

What's New in Microsoft Dynamics GP 2015 R2



Microsoft Dynamics GP Roadmap

2012

GP 2013

Web Client
Functionality
Management
Tools
Hosting
Business
Analyzer (BA)
on Windows

2013

GP 2013
SP1/2

Web Client Wave
Releases
Functionality
RapidStart
Business Analyzer
Off Domain
On Azure

2014 (H1)

GP 2013 R2

GP Workspace
in Office 365
Functionality
Requisition
Management
Identity
Management
V1
Workflow V1

2014 (H2)

GP 2015

Service Based
Architecture
(SBA)
Functionality
Identity
Management V2
Workflow V2
BA on multi-
platforms
(Windows,
Apple &
Android)

2015 H1

GP 2015 R2

All in One Doc
Viewer
AP Inv Approval
Time Mgmt App
Automated
Provisioning for
Azure
Top features
requested by
customers

2016 H1

GP 2015 R3

Enhanced user
experience for
Web Client
Multiple
browser &
device support
for Web Client
Workflow
enhancements
Top features
requested by
customers

2016 +

Functionality
and
technology
releases
Top features
requested by
customers

Dynamics GP 2015 R2

DEVICES

Microsoft
Surface



Apple
iPad



Android



WORK



CRM



ERP



Bus Intelligence



Social Media



Service Based Architecture



DEPLOYMENT

Microsoft Dynamics GP

Microsoft Dynamics CRM



Microsoft Azure

Office 365

Yammer

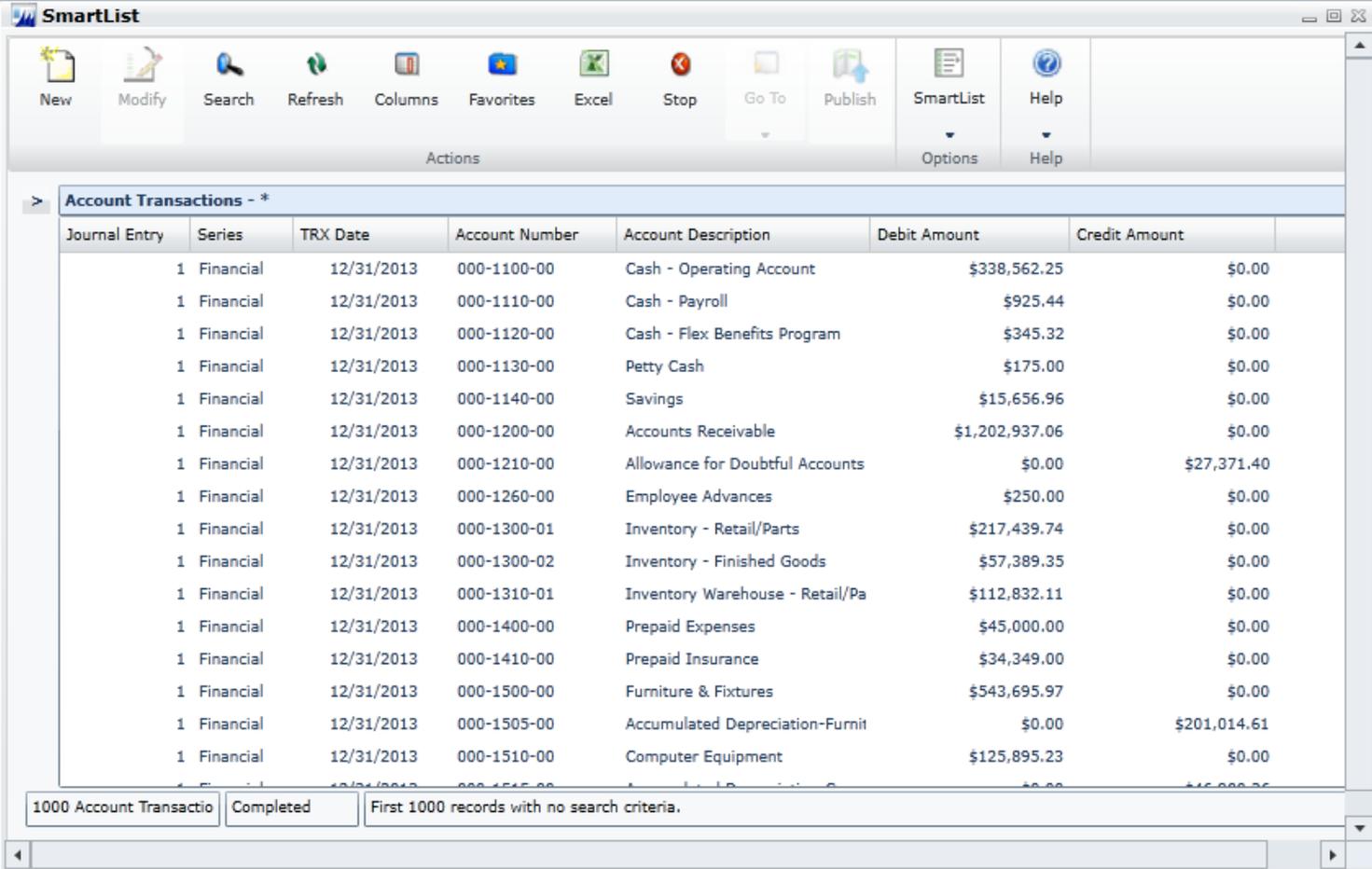
Dynamics GP 2015 R2 Feature Review

- All-in-One Document Viewer – Purchasing
- SQL View Designer
- SmartLists Display Debits then Credits
- SmartLists – Default New Favorites to User vs. System
- Hide/Show SSN on Payroll & HR Reports
- View W2
- Combine GL Summary and Detail Inquiry Windows
- Time Management App
- Historical Received Not Invoiced Report
- Auto Deposit Cash Receipts in Bank Rec
- Visual Indicator for Customer Over Credit Limit
- Enable Email for all Sales/Purchasing Forms (Short, Long, Other)
- Self Service User Type
- AP Invoice Workflow Approval
- Workflow Document Attach

Business Intelligence

Display Debits before Credits

- Debits before Credits in:
 - SmartLists
 - Excel Reports
 - Database tables and views



Journal Entry	Series	TRX Date	Account Number	Account Description	Debit Amount	Credit Amount
1	Financial	12/31/2013	000-1100-00	Cash - Operating Account	\$338,562.25	\$0.00
1	Financial	12/31/2013	000-1110-00	Cash - Payroll	\$925.44	\$0.00
1	Financial	12/31/2013	000-1120-00	Cash - Flex Benefits Program	\$345.32	\$0.00
1	Financial	12/31/2013	000-1130-00	Petty Cash	\$175.00	\$0.00
1	Financial	12/31/2013	000-1140-00	Savings	\$15,656.96	\$0.00
1	Financial	12/31/2013	000-1200-00	Accounts Receivable	\$1,202,937.06	\$0.00
1	Financial	12/31/2013	000-1210-00	Allowance for Doubtful Accounts	\$0.00	\$27,371.40
1	Financial	12/31/2013	000-1260-00	Employee Advances	\$250.00	\$0.00
1	Financial	12/31/2013	000-1300-01	Inventory - Retail/Parts	\$217,439.74	\$0.00
1	Financial	12/31/2013	000-1300-02	Inventory - Finished Goods	\$57,389.35	\$0.00
1	Financial	12/31/2013	000-1310-01	Inventory Warehouse - Retail/Pa	\$112,832.11	\$0.00
1	Financial	12/31/2013	000-1400-00	Prepaid Expenses	\$45,000.00	\$0.00
1	Financial	12/31/2013	000-1410-00	Prepaid Insurance	\$34,349.00	\$0.00
1	Financial	12/31/2013	000-1500-00	Furniture & Fixtures	\$543,695.97	\$0.00
1	Financial	12/31/2013	000-1505-00	Accumulated Depreciation-Furnit	\$0.00	\$201,014.61
1	Financial	12/31/2013	000-1510-00	Computer Equipment	\$125,895.23	\$0.00

Default SmartList Visibility

- Allow administrators to select the default visibility for new SmartList Favorites

The screenshot shows the 'System Preferences' dialog box with the following sections:

- SharePoint:** A text input field for the SharePoint URL, with a placeholder example: `http://serverpath/`.
- Email Preferences:**
 - Server Type: A dropdown menu currently set to 'Exchange'.
 - Protect .docx attachments with a password: A checked checkbox.
 - Password: A section with a radio button for 'Auto generate' and an empty text input field.
- Options:**
 - Load To Do: Reminders by default on Home Page: A checked checkbox.
 - Enable Remember User: An unchecked checkbox.
 - Default SmartList Visibility: A dropdown menu currently set to 'User ID'.

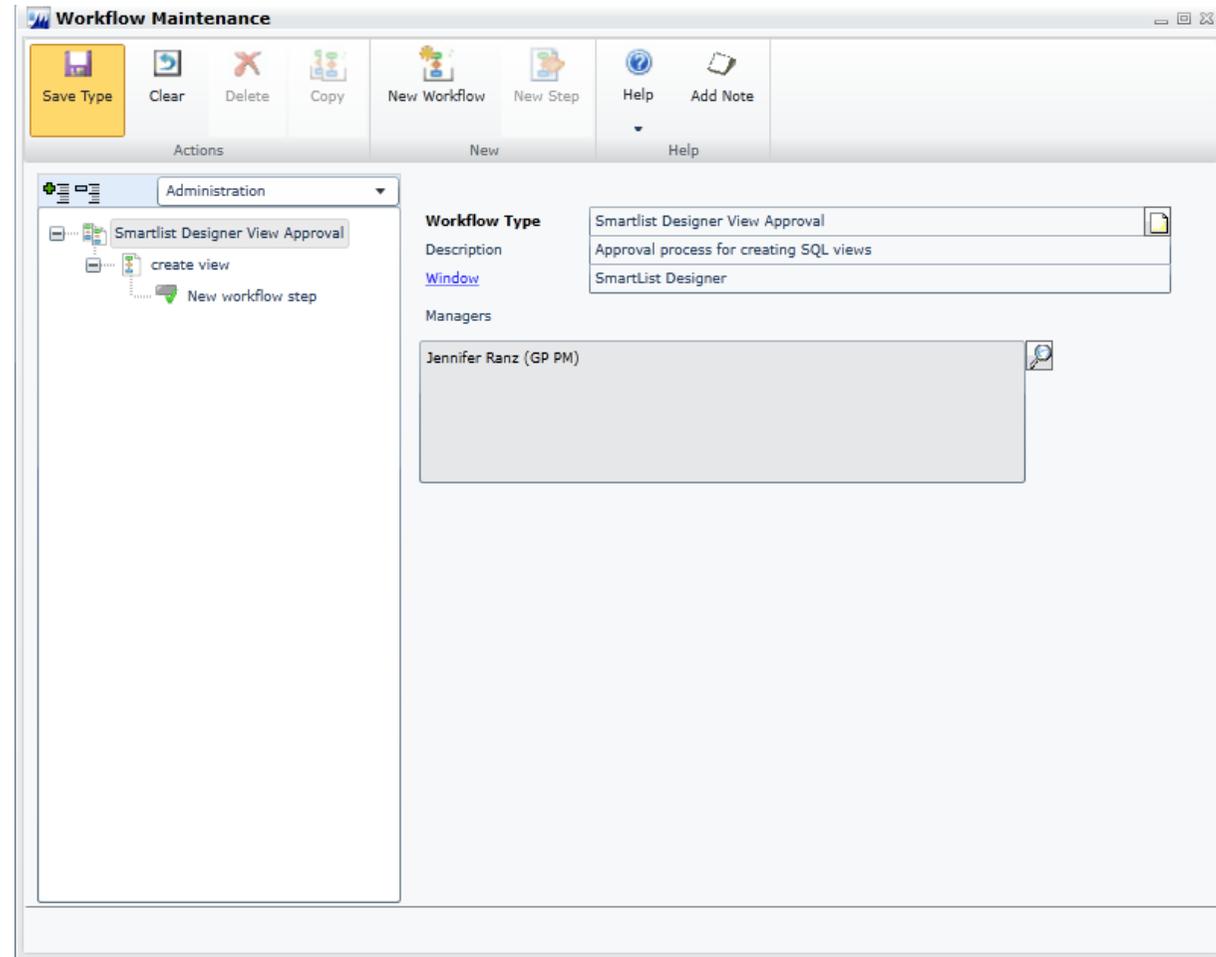
The screenshot shows the 'Add or Remove Favorites' dialog box with the following fields:

- Category: A text input field containing 'Account Transactions'.
- Name: A text input field containing 'Cash Account Transactions'.
- Visible To: A dropdown menu currently set to 'User ID'.

At the bottom, there are four buttons: 'Remove', 'Modify', 'Add', and 'Cancel'. The 'Add' button has a small downward arrow next to it.

Create SQL Views using SmartList Designer Workflow

- Users can submit Smartlist Designer queries to workflow to create SQL views within the Company Database



Distribution

Historical Received-not-Invoiced Report

- Created a new SQL Reporting Service Report to have a cutoff date based on transaction date or GL post date to allow customers to use the report for historical purposes.

PO Number from: PO Number To:

Vendor ID From: Vendor ID To:

Purchasing Transaction Date for report using: Cut off Date:

Include Functional Currency: Sort By:

Include Landed Costs:

1 of 1 100% Find | Next

Historical Received/Not Invoiced Report

Fabrikam, Inc.

