 User Guides, Implementation Guides
3. Ask questions in forums, mix
4. Create a pilot project and try out

High Volume Order Processing (HVOP) Parameters



High Volume Order Processing (HVOP) Making Corrections



The screenshot shows the Oracle Order Processing Corrections window. The window title is "Diagnostics enabled" and the Oracle logo is in the top right corner. The menu bar includes "File", "Edit", "View", "Format", "Tools", "Window", and "Help". The toolbar contains various icons for navigation and actions. The main area is titled "Corrections" and has tabs for "Main", "Pricing", "Scheduling", "Shipping", "Accounting", "Payment", "Status", and "Others". The "Status" tab is selected, showing a table of order corrections.

Order #	Orig Sys Doc#	Change	Booked Flag	Closed Flag	Cancelled Flag	Ready Flag	Rejected Flag	Force Apply Flag	Error Flag
5	Order - ad 3		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5	Order - ad 3		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5	Order - ad 3		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
20	Order - ad 01		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
20	Order - ad 01		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
1046	SD140		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1046	SD141		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1046	SD142		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1046	SD143		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1046	SD144		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Below the table are several buttons for actions: Payments, Discounts, Pricing Attributes, Sales Credits, Actions, Add Customers, Errors, Validate, Lines, and Import.



High Volume Order Processing (HVOP) Key Takeaways

- HVOP is an alternate way to import orders
- HVOP imports orders faster than regular order import
- HVOP uses the same order import interface tables
- HVOP can leverage your existing pre processor investment
- Not all orders can be imported using HVOP
- HVOP and order import can be used together to achieve an optimum order entry speed for your organization
- You already have HVOP, if you are in release 11.5.9 or higher



High Volume Order Processing (HVOP) Need More information?

- R12 Order Management Implementation Guide (Chapter 19)
 - Search for the word “HVOP” or “High Volume”
- R12 Order Management User Guide (Chapter 2-128)
 - Search for the word “HVOP” or “High Volume”
- Metalink
 - Search for the word “HVOP”
- Pose Questions in Oracle Forums (forums.oracle.com)
 - Community Discussion Forums >> E-Business Suite >> SCM – Order Management
 - [Community Discussion Forums](#) » [E-Business Suite](#) » [SCM - Order Management](#)
 - Join forums, if you haven't already
- Pose questions at (mix.oracle.com)



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Release 12 Overview

Order Management



Order Management Key R12 Features

- All of 11i features
- New User Interface
- Multi-Org Access Control
- One inventory module for process & discrete organizations
- COGS / revenue recognition in the same accounting period
- Customer acceptance
- Calculation of periodic charges for fixed prices
- Capture credit card security code, CVV2
- Use Orders tab in Contact Center to view, add, & configure Comms services
- Workflow validation tool
- Exception Management



R12 Order Management New User Interface

- Project “**Swan**”
 - New Color, Icons and 3-D Appearance
 - Consistent with other Product Lines
- Reduced Pop-ups and Duplicate Screens
- Improved Fonts
- Increased Personalization Capabilities
- Improved look and feel for portal, login screens
- Customizable login screen to proceed to any page after login (e.g., skip the portal page)

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*User Name
(example: michael.james.smith)

*Password
(example: 4u99v23)

Login Assistance

Accessibility

Select a Language:
English

New Look





Advanced Pricing - Price Lists

Main Other

Name: Corporate Mobile Download Active

Description: Corporate Price List

Currency: USD Multi-Currency Conversion: Corporate Pricelist Conver: Round To: -2

Effective Dates: 01-JAN-1996 - Global Operating Unit:

Freight Terms: Prepay & Add Payment Terms: 30 Net Freight Carriers:

Comments: []

List Lines Secondary Price List Qualifiers

Product Context	Product Attributes	Product Description	U	
Item	Item Number	QP-LPTR-U	Usage item for laser printers	E
Item	Item Number	USG002	USAGE ITEM ON PRICE RANG	E
Item	Item Number	FS-LPTR-U	Usage item for PM Laser Printer	E
Item	Item Number	U-Z101	Usage Item for Zeo Laser Printer	E
Item	Item Number	US06050 - Range base	US06050 - Range based Usage	E

