

NCOAUG

NORTH CENTRAL ORACLE APPS USER GROUP

TRAINING DAY AUGUST 1, 2019



Complex Custom Invoicing in Oracle Receivables Cloud

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About Grant Thornton



Office locations

58 offices spread across 30 states and Washington D.C.



People

More than **8,500** professionals in the U.S.



Reach

Serve 36% of companies on the 2018 Fortune 500 list and 25% of companies on the Russell 2000 list



Partners

623 partners serving more than 8,000 clients in the nation



Our services

• Assurance • Tax • Advisory



Revenue

GT U.S. net revenue equals **\$1.87 billion**

stats are as of 12/31/2018

Our Oracle Practice

Creating business harmony in the cloud



ERP and SCM

Financials | Revenue management | Accounting hub | Project accounting | Risk management | Project execution
Procurement | Inventory management | Cost management | Maintenance | Manufacturing | Order management | Product lifecycle and data management | Supply chain collaboration and planning



EPM Analytics

Planning and budgeting | Profitability and cost management | Financial close and consolidation | Tax reporting and provisioning
Management and operational analytics | Narrative reporting | Account reconciliation | Enterprise data management



HCM

Culture journey | Talent acquisition | Workforce administration | Talent management | Workforce development
Alumni network

Data governance & cloud integration

PaaS

Solution delivery center (off-shore and on-shore)

Industries

Construction,
Real Estate
& Hospitality

Consumer
And Industrial
Products

Energy

Financial
Services

Healthcare
And Life
Sciences

Not-For-Profit
Organizations

Private Equity

Public Sector

Technology



Enterprise Resource Planning

Our ERP practice leverages deep functional & technical skills across the full spectrum of ERP operations, offers business insights, tools and techniques to help organizations define and refine business processes and use technology to enable strategy and vision and transform their business.



Finance & Accounting

Projects

Procurement

Order Management

Supply Chain

Reporting

System Strategy

Implementation

Technology integration

Updates, optimization & support

- Roadmaps
- System assessments
- Business case development
- Gap analysis

- Strategy and planning
- Comprehensive project and program management
- Operating model design
- Business process re-engineering
- Organizational alignment
- Integrated change assurance

- Integration design & development
- Reporting integration
- Tax integration
- Application extensions
- Master data management
- Edge product integration

- Evaluation & planning
- Upgrade impact assessment
- Capability rationalization
- Upgrade execution
- Managed services
- Proof-of-concept



Agenda

- Requirements and Invoice Overview
- Solution Overview
- AutoInvoice Preprocessor (AIPP)
- Custom Invoice Print program

Requirements and Invoice Overview



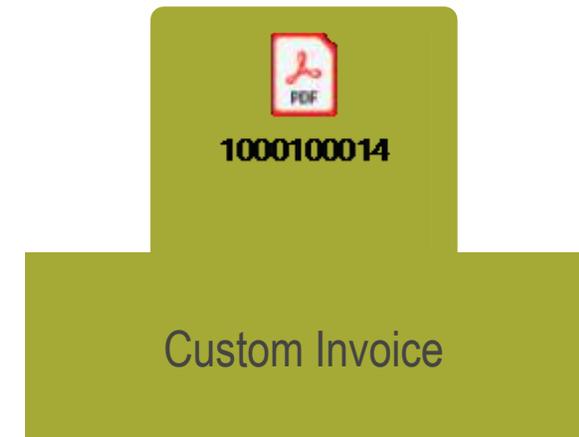
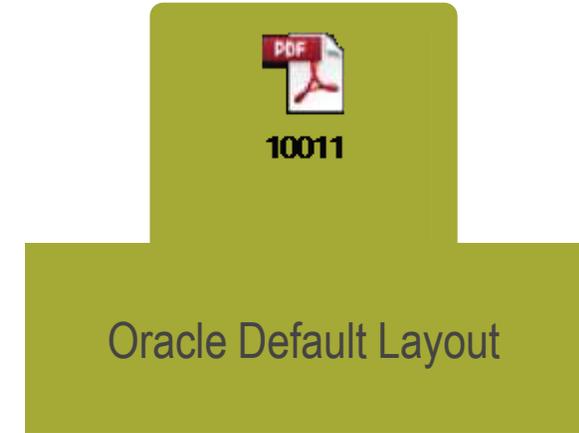
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Custom Oracle Invoice

Requirements

- Work for many countries (all in English)
- Contain many additional values
- Multiple, flexible summary levels
 - Labor by (job) or by (job and person)
 - Nonlabor by (expenditure category) or (expenditure category and expenditure type)
- Allow flexible assignment of text blocks to print
 - Remittance Instructions
 - Collections Message (email address and phone number)
- Supporting schedules
 - Labor
 - Nonlabor
 - Events



Gen Logo Malaysia Sdn. Bhd.
Suite 10, Level 30 Central Plaza, 68
Jalan Sultan Ismail
Kuala Lumpur
Wilayah Persekutuan 50250
MALAYSIA

Company name from LE

Address from LE DFFs

INVOICE

INVOICE or CREDIT MEMO, depending on trx class



generic logo
company

Different logos for each LE

Legal Company Message (80)
VAT ID: MY12345678-90
Reg#: 73607377

4 Custom ID fields from LE DFFs

Optional Entity ID Field #3 (30)
Optional Entity ID Field #4 (30)