Purchase Order Processing

4/23/2015 10:24:56 AM NORTHAMERICA\jenolson

PO Number	Currency ID	Document Date	Vendor ID	Vendor Name	Qty Ordered	U of M	PO Unit Cost
Item Number	Item Description	Site ID	U of M	Qty Shipped	Qty Invoiced	Shipment Unit Cost	Amt Not Invoiced /Less Returned
Receipt Number	Receipt Date	Site ID	U of M	Qty Shipped	Qty Invoiced	Shipment Unit Cost	Amt Not Invoiced /Less Returned
Invoice Number	Invoice Date			Qty Returned	Qty Inv Returned		
Return Number	Return Date			Qty Returned	Qty Inv Returned		
PO0999	Z-US\$	12/04/2014	ADVANCED0001	Advanced Office Systems			
ACCS-CRD-12WH				Phone Cord - 12' White	1	Each	\$3.29
RCT1009	04/18/2014	WAREHOUSE	Each	1		\$3.29	
ANSW-PAN-1450				Panache KX-T1450 answer	2	Each	\$50.25
RCT1009	04/18/2014	WAREHOUSE	Each	2		\$50.25	
Functional Amount Not Invoiced							\$103.79
Functional Amount Not Invoiced less Returned							\$103.79
PO1002	Z-US\$	17/04/2014	FABRIKAM0001	Fabrikam, Inc.			
PHON-GTE-5043				Cordless-Grand S5043	10	Each	\$81.25
RCT1001	04/18/2014	WAREHOUSE	Each	8		\$81.25	

Purchasing All-in-One Document View

- View all related purchasing documents for a single transaction in one window
- Select a purchasing invoice and window will refresh to show POs, receipts, payments, etc.
- Accessible from Vendor Maintenance, many purchasing inquiry windows, navigation lists and the home page

The screenshot displays the 'Purchasing All-in-One View' interface. At the top, there is a navigation bar with 'OK', 'Clear', 'Options', and 'Help' buttons. Below this is a search bar containing 'ADVANCED0001' and 'Advanced Office Systems'. The main area is divided into five columns, each representing a different document type: Purchase Orders, Receipts, Invoices, Payments, and Returns. Each column contains a list of document cards, each with a monetary value, a document number, a date, and a status. For example, under 'Purchase Orders', the first card shows a value of \$183.79, PO Num: PO2068, PO Date: 3/23/2017, and status 'Closed'. Similar cards are shown for Receipts, Invoices, Payments, and Returns. At the bottom of each column, there are 'Previous 5' and 'Next 5' navigation options.

Financial

Automatically Deposit Cash Receipts

- Cash receipt deposits are posted automatically



Company Setup Options

OK Help Add Note

Actions Help

- Enable Reverse Charge Taxes
- Calculate Taxes in General Ledger
- Allow Summary-Level Tax Edits
- Require Tax Detail Totals to Match the Pre-Tax Amount
- Specify Tax Details for Automatic Tax Calculation
- Enable EU Transaction Tracking
- Enable DDR and European Electronic Funds Transfer
- Enable Canadian Tax Detail
- Exclude Tax in Inventory Cost when Tax is Included In Price
- Automatically post cash receipt deposits

Use Date-effective Tax

Withholding Vendor ID

Withholding File/Reconciliation Number

Withholding Tax Rate 0.00%

Tax Detail for Receivables Processes

Tax Detail for Payables Processes

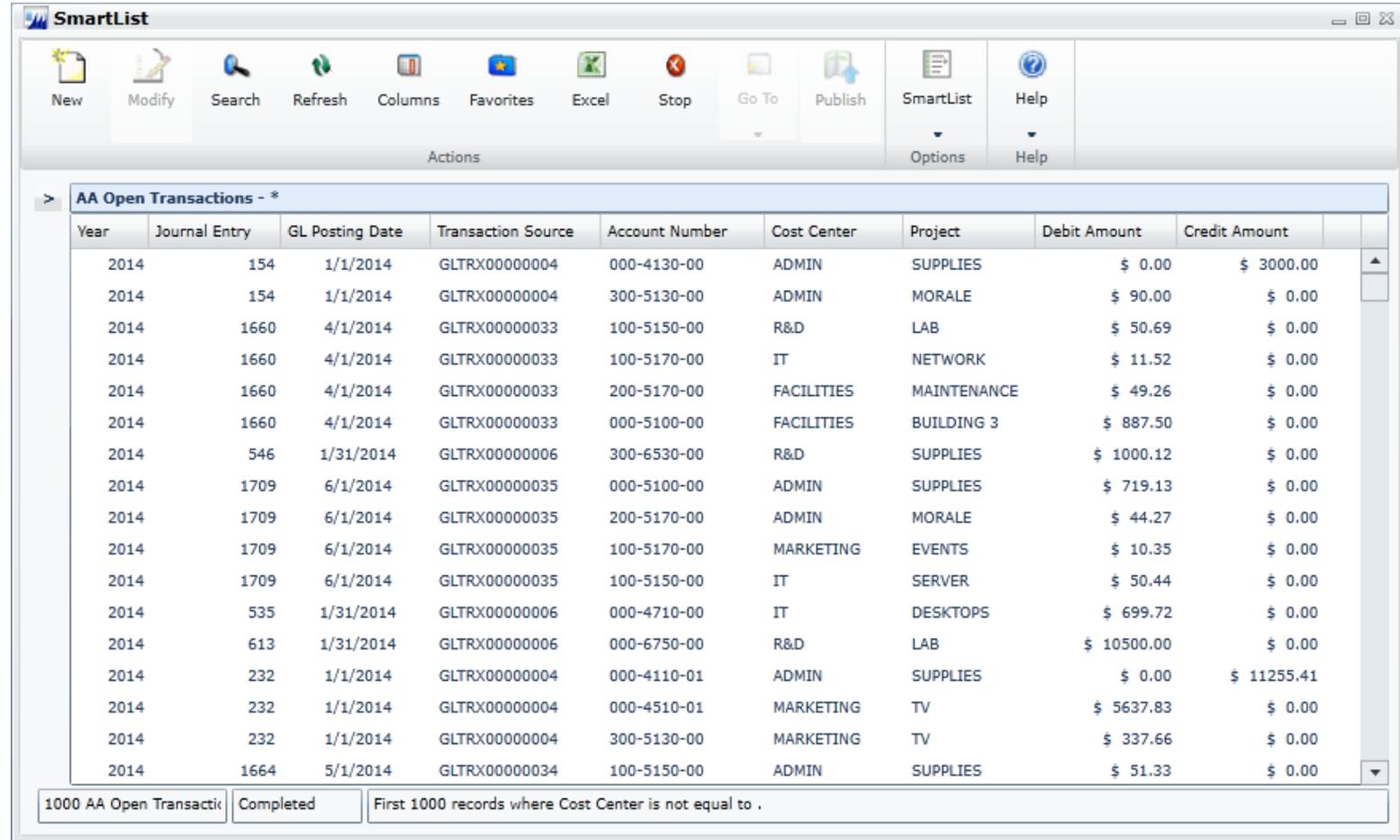
Display Posting Number Per: Year Period

Management Reporter

- Enable General Ledger Reporting
- Enable Analytical Accounting Reporting

Analytical Accounting Transaction Lists

- Lists include more data
- Include a column for each transaction dimension
- Improvements apply to:
 - SmartLists
 - Excel Reports



The screenshot displays the SmartList application window. The title bar reads "SmartList". Below the title bar is a menu bar with icons for New, Modify, Search, Refresh, Columns, Favorites, Excel, Stop, Go To, Publish, SmartList, and Help. Below the menu bar is a toolbar with icons for New, Modify, Search, Refresh, Columns, Favorites, Excel, Stop, Go To, Publish, SmartList, and Help. Below the toolbar is a table titled "AA Open Transactions - *". The table has the following columns: Year, Journal Entry, GL Posting Date, Transaction Source, Account Number, Cost Center, Project, Debit Amount, and Credit Amount. The table contains 20 rows of data. At the bottom of the window, there is a status bar with the text "1000 AA Open Transacti", "Completed", and "First 1000 records where Cost Center is not equal to .".

Year	Journal Entry	GL Posting Date	Transaction Source	Account Number	Cost Center	Project	Debit Amount	Credit Amount
2014	154	1/1/2014	GLTRX00000004	000-4130-00	ADMIN	SUPPLIES	\$ 0.00	\$ 3000.00
2014	154	1/1/2014	GLTRX00000004	300-5130-00	ADMIN	MORALE	\$ 90.00	\$ 0.00
2014	1660	4/1/2014	GLTRX00000033	100-5150-00	R&D	LAB	\$ 50.69	\$ 0.00
2014	1660	4/1/2014	GLTRX00000033	100-5170-00	IT	NETWORK	\$ 11.52	\$ 0.00
2014	1660	4/1/2014	GLTRX00000033	200-5170-00	FACILITIES	MAINTENANCE	\$ 49.26	\$ 0.00
2014	1660	4/1/2014	GLTRX00000033	000-5100-00	FACILITIES	BUILDING 3	\$ 887.50	\$ 0.00
2014	546	1/31/2014	GLTRX00000006	300-6530-00	R&D	SUPPLIES	\$ 1000.12	\$ 0.00
2014	1709	6/1/2014	GLTRX00000035	000-5100-00	ADMIN	SUPPLIES	\$ 719.13	\$ 0.00
2014	1709	6/1/2014	GLTRX00000035	200-5170-00	ADMIN	MORALE	\$ 44.27	\$ 0.00
2014	1709	6/1/2014	GLTRX00000035	100-5170-00	MARKETING	EVENTS	\$ 10.35	\$ 0.00
2014	1709	6/1/2014	GLTRX00000035	100-5150-00	IT	SERVER	\$ 50.44	\$ 0.00
2014	535	1/31/2014	GLTRX00000006	000-4710-00	IT	DESKTOPS	\$ 699.72	\$ 0.00
2014	613	1/31/2014	GLTRX00000006	000-6750-00	R&D	LAB	\$ 10500.00	\$ 0.00
2014	232	1/1/2014	GLTRX00000004	000-4110-01	ADMIN	SUPPLIES	\$ 0.00	\$ 11255.41
2014	232	1/1/2014	GLTRX00000004	000-4510-01	MARKETING	TV	\$ 5637.83	\$ 0.00
2014	232	1/1/2014	GLTRX00000004	300-5130-00	MARKETING	TV	\$ 337.66	\$ 0.00
2014	1664	5/1/2014	GLTRX00000034	100-5150-00	ADMIN	SUPPLIES	\$ 51.33	\$ 0.00

Payables Transaction Approval Workflow Type

- Workflow approval for a single transaction in Payables Transaction Entry
- Define workflow process for Payables invoices, charges, credit memos, and returns

The image shows two overlapping SAP application windows. The background window is 'Workflow Maintenance' for a 'Purchasing' workflow. The foreground window is 'Payables Transaction Entry' for an 'AP Invoice [Not Submitted]'.

Workflow Maintenance (Background):

- Step Name:** Invoice Approval
- Description:** Invoice Approval
- Step Type:** Approval
- Order:** This step is a first step (selected)
- Condition:** Action is always required for this step (selected)
- Assignment:** Assign to: Jodi Christiansen, Time limit: 8 Hours, Apply Workflow Calendar (checked)

Payables Transaction Entry (Foreground):

- Voucher No.:** 00000000000000464
- Document Type:** Invoice
- Doc. Date:** 4/12/2017
- Vendor ID:** ACETRAVE0001 (A Travel Company)
- Address ID:** PRIMARY
- Remit-To ID:** REMIT TO
- Payment Terms:** Net 30
- Currency ID:** Z-US\$
- Document Number:** 36694
- Shipping Method:** OVERNIGHT
- Tax Schedule ID:** COMPANVPUR

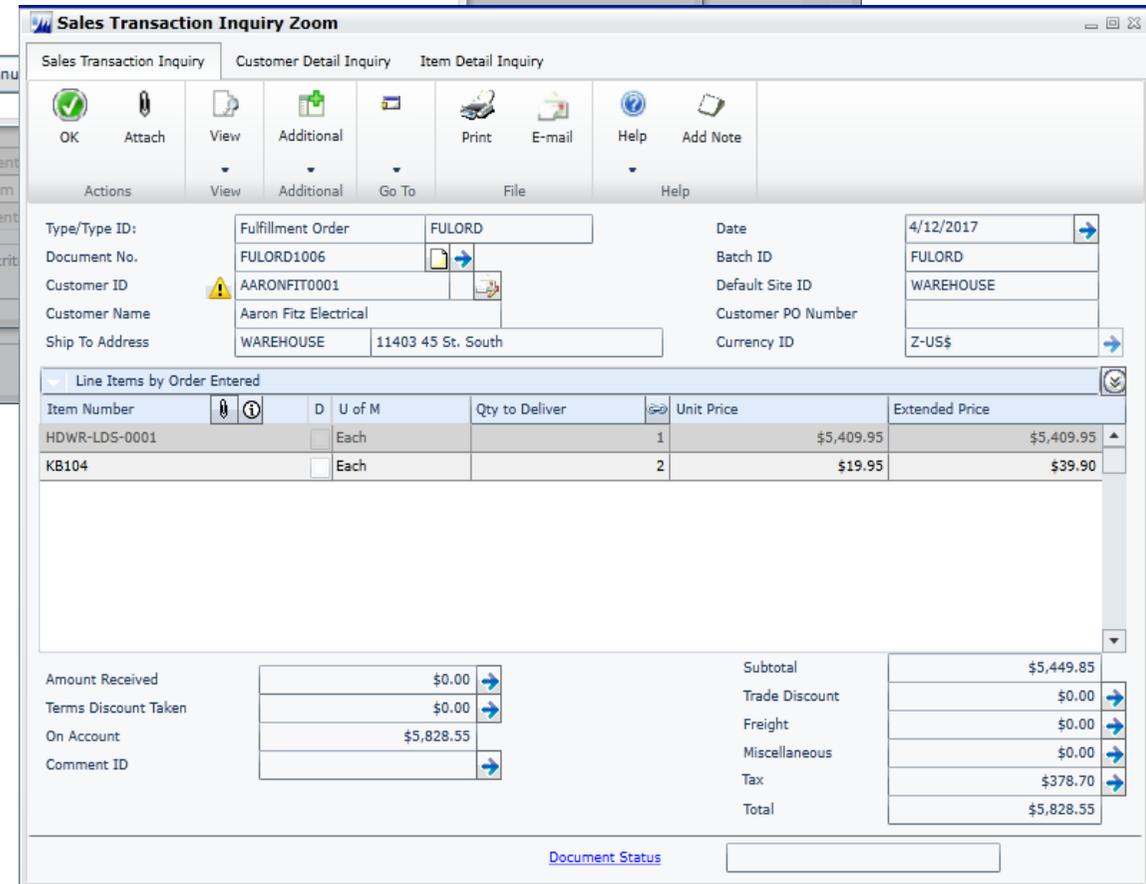
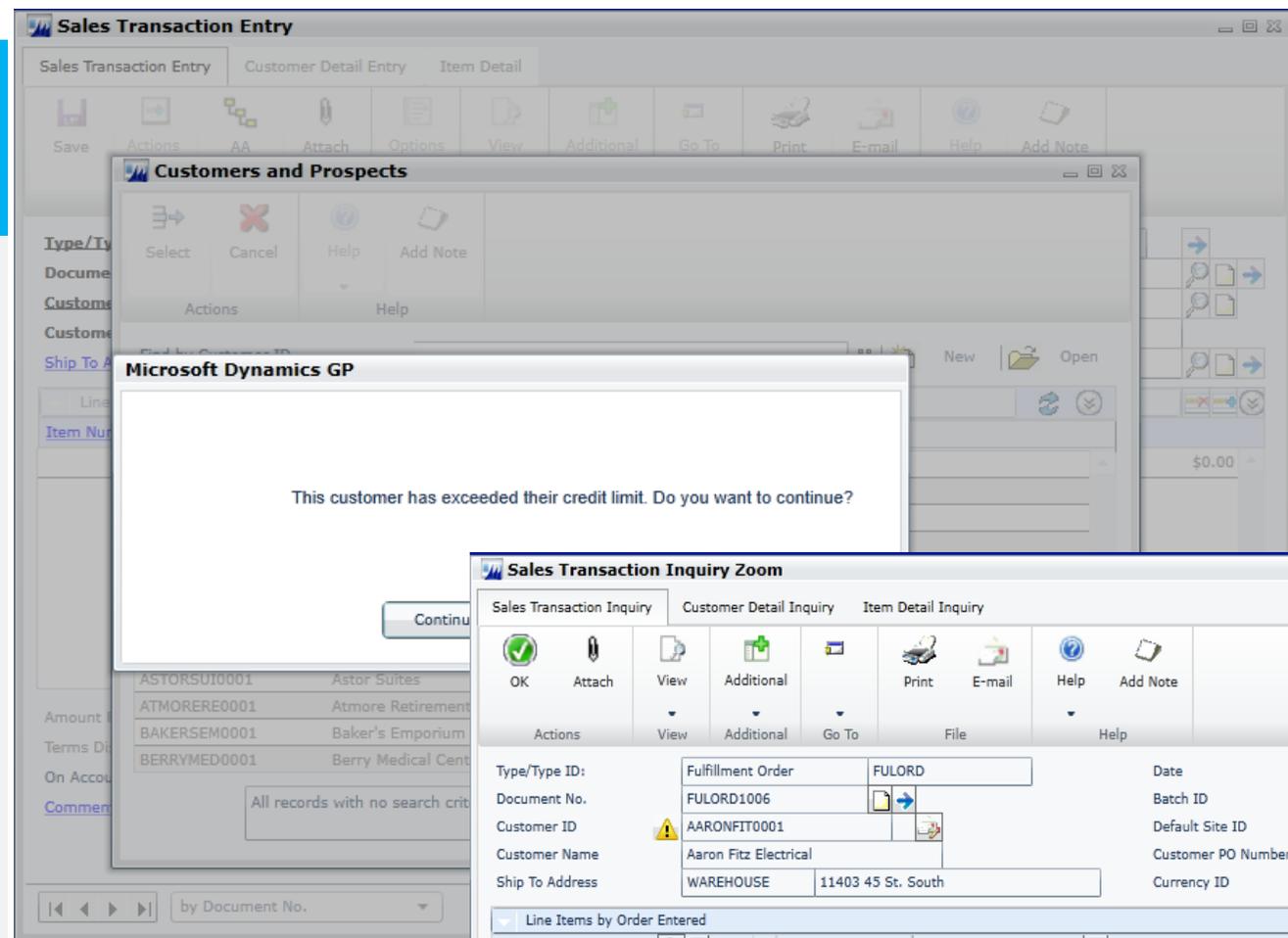
Purchases		1099 Amount	
Purchases	\$1,000.00	1099 Amount	\$0.00
Trade Discount	\$0.00	Cash	\$0.00
Freight	\$0.00	Check	\$0.00
Miscellaneous	\$0.00	Credit Card	\$0.00
Tax	\$0.00	Terms Disc Taken	\$0.00
Total	\$1,000.00	On Account	\$1,000.00

