



TransAM

Administrative User

user guide

prepared for

South Florida Regional Transportation Authority (SFRTA)

prepared by

Cambridge Systematics, Inc. &

KMJ Consulting, Inc.

user guide

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Table of Contents

1.0	Welcome!	1
1.1	Initial Log In and Password Reset	1
1.2	Ongoing Site Access	2
2.0	Dashboard	3
2.1	Dashboard Elements	3
2.2	Header Menu and Controls	3
3.0	General Features and Tools	5
3.1	Table Controls	5
3.2	Site Filters	5
3.3	Messages	6
3.4	Activity Line Item (ALI) Filter	7
3.5	Organizations Filter	8
3.6	Search	9
3.7	User and Organization Options	9
3.8	Notifications	11
3.9	Updates, User Guide, and User Guide Videos	12
4.0	Asset Inventory	13
4.1	Add an Asset	13
4.2	Accessing Existing Assets	16
4.3	Editing or Updating Existing Asset Profile Data	17
4.4	Updating Existing Asset Lifecycle Data	18
4.5	Action Events (Disposition and Transfer Review)	19
4.6	Adding or Updating Assets by Bulk Update	21
4.7	Query	24
4.8	Map	26
4.9	Groups	29
5.0	Maintenance	31
5.1	Performance Restrictions	31
6.0	Policies	33
6.1	Asset Replacement/Rehabilitation Policy	34
6.2	TAM Policy	41
7.0	Projects	49

8.0 Project Planning	53
8.1 Project Planner	53
8.2 State of Good Repair (SOGR) Capital Project Analyzer	56
9.0 Funding	57
9.1 Programs	57
10.0 Reports	59
10.1 Inventory Reports.....	59
10.2 Capital Needs Reports.....	60
10.3 System Reports	62
10.4 Planning Reports	63
11.0 Specialized Reports	67
11.1 Asset Fleet Builder.....	67
11.2 NTD Asset Reports	70
12.0 Admin Tools.....	73
12.1 Organizations.....	74
12.2 Users	75
12.3 Notices	76
12.4 Online Users	77
12.5 Audits	78
12.6 Admin Interface.....	79

List of Figures

Figure 1	Password Reset Request Screen.....	1
Figure 2	Set/Reset Password Screen.....	1
Figure 3	Login Screen.....	2
Figure 4	Dashboard Elements	3
Figure 5	Header Menu	3
Figure 6	Sorting Controls	5
Figure 7	Export Button	5
Figure 8	Table Tools	5
Figure 9	Filter Icon	5
Figure 10	User Profile Messages	6
Figure 11	Messages	6
Figure 12	Message Interface	7
Figure 13	ALI Filter	7
Figure 14	ALI Filters.....	7
Figure 15	New ALI Filter	8
Figure 16	Organization Filter	8
Figure 17	Organization Filter Selections.....	9
Figure 18	Search Box	9
Figure 19	User Menu	9
Figure 20	User Menu Dropdown.....	10
Figure 21	Organization Details	10
Figure 22	Profile Details.....	11
Figure 23	Report an Issue	11
Figure 24	Notification Drawer	12
Figure 25	Updates, User Guide, and User Guide Videos.....	12
Figure 26	Asset Inventory Dropdown	13
Figure 27	Adding an Asset.....	14
Figure 28	Select the Organization and Asset Class	15
Figure 29	Adding Asset Required Details.....	15
Figure 30	Add the Asset and Go To The New Record	16
Figure 31	Existing Asset Interface	16
Figure 32	Asset Record: Highlights	17
Figure 33	Asset Record: Profile and Summary	17
Figure 34	Editing the Profile of an Existing Asset.....	18
Figure 35	Updating the Lifecycle of an Existing Asset	19

Figure 36	Asset Action Events (Disposition and Transfer)	20
Figure 37	Early Disposition/Transfer Requests	20
Figure 38	Bulk Updates	21
Figure 39	Bulk Update Tools	21
Figure 40	Bulk Update Details	22
Figure 41	Bulk Update Spreadsheet Download.....	22
Figure 42	Bulk Update Spreadsheet.....	22
Figure 43	Bulk Update Upload.....	23
Figure 44	Bulk Upload Processing	23
Figure 45	Bulk Update Edit.....	24
Figure 46	Asset Query	24
Figure 47	Query Details	25
Figure 48	Saved Queries	25
Figure 49	Asset Map.....	26
Figure 50	Map Customization.....	27
Figure 51	Map Layers	27
Figure 52	Map Filter	28
Figure 53	Map Asset Details.....	28
Figure 54	Asset Groups	29
Figure 55	Adding an Asset to a Group	29
Figure 56	Asset Inventory Dropdown : Infrastructure - Track.....	31
Figure 57	Existing Asset Interface : Infrastructure - Track	31
Figure 58	Lifecycle Action Menu.....	32
Figure 59	Performance Restriction Lifecycle Event.....	32
Figure 60	Maintenance Dropdown.....	33
Figure 61	Performance Restriction Management.....	33
Figure 62	Policies Dropdown	34
Figure 63	Policy Rule Sets.....	34
Figure 64	Asset Replacement/Rehabilitation Policy Filters	35
Figure 65	Policy Rules	35
Figure 66	Policy Rules Actions Dropdown.....	35
Figure 67	Export rules to Excel (Windows dialog box)	36
Figure 68	Modify (Update) Organization Policy Dialog.....	36
Figure 69	Copy Organization Policy Dialog	37
Figure 70	Asset Types	37
Figure 71	Additional Assets Dropdown Icon.....	37
Figure 72	Asset Type Rules.....	38

Figure 73	Add an Asset Type Rule Dialog Box	38
Figure 74	Edit Icon.....	38
Figure 75	Modify Asset Policy Rule	39
Figure 76	Asset Type and Asset Subtype rules.....	39
Figure 77	Add an Asset Subtype Rule Icon.....	39
Figure 78	Add an Asset Subtype Rule Dialog	40
Figure 79	Modify Asset Subtype Rule	40
Figure 80	Remove Asset Subtype Rule.....	40
Figure 81	TAM Policy Group Management	41
Figure 82	TAM Policy Year	41
Figure 83	Add New TAM Policy Year	42
Figure 84	Group Management Period and Year.....	42
Figure 85	Add Group Button	42
Figure 86	Add TAM Group Dialog	43
Figure 87	TAM Group Mangement Status.....	43
Figure 88	TAM Policy Group Metrics.....	44
Figure 89	Editable and Locked Assets	44
Figure 90	Asset Type Percentage Settings	44
Figure 91	Distribute TAM Policy	45
Figure 92	Distributed TAM Policy	45
Figure 93	TAM Policy Performance Measures	46
Figure 94	Policy Year Filters.....	46
Figure 95	Asset Type Percentage Settings	46
Figure 96	Activate Perfomance Measures.....	47
Figure 98	Capital Projects Table.....	49
Figure 99	New Capital Project	50
Figure 100	Capital Project Details	50
Figure 101	Add an ALI	51
Figure 102	Add an ALI Details	51
Figure 103	Project Planner Interface	53
Figure 104	Edit Manually Created Capital Projects	54
Figure 105	Edit SOGR Capital Projects.....	55
Figure 106	Prioritize Projects <i>Move ALIs to Different Years</i>	55
Figure 107	Running SOGR Capital Project Analyzer	56
Figure 108	SOGR Capital Project Analyzer Processing.....	56
Figure 115	Programs	57
Figure 116	Funding Program Details.....	58