Price Breaks Pricing Attributes

New Look



ORACLE Customers

Home Logout Preferences Help Diagnostics

Customers >

Customer: Business World

Enrich Cancel Save Apply

Customer Type **Organization**

Customer Information

* Organization Name

* Registry ID

Context Value

New Forms

Accounts Profile Communication Party Relationships Tax Profile

Accounts

Status

Account Number	Account Description	Profile Class	Primary Bill-To Address Details
1608	Business World	Average	<input type="button" value="Details"/>

Sites

Status

Operating Unit

Show related contact sites

Address	Country	Purposes	Operating Unit	Site Number	Details	Remove
2391 L Street, SAN JOSE, CA 95106	United States	Bill To, Legal, Ship To	Vision Operations	2227	<input type="button" value="Details"/>	<input type="button" value="Remove"/>
8475 Elk Grove Road, NEW YORK, NY 10000	United States	Bill To, Ship To	Vision Operations	2228	<input type="button" value="Details"/>	<input type="button" value="Remove"/>
The Riverside, READING, RG6 1RA, UNITED KINGDOM	United Kingdom	Bill To, Ship To, Sold To	Vision Operations	15048	<input type="button" value="Details"/>	<input type="button" value="Remove"/>
11 Rue Fromage, 75008 PARIS, FRANCE	France	Bill To, Ship To, Sold To	Vision Operations	15049	<input type="button" value="Details"/>	<input type="button" value="Remove"/>





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Diagnostics Preferences Close Window

View : Item Instance : 2027122 > Item Instance Search >

View : Item Instance : 72911

Item **AS18947** System
 Item Description **Sentinel Deluxe Desktop** Owner **Business World**
 Serial Number **SN100019** Account Number **1608**

General Location Associations **Configuration** Counters Notes

Relation Type Version **New Design**

[Expand All](#) | [Collapse All](#)

Focus	Item Instance	Item Description	Item	Serial Number	Quantity	Status
<input type="checkbox"/>	2027122	Sentinel Custom Desktop	CN92777		1	CREATED
<input checked="" type="checkbox"/>	2027121	CTO Sentinel or Laptop.512.1.44 MB.48X	CN92777*175779		1	CREATED
	2027109	Floppy Drive - 1.44 MB	CM67433		1	CREATED
	2027115	Software - Word Processing	CM54321		1	CREATED
	2027116	Software - Web Browser	CM56560		1	CREATED
	2027117	Software - Spreadsheet	CM59311		1	CREATED

[Return to Instance Search](#)

Diagnostics Preferences Close Window

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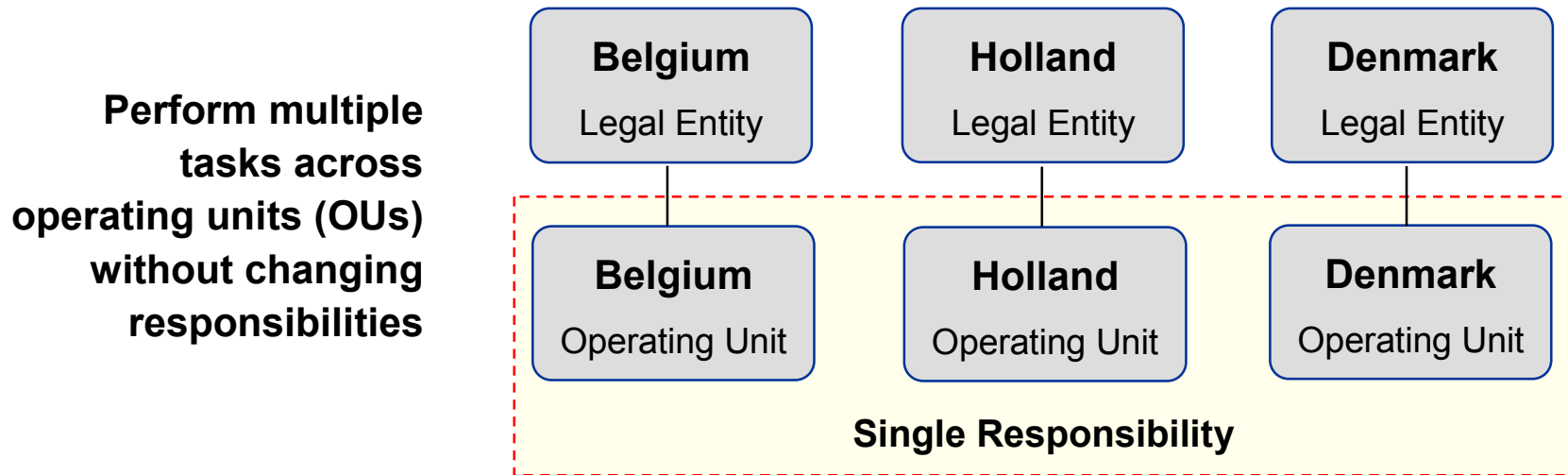
Other Item Instance Details