Buttons: Apply, Distributions, Print Check

Status: Unposted

Visual Indicator for Customer Credit Limit

- New options that determine how and when you are notified of a customer who is over the credit limit you set for them.
- In Receivables Setup, you can select to display an icon or give a warning message for a customer who is over their limit.



Combine Open and History Inquiries

- View open and historical information in the same window for Summary Inquiry, Detail Inquiry and for Account Summary.
- Any GoTo's or drill backs will now go to the single window instead of the user picking open or history.

Summary Inquiry

Account: 000 - 1100 - 00
Description: Cash - Operating Account
Year: 2017

Period	Debit	Credit	Net Change	Period Balance
Beginning Balance		\$0.00	\$0.00	\$0.00
Period 1	\$0.00	\$0.00	\$0.00	
Period 2	\$56,583.42	\$2,994.59	\$53,588.83	
Period 3	\$33,422.79	\$96,695.26	(\$63,272.47)	
Period 4				
Period 5				
Period 6				
Period 7				
Period 8				
Period 9				
Period 10				
Period 11				
Period 12				
Totals				

Detail Inquiry

Account: 000 - 1100 - 00
Description: Cash - Operating Account
Year: 2017
Account Balance: \$163,030.49

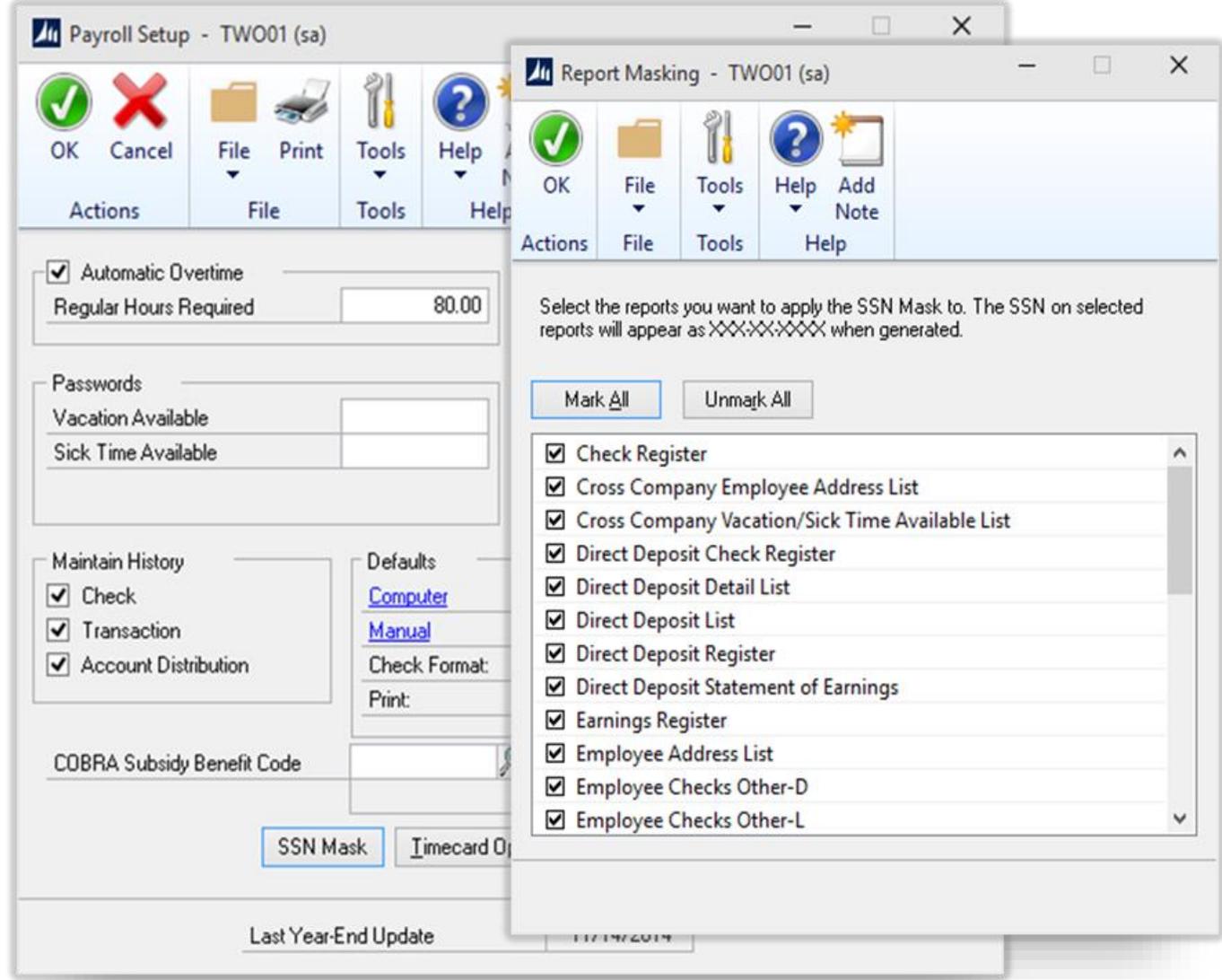
Date: 2/1/2017
Source Document: 1,201
Currency ID: 0/0/0000

Date	Audit Trail Code	Debit	Credit	Currency ID
2/1/2017	1,201	\$3,263.24		\$0.00
2/1/2017	1,203	\$1,219.49		\$0.00
2/2/2017	1,206	\$1,219.49		\$0.00
2/2/2017	1,207	\$256.59		\$0.00
2/3/2017	1,209	\$406.50		\$0.00
2/4/2017	1,218	\$404.84		\$0.00
2/4/2017	1,220	\$42.70		\$0.00
2/4/2017	1,298	\$0.00	\$78.40	\$78.40
Total		\$275,715.43		\$112,684.94

Human Resources and Payroll

Mask SSN on Payroll and HR Reports

- Masks the Employee Social Security Number on selected reports
- Select which reports you want to mask Social Security Number from the Report Masking window
- For selected reports, the Social Security Mask will appear as
- xxx-xx-xxxx when rendered



Time Management App

- The time Management app will allow GP Employees to enter Vacation and Sick time in Payroll or time off against Benefit Timecodes within HR. The app is available for Windows 8, iOS iPad devices, and Android tablets.

MICROSOFT DYNAMICS TIME MANAGEMENT

Jane Clayton (Fabrikam, Inc.)

< January 2015 >

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
28	29	30	31	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31
1	2	3	4	5	6	7

ATTENDANCE
January 1st 2015

Vacation Balance 120.00 ...

Sick Time Balance 72.00 ...

TIME CARDS

Saved ^

January 22, 2015 00:00

January 15, 2015 00:00

January 8, 2015 00:00

January 1, 2015 00:00

Submitted v

Historical v

View W2 for ESS

- With Employee Self Service W2, the employee can now view and print their own W2.
- The action will display on the Time Management home page part.

The screenshot shows the Microsoft Dynamics GP HR & Payroll interface. The left sidebar contains a navigation menu with options like 'HR & Payroll', 'Applicants', 'Requisitions', 'Attendance Transactions', 'Employees', 'Employee Reports', 'Recruitment Reports', 'Work Environment Reports', 'Professional Development', 'Organizational Employment', 'All Human Resources Reports', 'Payroll Report List', 'Microsoft Dynamics GP Reports', 'Excel Reports', 'Smartlist Favorites', 'Other Reports', 'Payscale', 'W2 - Wage and Tax Statement', 'Historical Timecards', 'Current Timecards', 'Timecards Pending Approval', 'HRP Workflow Pending Approval', and 'My Team'. The main area displays 'W2 - Wage and Tax Statement (read only)' with a search filter and an 'Apply Filter' button. Below this is a table with columns for Year, Wages, Tips, Other Comp, Federal Income Tax Withheld, Social Security Wage, Social Security Tax Withheld, and Medicare Wages & Tips. The table shows data for 2017 and 2016.

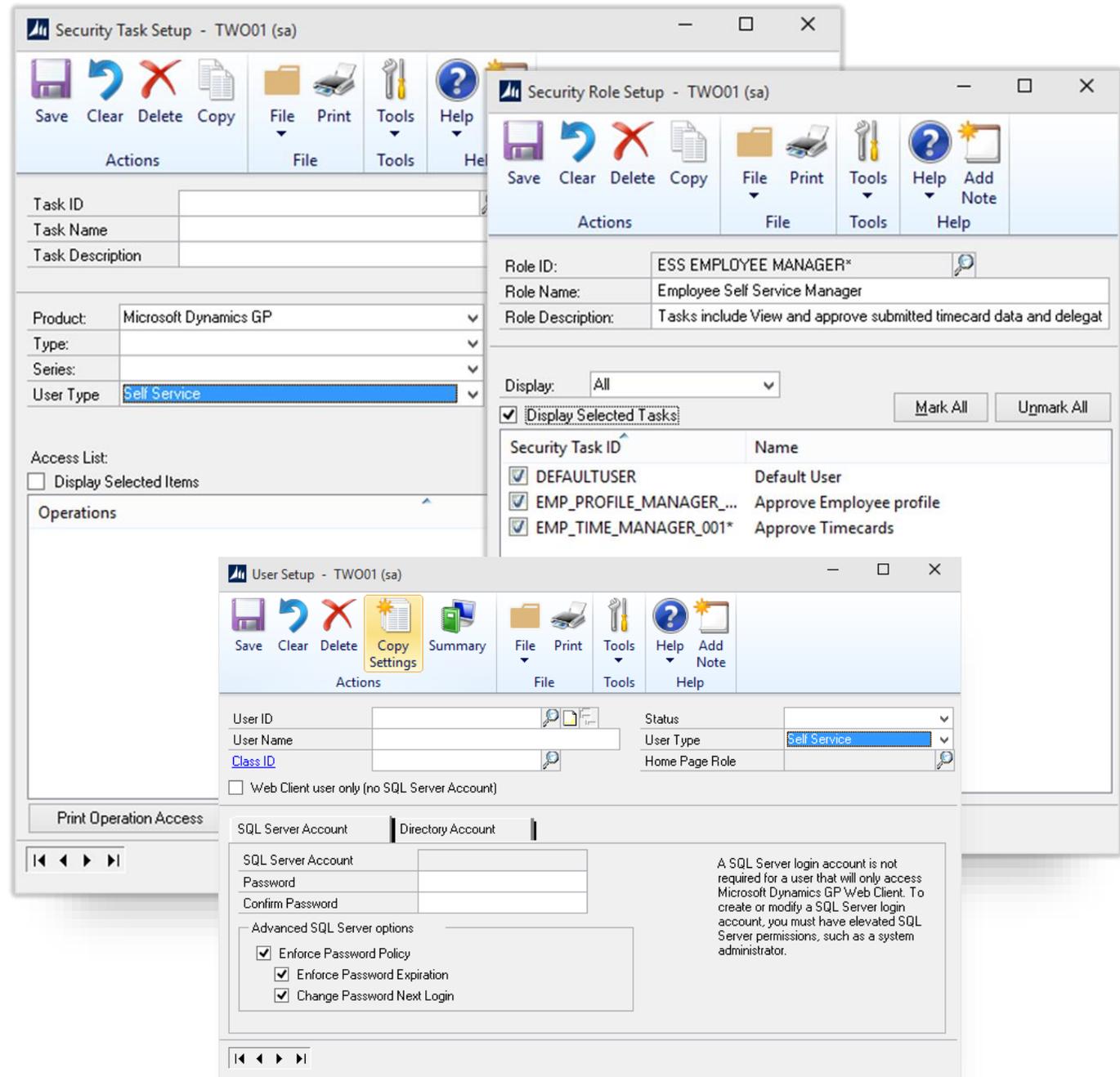
Year	Wages, Tips, Other Comp	Federal Income Tax Withheld	Social Security Wage	Social Security Tax Withheld	Medicare Wages & Tips
2017	10909.45	877.62	11228.82	696.19	11228.82
2016	10846.27	947.10	11188.44	693.68	11188.44