Figure 132	Reports Dropdown.....	59
Figure 133	Report Exports.....	59
Figure 134	Asset Age Report.....	59
Figure 135	Asset Funding Source Report	60
Figure 136	Unconstrained Capital Projects Report	61
Figure 137	Need versus Funding Statewide Report.....	61
Figure 138	ALI Funding Report.....	61
Figure 139	Capital Plan Report.....	62
Figure 140	Bond Request Report.....	62
Figure 141	User Login Report.....	62
Figure 142	Issues Report.....	63
Figure 143	Vehicle Replacement Report.....	63
Figure 144	State of Good Repair Report.....	64
Figure 145	Disposition Report	64
Figure 146	Asset Service Life Summary Report.....	64
Figure 147	TAM Service Life Summary Report.....	65
Figure 148	Asset Fleet Builder.....	67
Figure 149	Asset Fleet Builder—Orphaned Assets	68
Figure 150	Adding an Orphaned Asset to a Fleet	68
Figure 151	Adding a New Fleet	69
Figure 152	Update Asset Fleet Details	69
Figure 153	Update Odometer Readings.....	69
Figure 154	Remove or Add Assets from within a Fleet	70
Figure 155	Access NTD Reports	70
Figure 156	Table of Previously Generated NTD Reports.....	71
Figure 157	Create New Reporting Year Forms	71
Figure 158	NTD Report Details and Data.....	72
Figure 159	Download each NTD Form	72
Figure 160	Admin User and Organization Options	73
Figure 161	Organizations.....	73
Figure 162	Admin User Options.....	74
Figure 163	Admin Organizations	74
Figure 164	Add an Organization.....	75
Figure 165	Admin Users	75
Figure 166	Add a User.....	76
Figure 167	Notices.....	76
Figure 168	Add a Notice	77

Figure 169	Notice on the Dashboard.....	77
Figure 170	Active Users.....	78
Figure 171	Admin Audits Page	78
Figure 172	Admin Audits Details Page	79
Figure 173	Admin Interface.....	79

1.0 Welcome!

TransAM is an asset management system designed to support the needs of transit agencies. The system manages assets of all types, including revenue vehicles, equipment, facilities, and infrastructure. The system stores crucial information about every asset category and maintains a complete history of the asset as it ages, including; changes in condition, usage, value/depreciation, and other lifecycle events are, that are recorded and can be reviewed at any time. A variety of reports can be generated on asset condition, value, and capital replacement needs.

TransAM is an open-source asset management platform developed by Cambridge Systematics. TransAM focuses on transit assets and project planning, and is designed to make it easier for State DOTs, Planning Agencies, and Transit Agencies to share and exchange information related to assets, projects, and funding.

1.1 Initial Log In and Password Reset

If this is your first time logging in, you should receive an email following the creation of your user account, with a link instructing you to reset your password. Click the link in the email and you will be directed to enter your email address in order to reset your password; enter your email address and click the “Send me reset password instructions” button. If you are an existing user and you forgot your password, you will be taken to the same screen by clicking on the “Forgot Your Password” link on the login page.

Figure 1 Password Reset Request Screen

The email address you enter, must match the email address entered when your account was established

Once you receive your “Reset Password Instructions” email, click on the “Change my password” link within the email, you will be redirected to the system site in your web browser, and you will be prompted to enter your new password twice. Once you enter your password twice, if it meets the password requirements, you will be automatically logged in.

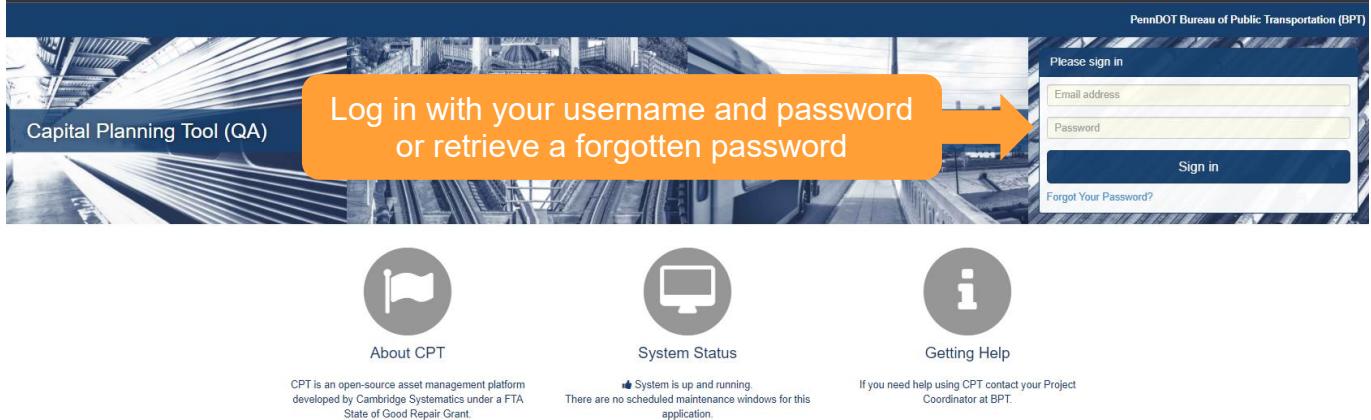
Figure 2 Set/Reset Password Screen

1.2 Ongoing Site Access

The system can be accessed via the following URL: <https://transam-sfrta.camsys-apps.com>

Ongoing access can be obtained by bookmarking the site URL in your web browser and clicking on the link, upon which you'll be greeted with a login screen. Enter your credentials in the appropriate fields to login. You also can request a password reset by pressing the "Forgot Your Password?" button.