Invoice Date	Terms	Due Date	Invoice Number	Currency
19-Jul-2017	Net 30	18-Aug-2017	7034001001	USD

Bill To

Jones Lorry
Cherwell House
Abbey Road
Whitley
Coventry, JA7 4LF
Great Britain

Customer address formatted for each country with Flexible Address Formats. Maximum of 5 address lines so address always appears in envelope window

Customer PO Number: XD4200058403
Contract Number: JLR002.001
Contract Name: BIP Technical Training
Invoiced Through: 30-Jun-2017
Ship To: City, State (in US only)

Fields pulled from the contract in Projects

Reg#: 478301234
NIP: PL111111234

4 custom ID fields from customer account

Optional Customer Account ID Field #3 (60)
Optional Customer Account ID Field #4 (60)

Optional Message from Customer Account Level DFF (240?)
Optional Message from Customer Address Level DFF (240?)
Optional Message from Contract Header Level DFF (240?)
Optional Message from the Invoice Header Special Instructions field (wrapped, long field)

4 longer strings from various DFFs and Special Instructions

Invoice Header

Invoice Body – Labor Detail Format

Description	Quantity	Rate	Amount in USD
Training Administrative Services (WXYZ QA/Copy Edit – Labor 1 Detail)			
ISD			
BV, Krishna	17	100.00	1,700.00 T
Schraner, Karen	11	110.00	1,210.00 T
ISD Total	28	109.93	2,910.00
Project Manager			
Bohning, Ben	10	100.00	1,000.00 T
Snodgrass, Dave	20	120.00	2,400.00 T
Project Manager Total	30	113.33	3,400.00
Subtotal	58		6,310.00

Job name header from a DFF on the invoice line

Section header from contract line

'T' means there is non-zero tax on the line

Job name footer from the same DFF on the invoice line

Projects always sends Quantity=1 and Price=Total, but this solution replaces those with real values from hours and hourly rate

These are the real invoice lines

All subtotals are calculated in the report. They are not on the invoice transaction

Subtotal for the section

Invoice Body – Labor Summary Format

Training Administrative Services (WXYZ QA/Copy Edit – Labor 2 Summary)			
Project Manager	30	113.33	3,400.00
ISD Total	28	109.93	2,910.00
Subtotal	58		6,310.00

Labor Detail format shows one line per person (within Job). Labor Summary shows one line per Job.

Invoice Body – Other Formats

Training Delivery (WXYZ QA/Copy Edit - Courses)

Oracle BI Publisher Layouts	Units Format	3	1,800.00	5,400.00	T
Ethical Report Writing		2	1,500.00	3,000.00	T
Subtotal		5		8,400.00	

LMS Support (WXYZ QA/Copy Edit - Milestones)

Monthly Service Fee	Milestone Format			5,000.00	
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Training Administrative Services (WXYZ QA/Copy Edit – Expenses Summary)

Other				142.66	T
Per Diem				804.43	T
Travel				2,677.76	T
Subtotal				3,624.85	

Nonlabor Summary format shows one line per expenditure category. Nonlabor Detail format would show one line per Expenditure Type (within Expenditure Category)

Nonlabor Summary Format

Invoice Footer

Total			Pretax total of the invoice. This doesn't print if there is no tax on the invoice.	23,334.85
Tax Code	Tax Rate			Tax Amount
GB VAT STANDARD	20%		Tax section shows each tax code, its rate, and the total tax amount for that rate. This entire section doesn't print if there is no tax on the invoice.	3,666.97
Total Amount Due				23,001.82

PLEASE REMIT PAYMENT TO:
P.O. Box 932816
Atlanta, GA 31193-2816
United States of America

Bank Details:
Wells Fargo Bank
ABA # 121000248
Swift Code: WFBIUS6S
Bank Account# 2000020791818

Remittance instructions are custom to each LE/BU and currency combination. The actual text is stored in Receivables Standard Messages

Grand total of the invoice

Please direct invoice questions to an AR Specialist at 855-890-1234, #3, or send an email to ar@genlogo.com.

Custom Collections Message is derived similarly to the Remittance Instructions

Labor Supporting Schedule

Job	Name	Date	Quantity	Rate	Amount
Training Administrative Services (WXYZ QA/Copy Edit - Labor)					
Project Manager	Bohning, Ben	22-Jul-2017	2	100.00	200.00
Project Manager	Bohning, Ben	29-Jul-2017	8	100.00	800.00
Project Manager	Bohning, Ben		10		1,000.00
Subtotal by job and person					
Project Manager	Dave Snodgrass	08-Jul-2017	8	120.00	960.00
Project Manager	Dave Snodgrass	15-Jul-2017	8	120.00	960.00
Project Manager	Dave Snodgrass	22-Jul-2017	4	120.00	480.00
Project Manager	Dave Snodgrass		20		2,400.00
ISD	BV, Krishna	22-Jul-2017	10	100.00	1,000.00
ISD	BV, Krishna	29-Jul-2017	7	100.00	700.00
ISD	BV, Krishna		17		1,700.00
ISD	Schraner, Karen	29-Jul-2017	11	110.00	1,210.00
ISD	Schraner, Karen		11		1,210.00
Total			58		6,310.00

