








# Enhancements in Spectrum 2022 R1






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## Enhancement Legend

|   |   |
|---|---|
| <BLANK>   | Available on all systems, ViewpointOne, Hosted and On-prem  |
|  | Available on Trimble Construction One Systems Only  |
|  | Top Suggestion Box Enhancement<br>Log your enhancement ideas at <a href="https://vpspectrum.ideas.aha.io/">https://vpspectrum.ideas.aha.io/</a> |

## Enhancements by Module

|   |     |   |
|---|-----|---|
|  | SYS | Automated Enterprise Registration   |
|  | SYS | New Help System   |
|   | SYS | User Type Management - User Type Analysis Report  |
|   | SYS | User Type Management - Access by User Type Listing  |
|  | SYS | SSO Enhancements / Trimble ID Integration   |
|   | SYS | Audit log - Search Windows for Table Name and Columns Name were modified to improve Performance |
|  | AP  | Show Me How video tutorials in 15 AP screens  |
|  | AP  | The Search Vendor Locations window has been enhanced with a Location Remarks field.             |

|   |      |   |
|---|------|---|
|  | AR   | Bi-directional updates with Change Management             |
|  | HRIS | HRIS - Read Only Access to Personal Info                  |
|   | PR   | Variable Standard Deductions                              |
|  | ST   | Enable On Demand Usage in Service Tech License Assignment |
|  | VA   | Power BI Commitments Cost Dashboard, Summary and Detail   |
|  | VA   | Power BI Job Cost Dashboard, Summary and Detail           |

### **SYS Streamlined Enterprise Registration**

Today, registering your Enterprise is a manual process that involves multiple departments here at Viewpoint. We have automated this process which means that new and existing clients will no longer have to wait for the process to complete.

### **SYS New Help System**

Spectrum Help is now available on the Viewpoint Help website. ([help.viewpoint.com](http://help.viewpoint.com))

Viewpoint Help is a new help website that gives you access to comprehensive product documentation from a single location, with quick links to content for individual applications.

Viewpoint Help includes content not just for Spectrum, but for other products in a single website. Here are the benefits you will see:

- A single point of entry for Help content: [help.viewpoint.com](http://help.viewpoint.com)
- Dynamic search capability across Help content for multiple products and versions
- Ease in sharing and socializing Help articles
- Ability to print or create PDFs of individual Help articles or entire sections of content

Visit [Viewpoint Help](http://Viewpoint Help) and click the banner to send us any feedback you have!

🗨️ [Send us your feedback](#) on the new site. We appreciate it.

EXPLORE PRODUCT HELP ▾

Search Spectrum Help



## Spectrum



### **SYS User Type Management**

More tracking was needed for user types. This phase provided more customer tracking tools for user types. This will provide customers information on what areas different user types are visiting and what areas can be visited per user type. The following reports were created:

#### **User Type Analysis Report**

The business need for this report is informational for user type tracking. This information assists with decision making for user types. This report will list the areas accessed by the operator and the number of times the specific areas were accessed. This report will be located in System Administration | Security.

Note: Office user type is not displayed.

ABC Dashboard | ABC Site Map | ABC User Type Analysis Report

SAVED SELECTIONS  
Standard Template  
Save Current

Preview | Export | My Reports

User Type Analysis by user type

Selections

Operator: ALL \*  
From date: 03/01/22  
To date: 03/28/22

User type

- Project management?
- Field?
- Employee kiosk?
- Subcontract kiosk?
- Service tech?

Sort by

- User type
- Operator

Report Selections: Operator: ALL User type: ALL  
From date: 03/01/22  
To date: 03/28/22

**User Type Analysis Report by user type**

| User type            | Operator | Name          | Accessed functionality      | Date     | Times accessed |
|----------------------|----------|---------------|-----------------------------|----------|----------------|
| Employee Kiosk       | GTF      | Geoffrey Falk | AP A/P Transaction Register | 03/21/22 | 1              |
|                      |          |               | AP Cost Centers             | 03/28/22 | 2              |
|                      |          |               | AP Cost Centers             | 03/07/22 | 1              |
|                      |          |               | AP Defaults                 | 03/07/22 | 1              |
|                      |          |               | AP Document Tracking        | 03/07/22 | 1              |
|                      |          |               | AP Document Tracking Items  | 03/07/22 | 1              |
|                      |          |               | AP Financial Summary        | 03/28/22 | 1              |
|                      |          |               | AP Financial Summary        | 03/07/22 | 1              |
|                      |          |               | AP Images                   | 03/07/22 | 1              |
|                      |          |               | AP Invoice Approval         | 03/28/22 | 1              |
|                      |          |               | AP Main Properties          | 03/28/22 | 1              |
|                      |          |               | AP Main Properties          | 03/07/22 | 1              |
|                      |          |               | AP Open Items               | 03/28/22 | 1              |
|                      |          |               | AP Open Items               | 03/07/22 | 2              |
|                      |          |               | AP Payment History          | 03/28/22 | 1              |
|                      |          |               | AP Payment Processing       | 03/28/22 | 3              |
|                      |          |               | AP Payment Processing       | 03/21/22 | 1              |
| AP Payment Selection | 03/28/22 | 1             |                             |          |                |

## Access by User Type Listing

The business need for this report is to establish the spectrum functions used by the different user types. This works in conjunction with the User Type Analysis Report in determining if a user has accessed functions outside of their user type. This report lists the reports and functions allowed for the various user types in Spectrum. This report will be located in System Administration | Security.

| Report Selections                  |   |
|------------------------------------|---|
| User Type: ALL                     |   |
| <b>Access by User Type Listing</b> |   |
| User type                          | Included functionality  |
| <b>Employee Kiosk</b>              | EK My Earnings Statement<br>EK My Time Entry  |
| <b>Field</b>                       | AP Invoice Approval<br>EK My Earnings Statement<br>EK My Time Entry<br>IC Job Requisitions<br>JC Quantity Complete<br>PO Packing List Quantity Entry<br>PO Purchase Order Entry |
| <b>Project Manager</b>             | AP Defaults<br>AP Document Tracking<br>AP Financial Summary<br>AP Financial Summary<br>AP Images<br>AP Invoice Approval<br>AP Main Properties                                   |

## SYS SSO Enhancement / Trimble ID Integration

As part of our integration with Trimble Construction One, Single Sign On (SSO) now uses the Trimble platform to log onto Spectrum. Instead of logging on using your Spectrum credentials,

you will log on using your Trimble ID. Not only does this get you into Spectrum, but in the future, it will also log you into other Trimble products.