- [Transaction History](#)
- [Item Instance History](#)
- [Operating Units](#)
- [Contracts](#)
- [Orders](#)
- [Service Requests](#)
- [Repair Orders](#)
- [Assets](#)
- [Work Orders](#)
- [Work Requests](#)



R12: Multi-Org Access Control

Increase the efficiency of shared services and single database operations with streamline ACCESS, processing and reporting across operating units

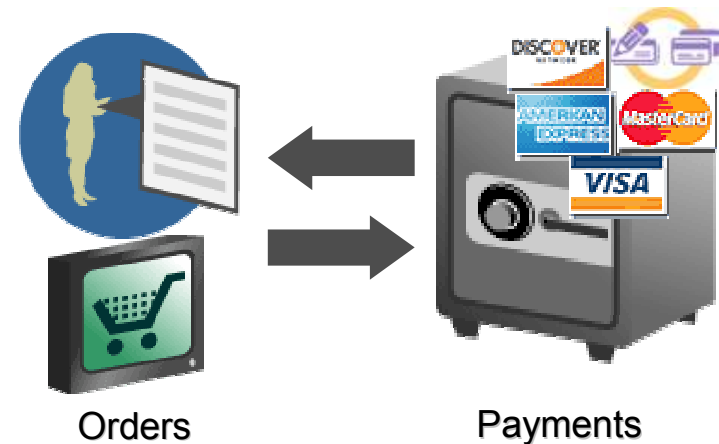


For Example:

- Define and manage OUs from a central location
- **Enter orders for different OUs**
- View and manage customers across OUs
- Enter and pay invoices across OUs
- Receive goods across any OU
- Negotiate with suppliers for your enterprise, not just your OU

R12 Credit Card Security

- Payment data consolidated
 - Credit cards
 - Debit cards
 - Customer bank accounts
 - Supplier bank accounts
- Credit Card Security Code (a.k.a CVV2 code)
- Security through encryption and masking
- Complies with PCI security standards



No more customization to encrypt payment data!

R12 Credit Card Security

The screenshot displays the Oracle Applications AOS Vision interface. The main window is titled "Sales Orders - Computer Service and Parts". The "Main" tab is active, showing a form for "creditcardw2". The form contains the following fields:

Price List	Corporate	Salesperson	Sell, Thomas
Warehouse	MI	Card Brand	MasterCard
Shipping Method		Credit Card Num	000000000001111
Payment Type	Credit Card	Card Expiration Date	07-2015
		Security Code	923

Below the form is a table with the following columns: Line, Ordered Item, Qty, UOM, Item Description, Request Date, Schedule Ship Date, Unit Price, Extens, Price List, Whse, Payment Terms, Shipping Method, Status, and Lr. The table is currently empty.

At the bottom of the window, there are buttons for "Actions", "Related Items", "Configure", "Availability", and "Book Order".