Nonlabor Supporting Schedule

AP supplier or expense submitter		Nonlabor Supporting Schedule				Invoice number is AP invoice number or expense report number
Category	Type	Supplier	Description	Date	Invoice	Amount
Training Administrative Services (WXYZ QA/Copy Edit - Expenses)						
Other	Office Supplies	Kinko's		22-Jul-2017	262114	138.50
Other	Office Supplies		For expenses, Description is a separate custom format for each expense type			138.50
Per Diem	Per Diem	Bohning, Ben	Chicago, IL; 21-Jul-2017 to 24-Jul-2017	24-Jul-2017	3105631	284.00
Expenditure Category	Expenditure Type	BV, Krishna	Chicago, IL; 21-Jul-2017 to 23-Jul-2017	24-Jul-2017	3105400	213.00
Per Diem	Per Diem	Snodgrass, Dave	Chicago, IL; 14-Jul-2017 to 17-Jul-2017	17-Jul-2017	3105205	284.00
			For expenses, Description is a separate custom format for each expense type			781.00
Travel	Airfare	Bohning, Ben	Southwest; Dep=Kansas City; Arr=Baltimore	16-Jul-2017	3105631	550.00
Travel	Airfare	Snodgrass, Dave	Southwest; Dep=MDW; Arr=BWI	28-Jun-2017	3105205	342.90
Travel	Airfare					892.90
Travel	Car Rental	Bohning, Ben	National	24-Jul-2017	3105631	256.70
Travel	Car Rental	Snodgrass, Dave	National	17-Jul-2017	3105205	277.49
Travel	Car Rental					534.19
Travel	Car Rental Fuel	Bohning, Ben	Stanley's	24-Jul-2017	3105631	13.52
Travel	Car Rental Fuel		For expenses, Description is a separate custom format for each expense type			13.52
Travel	Lodging	Bohning, Ben	Springhill Suites; Days=3; Checkout=24-Jul-2017	24-Jul-2017	3105631	369.51
Travel	Lodging	BV, Krishna	Springhill Suites; Days=2; Checkout=23-Jul-2017	24-Jul-2017	3105400	246.34
Travel	Lodging	Snodgrass, Dave	Springhill Suites; Days=3; Checkout=17-Jul-2017	17-Jul-2017	3105205	369.51
Travel	Lodging		For expenses, Description is a separate custom format for each expense type			985.36
Travel	Mileage	BV, Krishna	Trip Distance=316	28-Jun-2017	3105400	173.80
Travel	Mileage					173.80

Units Supporting Schedule

Units Supporting Schedule

Name	Description	Date	Quantity	Rate	Amount
DFF text from contract line 1 (Project Name - Top Task Name)					
Oracle BI Publisher Layouts	Düsseldorf, Germany	08-Jul-2017	1	1,800.00	1,800.00
Oracle BI Publisher Layouts	Saint-Étienne, France	15-Jul-2017	1	1,800.00	1,800.00
Oracle BI Publisher Layouts	<u>Călărași</u> , Romania	22-Jul-2017	1	1,800.000	1,800.00
Oracle BI Publisher Layouts			<u>3</u>		<u>5,400.00</u>
Ethical Report Writing	Gaithersburg, MD	22-Jul-2017	1	1,500.00	1,500.00
Ethical Report Writing	Germantown, MD	29-Jul-2017	1	1,500.00	1,500.00
Ethical Report Writing			<u>2</u>		<u>3,000.00</u>
Total			5		<u><u>8,400.00</u></u>

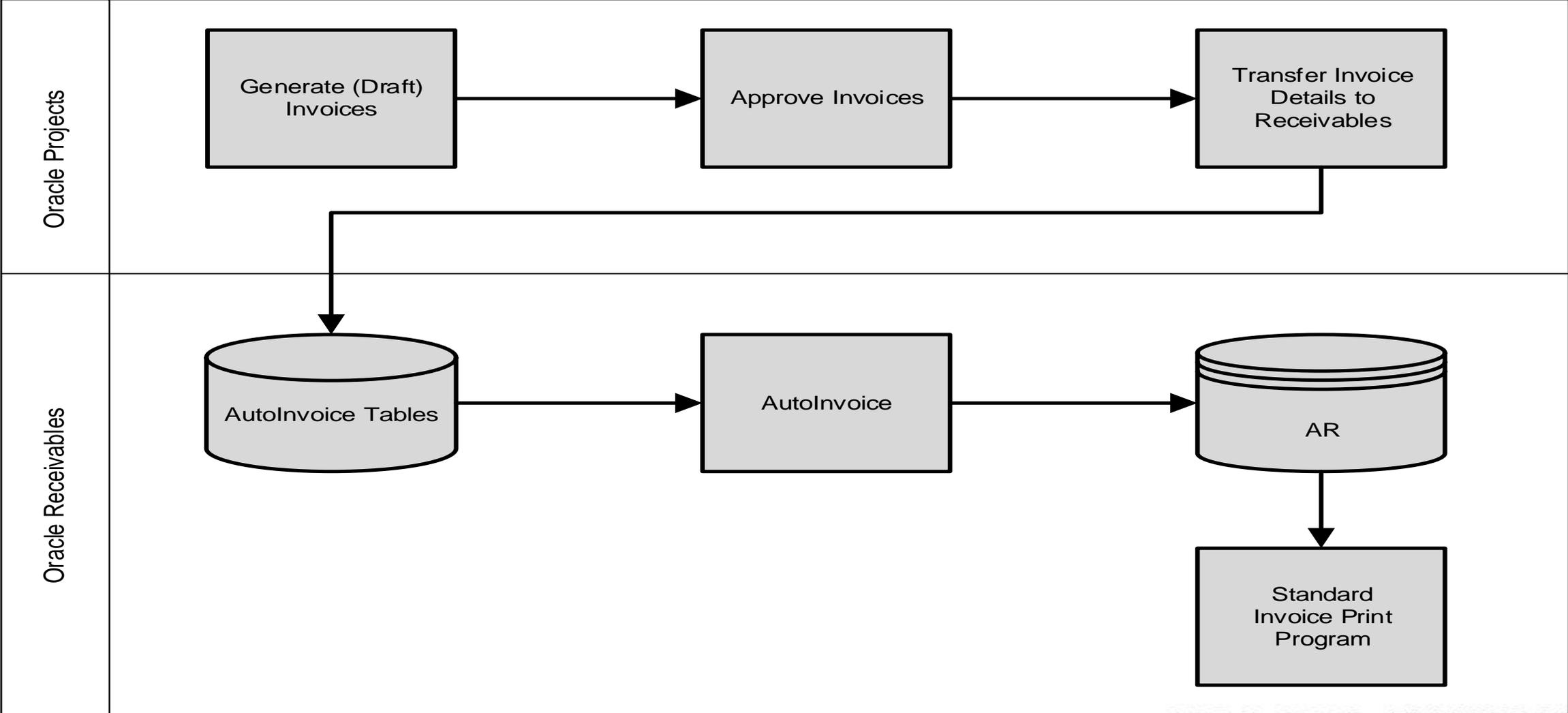
Each occurrence of a units billing is a separate supporting schedule line