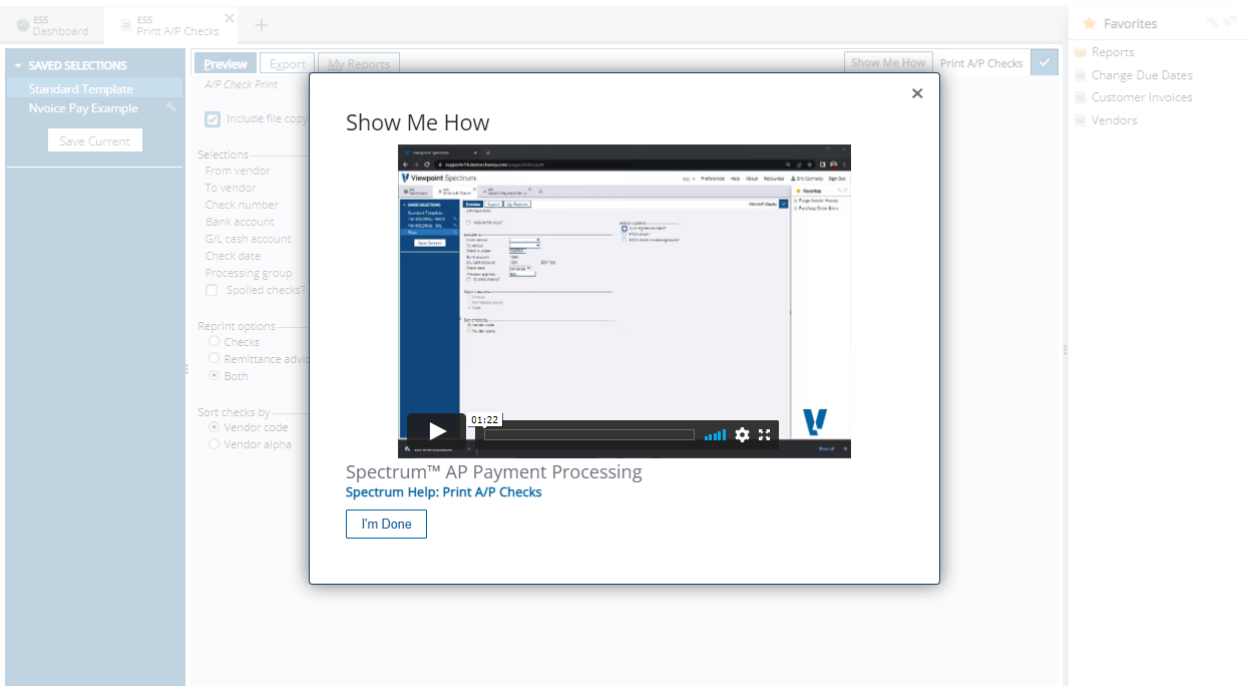
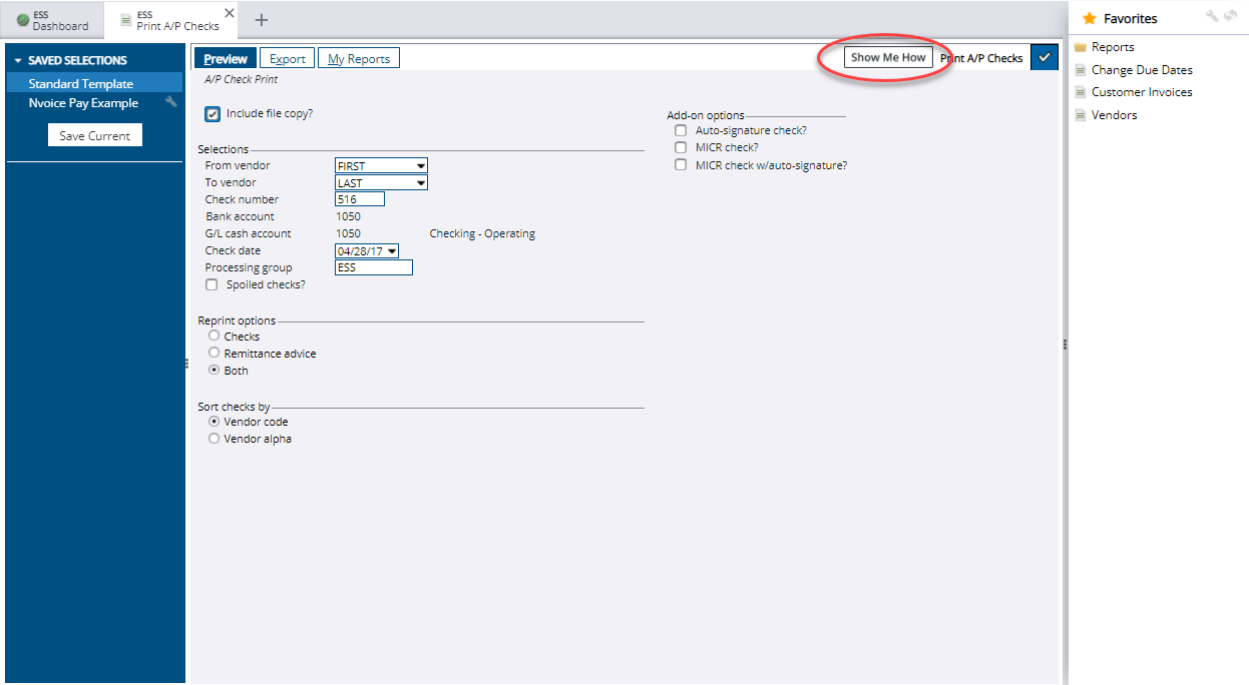


### **SYS - Audit log - Search Windows for Table Name and Columns Name were modified to improve Performance**

- For Table name, the search window now lists all tables that may be audited instead of only the ones with audit records. The search window name has been changed from Search Tables with Audit Records to Search Auditable Tables.
- For Column name, the search window now lists all columns that may be audited instead of only the ones with audit records. The search window name has been changed from Search Columns with Audit Records to Search Auditable Columns.