Figure 3 Login Screen



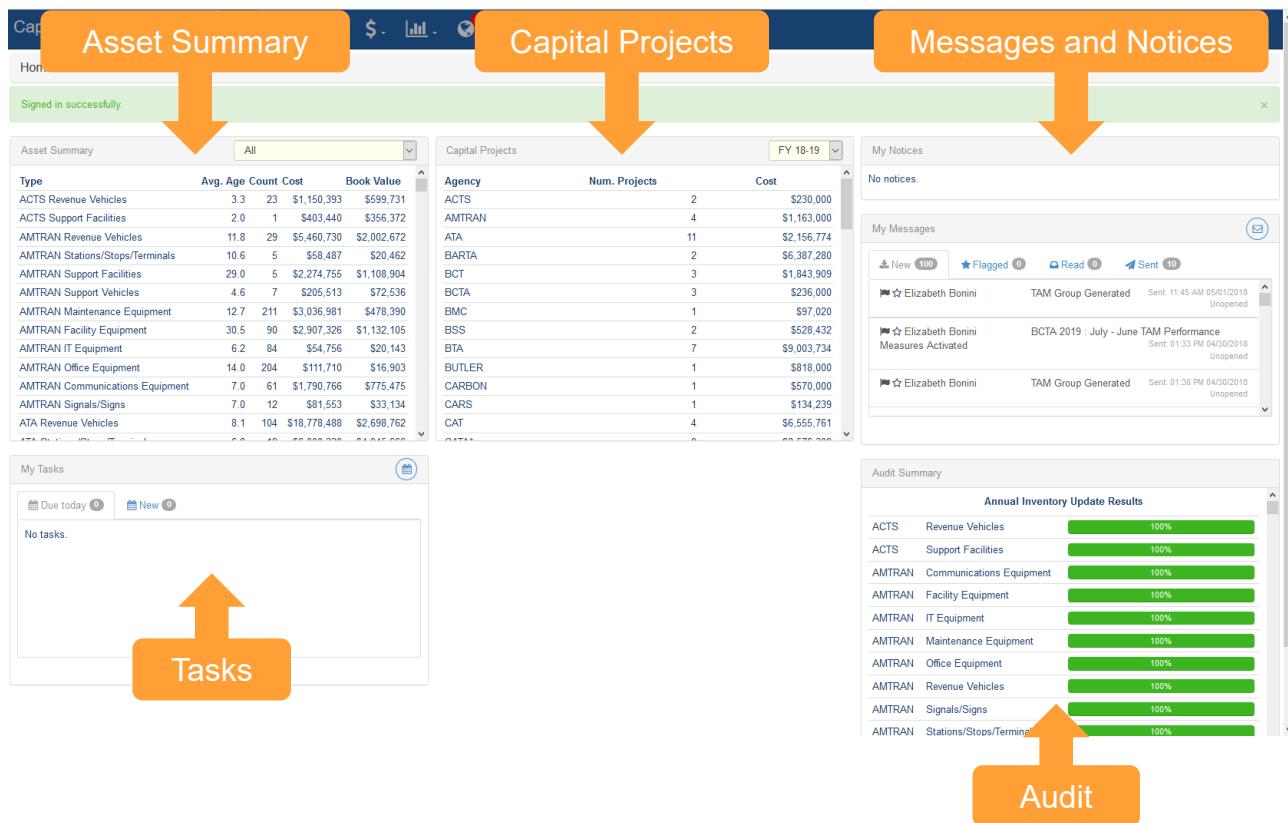
2.0 Dashboard

2.1 Dashboard Elements

Once you're logged in, your first experience will be the dashboard. The dashboard has a variety of elements.

The dashboard widgets highlighted below are: Asset Summary, Capital Projects, My Notices, My Messages, My Tasks, and Audit Summary. These provide a quick glance at the contents within the system.

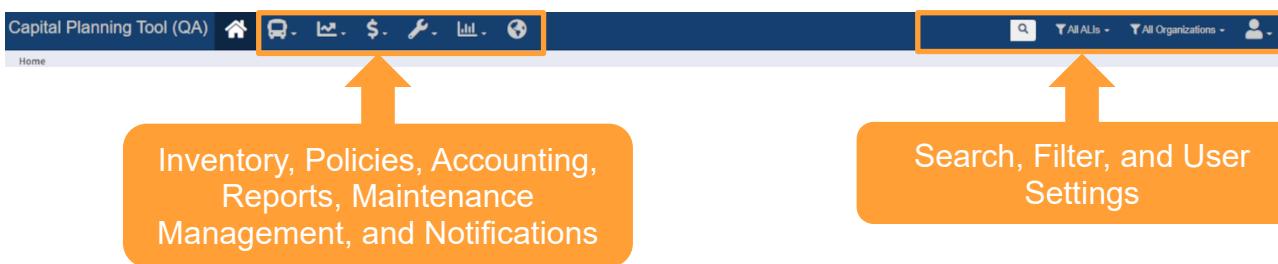
Figure 4 Dashboard Elements



2.2 Header Menu and Controls

The menu icons at the top guide you to the deeper content pages within the system: Inventory, Policies, Accounting, Reports, Maintenance Management, and Notifications. There also are controls to search, filter Activity Line Items (ALI) or organizations, and user settings.

Figure 5 Header Menu



3.0 General Features and Tools

As you progress through the system, there are some common interface elements that you'll encounter often.

3.1 Table Controls

There are lots of tables inside the system. The tables have common control tools that allow you to manipulate the table contents and export the table.

On header elements, you'll notice two arrows to the right of each column. These controls sort the table ascending or descending based on this column.

Figure 6 Sorting Controls



The Export All button to the top right of the table exports all table elements into an Excel table.

Figure 7 Export Button



There also are a set of tools to the top right of the table. The left button either displays the table with pagination (e.g., the table shows only a configurable number of rows per page), or the entire table.

The center button allows the user to show or hide different columns. Check marks next to the column indicate if a column will be shown and allow the user to toggle the column on or off.

The right button exports the current table view (complete with filters and excluding hidden elements) into a.CSV,.TXT, or an.XLSX (Excel) file format.

Figure 8 Table Tools



3.2 Site Filters

Throughout the site, there are various opportunities to filter data. When you see the following icon it means you can pare down displayed data with a filter.

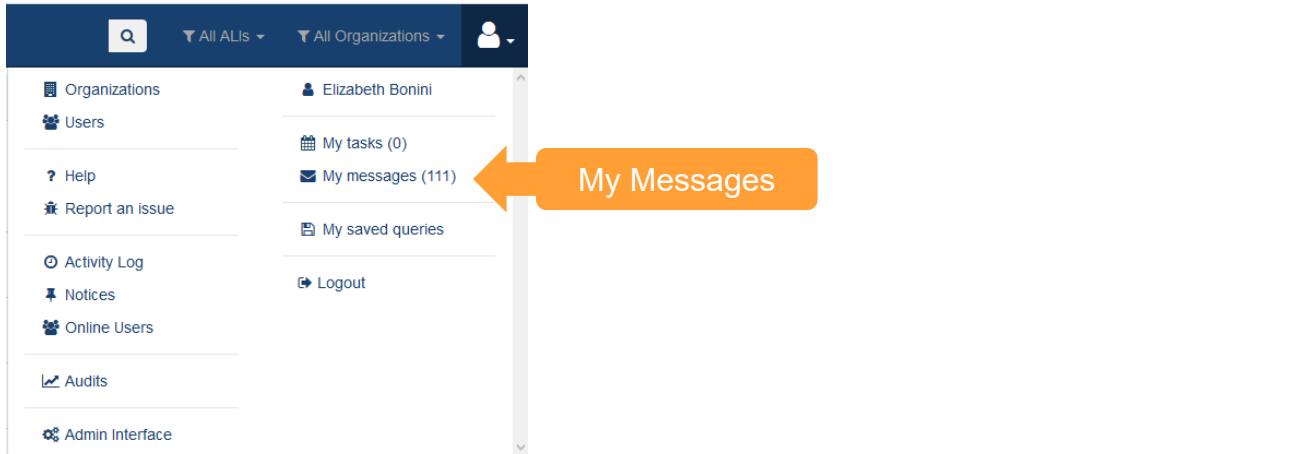
Figure 9 Filter Icon



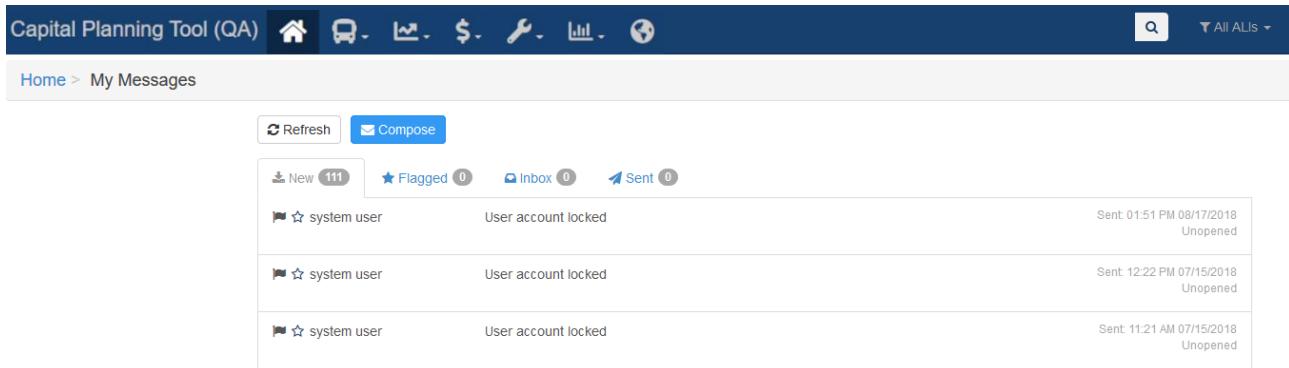
3.3 Messages

You can access Messages through the User Profile drop down menu. Users are able to send and receive messages to one or more users through the interface.