Solution Overview

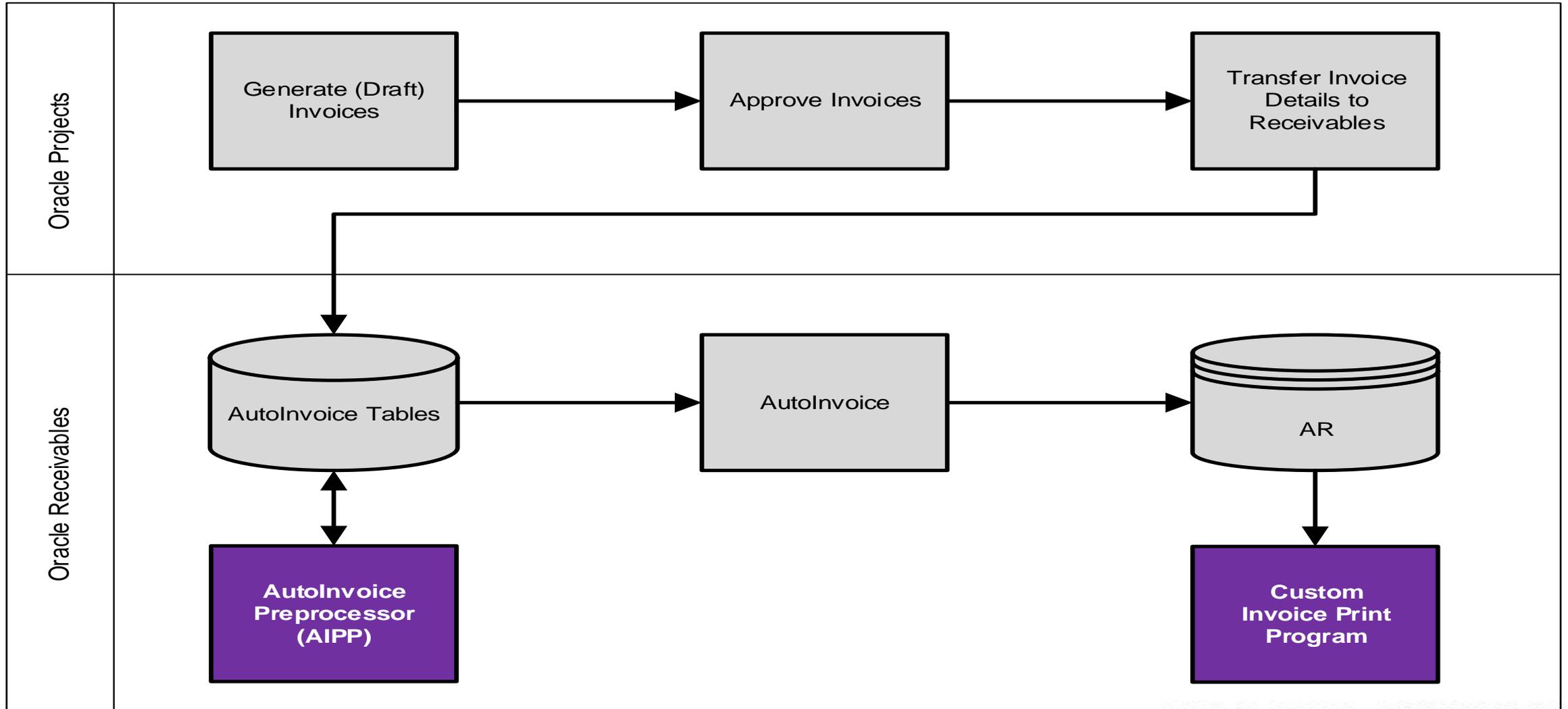


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Invoicing from Projects – Standard Flow



Invoicing from Projects – Custom Flow for This Solution



AutoInvoice Preprocessor (AIPP)