### **AP Show Me How**

In selected screens we have added a new embedded video tutorial feature. Click on the “Show Me How” button for a brief video about these specific screens, covering the process or workflow. Aimed at new users, the first workflow we have added this feature to is AP Payment Processing.



With all the issues with employee turnover and needing users to get up to speed quickly, “Show me how” aims to provide Spectrum screen level video help that users can watch for common functions. This will give users another tool for learning Spectrum.

Show Me How videos will available in these areas on 2022 R1 release date:

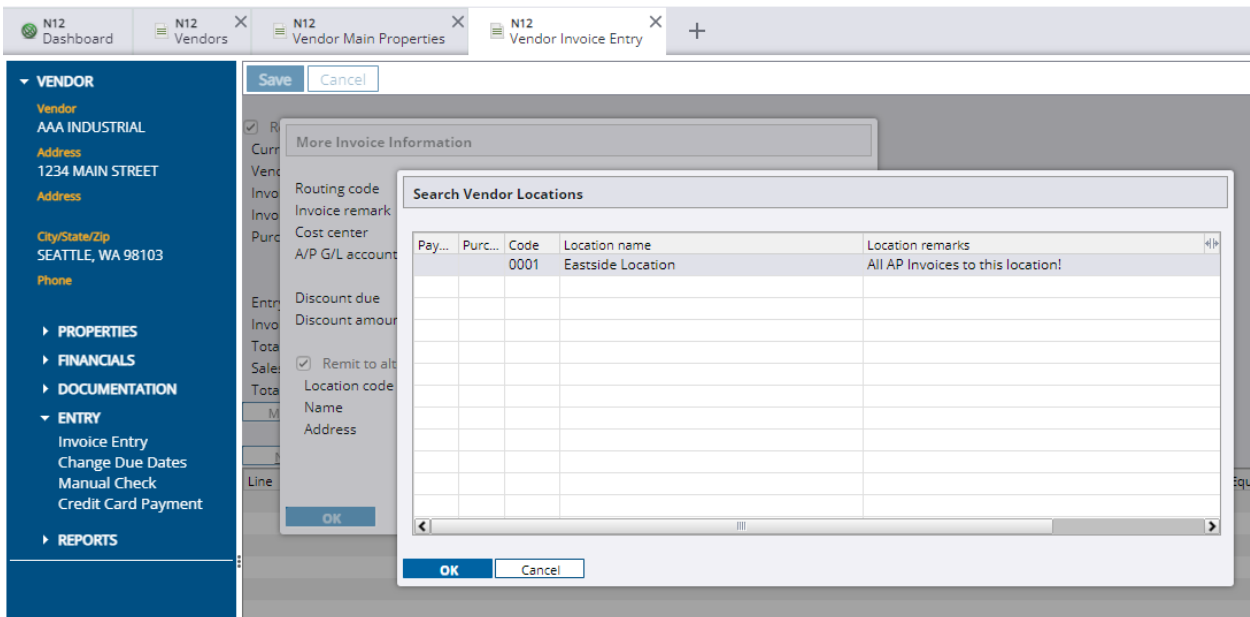
- Accounts Payable
  - AP Payment Processing
    - Overview
    - Payment Selection
    - Alternate Payees
    - Sub Billing Register
    - Prepayment Register
    - Generate ePayments
    - Print Checks
    - Electronic (ACH) Payment
    - Update
  - New Vendor
  - Invoice Holds
  - Invoice Approval
  - Recurring Invoices
  - Change Vendor Codes
  - Vendor Payment Setup

Additional Show Me How content will be added regularly between Spectrum releases.

#### **AP Search Vendor Locations Window Enhanced**

The Search Vendor Locations window has been enhanced with a Location Remarks field. Use this field to determine why one vendor location was selected over another when doing invoice entry. Location Remarks prefill from the Remarks field on the Vendor Locations screen.





### AR Write Back to Change Management

Create Potential Change Orders for Spectrum - For Spectrum enterprises integrated with Team, Enterprise Admins and Project Managers can now create Potential Change Orders. When ready, the Potential Change Order can be transferred to Spectrum. At that point all editing of the change request happens in Spectrum and will be written back to Change Management.

**One system** – Operations and accounting create, maintain and track PCOs in a unified system of record.

**Eliminate double entry** – Project Managers can build a PCO with billing, phase, cost, mark-up and add-on data, direct from Spectrum.

**Gain visibility** - Enable permissioned field and accounting team members to see items and costs on a PCO, in real-time.

**Provide context** - Link PCOs to RFIs so teams have context as to why the change order was created.

Viewpoint Team™ Projects > N12-ABC - ABC

Dashboard Submittals RFIs Change Requests Daily Logs Documents Drawings Forms Project Financials Spectrum PM Contacts

Potential Change Orders

| NUMBER | TYPE | SUBJECT                      | DESCRIPTION | ORIGINATION DATE | STATUS | ROM (\$) | CONTRACT CHANGE (\$) |
|--------|------|------------------------------|-------------|------------------|--------|----------|----------------------|
| 1003   |      | Spectrum Change Request 1003 |             | 3/10/22          | E      | \$0.00   | \$1.00               |
| 1002   |      | Spectrum Change Request 1002 |             | 3/11/22          | E      | \$0.00   | \$0.00               |
| 1001   |      | Spectrum Change Request 1001 |             | 3/11/22          | E      | \$0.00   | \$0.00               |

Viewpoint Team™ Projects > N12-ABC - ABC Nate Chapman

Dashboard Submittals RFIs Change Requests Daily Logs Documents Drawings Forms Project Financials Spectrum PM Contacts