**Figure 10 User Profile
Messages**



The screenshot shows the TransAM User Profile interface. On the left is a sidebar with various links: Organizations, Users, Help, Report an issue, Activity Log, Notices, Online Users, Audits, and Admin Interface. On the right, under the user profile section, there are links for Elizabeth Bonini: My tasks (0), My messages (111) (which is highlighted with an orange arrow), and My saved queries. Below these are Logout and a search bar.

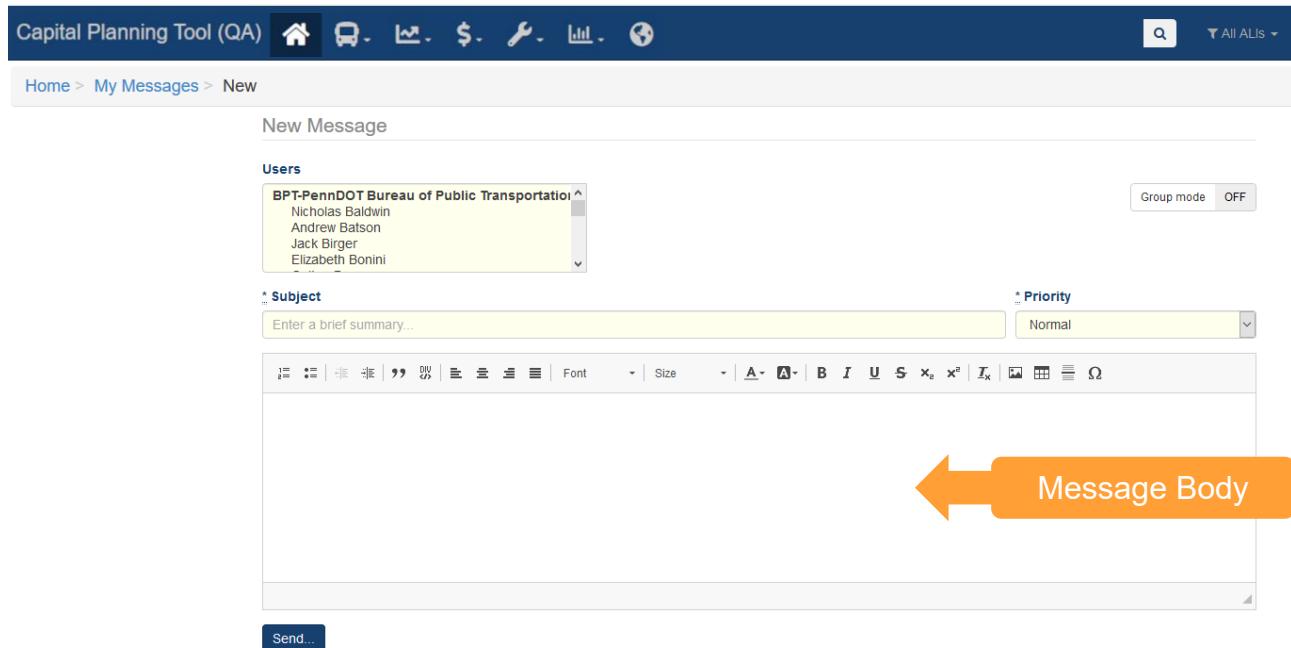


The screenshot shows the Capital Planning Tool (QA) interface. At the top, it says "Capital Planning Tool (QA)" with navigation icons for Home, Bus, \$, and so on. Below that is a breadcrumb trail: Home > My Messages. The main area is titled "My Messages" and shows a list of three messages from "system user". Each message is labeled "User account locked". The first message was sent at 01:51 PM 08/17/2018 and is marked as "Unopened". The second message was sent at 12:22 PM 07/15/2018 and is also marked as "Unopened". The third message was sent at 11:21 AM 07/15/2018 and is also marked as "Unopened". At the top of this list are buttons for Refresh, Compose, New (111), Flagged (0), Inbox (0), and Sent (0).

Figure 11 Messages

Selecting Compose will allow you to create a new message. Recipients options will be a list of users in your organization. You can enter the Subject and choose Low, Normal, or High Priority for the message. Type the intended message into the Message Body and press “Send...” when complete.

Figure 12 Message Interface



3.4 Activity Line Item (ALI) Filter

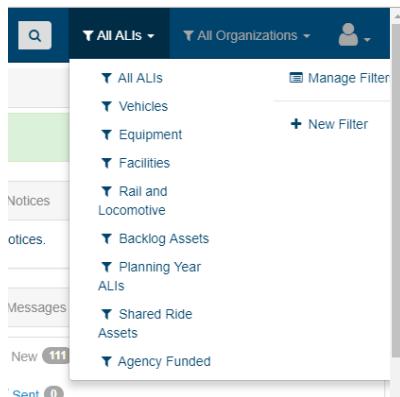
The Activity Line Item (ALI) Filter allows you to pare down on which types of individual funding requests (what are categorized by ALI code) within projects that you can view. This filter only applies to Sections 6 and 7 of this document (Projects and Project Planning).

Figure 13 ALI Filter



You can filter with prepopulated selections or create your own filters.

Figure 14 ALI Filters



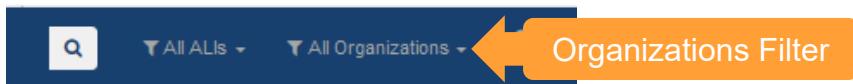
To create a new filter, select “New Filter” and specify the details required.

Figure 15 New ALI Filter

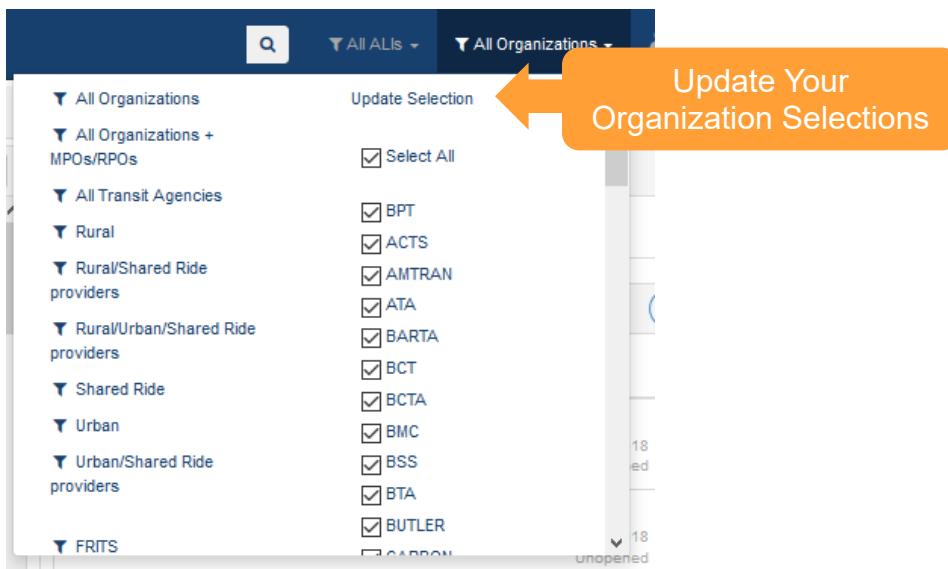
The screenshot shows the 'New ALI Filter' interface. On the left, there's a sidebar with 'Home > ALI Filters > New'. The main area has sections for 'Details' (Name, Description, Shared With), 'Parameters' (Type, SOGR, Scope, Project Location), and asset filtering (Asset Type, Asset Subtype, Owner, Funding). At the bottom are buttons for 'Update ALI Filter' and 'Update and Select This Filter'.