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AUGUST 1, 2019

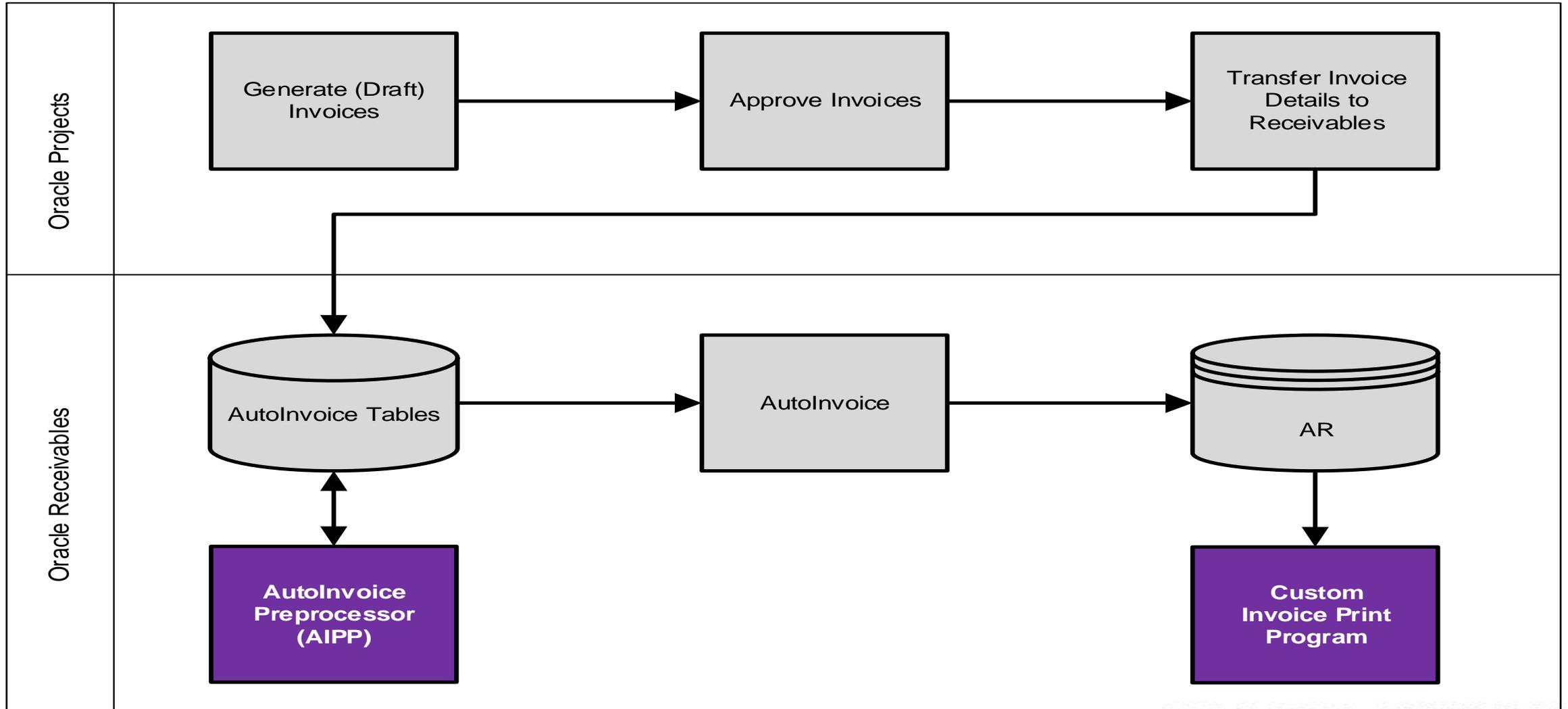
AUGUST 1, 2019

AutoInvoice Preprocessor

Key Features

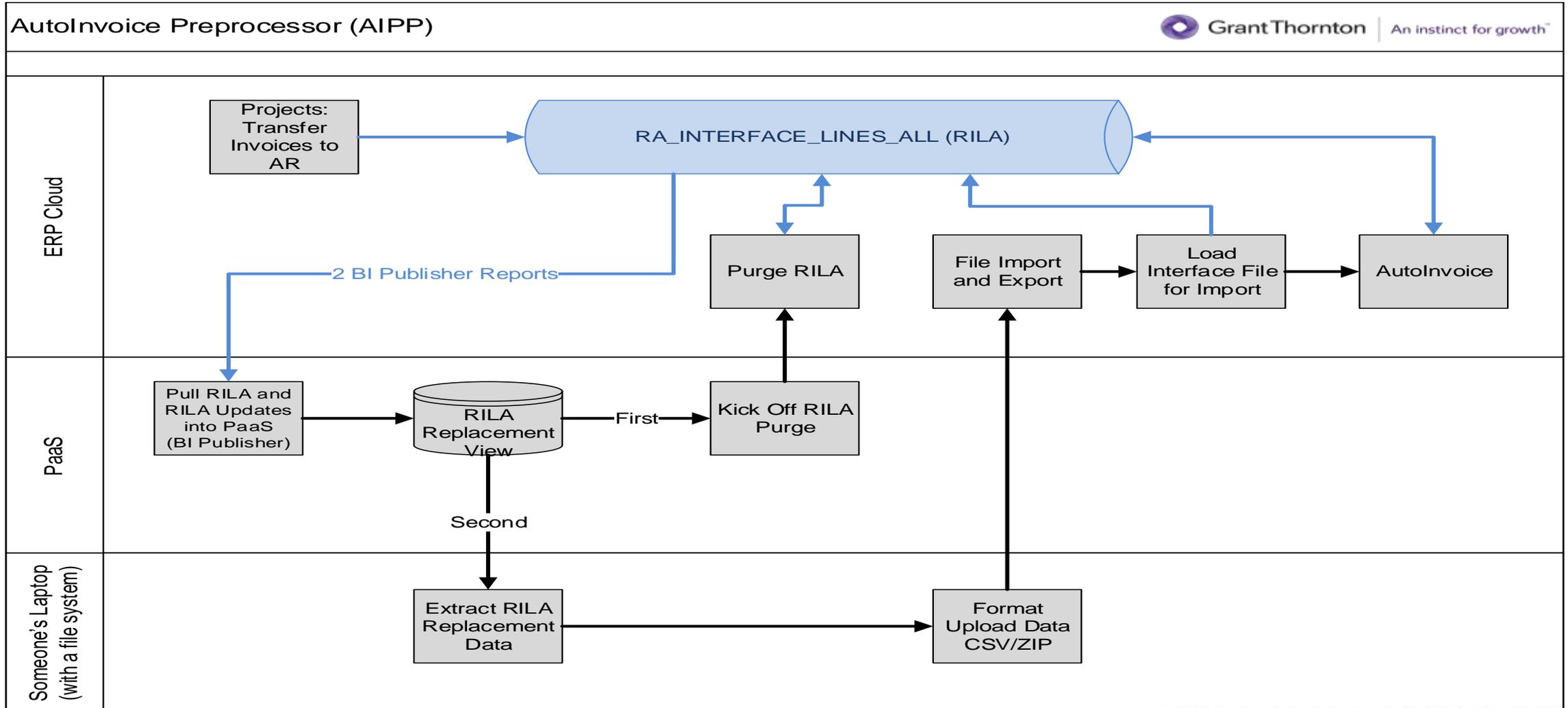
- Reads and updates rows in RILA
- Parses line description and puts bookended strings in other fields (mostly DFFs)
 - Quantity and Price
- Populates DFFs with fields from the contract
 - Invoice Section Headings
 - Cost Center and Service Line (GL accounting flexfield segments) for use by SLA
 - Expenditure Category and Job (to print heading and subtotals on the invoice body)
 - Contract Name, Billed-Through Date
 - Invoice Special Instructions from the customer and contract
 - Legal Company Message (for dba messages)
 - Remittance and Collections Message Overrides
 - Invoice Format, Print Quantity and Price Flag
- Optionally changes the AR customer based on draft invoice DFFs
- Prevents duplicate AIPP processing and prevents AutoInvoice from processing rows not processed by the AIPP

Invoicing from Projects – Custom Flow



AutoInvoice Preprocessor (AIPP)

Process and Data Flow



AutoInvoice Preprocessor (AIPP)

Key Features – Bookended Strings

- This description from Projects, which contains five bookended strings...
 - Schraner, Karen `HRS==40.0 ==HRSPBT==Instructional System Design==PBTJBT= ==JBTJOT==ISD.3 ==JOTCLN==4==CLN`
- ...gets parsed into these values...
 - Schraner, Karen
 - `40`
 - `Instructional System Design`
 - `ISD.3`
 - `4`
- ...and the values are placed into separate fields
 - Schraner, Karen is left in the description field
 - The other values are moved into DFFs.

Invoice Body – Labor Detail Format

Description	Quantity	Rate	Amount in USD
Training Administrative Services (WXYZ QA/Copy Edit – Labor 1 Detail)			
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ISD Total	11	110.00	1,210.00 T
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Project Manager Total	10	100.00	1,000.00 T
	20	120.00	2,400.00 T
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Custom Invoice Print Program



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Custom Invoice Print Program

Overview

- Modified BI Publisher template based on a modified BI Publisher data model
- Seven queries added pulling data from many tables
- Supporting schedules pull detail backup from
 - Expenditure items
 - Purchase orders (for receipts)
 - AP invoice details
 - Expense details
- Still performs same updates as the seeded program (print count)
- Not used for manual invoices