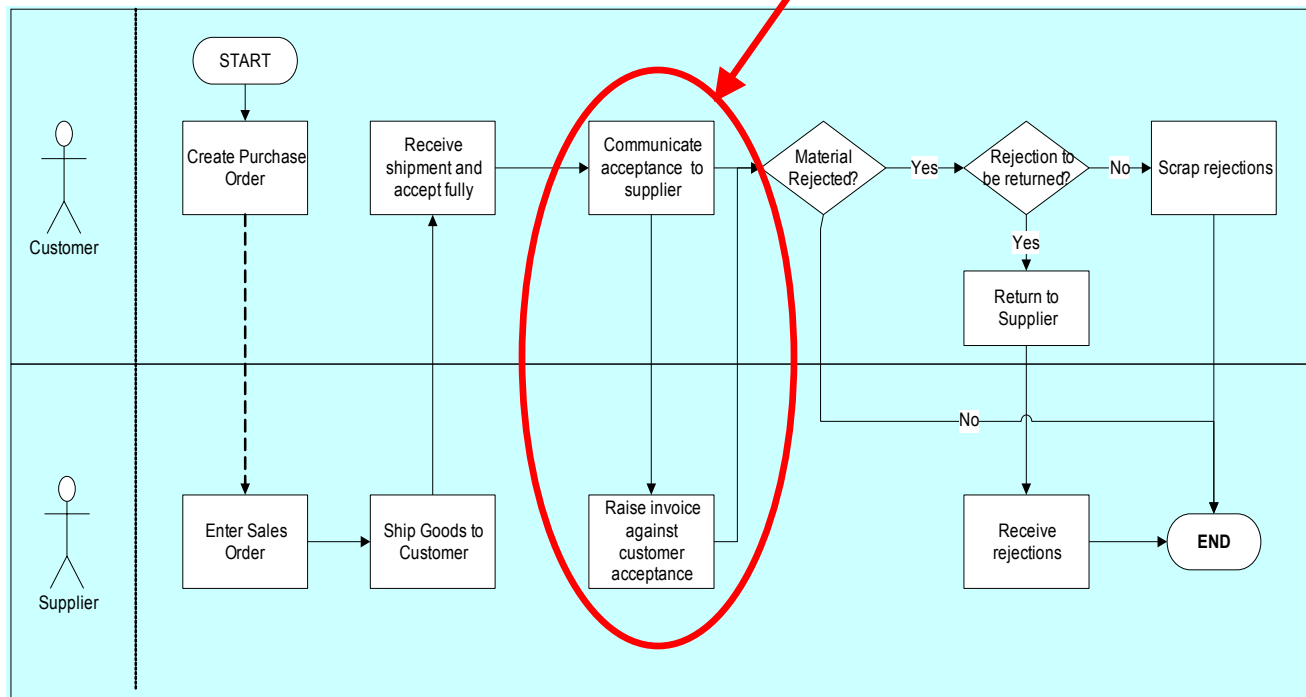
Two callout boxes are present:

- A callout box labeled "Masked card number" points to the "Credit Card Num" field, which contains the value "000000000001111".
- A callout box labeled "Card security code" points to the "Security Code" field, which contains the value "923".

R12 Customer Acceptance

- Pre Billing
 - Implicit Acceptance
 - Explicit Acceptance/Rejection
- Post Billing
 - Implicit Acceptance
 - Explicit Acceptance/Rejection

Customer Acceptance: Quantity Accepted/Rejected



Can also be used for Trial Before Buy – Trial orders

R12 Customer Acceptance

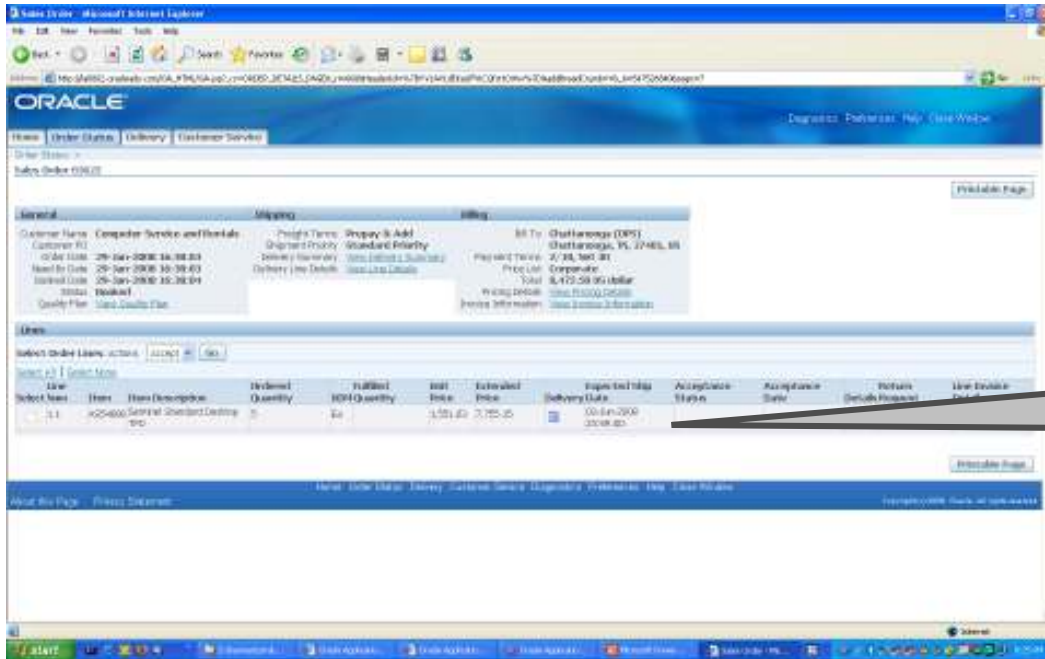
The screenshot displays the Oracle Applications R12 Customer Acceptance interface. The main window is titled "Oracle Applications - ADS Vision" and contains several sections:

- Header:** Includes menu options (File, Edit, View, Folder, Tools, Window, Help) and the Oracle logo.
- Main Form:** Contains fields for "Operating Unit" (Vision Operations), "Order Number" (65575), "Subtotal" (1,951.03), "Tax" (143.47), "Charges" (0.00), and "Total" (1,694.50). It also includes "Address Information" with fields for "Ship To Address" and "Bill To Address" (301 Summit Hill Drive, Chattanooga, TN, 37401).
- Table:** A table with columns: Line, Ordered Item, Qty, Acceptance Name, Acceptance Type, Acceptance Date, and Acceptance Comments. The first row shows Line 1.1, Ordered Item, Qty 1, Acceptance Name "Pre-Billing Acceptance", and Acceptance Type "Invoicing".
- Bottom Section:** Includes a "Description" field (Sentinel Standard Desktop TPD), "Line Total" (1,551.03), and "Service Total". Below this are buttons for "Actions", "Related Items", "Configurator", "Availability", and "Book Order".
- Context Menu:** A "Action" menu is open, listing various actions such as "Edit Promotion/Pricing Attributes", "Edit Sales Credits", "Fulfillment Acceptance", "Get Cost", "Get Freight Rates for Order", "Get Ship Methods and Rates for Order", "Go To Line", "Item Instance Query", "Move To Arrival Set", "Move To Ship Set", "Payments", "Preview and Print", and "Print Line".

Two callout boxes highlight specific features:

- Acceptance Attributes:** A callout box pointing to the "Acceptance Name" and "Acceptance Type" columns in the table.
- Acceptance Action:** A callout box pointing to the "Action" menu.

R12 Customer Acceptance



Select Lines to Accept

The screenshot shows the 'Process Acceptance' form. At the top, there's the Oracle logo and navigation links: Diagnostics, Preferences, Personalize Page, and Close Window. The form title is 'Process Acceptance' and it includes a note: 'Indicates required field'. The form contains several input fields: 'Acceptance Reference Document' with the value 'Fax 14598', 'Acceptance Date' with the value '08-Nov-2005 08:40:05' and a timestamp '(example: 24-Oct-2005 19:45:00)', 'Acceptance Comments' with the value 'Looks good', and 'Acceptance Customer Signature' with the value 'Bob Adams'. There are 'Cancel' and 'Submit' buttons next to the 'Acceptance Comments' and 'Acceptance Customer Signature' fields. At the bottom, there's a copyright notice: 'Copyright 2000-2005 Oracle Corporation. All rights reserved. About This Page' and a 'Privacy Statement' link.

Key in Details

R12 Order Management Other Enhancements

- Cascading changes from header to line
- Customer credit hold source across Operating Units
- Expose Account Name in Order forms
- Mass scheduling





R12 Order Management Other Enhancements (Contd.)