3.5 Organizations Filter

If you have oversight of several organizations, you can limit your scope down to certain organizations, in order to only view organization-specific data across the system.

Figure 16 Organization Filter

After you select the organizations you desire, make sure to click Update Selection at the top of the dropdown menu.

Figure 17 Organization Filter Selections

3.6 Search

The system includes a sitewide search feature. It can be found in the top center-right of each page. Click the magnifying glass icon and enter keywords to search sitewide for content.

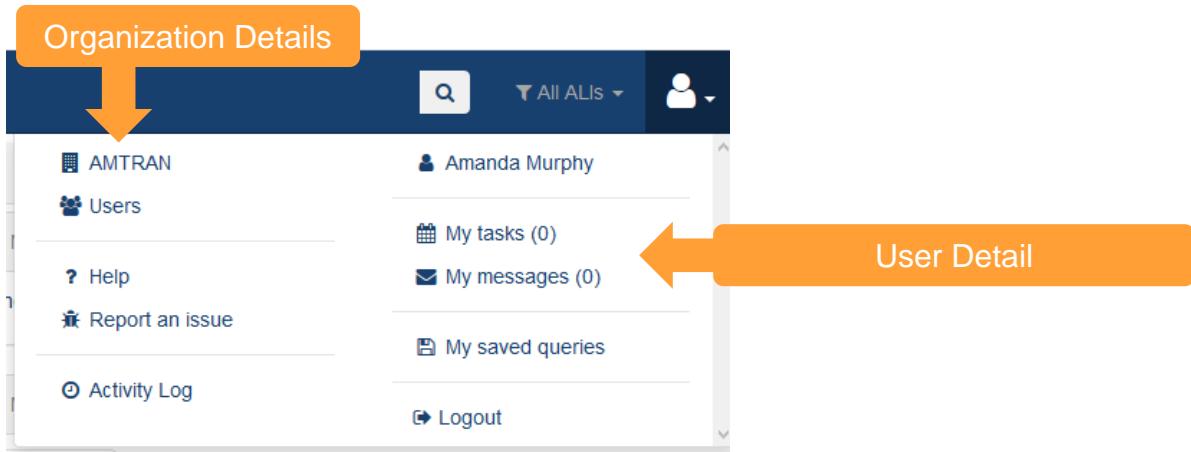
Figure 18 Search Box

3.7 User and Organization Options

Each user has a menu with personal, organizational, and heads-up information at the top right of the screen.

Figure 19 User Menu

From here, users can explore information about their own organization and their coworkers in the Organization and Users section.

Figure 20 User Menu Dropdown

Clicking on your organization name, will allow you to view and edit organization-specific information, and perform certain functions such as adding users.

Figure 21 Organization Details

The screenshot shows the Capital Planning Tool (QA) interface. At the top, there is a navigation bar with icons for Home, Bus, Map, \$, and others. Below it, the URL shows Home > Organizations > Transit Operators > AMTRAN. The main content area displays organization details for Altona Metro Transit, including fields for Type (checkbox checked), Name, Short Name, External ID, Address (3301 Fifth Avenue, Altoona, PA, 16601), Technical Contact (Not Set), and Subrecipient Number (XXXXXXXXXX). There is also an 'Actions' dropdown with options 'Update this organization' (checkbox checked) and 'Add a user'. To the right of this is an 'Asset Summary' section with a pie chart showing percentages for different asset types: Bus Std 35 FT (28%), Bus 30 FT (17.6%), Bus < 30 FT (11.7%), Intermodal Terminal (8.8%), Parking Lot (9.8%), Bus Maintenance Facility (1.1%), and Other Support Facility (0.2%). Below the pie chart is a table titled 'Organization Details' showing the count and percentage of various vehicle types:

Type	Count	%
Bus Std 35	21	3%
Intermodal Terminal	11	1%
Parking Lot	2	0%
Bus Maintenance Facility	3	0%
Other Support Facility	2	0%
Van	1	0%
Sedan/Station Wagon	4	0%
Pickup Truck	2	0%

An orange arrow points from the 'Edit Organization Details or Add Users' callout to the 'Actions' dropdown. Another orange arrow points from the 'Organization Details' callout to the table.

If you click your own name, you can see details about your profile and edit them. You also can assign yourself a task to complete.

Figure 22 Profile Details

The screenshot shows the 'My Profile' section of the Capital Planning Tool (QA). At the top, there's a navigation bar with icons for Home, Users, My Profile, Corporate, and System Settings. Below that, a breadcrumb trail shows 'Home > Users > My Profile'. On the left, there's a user profile card for 'Amanda Murphy' with a blue person icon. The profile includes fields for Email (amandamurphy@amtran.org), Primary Phone (999-9999), Address (PA), Role (Agency Manager), and Privileges. To the right of the profile card is a 'Actions' dropdown menu with options: Assign myself a task, Update my profile picture, Update my settings, Update my profile, and Change my password. An orange arrow points from the text 'Edit Profile Details' to this dropdown menu. Further to the right, there's information about the organization: AMTRAN, Address 3301 Fifth Avenue, Altoona, PA, 16601-1801, and Phone (999) 999-9999.

You can browse this help document or submit an issue in the Help and Report an issue section. Reporting an issue is easy—just fill out the required information with as much detail as you can provide.

Figure 23 Report an Issue

Report an Issue

Use this form to make comments, suggestions for enhancement, or report any issues you may be having with CPT. For example,

- Make a suggestion about how we can make CPT better
- Report a bug that you are experiencing
- Suggest future enhancements that we could make

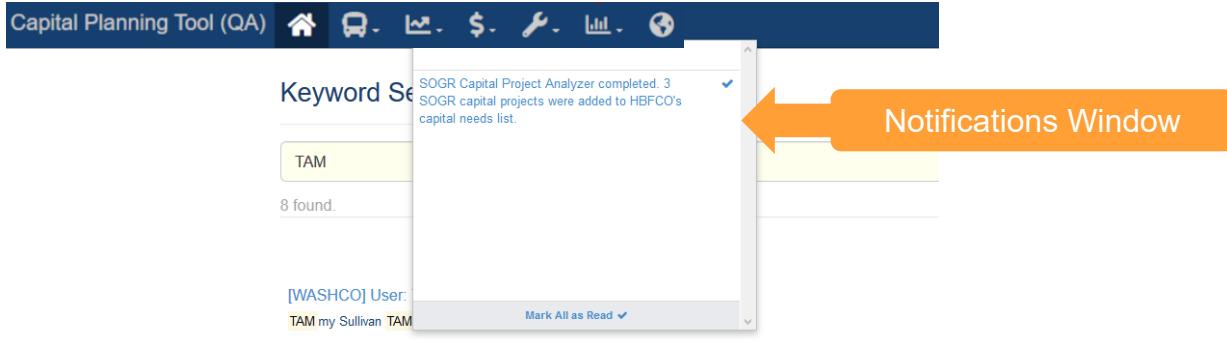
To track down and fix bugs it is helpful if we know what type of web browser you are using particularly if you are using a Microsoft browser. You can usually find this information by selecting the **About** menu item from your browser. If you don't know what browser you are using select **Unknown**.