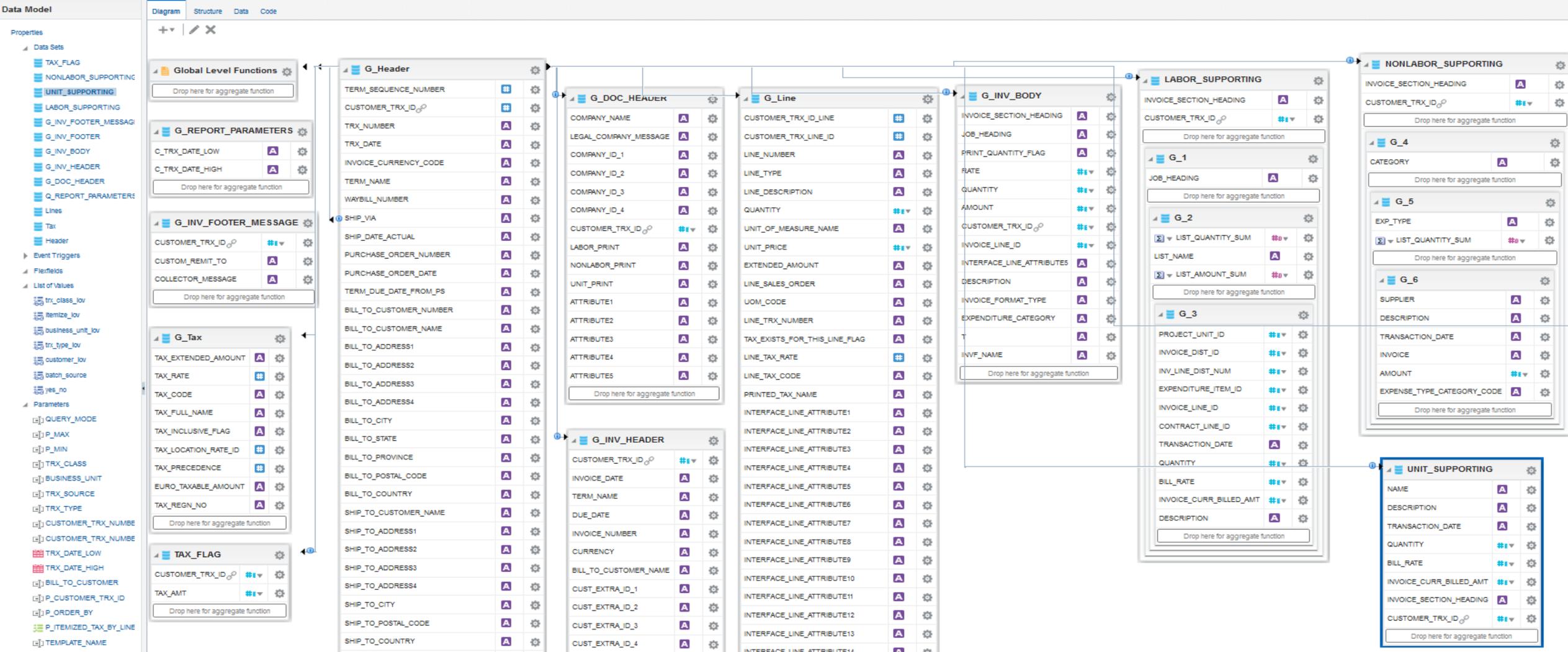
Custom Invoice Print Program

Review of Specialized Configurations

- Company addresses and other company identifying fields are set up on the Legal Entity
- Only a single Remit-To Address is set up for the entire enterprise
- Standard Messages are used to record Remittance Instructions (which replace remit-to addresses)
 - R-402 is default remittance instructions for company 402 (unless there is a currency override)
 - R-402-EUR is remittance instructions for company 02 when invoice is in EUR
- Standard Messages are used to record Collections Messages
 - C-101 is collections message for company 101
 - C-402 is collections message for company 402