- Workflow Validation Tool
 - Detects workflow errors
 - Helps validate workflow changes
- Exception Management
 - Restarts stopped workflows
 - Helps resolve unexpected errors in Order flow
 - Online
 - Batch (Concurrent Request)

Comprehensive Integration Repository

Simplify and accelerate systems connectivity

A Catalog of All EBS Integration Points

- Web Services
- Business Events
- Public Java & PL/SQL APIs
- Batch Interfaces

ORACLE Integration Repository

View: Product Family

E-Records Evidence Store APIs

Get e-record ID [Search] [Printable Page]

Internal Name: **GET_ERECORD_ID** Status: **Active**
Interface: **EDR_ERES_EVENT_PUB** Scope: **Public**
Type: **PL/SQL**
Business Entity: **E-Records Evidence Store**

Description
This API obtains the e-record ID for an event name and event key combination from a table of ERES events. The updated e-record ID for the combination is returned. Use this API in conjunction with 'Raise related e-signature events' API only.

Signature

Name	Type	Direction	Precision/Size	Default Value	Description
P_API_VERSION	NUMBER	In			
P_INT_MSG_LIST	VARCHAR2	In		NULL	
X_RETURN_STATUS	VARCHAR2	Out			
X_MSG_COUNT	NUMBER	Out			
X_MSG_DATA	VARCHAR2	Out			
P_EVENTS	ERES_EVENT_TBL_TYPE	In			
P_EVENT_NAME	VARCHAR2	In			
P_EVENT_KEY	VARCHAR2	In			
X_ERECORD_ID	NUMBER	Out			

- Enable key integration types
 - Business to Business
 - Enterprise Application Integration
 - Business Process Management
 - Business Activity Monitoring
- Support industry-standard messages
- Support standards-based XML documents
- Search and view available interfaces via powerful UI
- Automatically keep in step with source code via standard patching

Evolution of Oracle Order Fulfillment – Order Mgmt

New in 11i.9

- Sales agreements and blanket orders
- Optimized order entry through new user interface
- Pricing & Availability
- Very high volume order import
- Freight rating / ship method selection
- Multiple payments
- Integrated service provisioning capabilities
- Fully automated shipping for “hands off” shipping ops
- Cross-/up-sell related items
- Subscription order processing
- Multiple instantiation of configured products
- XML-based order entry

New in 11i.10...

- Author and negotiate terms on sales agreements
- Down payments, with quick receipt, for retail; additional payment types
- Item Substitution
- Scarce inventory allocation
- Catch weight pricing for either discrete or process items from a WMS inventory organization
- Provide choices for freight rating
- Drop ship change management
- Simple negotiations
- XML-based change orders
- Rosettanet PIPs

New in R12...

- All of 11i features
- Multi-Org Access Control – enter or process orders for multiple operating units with single responsibility
- One inventory module for process & discrete organizations
- Ensure COGS / revenue recognition occur in the same accounting period
- Ensure customer acceptance before invoicing
- Calculation of periodic charges for fixed prices
- Capture credit card security code, CVV2
- Use Orders tab in Contact Center to view, add, and configure Comms services
- Workflow validation tool
- Exception Management



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12.1 Overview

Order Management



Order Management 12.1

Candidate Features

- Item Orderability 
 - Lets you restrict who orders what
 - Based on Item Orderability Rules
 - Applicable for items and item categories
 - Ordering Restrictions can be based on time
- RMAs based on ship quantities
 - Lets you return and credit over-shipments
- Decimal quantity support in Sales Agreements
 - Lets you specify decimal values on a Sales Agreements
 - Consistent with ordering quantities
- Improved install base search while ordering services
 - Lets you search the install base of related customers



Order Management 12.1 Candidate Features (Contd.)

- **Delayed Scheduling**
 - Automatically Schedules when an order is saved
 - A new flavor of auto scheduling
- **Intelligent workflow activity hold**
 - Only applies hold if a workflow activity has not been reached
 - Does not apply on workflow activities that are completed
- **Increase search attributes on scheduler organizer**
 - Full and Partial search on customer PO
- **Improved visibility to BOM**
 - View latest BOM after configuration has been booked



Order Management 12.1 Candidate Features (Contd.)

- Allow partial picking of lines on credit check hold
 - Based on credit exposure of lines to be picked
- Improved Item Substitution
 - Substitute items after booking
 - Substitute items from Planners workbench



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Beyond 12.1 - Roadmap

Order Management



Order Management Roadmap...