22222		a Employee's social security number 917-23-9833		OMB No. 1545-0008	
b Employer identification number (EIN) 23-8260216		1 Wages, tips, other compensation 10909.45		2 Federal income tax withheld 877.62	
c Employer's name, address, and ZIP code Fabrikam, Inc. 4277 West Oak Parkway Chicago, IL 60601-4271		3 Social security wages 11228.82		4 Social security tax withheld 696.19	
		5 Medicare wages and tips 11228.82		6 Medicare tax withheld 162.82	
		7 Social security tips 0.00		8 Allocated tips 0.00	
d Control Number		9		10 Dependent care benefits 0.00	
e Employee's first name and initial PILAR		Last name ACKERMAN		11 Nonqualified plans 0.00	
f Employee's address and ZIP code 987 WILLOW AVE WINNETKA, IL 98272		13 Statutory employee <input type="checkbox"/>		Retirement plan <input type="checkbox"/>	
		14 Other		12a Code	
				12b Code	
				12c Code	
				12d Code	
15 State IL	Employee's state ID number 5027-8310	16 State wages, tips, etc. 10909.45	17 State income tax 205.43	18 Local wages, tips, etc.	19 Local income tax
				20 Locality name	

System

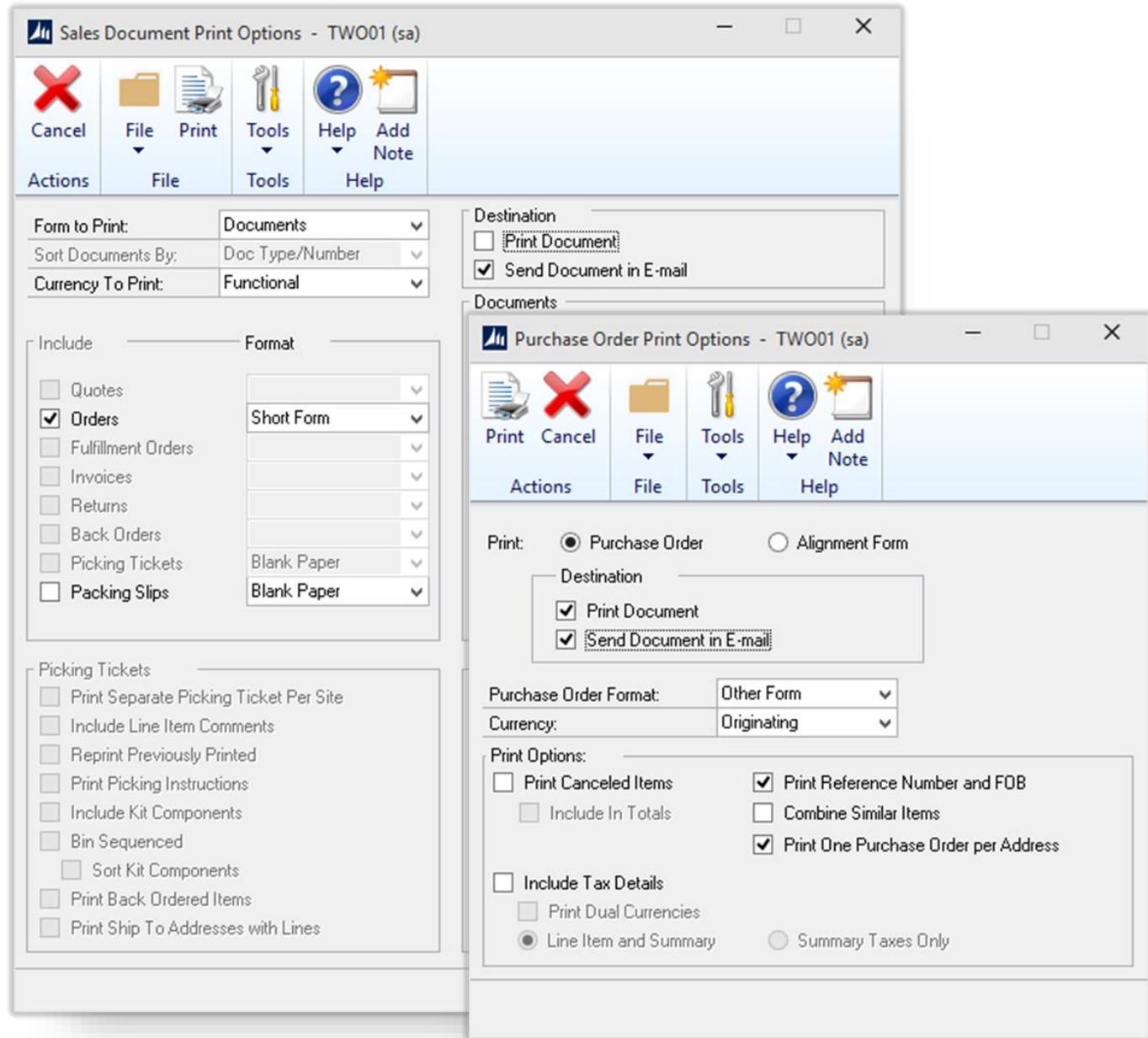
Self Service User License

- Support for an additional user type of Self Service
- Limits the navigation and functionality to essential tasks the self service user will need
- Security roles tailored to the Self Service User Type
- Enables user to quickly filter tasks that are available to each user type



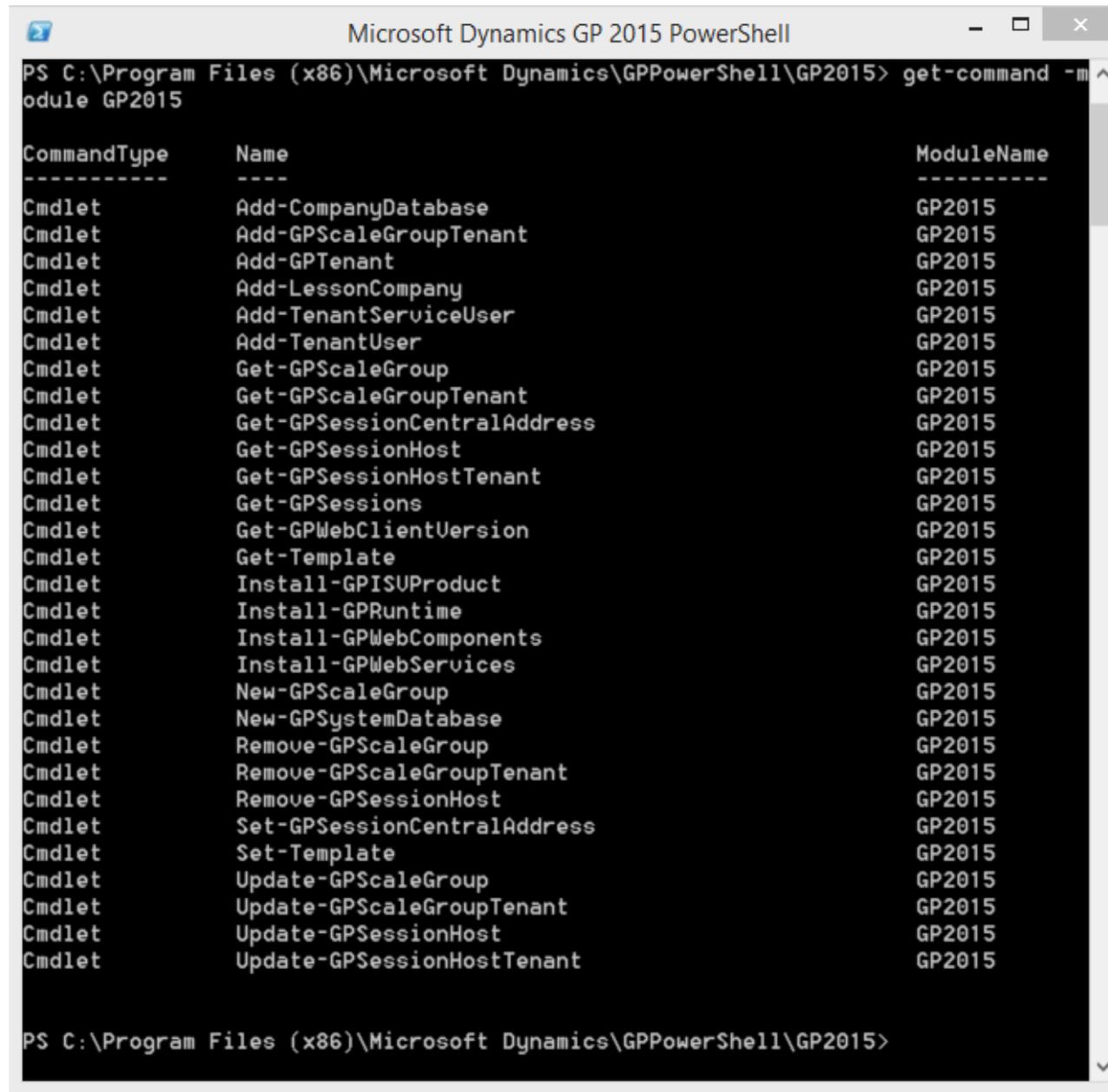
Enable Email on Report Options

- Enables email support for all document formats
- Supports all Sales Order Processing document formats
 - Blank
 - Short
 - Long
 - Other
- Supports all Purchase Order Processing document formats
 - Blank
 - Other



Scriptable GP Provisioning and Management

- PowerShell cmdlets
 - Install (GP components)
 - Configure (create databases, add tenants)
- Templates
 - Set parameters
 - Override with run specific parameters
- Remoting
 - Execute cmdlet on remote computers



```
Microsoft Dynamics GP 2015 PowerShell
PS C:\Program Files (x86)\Microsoft Dynamics\GPPowerShell\GP2015> get-command -module GP2015
```

CommandType	Name	ModuleName
Cmdlet	Add-CompanyDatabase	GP2015
Cmdlet	Add-GPScaleGroupTenant	GP2015
Cmdlet	Add-GPTenant	GP2015
Cmdlet	Add-LessonCompany	GP2015
Cmdlet	Add-TenantServiceUser	GP2015
Cmdlet	Add-TenantUser	GP2015
Cmdlet	Get-GPScaleGroup	GP2015
Cmdlet	Get-GPScaleGroupTenant	GP2015
Cmdlet	Get-GPSessionCentralAddress	GP2015
Cmdlet	Get-GPSessionHost	GP2015
Cmdlet	Get-GPSessionHostTenant	GP2015
Cmdlet	Get-GPSessions	GP2015
Cmdlet	Get-GPWebClientVersion	GP2015
Cmdlet	Get-Template	GP2015
Cmdlet	Install-GPISUProduct	GP2015
Cmdlet	Install-GPRuntime	GP2015
Cmdlet	Install-GPWebComponents	GP2015
Cmdlet	Install-GPWebServices	GP2015
Cmdlet	New-GPScaleGroup	GP2015
Cmdlet	New-GPSystemDatabase	GP2015
Cmdlet	Remove-GPScaleGroup	GP2015
Cmdlet	Remove-GPScaleGroupTenant	GP2015
Cmdlet	Remove-GPSessionHost	GP2015
Cmdlet	Set-GPSessionCentralAddress	GP2015
Cmdlet	Set-Template	GP2015
Cmdlet	Update-GPScaleGroup	GP2015
Cmdlet	Update-GPScaleGroupTenant	GP2015
Cmdlet	Update-GPSessionHost	GP2015
Cmdlet	Update-GPSessionHostTenant	GP2015

```
PS C:\Program Files (x86)\Microsoft Dynamics\GPPowerShell\GP2015>
```

Document Attachments for Workflow Email

- Send Document Attachments files with workflow task notification emails
 - -Scan payables invoice and attach it to the transaction
 - -Submit through workflow
 - -Workflow notification email will have scanned invoice attached along with pertinent details of payables invoice for the approver

The screenshot displays the 'Workflow Maintenance' application window. The interface includes a top toolbar with actions like 'Save Step', 'Clear', 'Delete Step', 'Copy', 'New Workflow', 'New Step', 'Help', and 'Add Note'. A left-hand pane shows a workflow tree for 'Purchasing' with steps such as 'Payables Batch Approval', 'Payables Transaction Approval', 'AP Invoice', 'Invoice Approval', 'Purchase Order Approval', 'Purchase Requisition Approval', and 'Vendor Approval'. The main area is configured for the 'Invoice Approval' step. The 'Step Name' and 'Description' are both 'Invoice Approval', and the 'Step Type' is 'Approval'. The 'Order' section has two radio buttons: 'This step is a first step' (selected) and 'This step follows the selected step:'. The 'Condition' section has two radio buttons: 'Action is always required for this step' (selected) and 'Action is required only when the following condition is met:'. The 'Assignment' section includes 'Assign to: Jodi Christiansen', 'Time limit: 8 Hours', and a checked 'Apply Workflow Calendar' box. The 'Send Message' checkbox is checked with the message 'WF ASSIGN PMDOC APPROVAL*'. The 'Include Document Attachment documents' checkbox is checked and circled in red. The 'Completion policy' section has three radio buttons: 'Only one response needed' (selected), 'Majority must approve', and 'All must approve'.

Dynamics GP 2015 R2 All in One Document Viewer Demo

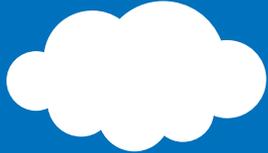


Azure. Web Client. Apps.

Microsoft Dynamics GP on Azure

Azure Cloud

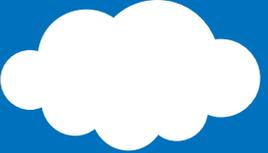
OS
SQL Server
Pre-Configured



Domain
Web Server
Reporting Server



Dynamics GP



On-Premises

Hardware
OS
SQL Server



Domain
Web Server
Reporting Server



Dynamics GP



Estimating Azure Costs



Determine number and size of servers required



Determine storage requirements



Estimate outbound data transfer



Acquire licenses

Monthly cost estimate for a 15 user web client deployment.