← BACK TO PCO LOG OPEN IN SPECTRUM Last updated 3/29/22 at 9:13 AM

Title: Spectrum Change Request 1003  
Origination Date: 3/10/22

Contract: Customer Code: BILLGAT Job Number: ABC  
Type: Type  
Number: 1003

Description: Priority: ROM \$0.00  
Status: E - Executed

TOTALS

|                              |             |
|------------------------------|-------------|
| Costs                        | 0.00        |
| Markups                      | 0.00        |
| Add-ons                      | 0.00        |
| Subtotal                     | 0.00        |
| Fee (0.00%)                  | 0.00        |
| <b>Total</b>                 | <b>0.00</b> |
| Adjustment                   | 1.00        |
| <b>Contract Change Total</b> | <b>1.00</b> |

PCO ITEMS Expand All Collapse All

000 - E - Executed

| Contract Billing Item             | Schedule Impact | Contract Change Amount (Fixed Amount) |
|-----------------------------------|-----------------|---------------------------------------|
| Quantity: 0 UM Unit Price: \$0.00 | 0 days          | \$0.00                                |
| Calculated Amount                 |                 | \$0.00                                |

^ COSTS Cost Total \$0.00

| PHASE                         | COST TYPE | UM | QUANTITY | COST/UNIT (\$) | COST/HOUR (\$) | ESTIMATE (\$) | SL/PO |
|-------------------------------|-----------|----|----------|----------------|----------------|---------------|-------|
| ^ MARKUPS Markup Total \$0.00 |           |    |          |                |                |               |       |

## HRIS - Read Only Access to Personal Information

Employees are empowered to view their personal information including contact info and direct deposit. Employees can also view and download pay statements and tax statements. All of this is done right on their phone or web based device.

Viewpoint HR Management™

Employee Management

D22 - 5Qr883KsFJ

Search by name

Filters

- Cost Center
- Craft Class
- Craft Master
- Payroll Department

| Name           | Title              | Department | Location | Mobile         |
|----------------|--------------------|------------|----------|----------------|
| Bugs Bunny     | ELECTRICIAN        | 11         |          | (203) 222-4444 |
| Bugs Bunny     | ELECTRICIAN        | 11         |          | (20) 322-5555  |
| Homer Simpson  |                    | 774        |          | (000) 000-0000 |
| Margie Simpson | CARPENTER          | 1357       |          | (206) 365-8000 |
| Margie Simpson | CARPENTER          | 1357       |          | (206) 365-8000 |
| MNO MNO        | THIS IS A TEST JOB | 1357       |          | (425) 789-6541 |
| MNO MNO        | THIS IS A TEST JOB | 1357       |          | (42) 578-9875  |

Type here to search 3:06 PM 4/5/2022

**Focus on People, Not Paperwork** - Use smart technology with Self-Service to better manage your employee data. Save HR/ Payroll Departments valuable time.

**Always be Audit Ready** - Your records are only as accurate as the inputs you have, reduce errors retyping critical sensitive employee data into Spectrum.

## **PR Variable Standard Deductions**

### **Variable Standard Deductions in Payroll Calculations**

**Overview:** Several states have recently moved to using a variable standard deduction amount for income tax withholding calculations, where the full amount of the standard deduction begins phasing out at a certain income level, and ultimately is either reduced to zero or a minimum amount at a higher income level.

Spectrum's payroll calculations have been updated to support this variable standard deduction concept.

**NOTE: Most customers will not need to make any changes besides loading the VPX (The VPX is automatic for hosted customers) with the updated programming and updating to the latest tax tables (PRTAXTABLE-2022-06 or later), the updated programming and latest tax table import file will enable this functionality automatically.**

### **Tax Adjustments Maintenance**

We have utilized the Tax Adjustments table to accommodate the variable standard deduction. In the Tax Adjustment Code Maintenance screen we have added a new adjustment type: Standard Deduction. We have created new Tax Adjustment Codes for each state & filing status with the necessary data to calculate the variable deduction. The naming convention of these codes is:

[State abbreviation]\_VAR\_[Filing status]

For example, the variable deduction code for the Wisconsin married filing status is WI\_VAR\_M.

**Edit Tax Adjustment Code**

Adjustment code WI-VAR-M

Table lookup basis  Gross earnings  Income tax

Graduated table?

Percentage applied to  Gross earnings  Income tax

Adjustment type  Increase withholding  Decrease withholding

**Standard deduction**

Tax table

| Starting from        | Annualized tax brackets |                | Annualized tax adjustment amount |           | of excess over | Maximum adjustmen |
|----------------------|-------------------------|----------------|----------------------------------|-----------|----------------|-------------------|
|                      | but not over            | Fixed amount + | Percentage                       | Amount    |                |                   |
| 0.00                 | 25,727.00               |                |                                  | 0.00      | 0.00           | 9,461.00          |
| 25,727.00            | 26,727.00               |                |                                  | 25,727.00 |                | 9,361.00          |
| 26,727.00            | 27,727.00               |                |                                  | 26,727.00 |                | 9,161.00          |
| 27,727.00            | 28,727.00               |                |                                  | 27,727.00 |                | 8,961.00          |
| 28,727.00            | 29,727.00               |                |                                  | 28,727.00 |                | 8,761.00          |
| 29,727.00            | 30,727.00               |                |                                  | 29,727.00 |                | 8,561.00          |
| 30,727.00            | 31,727.00               |                |                                  | 30,727.00 |                | 8,361.00          |
| 31,727.00            | 32,727.00               |                |                                  | 31,727.00 |                | 8,161.00          |
| 32,727.00            | 33,727.00               |                |                                  | 32,727.00 |                | 7,961.00          |
| 33,727.00            | 34,727.00               |                |                                  | 33,727.00 |                | 7,761.00          |
| 34,727.00            | 35,727.00               |                |                                  | 34,727.00 |                | 7,561.00          |
| 35,727.00            | 36,727.00               |                |                                  | 35,727.00 |                | 7,361.00          |
| 36,727.00            | 37,727.00               |                |                                  | 36,727.00 |                | 7,161.00          |
| 37,727.00            | 38,727.00               |                |                                  | 37,727.00 |                | 6,961.00          |
| 38,727.00            | 39,727.00               |                |                                  | 38,727.00 |                | 6,761.00          |
| 39,727.00            | 40,727.00               |                |                                  | 39,727.00 |                | 6,561.00          |
| Tax Brackets 17 - 50 |                         |                |                                  |           |                |                   |

### Tax Table Maintenance screen

Two new options for standard deductions have been added to the Standard Deduction tab in the filing status screen.