Any information provided will be reviewed by a product manager and someone may get in touch with you to discuss your comments.

* Issue Type	* Web Browser Type
<input type="text"/>	<input type="text"/>
* Comments	
<input type="text" value="Please provide as much detail as you can..."/>	
<input type="button" value="Create Issue"/>	

3.8 Notifications

The notifications dropdown alerts you when there's activity in the system that you should be aware of. The globe at the top of the page will display a number with the count of "unread" notifications since your last check. Clicking on a notification item will take you to the change and mark the notification as read. You also can click individual checkmarks to dismiss individual notifications or "Mark All as Read" to quickly dismiss all notifications.

Figure 24 Notification Drawer

3.9 Updates, User Guide, and User Guide Videos

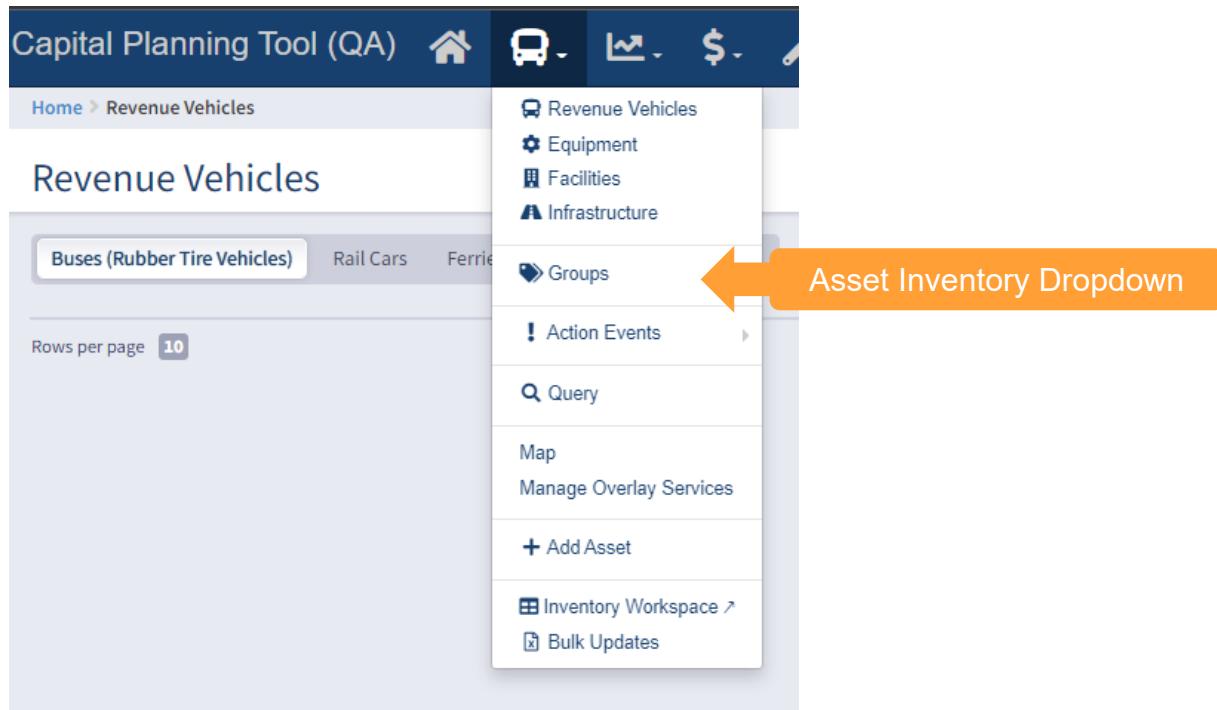
In the footer you can find recent updates to TransAM, a link to this User Guide, and Links to the User Guide Videos.

Figure 25 Updates, User Guide, and User Guide Videos

4.0 Asset Inventory

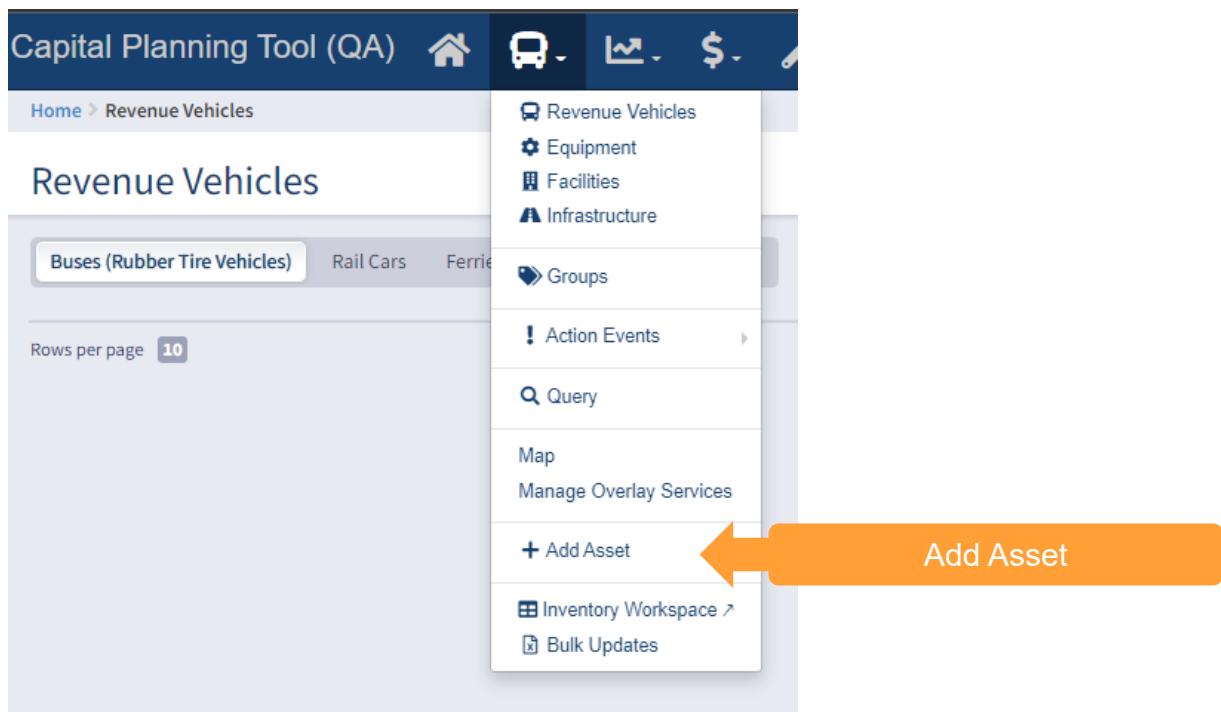
Management of organization assets is carried out through the Asset Inventory dropdown menu. It contains a variety of tools and functions that streamline asset management.

Figure 26 Asset Inventory Dropdown



4.1 Add an Asset

Adding new assets to the asset inventory is simple. First select “Add Asset” from the Asset Inventory dropdown.