Web Server (A2) = \$133.92

SQL Server (A2) = \$133.92
(SQL license mobility)

Active Directory = \$ 66.96

Total/month = \$334.80

350 GB = \$16.25

(locally redundant storage)

Total/month = \$16.25

15 GB = \$1.20

(1GB/user/month)

Total/month = \$1.20

GP - Purchase perpetual, subscription or SPLA licenses the same as you would for an on-premise deployment.

SQL – Purchase SQL Server license with license mobility under Software Assurance.

Microsoft Dynamics GP Web Client

The web client effort focused intently on reducing hosting costs while maintaining the quality user experience and extensibility customers expect

Performance is comparable to Terminal Services and web client scales better

ISV applications will work

Same business logic is used for web and desktop clients

Support for "Mixed Mode".

Support for BOTH desktop client and web client on the same server

Web Client Security



Encryption

Fully encrypted login

All client–server interactions

Optionally between services

Https/Secure Sockets—certificates required

Windows or Azure authentication

Single login to landing site and Microsoft Dynamics GP

Mitigates Denial of Service attack

Microsoft Dynamics GP security remains

Web client for You



Deployment options that fit customer needs



Small

Single server deployment
for customers with less than
20 users

Large/Multi Tenant

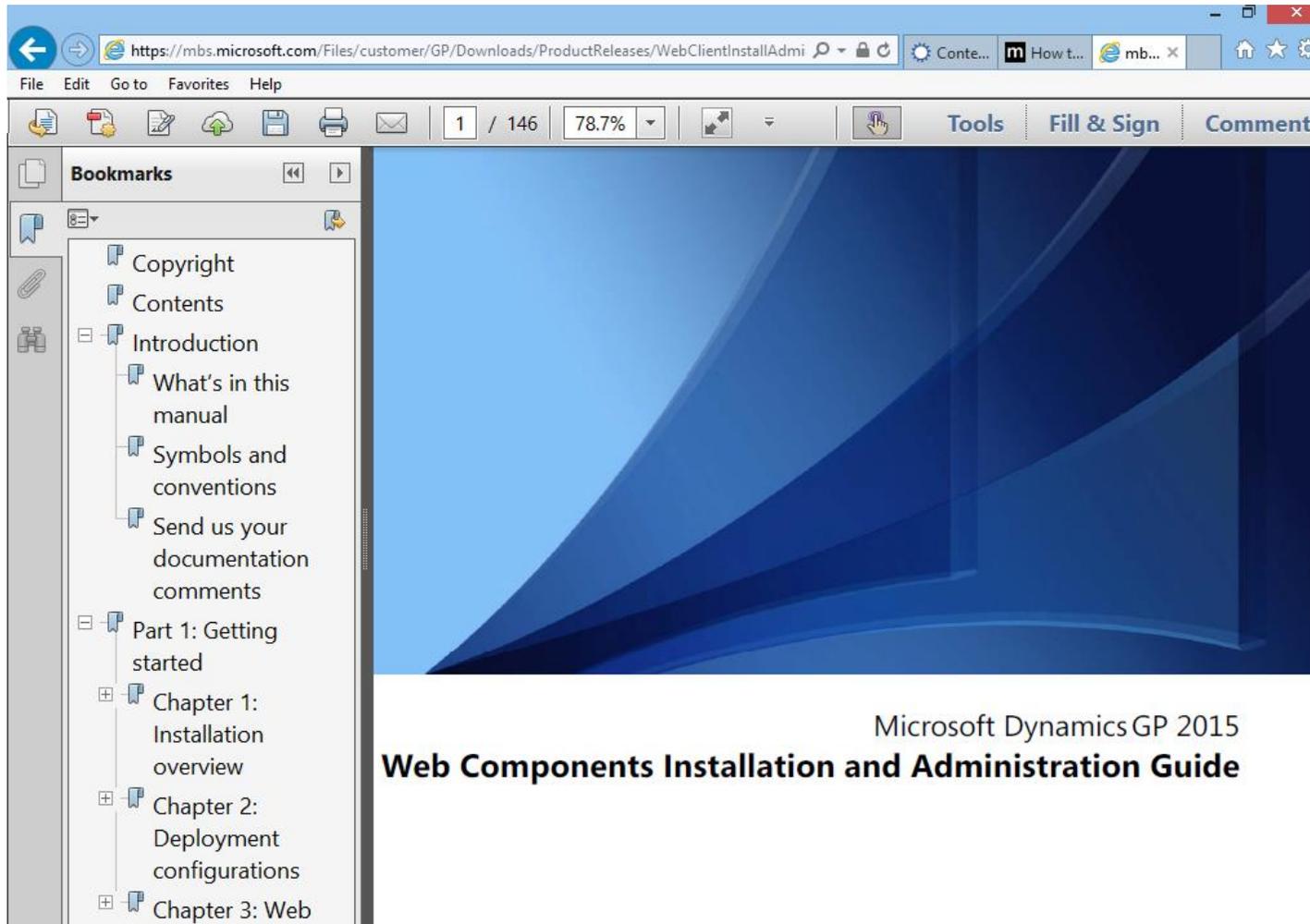
Quickly scale to hundreds of
users by adding additional
servers



**On-premises or
cloud**



Deployment guides



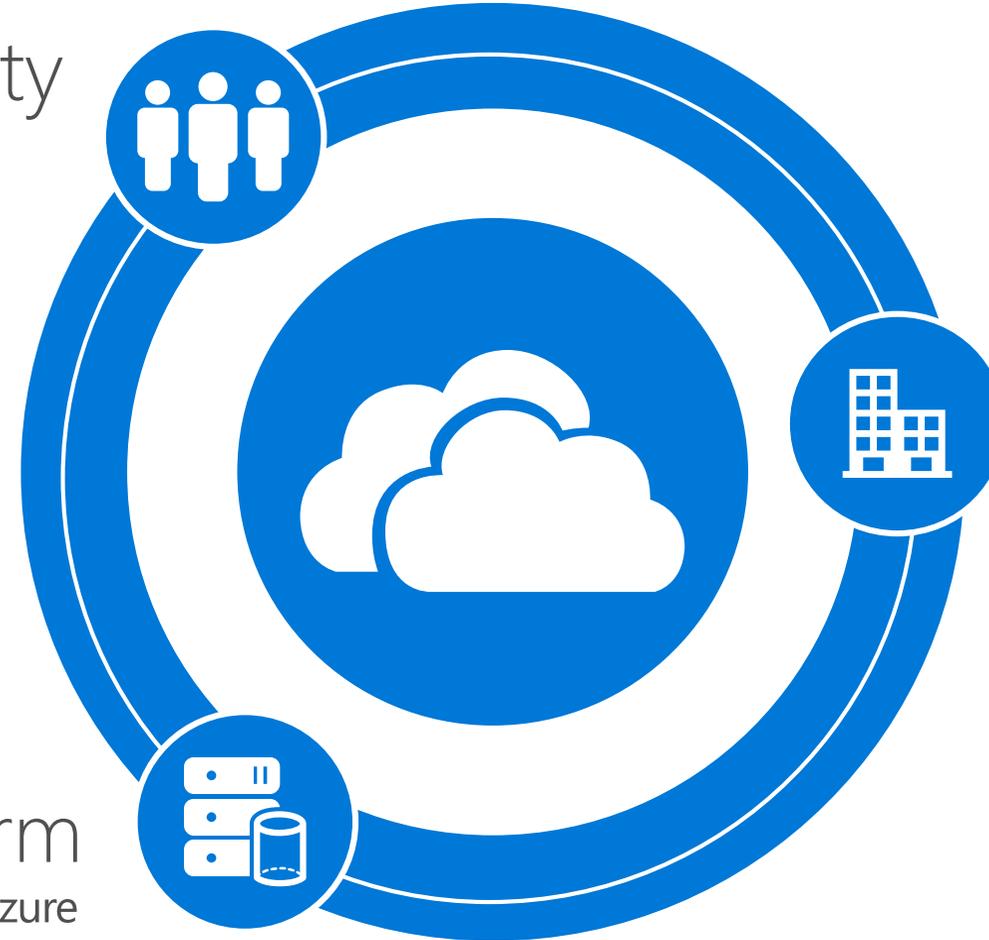
2015 documents up to date

Installation Guide includes
Service Based Architecture

Hosting and Deployment
White Paper

Dynamics GP Device Apps & O365

Productivity
Office 365



Business Apps
Microsoft Dynamics

Platform
Microsoft Azure

Dynamics Business Analyzer 7



Windows 8 Tablet

- Initial Release Jan 2013
- Release 7 July 2014
- Excel, SSRS and MR content
- Available in Windows store



Apple iPad

- Initial Release Sep 2014
- Excel, SSRS and MR content
- Available in iTunes store



Android Tablet

- Initial Release Oct 2014
- Excel, SSRS and MR content
- Available in Google Play store

Dynamics GP Office App

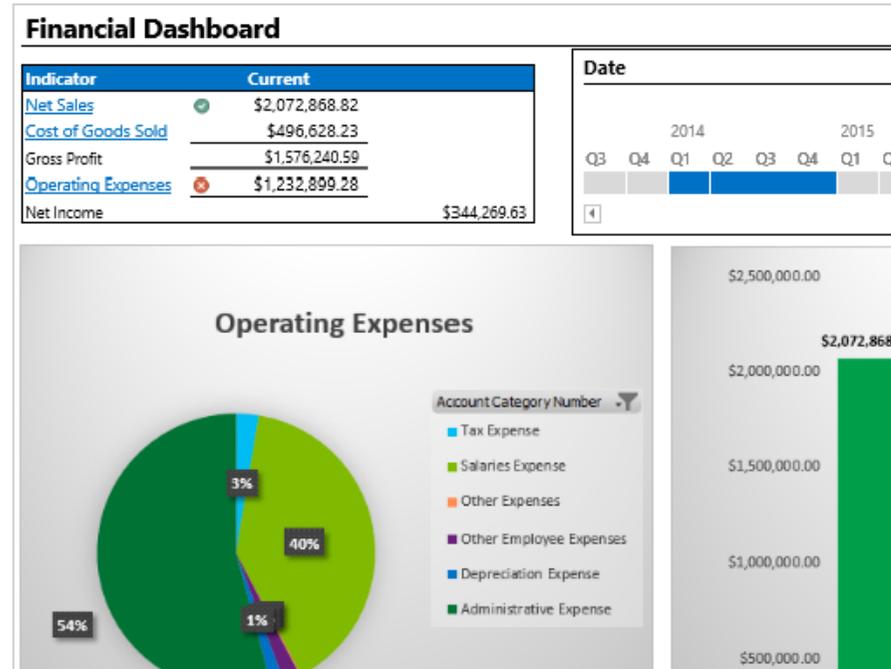
Microsoft Excel-based dashboard information in Microsoft Office 365 SharePoint Online

View Microsoft Dynamics GP information for
Financial
Sales
Inventory
Purchasing

Refresh data and drill to details in Microsoft Dynamics GP



Microsoft Dynamics GP Workspace
from Microsoft Corporation



Free

ADD IT

Good news - you already own this app.

By acquiring this app you agree to its [permissions](#).

VERSION 1.0.0.1
RATING ★★★★★ (0)
RELEASE DATE July, 2014
CATEGORY Data Visualization + BI, Financial Management
SUPPORT [App Website](#)

MORE ACTIONS ▾

Available in the Microsoft Office Store

Dynamics GP Time Management App



**Windows
Tablet**



Apple iPad



Android Tablet

MICROSOFT DYNAMICS TIME MANAGEMENT

Pilar, Ackerman (Fabrikam, Inc.)

< January 2015 >

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
28	29	30	31	1	2	3
4	5	6 8.00 Vacation	7 8.00 Vacation	8	9	10
11 8.00 Floating Holiday	12	13	14	15 4.00 Sick Time	16	17
18	19	20	21	22 4.00 Sick Time	23	24
25	26	27	28	29	30	31
1	2	3	4	5	6	7

ATTENDANCE

January 21st 2015

Vacation	Balance	0.00 ...
Sick Time	Balance	0.00 ...
Floating Holiday	Balance	0.00 ...

TIME CARDS

Active

January 15th 2015	08:00
January 1st 2015	24:00
December 15th 2014	08:00
December 1st 2014	20:30
November 15th 2014	00:00
November 1st 2014	12:00

Historical

January 15th 2015	08:00
January 1st 2015	24:00
December 15th 2014	08:00
December 1st 2014	20:30
November 15th 2014	00:00
November 1st 2014	12:00

Workflow



Moved to the Web Client



Removed SharePoint Dependency



Improved Design Experience



Increased Flexibility

Workflow Types

Dynamics GP 2013 R2

- Purchase Order Approval
- Purchase Requisition Approval
- Payroll Timecard Approval
- Project Timesheet Approval

Dynamics GP 2015

- General Ledger Batch Approval
- Receivables Batch Approval
- Payables Batch Approval
- Vendor Approval
- Employee Profile Approval
- Employee Skills Approval
- Direct Deposit Approval
- W4 Approval
- Project Expense Report Approval

Type Maintenance

Workflow Maintenance - TWO (sa)

Save Type Clear Delete Copy New Workflow New Step File Tools Help Add Note

Actions New File Tools Help

Purchasing

- Purchase Order Approval
 - PO Approval
 - Supervisor Approval
- Purchase Requisition Approval
 - Requisition 2
 - Requisition Approval
 - Manager Approval
 - Director Approval
- Select Vendor

Workflow Type: Purchase Order Approval

Description: Approval process for purchase order documents

[Window](#): Purchase Order Entry

Managers: GPWF Sara

Workflow Maintenance

Workflow Maintenance - TWO (sa)

Save Workflow Clear Delete Workflow Copy New Workflow New Step File Tools Help Add Note

Actions New File Tools Help

Purchasing

- Purchase Order Approval
 - PO Approval
 - Supervisor Approval
- Purchase Requisition Approval
 - Requisition 2
 - Requisition Approval
 - Manager Approval
 - Director Approval
 - Select Vendor

Workflow Name: Requisition Approval Active

Description: Requisition Approval

Workflow Type: Purchase Requisition Approval

Step	Condition	Assignment
Manager Approval	Always run	Jared Hall
Director Approval	where Purchasing Requisition Work...	Jared Hall
Select Vendor	where Purchasing Requisition Line.V...	Workflow originator

Options:

- Send notifications for completed actions
- Allow approver to delegate tasks
- Allow originator to be an approver
- Always require at least one approver
- Use alternate final approver: GPWF Phyllis

When a task is overdue:

- Take no action
- Escalate to next approver
- Escalate to:
- Automatically reject the overdue task

Step Maintenance

Workflow Maintenance - TWO (sa)

Save Step Clear Delete Step Copy New Workflow New Step File Tools Help Add Note

Actions New File Tools Help

Purchasing

- Purchase Order Approval
 - PO Approval
 - Supervisor Approval
- Purchase Requisition Approval
 - Requisition 2
 - Requisition Approval
 - Manager Approval
 - Director Approval
 - Select Vendor

Step Name: Manager Approval

Description: Manager must approve if > \$2500

Step Type: Approval

Order:

- This step is a first step
- This step follows the selected step:

Condition:

- Action is always required for this step
- Action is required only when the following condition is met:

Assignment:

Assign to: GPWF Phyllis

Time limit: 8 Hours

Apply Workflow Calendar

Send Message: WF ASSIGN POREQ APPROVAL

Completion policy:

- Only one response needed
- Majority must approve
- All must approve

Workflow User Selection

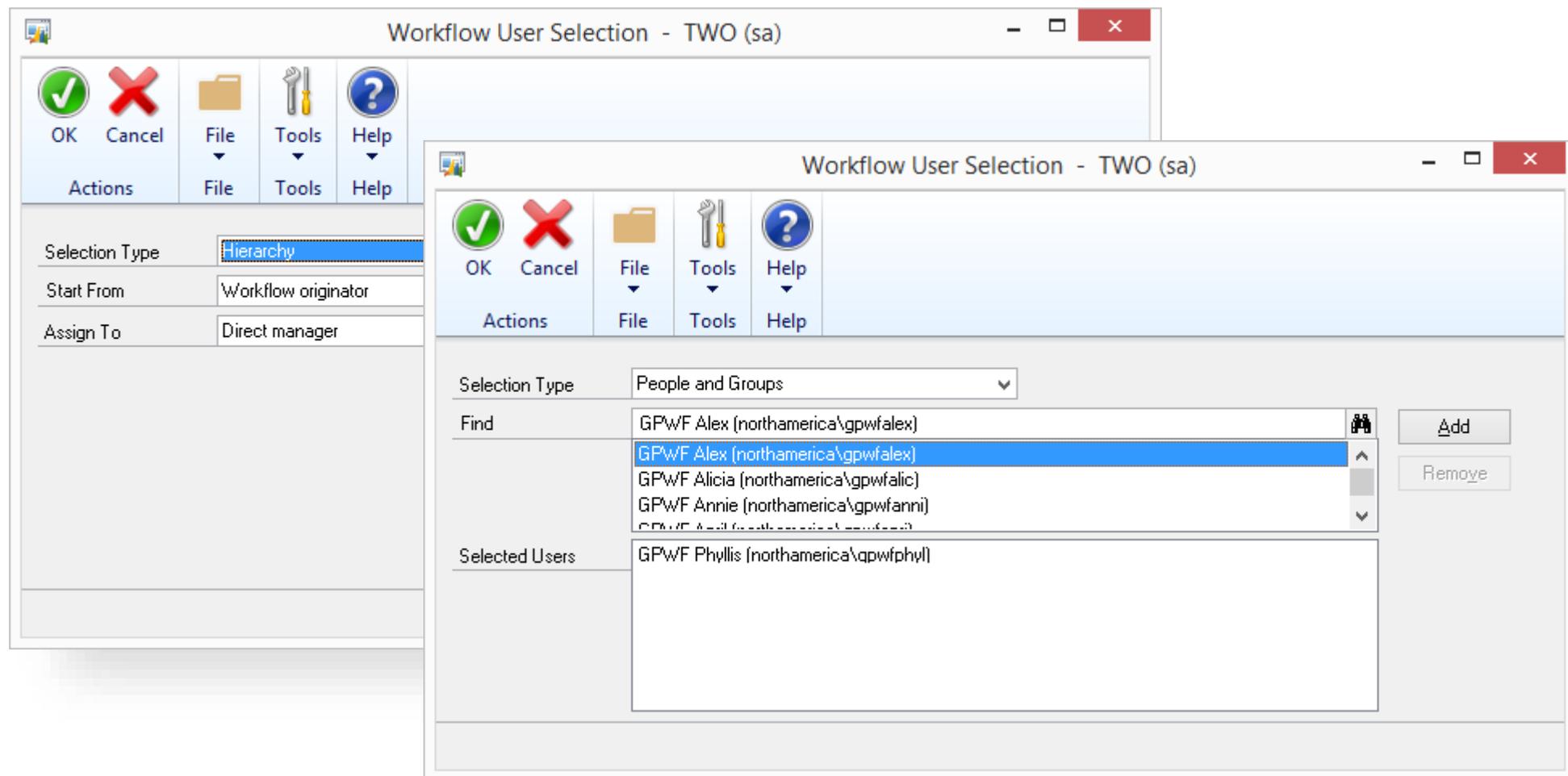
Selection Types:

AD User(s)

AD Groups

AD Hierarchies

Workflow users



Workflow Options

Send notifications for completed actions

The screenshot shows a window titled "Workflow Email Notification Maintenance - TWO (sa)". It features a menu bar with "OK", "Cancel", "File", "Tools", "Help", and "Add Note". Below the menu bar, there are two main sections: "Notify originator on:" and "Send carbon copy to:". The "Notify originator on:" section has a list of actions with checkboxes: Submit, Resubmit, Approve, Task Complete, Reject (checked), Delegate, Recall (checked), Escalate (checked), Edit, and Final Approve (checked). The "Send carbon copy to:" section has a table with columns for the action name and the recipient email address. The table contains four rows, all with the action name "WF ACTION COMPLETED*" and the recipient email address "GPWF Phyllis (northamerica\gpwfphyl)".

Notify originator on:	Send carbon copy to:
<input type="checkbox"/> Submit	
<input type="checkbox"/> Resubmit	
<input type="checkbox"/> Approve	
<input type="checkbox"/> Task Complete	
<input checked="" type="checkbox"/> Reject	WF ACTION COMPLETED* GPWF Phyllis (northamerica\gpwfphyl)
<input type="checkbox"/> Delegate	
<input checked="" type="checkbox"/> Recall	WF ACTION COMPLETED* GPWF Phyllis (northamerica\gpwfphyl)
<input checked="" type="checkbox"/> Escalate	WF ACTION COMPLETED* GPWF Phyllis (northamerica\gpwfphyl)
<input type="checkbox"/> Edit	
<input checked="" type="checkbox"/> Final Approve	WF ACTION COMPLETED* GPWF Phyllis (northamerica\gpwfphyl)

Transaction Entry

Purchase Requisition Entry - TWO (sa)

Save Actions AA Workflow View History View File Print Available Reports Tools Help Add Note

Manager Approval [Pending approval by GPWF Phyllis; due 6/16/2014 3:05 PM]

Requisition Number	REQ00000000000011	Date	4/12/2017
Description	Office supplies	Required Date	4/12/2017
Comment ID		Requested By	sa
Ship To Address		User-Defined 1	
		User-Defined 2	

Line Items by Order Entered

Line	Item Number	U of M	Quantity Ordered	Unit Cost	Extended Cost
1	LUMIA 1520	Each	3	\$199.99	\$599.97
Nokia Lumia 1520		WAREHOUSE	* ACETRAVE0001		

Account	000 - 1300 - 01	Freight	\$0.00
Currency ID	Z-US\$	Tax	\$0.00
Shipping Method	OVERNIGHT	Status:	New
Ship To Address	WAREHOUSE	Line Defined 1	
Comment ID		Line Defined 2	
Required Date	4/12/2017		
Requested By	sa		

Previous Next

Total \$599.97

Not all information needed for purchase has been entered. Information needed for the purchase is marked with an asterisk.

Requisition Number Status Submitted

Notification and Action

GP Navigation Lists

Microsoft Dynamics GP

Home > Purchasing > Purchasing Requisition Transactions > Purchasing Requisitions Pending Approval

Microsoft Dynamics GP > Transactions > Inquiry > Reports > Cards

Purchasing

- Vendors
- All Purchasing Transactions
- Payables Transactions
- Purchasing Requisition Transactions
 - Purchasing Requisitions Not Submitted
 - Purchasing Requisitions Pending Approval
- Purchase Order Transactions
- Payables Batches
- Report List
- Microsoft Dynamics GP Reports
- Excel Reports
- Reporting Services Reports

Home

Financial

Sales

Purchasing

Administration

Inventory

HR & Payroll

Project

Field Service

Workflow: Approve/Complete, Recall, Reject, Delegate

Actions: Purchase, Copy To New Requisition

Modify: Edit, Delete, Void

New: Requisition

Restrictions: Last 90 Days, Include Historic Transactions, Include All Requisitions

Reports, Go To

Purchasing Requisitions Pending Approval

Type to filter

Hide Options

Show results

Where Workflow Status is Pending User Action

Add Filter

	Date	Document Number	Description	Amount	Required Date	Workflow Status	Task Due Date	Task Due Time	Workflow User
<input checked="" type="checkbox"/>	4/12/2017	REQ00000000000007	Cell phones for...	\$3,649.86	4/12/2017	Pending User Action	6/2/2014	11:42:11 AM	NORTHAMERICA\BMEIEF
<input checked="" type="checkbox"/>	4/12/2017	REQ00000000000009		\$0.00	4/12/2017	Pending User Action	6/13/2014	9:01:36 AM	NORTHAMERICA\JARE...
<input checked="" type="checkbox"/>	4/12/2017	REQ00000000000011	Office supplies	\$599.97	4/12/2017	Pending User Action	6/16/2014	3:05:33 PM	NORTHAMERICA\GPWF...

3 of 3 records selected.

Document Number REQ00000000000011

Description : Office supplies
 Date : 4/12/2017
 Amount : \$599.97

Required Date : 4/12/2017
 Req Status : Submitted
 Document Attached : No

Ship To Address :

Line Number	Item Number	Description	Required Date	U of M	Qty Ordered	Unit Cost	Vendor ID	Status	Attachments
1	LUMIA 1520	Nokia Lumia 1520	4/12/2017	Each	3	\$199.99	ACETRAVE0001	New	No

4/12/2017 Fabrikam, Inc. sa

Workflow Setup

Workflow Setup - TWO (sa)

OK Cancel Test E-Mail Test E-Mail Action File Tools Help Add Note

Actions File Tools Help

Enable E-Mail for Workflow

Outgoing Mail Server (SMTP)

E-Mail Address	dyngpworkflow@fabrikam.com		
Display Name	Dynamics GP Workflow		
Server Name	smtphost.fabrikam.com	Port	25

This server requires a secure connection (SSL)

SMTP Authentication

Windows Authentication using Database Engine service credentials

Basic Authentication

User Name			
Password			
Confirm Password			

Anonymous Authentication

Enable E-Mail Actions

Dynamics GP Web Services Server

Server Name	WEBSERVICESERVER	Port	48620
-------------	------------------	------	-------

This server requires a secure connection (SSL)

Out-of-Office Delegations

The image shows two overlapping windows of the 'Workflow User Delegation' application. The top window is titled 'Workflow User Delegation - TWO (sa)' and has a toolbar with icons for OK, File, Tools, Help, Open Note, and Add Note. Below the toolbar, there is a text field labeled 'Delegate tasks for:' containing 'GPWF Phyllis (northamerica\gpwfpfyl)'. A checkbox labeled 'Automatically delegate my workflow tasks' is checked. Below this is a 'Select a delega' dropdown menu.

The bottom window is also titled 'Workflow User Delegation - TWO (sa)'. It has the same toolbar. The 'Delegate tasks for:' field contains 'GPWF Phyllis (northamerica\gpwfpfyl)'. The 'Automatically delegate my workflow tasks' checkbox is checked. Below this is a 'Select a delegate:' section with two radio buttons: 'For all workflow types' (unselected) and 'By workflow type' (selected). Below the radio buttons is a table with the following data:

Workflow Type	Delegate to:	Start Date	End Date
Purchase Order Approval	GPWF Sara (northamerica\gpwfsara)	5/1/2017	5/12/2017
Purchase Requisition Approval	GPWF Alex (northamerica\gpwfaalex)	5/1/2017	5/12/2017

Dynamics GP 2015 Feature Highlights

Project Employee Expense Report

Project Employee Expense Report and Project Timesheet Entry replace all of the functionality of both Business Portal T&E and PDK!

The screenshot shows the 'PTE Employee Expense Entry' application window. At the top, there is a ribbon with various action buttons: Save, Delete, Submit, View History, View, Print, Available Reports, Help, and Add Note. Below the ribbon, the main area is titled 'Expense Report [Not Submitted]'. It contains several input fields: Employee ID (DIAZ0001), Employee (Brenda Diaz), Currency (Z-US\$), Expense Report ID (DIAZ0001-EE-041217-1), and Purpose. Below these fields is a table with columns for Date, Project, Description, Item, Qty, and Amount. The table contains two rows of data. At the bottom right, there is a summary section with 'Report Total' and 'Reimbursable' both set to \$1,500.00.

Date	Project	Description	Item	Qty	Amount
4/12/2017	15	COHOREQ	AIRFARE	1.00	\$1,500.00
04122017	15			0.00	\$0.00

Report Total: \$1,500.00
Reimbursable: \$1,500.00

Top Feature Review

Financials

Dynamics GP 2013 SP2

Display Checkbook ID on
Cash Receipts Inquiry
Customer Combiner &
Modifier
Vendor Combiner &
Modifier
Payables Void Enhancements
Reconcile Checkbook
without Marking Transaction
AA Finance Charge
Assessment
AA and Sales Order deposits

Dynamics GP 2013 R2

Copy and Paste to GL
Roll Down Account
Segment Description
Reverse Fiscal Year
Reprint Outstanding
Transactions Report
Default Sort order for
Payables Checks
Payables Transaction
Document Attach
Default Asset ID from Fixed
Asset Class
Integrate Multi-currency
Revaluation with AA

Dynamics GP 2015

General Ledger Batch
Workflow
Payables Batch Workflow
Vendor Approval Workflow
Receivables Batch Workflow
Intercompany
enhancements
Fixes Assets Year End Close
Report
Edit E-mail for historical
Statements and Payables
Remittance

Distribution

Dynamics GP 2013 R2

Suggested Item

Enhancements

Assign Item to Multiple Sites

Purchase Requisitions

Purchase Requisition

Workflow

Purchase Order Workflow

Prepayment Additions

Encumbrance SSRS Reports

Project Time

Project Time Workflow

Dynamics GP 2015

Edit Email for Historical documents – Sales and Purchasing

Payables warn when open Purchase Order

Payment Terms Enhancements

Invoicing on Web Client

Employee Self Service

Dynamics GP 2015 R2

Purchase Requisition

Payroll Timecard

Project Timesheet

Home Page Parts

Simplified Navigation

Requisition Workflow

Timecard Workflow

Project Time Workflow

Dynamics GP 2015

Employee Profile

Paystubs

W4

Benefits

Direct Deposit

Skills & Training

Project Expense

Profile Workflow

W4 Workflow

Direct Deposit Workflow

Skills Workflow

Manager Profile

Manager Skills

Employee Profile

Employee can view and edit their employment information

Address, Dependents, Emergency Contacts and Position History

The screenshot shows a web application window titled "Employee Profile". At the top, there is a navigation bar with icons and labels for "Save", "Cancel", "Submit", "View History", and "Help". Below this is a "Notify Payroll" section with input fields for "Employee ID" (value: ACKE0001) and "Name" (value: Pilar Ackerman). The main content area is divided into several tabs: "Personal", "Emergency Contacts", "Dependents", and "Position History". The "Personal" tab is active and contains two sub-sections: "Personal Information" and "Contact Details".