Variable amount before calculation

Variable amount after calculation

At this time all of the states using a variable standard deduction are using a variable amount before calculation.

**Edit Income Tax Details - All Companies**

Tax table: WI Wisconsin  
 Filing status: SINGLE

CAUTION - All settings in this window are shared among ALL Spectrum companies

Properties | Std Deduction: Yes | Tax Credit: None | Exemption: Yes | Other Taxes: None | Employees

Standard deductions—

- None
- Amount before calculation
- Amount after calculation
- Percent before calculation
- Percent after calculation
- Variable before calculation
- Variable after calculation

Variable deduction code: WI-VAR-S WI Variable Std Ded Single

OK Cancel

When one of the variable options is selected, a drop down box is available to select a standard deduction code from the tax adjustments table - only codes that are designated as a Standard Deduction type are displayed to select from.

**Search Standard Deduction Codes**

| Adjustment code | Description                  |
|-----------------|------------------------------|
| AL-VAR-HOH      | AL Var Std Ded Head of Hsld  |
| AL-VAR-MJ       | AL Var Std Ded Married Joint |
| AL-VAR-MS       | AL Var Std Ded Married Sep   |
| AL-VAR-S        | AL Variable Std Ded Single   |
| ME-VAR-M        | ME Variable Std Ded Married  |
| ME-VAR-S        | ME Variable Std Ded Single   |
| WI-VAR-M        | WI Variable Std Ded Married  |
| WI-VAR-S        | WI Variable Std Ded Single   |
|                 |                              |
|                 |                              |
|                 |                              |
|                 |                              |

CAUTION - All settings in this window are shared among ALL Spectrum companies

Other Taxes: None | Employees

Variable deduction code: WI-VAR-M WI Variable Std Ded Married

OK Cancel

The payroll calculation will find the employee's annualized earnings in the adjustment table and utilize the appropriate deduction amount.

## ST Enable On Demand Usage in Service Tech License Assignment

This adds the ability in Spectrum for on demand licensing for Service tech. This removed the maximum user limiter. This means that all systems can have additional users logged into Service Tech for an additional charge.

There may be times when you need additional Service Users, but you do not need them all the time. This is where On Demand Usage comes in!

The image displays two screenshots of the Viewpoint Spectrum Service Tech License Manager interface. The top screenshot shows a system with 50 total Service Tech licenses, 49 currently assigned, and 1 available. The bottom screenshot shows a system with 100 total Service Tech licenses and 30 currently assigned. A red arrow points to the 'Create Tech Logons' button in the bottom screenshot.

| Employee code | Employee name | Logon ID | Currently licensed? | Tech status | Company co... | Mobile Ready? |
|---------------|---------------|----------|---------------------|-------------|---------------|---------------|
|               |               |          |                     |             |               |               |

## VA - Power BI Commitments Cost Dashboard, Summary and Detail

The Commitments dashboard provides summary and detailed information about committed costs for your projects. For Spectrum, commitments are also organized by job cost center, project manager, and master job.

### Dashboard Tab

The Dashboard tab provides a variety of graphs. graphs include the percentage complete of your commitments, total ordered and received by Job, Phase, and Vendor, materials ordered and received by Job, and subcontract amount and billed by Job.

Commitments

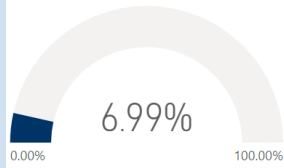
Dashboard

Summary

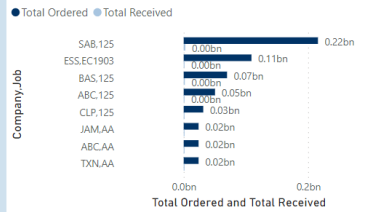
Detail

Company: All | Job: All | Job Cost Center: All | Job Status: All | Project Manager: All | Master Job: All

Commitments Percent Complete



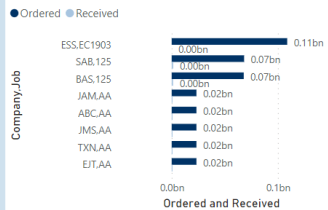
Total Ordered and Received by Job



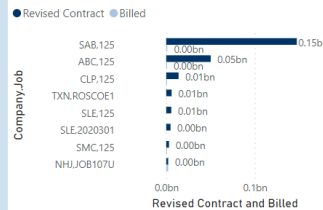
Total Ordered and Received by Phase



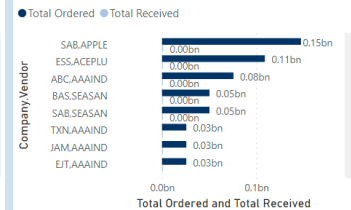
Materials Ordered and Received by Job



Subcontract Amount and Billed by Job



Total Ordered and Received by Vendor



### Summary Tab

The summary tab provides a quick way to view the status of your project commitments organized by vendor. From the summary tab, you can select a vendor, right-click and select Drill-through to view details for that specific vendor.