Figure 27 Adding an Asset

Select an Organization and an Asset Class, then click “Create New Asset.”

Figure 28 Select the Organization and Asset Class

Capital Planning Tool (QA) Home Add Asset New Asset

* Organization
Select organization...

* FTA Asset Class
Select asset class...

Create New Asset

You'll then be directed to fill out all required fields, as depicted on the required tab, and the option of filling out any optional fields on the recommended tab.

Figure 29 Adding Asset Required Details

Capital Planning Tool (QA) Home All Assets All Organizations ?

Required Fields Recommended Fields

Organization * Organization Altoona Metro Transit	Characteristics * Manufacturer Manufacturer (Other)
Service Status * Service Status	* Model Model (Other)
Identification & Classification * Vehicle Identification Number (VIN) * Asset ID	* Year of Manufacture Fuel Type Fuel Type (Other)
* Class Buses (Rubber Tire Vehicles)	Dual Fuel Type
* Type	* Length Length Units
* Subtype	* Seating Capacity (ambulatory)
* Estimated Service Life (ESL) Category	
Final Details	

Any field on the required tab must be filled out

Figure 30 Add the Asset and Go To The New Record

The screenshot shows the Capital Planning Tool (QA) interface. On the left, there's a form for entering asset funding details like Cost (Purchase), Funding Type, Direct Capital Responsibility, and Procurement & Purchase information (Purchased New status). On the right, there are fields for Seating Capacity (ambulatory), Standing Capacity, ADA Accessibility (Yes or No), Operations (In Service Date, Primary Mode, Service Type), and Dedicated Asset status. At the bottom left, a blue button labeled '+ Add Asset & Go to New Record' is highlighted with an orange arrow pointing towards it.

4.2 Accessing Existing Assets

Every asset is categorized by category (e.g., Revenue Vehicles, Equipment), class (e.g., Buses (Rubber Tire Vehicles, Rail Cars), type (e.g., BU-Bus, RL-Commuter Rail Locomotive), and a subtype (e.g., Bus Std 40 FT, Bus Articulated) as part of a standardized hierarchy. The asset category, class, type, and subtype relationship is the taxonomy that defines your inventory and dictates the attributes or data fields that exist for assets. The list of available category, class, and type options are standardized across the system, while subtype options and some data fields have been specifically configured for your specific system deployment.

Clicking on an asset class across the header will drill down on the assets an organization possesses within that particular category and class.

Figure 31 Existing Asset Interface

The screenshot shows the Capital Planning Tool (QA) interface with 'Revenue Vehicles' selected in the header. Below is a table listing various bus assets. The table has columns for Asset ID, Organization, Class, VIN, Manufacturer, Model, Year, Type, Subtype, Service Status, Last Life Cycle Action, and Life Cycle Action Details. The first few rows show entries for CCTA, AMTRAN, and other organizations like WAYNCO and GILLIG. A search bar and pagination controls are at the bottom.

ASSET ID	ORGANIZATION	CLASS	VIN	MANUFACTURER	MODEL	YEAR	TYPE	SUBTYPE	SERVICE STATUS	LAST LIFE CYCLE ACT...	LIFE CYCLE ACTION D...
C37 1	CCTA	Buses (Rubber Tire Ve...	1F04E455980DB51215	CMC - Champion Motor Coach Inc.	Minibus	2008	Bus	Bus > 30 FT	Disposed		
CB1 1	CCTA	Buses (Rubber Tire Ve...	4U2AA8DC74CM75245	FRC - Freightliner Corporation	Freightliner	2004	Bus	Bus 30 FT	Disposed		
A2EACT351...	LCTA	Buses (Rubber Tire Ve...		FRD - Ford Motor Corporation	E450	2010	Cutaway	Bus < 30 FT			
A2EACT380...	LCTA	Buses (Rubber Tire Ve...		FRD - Ford Motor Corporation	E450	2010	Cutaway	Bus < 30 FT			
39 1	WAYNCO	Buses (Rubber Tire Ve...	1FAHP2H84DG139992	FRD - Ford Motor Corporation	TAURUS AWD	2013	Automobile	Sedan/Station Wagon	Disposed	Condition	2017-02-01
400 1	AMTRAN	Buses (Rubber Tire Ve...	2B1119777P6003224	BIA - Bus Industries of America	Orion I	1993	Bus	Bus 30 FT	Disposed	Condition	2016-02-25
405 1	AMTRAN	Buses (Rubber Tire Ve...	2B1119777P6003238	BIA - Bus Industries of America	Orion I	1993	Bus	Bus 30 FT	Disposed	Condition	2016-02-25
602 1	AMTRAN	Buses (Rubber Tire Ve...	1HVBTAA1L94H657654	INT - International	Body on Chasis	2004	Bus	Bus < 30 FT	Disposed	Condition	2016-02-25
603 1	AMTRAN	Buses (Rubber Tire Ve...	1HVBTAA1L94H657654	INT - International	Body on Chasis	2004	Bus	Bus < 30 FT	Disposed	Condition	2016-02-25
700 1	AMTRAN	Buses (Rubber Tire Ve...	15GGB2214Y1071033	GIL - Gillig Corporation	Low Floor	2000	Bus	Bus Std 35 FT	Disposed	Condition	2019-02-01

Clicking on the Asset ID text within the row of an asset record, will provide detailed information about that specific asset.

When you access the specific asset record, users can view the highlights section. The highlights sections contains asset summary information such as: a history log, location information, asset charts, asset value information, associated capital projects, and audit results. In addition, tasks, comments, documents, and photos can all be viewed, updated, and edited.

Figure 32 Asset Record: Highlights

Event	Date	Update	Notes
Condition	2/26/2018	Condition recorded as 5.0 (New/Excellent)	
Service Status Update	2/26/2018	Service status changed to In Service.	

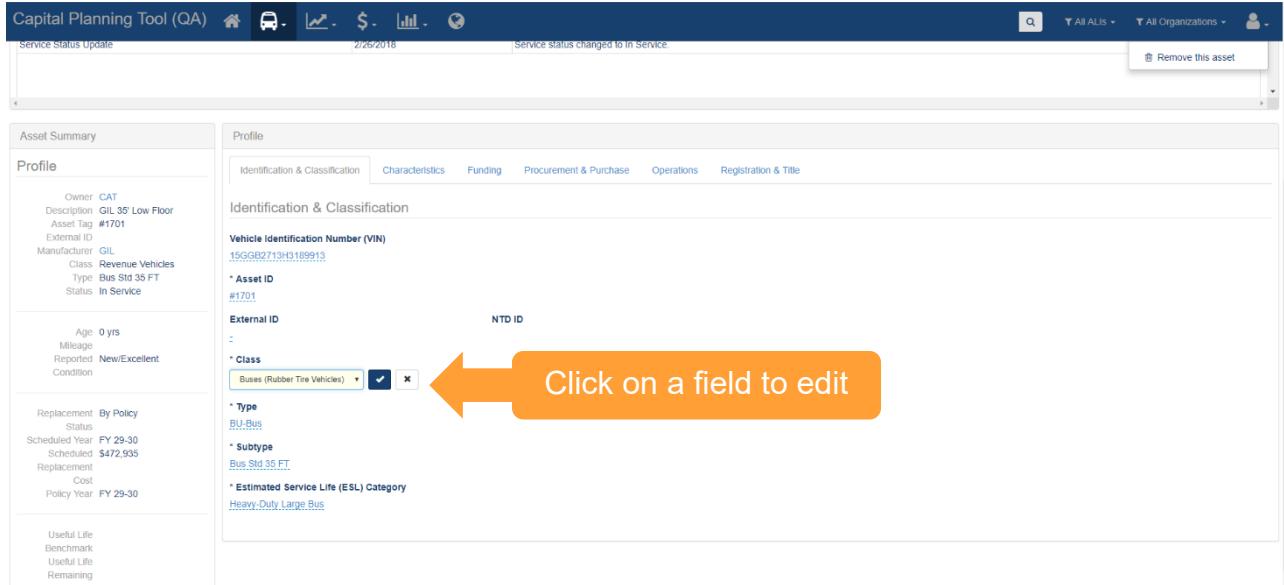
In addition to accessing asset highlight information, users can view profile or summary data for that asset.