Personal Information

Name	First: Pilar, Middle: Marie, Last: Ackerman, Suffix: , Preferred Name:
Soc Sec Number	917-23-9833
Hire Date	8/3/2013
Birth Date	11/24/1988
Gender	Female
Ethnic Origin	White
Marital Status	Married
Spouse's Name	George

Contact Details

Home Phone 1	(312) 555-0115 Ext. 0000
Home Phone 2	(312) 555-0150 Ext. 0000
Home Phone 3	(312) 555-0151 Ext. 0000
Home Fax	() - Ext.
Email 1	
Email 2	
Messenger	

Address

Address ID	PRIMARY
Street	987 Willow Ave
City	Winnetka
State	IL
ZIP Code	98272
Country	USA

Employee Benefits

Employee can view their benefits with employer and employee contributions

The screenshot shows a software window titled "Benefits View". At the top left, there are "OK" and "Help" buttons. Below them, the "Employee ID" is "ACKE0001" and the name is "Pilar Ackerman". There are radio buttons for "All Benefits" (selected) and "Active".

Employer Contributions

Code	Description	Status	Frequency	Method	Amount or %
401K	Retirement Plan	Active			\$0.00
INS	Insurance Premium	Active			\$49.36

Employee Contributions

Code	Description	Status	Frequency	Method	Amount or %
401K	Retirement Plan	Active			\$0.00
EPU	Employee Purchases	Active			\$0.00
INS2	Insurance (family coverage)	Active			\$72.95
MED	Medical Flex	Active			\$20.00

MED	Medical Flex	Active			\$20.00
INS2	Insurance (family coverage)	Active			\$72.95
EPU	Employee Purchases	Active			\$0.00
401K	Retirement Plan	Active			\$0.00
Code	Description	Status	Frequency	Method	Amount or %

Employee Paystubs

An employee can view or print their paystubs from the paystubs navigation list

View
Custom Date ▾
Print

Actions
Restrictions
Reports

Paystubs (read only) ▾
Type to search

Show results

+ Add Filter ▾

Apply Filter

<input type="checkbox"/>	Check Date ▾	Check Number	Gross Wages	Federal Tax	FICA Medicare	FICA SS	Total Deductions	Total Benefits	Net Wages
<input type="checkbox"/>	12/1/2018	DD000000000000000178	\$937.50	\$42.06	\$12.25	\$52.36	\$121.08	\$50.77	\$695.26
<input type="checkbox"/>	11/1/2018	DD000000000000000175	\$937.50	\$42.06	\$12.24	\$52.37	\$121.08	\$50.77	\$695.26
<input type="checkbox"/>	10/1/2018	DD000000000000000173	\$937.50	\$42.06	\$12.25	\$52.36	\$121.08	\$50.77	\$695.26
<input type="checkbox"/>	9/1/2018								
<input type="checkbox"/>	8/1/2018								
<input type="checkbox"/>	7/1/2018								
<input type="checkbox"/>	6/1/2018								
<input type="checkbox"/>	6/1/2018								
<input type="checkbox"/>	5/1/2018								

***** Employee Paystub *****

Fabrikam, Inc.

Ackerman, Pilar

987 Willow Ave

Winnetka IL 98272

Employee ID: ACKE0001

Check Number: DD000000000000000178

Check Date: 12/1/2018

Pay Period Start: 12/1/2018

Pay Period End: 12/1/2018

Code	Description	Pay Rate	Hours	Current Amount	Year-To-Date Hours	Year-To-Date Amount
SALY	Salary Pay Code	\$22,500.00	86.67	\$937.50	1,000.04	10,817.30
GROSS PAY				\$937.50		\$13,117.30
401K	401(k) Deduction			\$28.13		324.57
INS2	Insurance (family coverage)			\$72.95		875.40
MED	Medical Flex			\$20.00		240.00
TOTAL DEDUCTIONS				\$121.08		\$1,439.97
NET PAY				\$816.42		\$11,677.33

Employee Direct Deposit

Edit deposit information, add accounts or change the distribution

Workflow Enabled

The screenshot shows a web application window titled "Employee Direct Deposit". The interface includes a top navigation bar with icons for "Clear", "Stop Deposit", "Save", "Workflow", "View History", and "Help". Below this is a form area with the following fields:

- Employee ID:
- Name:
- Direct Deposit Status:
- Remainder Line Number:

Below the form is a table with the following data:

Line	Bank Number	Account Number	Checking/Savings	Amount	Percent
1	123456780	12345	Savings	\$0.00	50%
2	123456780	615421	Savings	\$0.00	50%

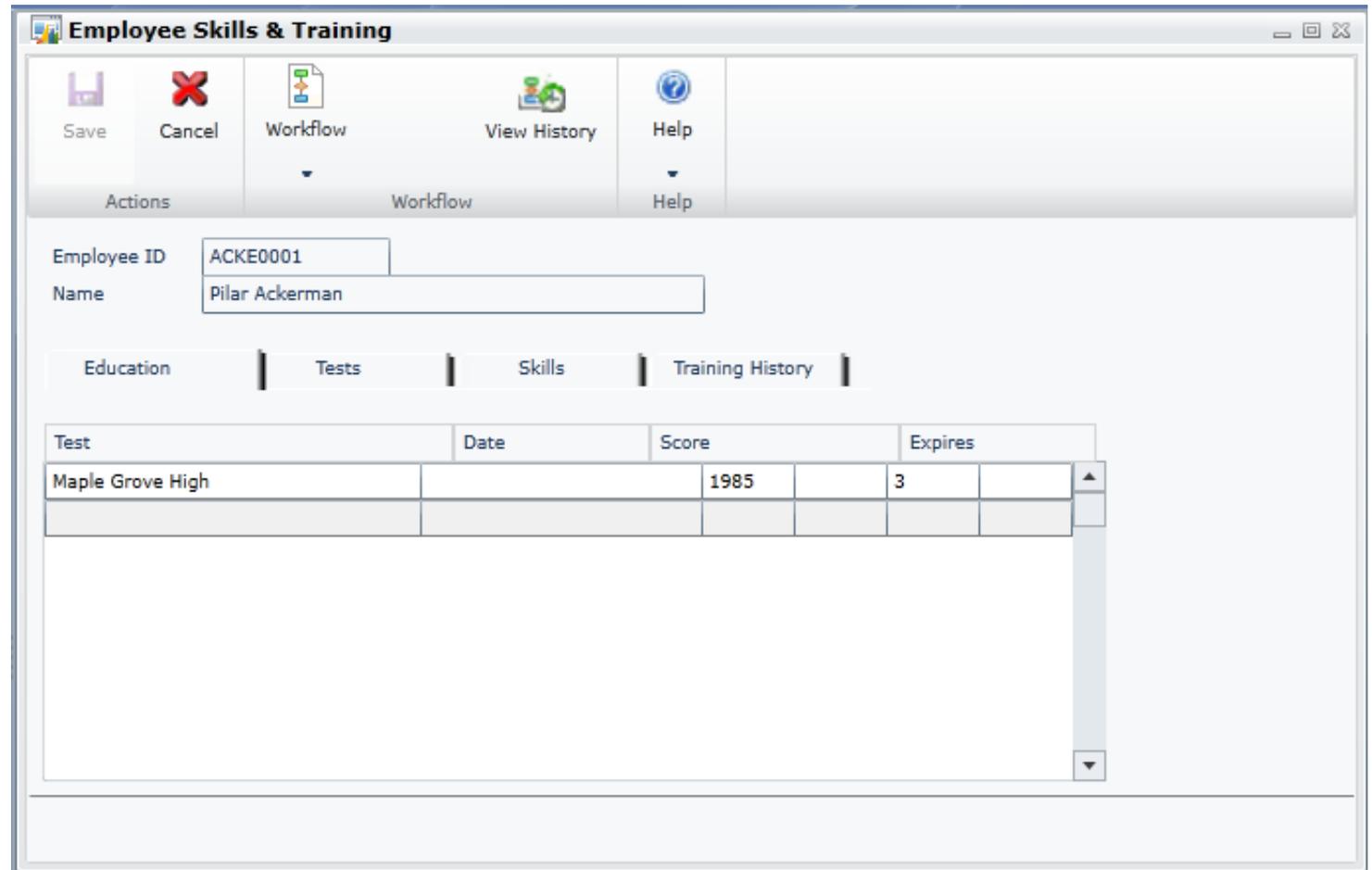
At the bottom right of the table are "Move Up" and "Move Down" buttons. At the bottom of the form area are "Add Account" and "Remove Account" buttons.

Manager Skills and Training

Manager can view and maintain their employee's education and tests

View employee's skills and training history

From navigation lists



The screenshot shows a web application window titled "Employee Skills & Training". The interface includes a top navigation bar with buttons for "Save", "Cancel", "Workflow", "View History", and "Help". Below the navigation bar, there are input fields for "Employee ID" (containing "ACKE0001") and "Name" (containing "Pilar Ackerman"). A horizontal menu below the input fields has four tabs: "Education", "Tests", "Skills", and "Training History". The "Tests" tab is currently selected, displaying a table with the following data:

Test	Date	Score	Expires
Maple Grove High		1985	3

Service Based Architecture – Deep Dive



End Point URI Structure

PATTERN: *[Context]*/*[Resource Path(keys)]*?*[Query String]*

Hypothetical Examples

GET .../Tenants(Default)/Companies(Contoso)/Sales/Customers(AARONFITZ0001)?someflag=true

POST .../Tenants(Default)/Companies(Contoso)/Sales/Customers

DELETE .../Tenants(Default)/Companies(Fabrikam.%20Inc)/Manufacturing/Boms(WIDGET123)

GET .../Tenants(Default)/Companies(Fabrikam.%20Inc)/Products(Id=346)/Boms?limit=20

Discover your endpoint

- Discover available operations on a live deployment – just add /Help
- Use to model your code or extract info from system
- Provides info on objects, parameter requirements
- Discovery not filtered by security – you may see operations you can't call
- Example URI does not provide company context

The screenshot shows a web browser window displaying the help page for a Dynamics GP endpoint. The page is titled "Discovery - Dynamics/Fina..." and shows two operations:

Operations:

Dex Action Type: GetList
HTTP Request Type: GET
URI Template: Dynamics/Financials/Checkbooks
Description: Returns a summary list of all Checkbooks.

Product Name: Dynamics
Source Procedure Name: ServiceGetCheckBookList
Input Parameters:

Name	Type	Optional
CheckbookList	System.Collections.Generic.List<Microsoft.Dynamics.GP.BusinessObjects.Financial.Checkbook>	

Return Values:

Name	Type
	System.Collections.Generic.List<Microsoft.Dynamics.GP.BusinessObjects.Financial.Checkbook>

Example URI: https://kracer_winsrv.northamerica.corp.microsoft.com/GPService/Tenants(DefaultTenant)/Dynamics/Financials/Checkbooks
Example Request: JSON Empty Body
XML Empty Body
Example Response: JSON { "Payload": [] }
XML <DexResponse><Payload><ArrayOfCheckbook /></Payload></DexResponse>

Special UserType: LIMITED

Operations:

Dex Action Type: Get
HTTP Request Type: GET
URI Template: Dynamics/Financials/Checkbooks({ID})
Description: Returns a single identified Checkbook.

Product Name: Dynamics
Source Procedure Name: ServiceGetCheckbook
Input Parameters:

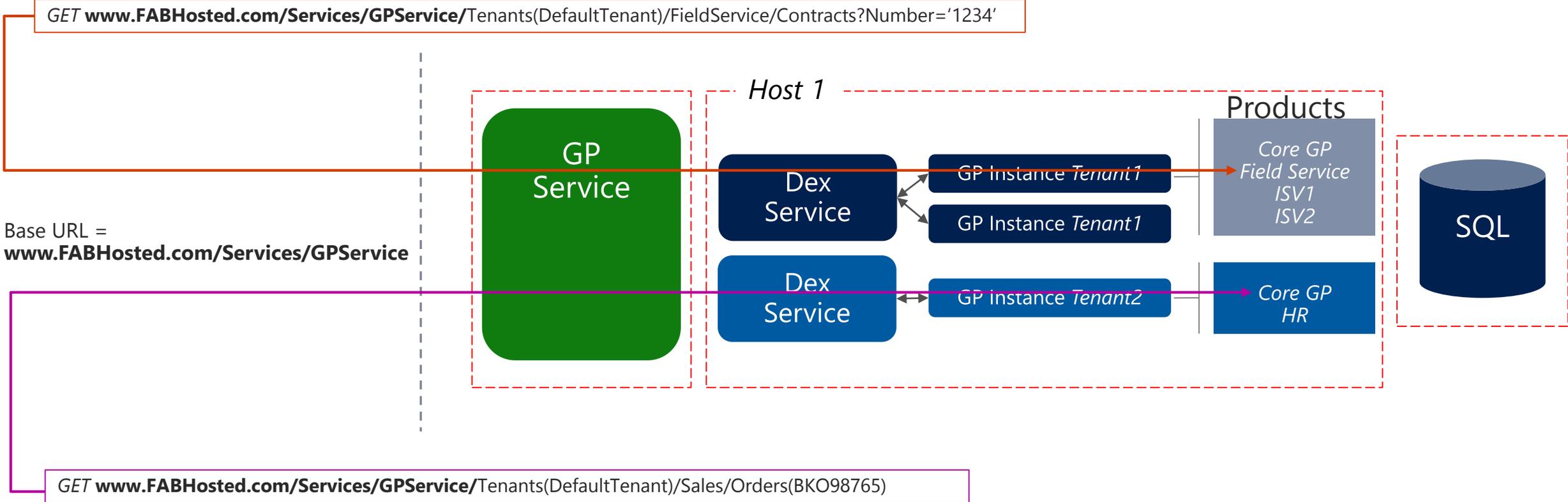
Name	Type	Optional
Id	string	

Return Values:

Name	Type
CheckbookObj	Microsoft.Dynamics.GP.BusinessObjects.Financial.Checkbook

Example URI: https://kracer_winsrv.northamerica.corp.microsoft.com/GPService/Tenants(DefaultTenant)/Dynamics/Financials/Checkbooks(ExampleString)
Example Request: JSON Empty Body
XML Empty Body

Service Call in Action



LAN Boundary - - - - -
Machine Boundary - - - - -

Acquire a Microsoft Dynamics GP App

Microsoft Dynamics



Microsoft Dynamics GP Time and Attendance

Microsoft Dynamics ISVs



Binary Stream

eOne

Horizons

Ethotech

Encore

Get and analyze data

- **Office Tools**
 - Native Excel – Web Queries (xml)
 - Power Query – Better tool to leverage REST services
 - Power View – awesome visuals from worksheet data
 - Power Map – if you have geolocation data
- **Portable and Secure**
 - Authentication built in
 - Encryption end to end

Build an app

Visual Studio



Custom app with Visual Studio
- Microsoft Dynamics GP helper
in Visual Studio next

Sienna



Sienna
- Consumer/end user tool
- Free
- Builds Windows 8 apps

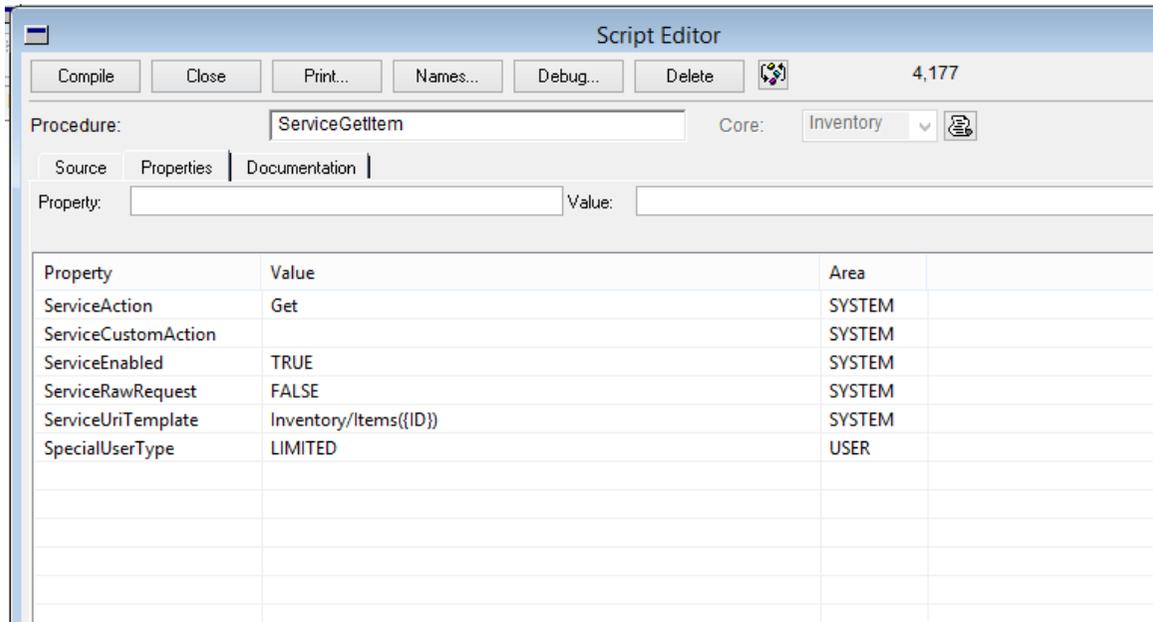
Other Platform Tools



Needs to support
- http (web) requests
- JSON or XML
- Windows or Org Identity
PostMan app in Chrome

What's behind an operation?

- Dexterity sanScript + .NET interop
- New global procedure type - Service Procedure
- Added properties describe operation
- Documentation – flows through to Discovery



Script Editor

Compile Close Print... Names... Debug... Delete 4,177

Procedure: ServiceGetItem Core: Inventory

Source Properties Documentation

Property: Value:

Property	Value	Area
ServiceAction	Get	SYSTEM
ServiceCustomAction		SYSTEM
ServiceEnabled	TRUE	SYSTEM
ServiceRawRequest	FALSE	SYSTEM
ServiceUriTemplate	Inventory/Items({ID})	SYSTEM
SpecialUserType	LIMITED	USER

Service Procedure Properties

- Action – maps to http verbs + custom POST option
- CustomAction – tag to identify a non crud operation
- Enabled – DAG recognizes if TRUE
- RawRequest – you get the raw html stream
- URI Template – resource path used to invoke and bind non managed parameters
- Special User Type – available to limited users

Developer Experience

- Create any .NET objects for data I/O
- Create your Service Procedure(s)
- Use DAG to create your assembly
- Chunk Dictionary
- Deploy your assembly alongside the dictionary

Program.cs

ConsoleApplication2 ConsoleApplication2.Program Main(string[] args)

```

using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace ConsoleApplication2
{
    // 0 references
    class Program
    {
        // 0 references
        static void Main(string[] args)
        {
        }
    }
}

```

Add Connected Service

Microsoft
Salesforce

Azure Mobile Services
Store data in the cloud, add authentication, and deliver push notifications for mobile apps.

Azure Storage
Store and access data with Azure Storage services like Blobs, Queues, and Tables.

Dynamics GP
Connects to Microsoft Dynamics GP Service Based Architecture.

Office 365 APIs
Integrate your applications with Office 365 services such as mail, calendar, contacts, files and more.

Created by: Microsoft
Version: 1.0.0
[More information](#)

[Find more services...](#)

Configure Close

Solution Explorer

Search Solution Explorer (Ctrl+;)

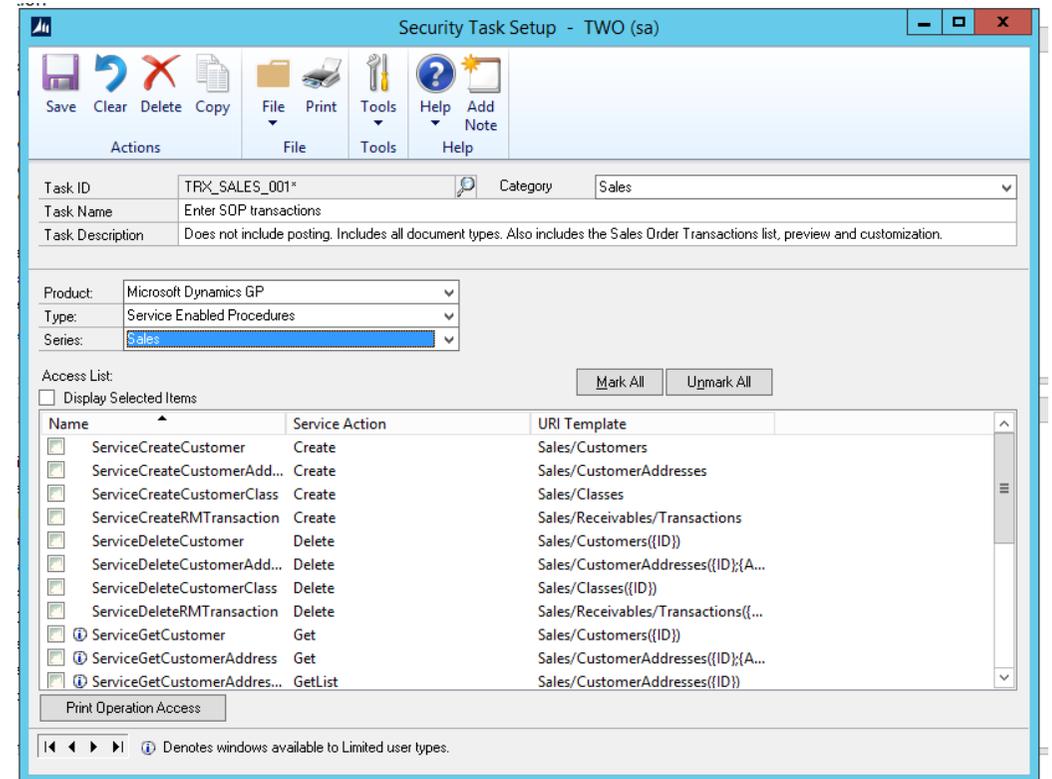
- Solution 'ConsoleApplication2' (1 project)
 - ConsoleApplication2
 - Properties
 - References
 - App.config
 - Program.cs

Solution Explorer Team Explorer Class View

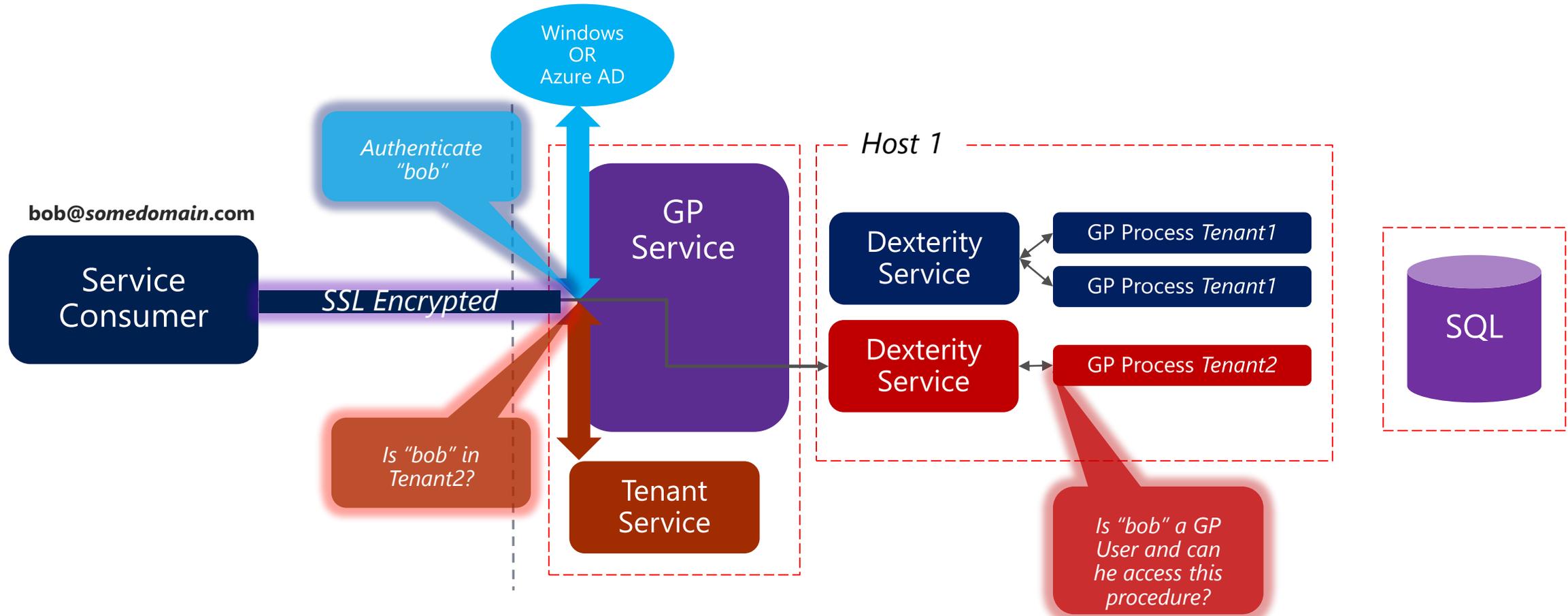
Properties

Security

- Fully Encrypted with SSL
- Consumers must be a GP User with AD or Org Account mapped
- Roles/Tasks authorize operations



Security Flow



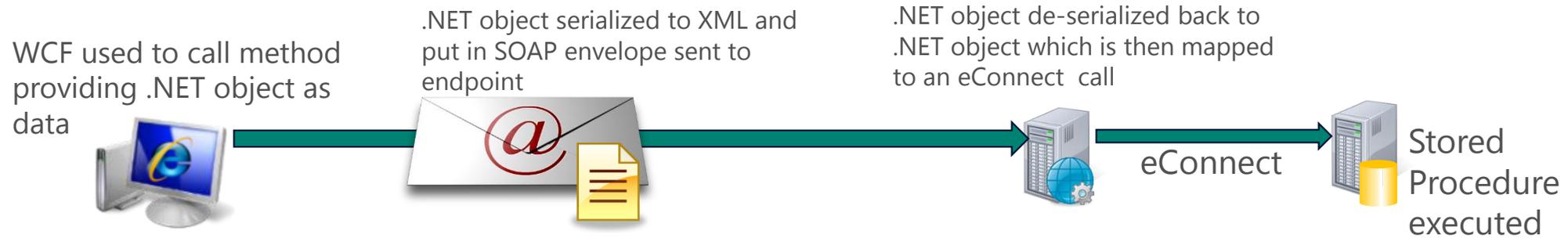
Microsoft Dynamics GP Services – V1

Microsoft Dynamics GP Web Services

Based on SOAP protocol with XML 'documents' as a payload

Underlying logic was eConnect sql procedures (duplicated from client)

Security was standalone and separately configured (could be 'synched' to Microsoft Dynamics GP)



Service based architecture advantages

- Uses the language of the Web
 - Many tools and off the shelf apps support REST
 - Http protocol supported by most development languages
- Leverages dexterity and existing logic
- Integrated security + encryption
 - SSL – communications encrypted end to end
 - Users are in the GP System – one place to maintain users
 - Security by role
- Discovery

Parts included, some assembly required

- Included on install media under Web Components
- Do not have to install Web Client
- Can install side by side with Web Client (same machine)
- No additional license needed
 - Users will need to have a Microsoft Dynamics GP User/license
- Requires an SSL Certificate
- Deployment guide available
- Web Management Console

Partner Benefits

- Companion/Mobile app opportunities
- A recent survey by [Vision Mobile](#) found that just 16% of worldwide developers are building mobile apps for enterprises
- Ability to leverage managed code
- Integrate to any desired GP functionality
 - CRUD & non CRUD operations
- Maintain existing Dexterity investments

“reIMAGINE the possibilities”

- This is more than just a bunch of web services
 - It's a framework
 - It's an enabler
- Think broadly first then narrow your focus
- Anything that benefits from mobility is a candidate