| Commitments Dashboard               |        |  |            |              |        |                    |                      |
|-------------------------------------|--------|--|------------|--------------|--------|--------------------|----------------------|
| Dashboard                           |        | Summary  |            | Detail       |        |                    |                      |
| JC Company - Name                   |        | Job - Description  |            | Job Status   |        | Vendor - Name      |                      |
| All                                 |        | All  |            | All          |        | All                |                      |
| <a href="#">← Back to Dashboard</a> |        |  |            |              |        |                    |                      |
| JC Co                               | Job    | Job Description  | Job Status | Vendor Group | Vendor | Vendor Name        | Original Cost        |
| 1                                   | 0-1    | testing this description - Twice. Thrice. Zed. Quatro. Cinco | 1-Open     | 1            | 1      | Bobby Maclans..... | 2,80                 |
| 1                                   | 1-     | Albertson's Grocery Store #1                                 | 1-Open     | 1            | 1      | Bobby Maclans..... | 2,401,011,72         |
| 1                                   | 1-1    | Furniture City remodel                                       | 1-Open     | 1            | 1      | Bobby Maclans..... | 95,60                |
| 1                                   | 1-2    | LBV Building   | 1-Open     | 1            | 1      | Bobby Maclans..... | 21                   |
| 1                                   | 1-3    | Test Job 1 - 3 Contract 1-3                                  | 1-Open     | 1            | 1      | Bobby Maclans..... | 1,75                 |
| 1                                   | 1-5    | New Test   | 1-Open     | 1            | 1      | Bobby Maclans..... | 5,88                 |
| 1                                   | 1-10   | testing  | 1-Open     | 1            | 1      | Bobby Maclans..... | 6,30                 |
| 1                                   | 1-23   | Ford - Generic Test  | 1-Open     | 1            | 1      | Bobby Maclans..... | 4,00                 |
| 1                                   | 2-     | Test SL Setup & Compliance                                   | 1-Open     | 1            | 1      | Bobby Maclans..... | 1                    |
| 1                                   | 2-1    | Testing again  | 1-Open     | 1            | 1      | Bobby Maclans..... | 2,35                 |
| 1                                   | 10-    | Julie's Test Job   | 1-Open     | 1            | 1      | Bobby Maclans..... | €                    |
| 1                                   | 80-    | McDonald's - 172nd Street                                    | 1-Open     | 1            | 1      | Bobby Maclans..... | 9,999,999,00         |
| 1                                   | 100-   | 2nd Avenue School  | 1-Open     | 1            | 1      | Bobby Maclans..... | 10,25                |
| 1                                   | 1000-  | First Avenue Elementary School                               | 1-Open     | 1            | 1      | Bobby Maclans..... | 21,31                |
| 1                                   | 7979-  |  | 1-Open     | 1            | 1      | Bobby Maclans..... | 240,62               |
| 1                                   | 11001- | Deb's Test Job - 11/00                                       | 1-Open     | 1            | 1      | Bobby Maclans..... | 20,00                |
| 1                                   | 30251- |  | 1-Open     | 1            | 1      | Bobby Maclans..... | 50,00                |
| 1                                   | 1-     | Albertson's Grocery Store #1                                 | 1-Open     | 2            | 1      | Vendor One Company | 2,50                 |
| <b>Total</b>                        |        |  |            |              |        |                    | <b>64,417,962,22</b> |

## Detail Tab

The Detail tab provides a detailed view of your project commitments, as well as comprehensive filtering options.

Note that using the Drill-through option from the Detail tab opens the Summary view for the selected item.

| Commitments Dashboard             |       |                                |            |                 |              |                 |                    |               |              |                     |                         |
|-----------------------------------|-------|--------------------------------|------------|-----------------|--------------|-----------------|--------------------|---------------|--------------|---------------------|-------------------------|
| Dashboard                         |       | Summary                        |            | Detail          |              |                 |                    |               |              |                     |                         |
| JC Company - Name                 |       | Job - Description              |            | Job Status      |              | Commitment Type |                    | Vendor - Name |              | Phase - Description | Cost Type - Description |
| All                               |       | All                            |            | All             |              | All             |                    | All           |              | All                 | All                     |
| <a href="#">← Back to Summary</a> |       |                                |            |                 |              |                 |                    |               |              |                     |                         |
| JC Co                             | Job   | Job Description                | Job Status | Commitment Type | Vendor Group | Vendor          | Vendor Name        | Company       | PO SL        | Item                | Description             |
| 1                                 | 1-    | Albertson's Grocery Store #1   | 1-Open     | Purchase Order  | 1            | 1               | Bobby Maclans..... | 1             | 07522        | 1                   | 223001 Desc             |
| 1                                 | 10-   | Julie's Test Job               | 1-Open     | Purchase Order  | 1            | 1               | Bobby Maclans..... | 1             | 1            | 1                   | concrete                |
| 1                                 | 1-1   | Furniture City remodel         | 1-Open     | Purchase Order  | 1            | 1               | Bobby Maclans..... | 1             | 1-100000     | 1                   | Motor Oil - 10-40 wt    |
| 1                                 | 1-1   | Furniture City remodel         | 1-Open     | Purchase Order  | 1            | 1               | Bobby Maclans..... | 1             | 1-1000000    | 1                   | Case of Soda Pop        |
| 1                                 | 1-1   | Furniture City remodel         | 1-Open     | Purchase Order  | 1            | 1               | Bobby Maclans..... | 1             | 1-1000000    | 2                   | FILL SAND               |
| 1                                 | 1-1   | Furniture City remodel         | 1-Open     | Purchase Order  | 1            | 1               | Bobby Maclans..... | 1             | 1-10000000   | 1                   | Football                |
| 1                                 | 1-1   | Furniture City remodel         | 1-Open     | Purchase Order  | 1            | 1               | Bobby Maclans..... | 1             | 1-10000000   | 2                   | Galena                  |
| 1                                 | 1-1   | Furniture City remodel         | 1-Open     | Purchase Order  | 1            | 1               | Bobby Maclans..... | 1             | 1-1004       | 1                   | Motor Oil - 10-40 wt    |
| 1                                 | 1-    | Albertson's Grocery Store #1   | 1-Open     | Purchase Order  | 1            | 1               | Bobby Maclans..... | 17            | 1-0000000001 | 11                  |                         |
| 1                                 | 1000- | First Avenue Elementary School | 1-Open     | Purchase Order  | 1            | 1               | Bobby Maclans..... | 1             | 100200       | 1                   | testing po again        |
| 1                                 | 1000- | First Avenue Elementary School | 1-Open     | Purchase Order  | 1            | 1               | Bobby Maclans..... | 1             | 100200       | 2                   | CO test                 |
| 1                                 | 1000- | First Avenue Elementary School | 1-Open     | Purchase Order  | 1            | 1               | Bobby Maclans..... | 1             | 10109        | 1                   | Football                |
| <b>Total</b>                      |       |                                |            |                 |              |                 |                    |               |              |                     |                         |