Candidate Features

- Solution Ordering
 - Integrated orders of Goods & Services
- Order Fulfillment for whole sale distribution
- Enhanced Blanket Sales Agreements
- Enhanced Payments
- High Volume Order Processing
- High Speed Order Entry
 - Template orders 

Provide feedback about our roadmap on the survey!



Need More information

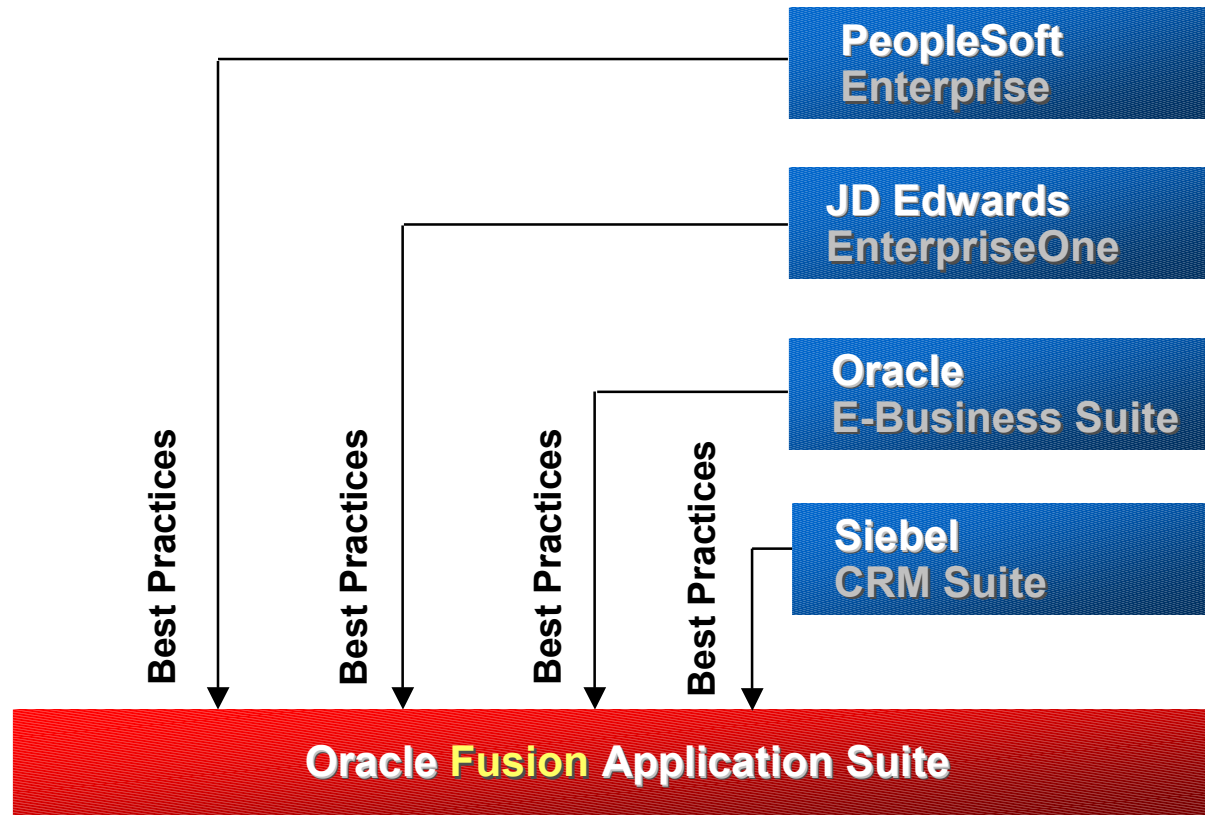
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 - [Community Discussion Forums](#) » [E-Business Suite](#) » [SCM - Order Management](#)
 - Join forums, if you haven't already
- Pose questions at (mix.oracle.com)



Fusion OM Roadmap



Fusion Order Management
Best of the Best - Insuring a Clear Path Forward




Fusion Applications will include a comprehensive feature set & data model from current E, E1, EBS and Siebel



For More Information

search.oracle.com



or

oracle.com



O & *A*



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