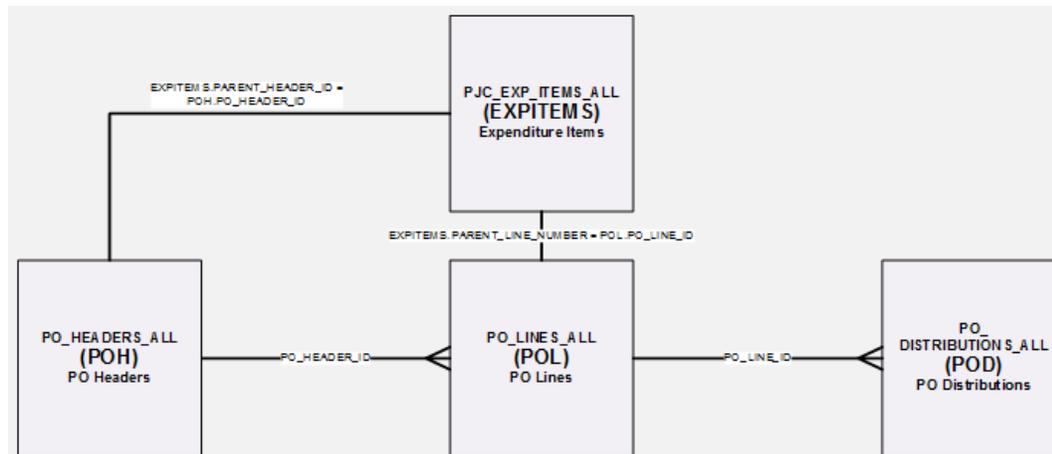
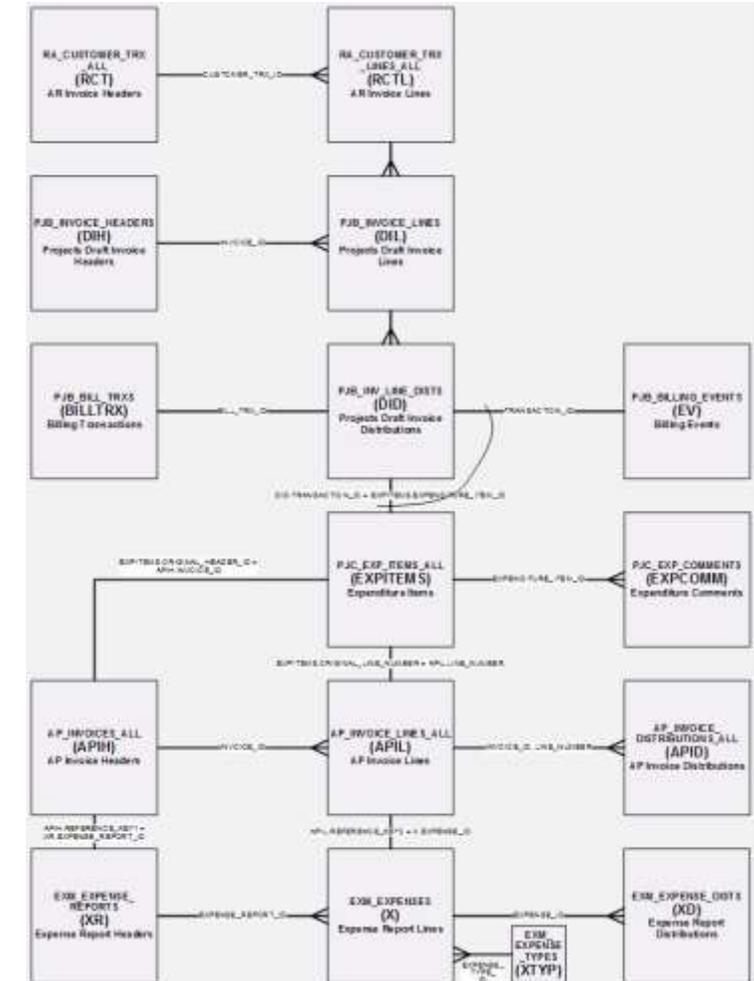
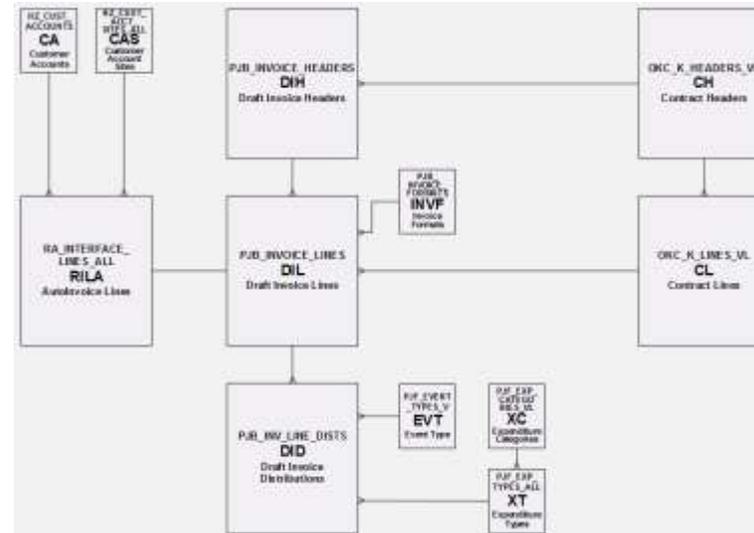
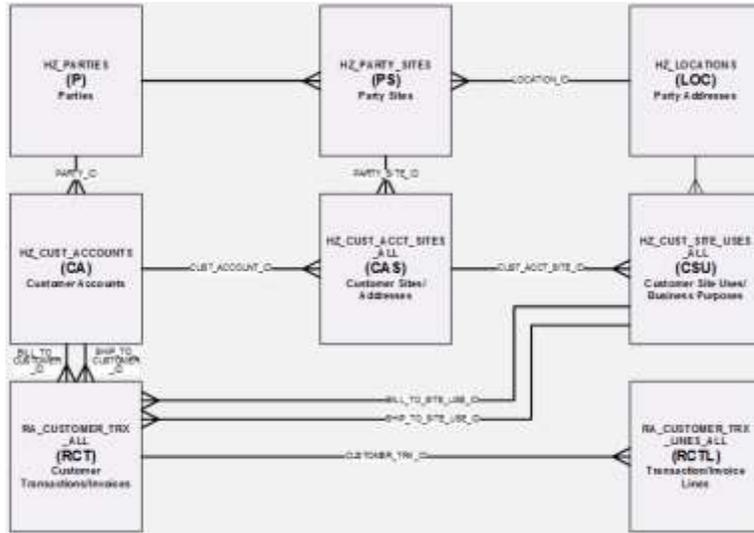
Custom Invoice Print Program

BI Publisher Data Model



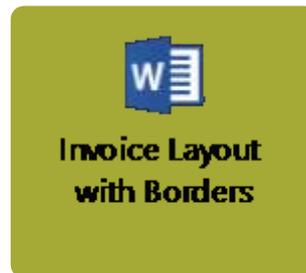
Custom Invoice Print Program

Additional Tables Accessed



Custom Invoice Print Program

Layout Details



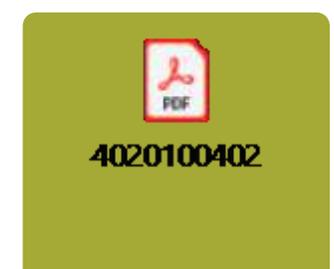
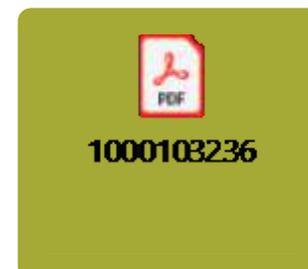
Design Layout

Design Layout with Borders

BI Publisher Template

Custom Invoice Print Program

Actual Invoices



Oracle Default Layout

Labor and Nonlabor
(Expenses) Supporting
Schedules

Supporting Schedules;
Expense Detail

Tax Sections; T for Tax; UK
Addresses and Text;
Currency