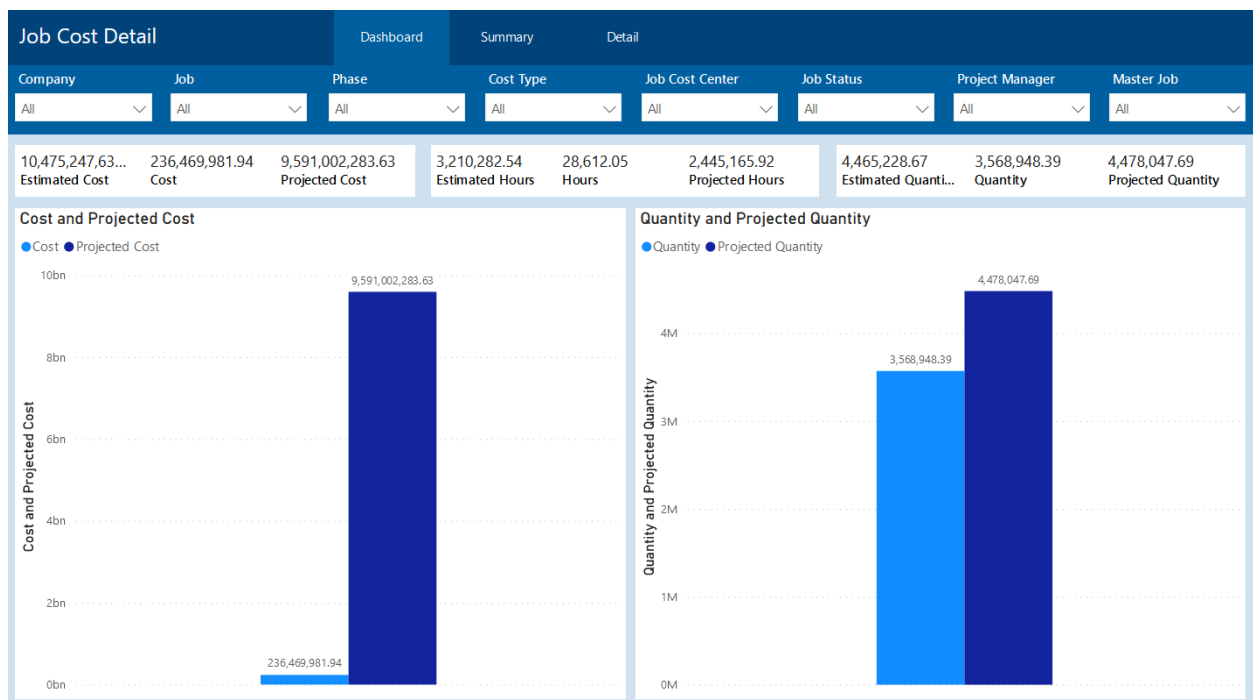


## VA - Power BI Job Cost Dashboard, Summary and Detail

The Job Cost Detail Dashboard provides an overview of job costs for your enterprise and includes options to filter the data by parameters such as cost type or phase.

### Dashboard Tab

The Dashboard tab provides graphs for the Cost and Projected Cost as well as the Quantity and Projected Quantity.



Note that in each tile, you can hover over an item to view the details for that item.

You can filter the dashboard using the parameters in the four drop-down menus shown. Note that you can also display the information as a table by selecting a data point, right-clicking, and selecting Show data point as a table.

### Summary Tab

The summary tab provides a summary of your job costs with all the parameters shown in a table format. From the summary tab, you can select a parameter, right-click, and select Drill through to view details for that parameter.

Viewpoint Analytics

Home Team Reporting Dashboards

Job Cost Detail

Job Cost Detail Dashboard Summary Detail

Company Job Phase Cost Type Job Cost Center Job Status Project Manager Master Job

All All All All All All All All

Back

| Comp         | Job                | Phase                         | Cost Type       | Cost                  | Hours               | Quantity             | Projected Cost        | Projected Hours     | Projected Quantity   | Est                 |  |
|--------------|--------------------|-------------------------------|-----------------|-----------------------|---------------------|----------------------|-----------------------|---------------------|----------------------|---------------------|--|
| 333          | 125 (The Best Job) | 00-1000 (Haul Off Brush)      | 1 (Labor)       | 250.00                | 15.00               | 0.00                 | 50,000.00             | 3,000.00            | 1,000.00             |                     |  |
| 333          | 125 (The Best Job) | 00-1000 (Haul Off Brush)      | 2 (Materials)   | 0.00                  | 0.00                | 0.00                 | 0.00                  | 0.00                | 1,000.00             |                     |  |
| 333          | 125 (The Best Job) | 00-1000 (Haul Off Brush)      | 3 (Subs)        | 500.00                | 0.00                | 0.00                 | 500.00                | 0.00                | 1,000.00             |                     |  |
| 333          | 125 (The Best Job) | 00-1000 (Haul Off Brush)      | 4 (Equipment)   | 0.00                  | 0.00                | 0.00                 | 0.00                  | 0.00                | 1,000.00             |                     |  |
| 333          | 125 (The Best Job) | 00-1000 (Haul Off Brush)      | 5 (Other Stuff) | 555.00                | 0.00                | 0.00                 | 555.00                | 0.00                | 1,000.00             |                     |  |
| 333          | 125 (The Best Job) | 00-1000 (Haul Off Brush)      | B (Burden)      | 90,657.06             | 0.00                | 0.00                 | 27,144.13             | 0.00                | 1,000.00             |                     |  |
| 333          | 125 (The Best Job) | 00-1105 (Bedding)             | B (Burden)      | 681.35                | 0.00                | 0.00                 | 0.00                  | 0.00                | 0.00                 |                     |  |
| 333          | 125 (The Best Job) | 00-1107 (Installation)        | B (Burden)      | 57.93                 | 0.00                | 0.00                 | 0.00                  | 0.00                | 0.00                 |                     |  |
| 333          | 125 (The Best Job) | 00-1111 (Additional Work)     | B (Burden)      | 612.11                | 0.00                | 0.00                 | 0.00                  | 0.00                | 0.00                 |                     |  |
| 333          | 125 (The Best Job) | 00-1150 (Build & Maintain)    | B (Burden)      | 57.93                 | 0.00                | 0.00                 | 0.00                  | 0.00                | 0.00                 |                     |  |
| 333          | 125 (The Best Job) | 00-1400 (Cut & Load-Out)      | B (Burden)      | 512.43                | 0.00                | 0.00                 | 0.00                  | 0.00                | 0.00                 |                     |  |
| 333          | 125 (The Best Job) | 00-1405 (Haul & Dump)         | B (Burden)      | 480.77                | 0.00                | 0.00                 | 0.00                  | 0.00                | 0.00                 |                     |  |
| 333          | 125 (The Best Job) | 00-2000 (Mobilization)        | B (Burden)      | 2.44                  | 0.00                | 0.00                 | 2.44                  | 0.00                | 0.00                 |                     |  |
| 333          | 125 (The Best Job) | 00-2299 (Mobile Web Services) | B (Burden)      | 128.30                | 0.00                | 0.00                 | 0.00                  | 0.00                | 0.00                 |                     |  |
| 333          | 125 (The Best Job) | 00-3399 (Wine Making)         | B (Burden)      | 128.30                | 0.00                | 0.00                 | 0.00                  | 0.00                | 0.00                 |                     |  |
| 333          | 125 (The Best Job) | 00-0000 (FOGS)                | E (Equipment)   | 0.00                  | 0.00                | 0.00                 | 0.00                  | 0.00                | 1.00                 |                     |  |
| 333          | 125 (The Best Job) | 00-1000 (Haul Off Brush)      | E (Equipment)   | 18,475.96             | 301.75              | 0.00                 | 15,328.06             | 228.75              | 1,015.00             |                     |  |
| 333          | 125 (The Best Job) | 00-1650 (Cut To Fill)         | E (Equipment)   | 61.45                 | 0.00                | 0.00                 | 61.45                 | 0.00                | 0.00                 |                     |  |
| 333          | 125 (The Best Job) | 02-1035 (RESPEAD TOPSOIL)     | E (Equipment)   | 230.00                | 5.00                | 0.00                 | 230.00                | 5.00                | 20.00                |                     |  |
| <b>Total</b> |                    |                               |                 | <b>618,101,450.02</b> | <b>2,321,071.80</b> | <b>11,119,560.40</b> | <b>920,621,204.57</b> | <b>2,635,276.32</b> | <b>79,841,882.96</b> | <b>1,111,111.11</b> |  |

## Detail Tab

The Detail tab provides a detailed view of your job costs, as well as comprehensive filtering options.

Note that multiple transactions that share the same job, phase, cost type, source, and day are combined on the same row.

Viewpoint Analytics

Home Team Reporting Dashboards

Job Cost Detail

Job Cost Detail Dashboard Summary Detail

Company Job Phase Cost Type Job Cost Center Job Status Project Manager Master Job

All All All All All All All All

Back

| Comp         | Job                | Phase                    | Cost Type     | Source         | Tran Type     | Date     | Description | Cost                  |
|--------------|--------------------|--------------------------|---------------|----------------|---------------|----------|-------------|-----------------------|
| 333          | 125 (The Best Job) | 00-1000 (Haul Off Brush) | 1 (Labor)     | Projected Cost |               | 07/28/14 |             | 0.00                  |
| 333          | 125 (The Best Job) | 00-1000 (Haul Off Brush) | 1 (Labor)     | Projected Cost |               | 10/31/14 |             | 0.00                  |
| 333          | 125 (The Best Job) | 00-1000 (Haul Off Brush) | 1 (Labor)     | Projected Cost |               | 12/31/14 |             | 0.00                  |
| 333          | 125 (The Best Job) | 00-1000 (Haul Off Brush) | 1 (Labor)     | Projected Cost |               | 01/31/15 |             | 0.00                  |
| 333          | 125 (The Best Job) | 00-1000 (Haul Off Brush) | 1 (Labor)     | Projected Cost |               | 05/31/16 |             | 0.00                  |
| 333          | 125 (The Best Job) | 00-1000 (Haul Off Brush) | 1 (Labor)     | Projected Cost |               | 09/07/16 |             | 0.00                  |
| 333          | 125 (The Best Job) | 00-1000 (Haul Off Brush) | 1 (Labor)     | Projected Cost |               | 11/02/16 |             | 0.00                  |
| 333          | 125 (The Best Job) | 00-1000 (Haul Off Brush) | 1 (Labor)     | Cost History   | JC (Job Cost) | 06/10/14 |             | 250.00                |
| 333          | 125 (The Best Job) | 00-1000 (Haul Off Brush) | 2 (Materials) | Projected Cost |               | 07/28/14 |             | 0.00                  |
| 333          | 125 (The Best Job) | 00-1000 (Haul Off Brush) | 2 (Materials) | Projected Cost |               | 10/31/14 |             | 0.00                  |
| 333          | 125 (The Best Job) | 00-1000 (Haul Off Brush) | 2 (Materials) | Projected Cost |               | 12/31/14 |             | 0.00                  |
| 333          | 125 (The Best Job) | 00-1000 (Haul Off Brush) | 2 (Materials) | Projected Cost |               | 01/31/15 |             | 0.00                  |
| 333          | 125 (The Best Job) | 00-1000 (Haul Off Brush) | 2 (Materials) | Projected Cost |               | 11/02/16 |             | 0.00                  |
| 333          | 125 (The Best Job) | 00-1000 (Haul Off Brush) | 3 (Subs)      | Projected Cost |               | 07/28/14 |             | 0.00                  |
| 333          | 125 (The Best Job) | 00-1000 (Haul Off Brush) | 3 (Subs)      | Projected Cost |               | 10/31/14 |             | 0.00                  |
| 333          | 125 (The Best Job) | 00-1000 (Haul Off Brush) | 3 (Subs)      | Projected Cost |               | 12/31/14 |             | 0.00                  |
| 333          | 125 (The Best Job) | 00-1000 (Haul Off Brush) | 3 (Subs)      | Projected Cost |               | 01/31/15 |             | 0.00                  |
| 333          | 125 (The Best Job) | 00-1000 (Haul Off Brush) | 3 (Subs)      | Projected Cost |               | 05/31/16 |             | 0.00                  |
| 333          | 125 (The Best Job) | 00-1000 (Haul Off Brush) | 3 (Subs)      | Projected Cost |               | 09/07/16 |             | 0.00                  |
| <b>Total</b> |                    |                          |               |                |               |          |             | <b>618,101,450.02</b> |