Figure 33 Asset Record: Profile and Summary

4.3 Editing or Updating Existing Asset Profile Data

Editing asset profile data allows users to modify core attributes that are not expected to change, but corrections may be necessary from time to time. Profile data can be modified by clicking on the field, editing the data, and clicking the check mark; clicking the “X” or clicking outside the field will result in any changes not being saved.

Figure 34 Editing the Profile of an Existing Asset



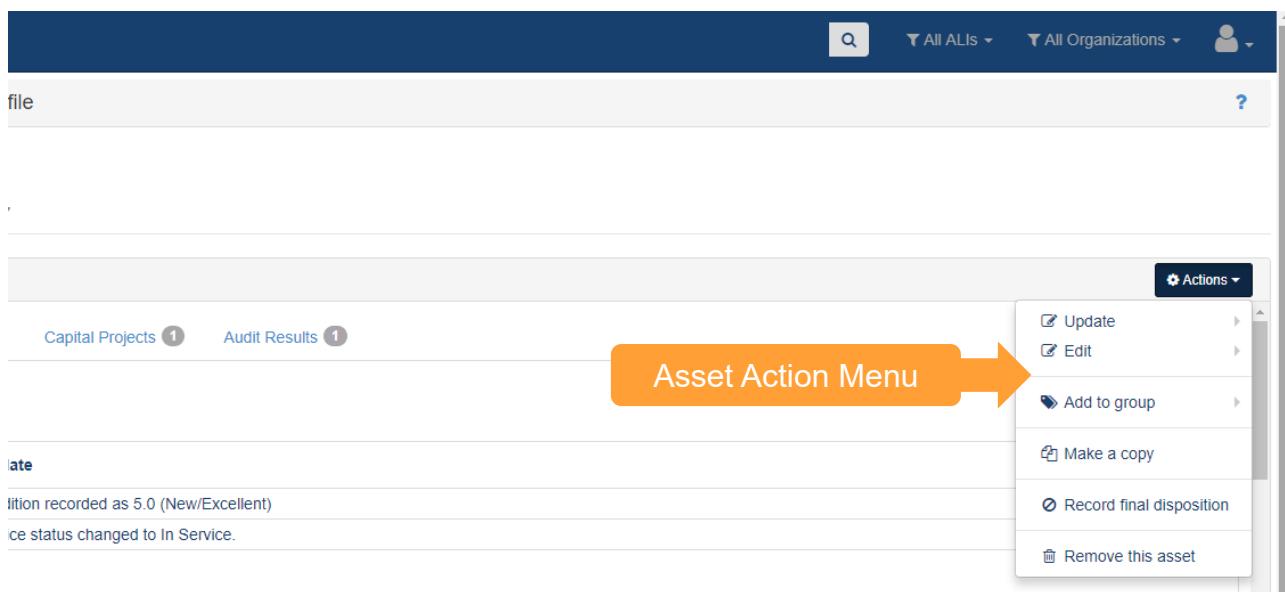
4.4 Updating Existing Asset Lifecycle Data

Asset lifecycle-related information can be edited, updated, changed, or deleted from the action menu in the top right of the screen.

Updating an asset will allow changes to attributes that are expected over the lifecycle of an asset. Asset details such as replacement status, mileage, etc. are expected to be updated periodically. Other actions should only need to happen one time during the life of an asset, such as requesting early or final disposition of an asset.

Removing an asset will permanently delete the asset and should be used only when absolutely necessary. This may option may only be available at certain permission levels.

Figure 35 Updating the Lifecycle of an Existing Asset



4.5 Action Events (Disposition and Transfer Review)

During an asset's service life, it is possible that the asset might be sold, reprovisioned, traded in, or transferred. As a result, a special event exists to record relevant information, and review any disposition requests that may be submitted, in order to complete the disposition effort.

Action Events depend on the disposition of an asset to perform certain functions. The available functions will vary depending on individual permissions and organizational policy. Action Events occur when an asset is proposed for an early disposition or an asset is newly transferred. You can submit a request for early disposition from the action menu on an asset.

Figure 36 Asset Action Events (Disposition and Transfer)

The screenshot shows the Capital Planning Tool (QA) dashboard. On the left, there's a sidebar with 'Home', 'Asset Summary', and a table of asset types like ACTS Revenue Vehicles, ACTS Support Facilities, etc., with average ages. The main area has tabs for 'Revenue Vehicles', 'Equipment', 'Facilities', and 'Infrastructure'. A 'Capital Projects' section shows a table with columns 'Agency', 'Num. Projects', and 'Cost'. To the right, there's a 'My Notices' section with a message 'No notices.' and an 'Audit Summary' section with a chart titled 'Annual Inventory Update Results' showing completion percentages for various asset classes across different agencies.

An early disposition instance is where a vehicle fails to fulfill its expected life span. The real world is messy and sometimes mishaps such as accidents occur. Under these circumstances, the asset might require disposition before originally intended.

Record final disposition will keep a record of an asset's existence when it is no longer in service. This option will essentially archive an asset so that the history exists, but the asset is no longer considered in the pool of operational assets for an organization.

Early disposition and transfer requests can be reviewed from the Early Disposition/Transfer page. Select the asset, then in the actions menu, select the button to Approve or Reject.

Figure 37 Early Disposition/Transfer Requests

This screenshot shows the 'Buses (Rubber Tire Vehicles)' section of the Capital Planning Tool. It displays a profile for asset number 105, which is a CCTA GIL Low Floor Bus Std 35 FT. The asset is currently in service. On the right, a context menu titled 'Actions' is open, listing options: 'Update this record', 'Remove this record', 'Approve', 'Reject', and 'Approve via Transfer'. An orange box highlights the 'Approve' button, with an arrow pointing towards it.

4.6 Adding or Updating Assets by Bulk Update

Bulk updates are a faster way to create and edit asset inventories when working with large quantities of asset data. This tool allows users to update service status, condition and mileage of existing inventory, record the last maintenance performed for assets, and identify assets that are going to be reprovisioned or disposed in this planning cycle using their favorite spreadsheet software externally.

Figure 38 Bulk Updates

The screenshot shows the Capital Planning Tool (QA) interface. On the left, there's a sidebar with 'Home' and 'Asset Summary' sections. The main area displays a table of asset data with columns for Type, Avg. Age, and various financial metrics. A vertical sidebar on the right lists categories like Revenue Vehicles, Equipment, Facilities, Infrastructure, Groups, Action Events, Map, Manage Overlay Services, and a prominent '+ Add Asset' button. Below these are sections for Bulk Updates and Capital Projects, which lists various agencies. An orange callout box highlights the 'Bulk Updates' section, and an orange arrow points from the '+ Add Asset' button towards it.

Type	Avg. Age	Value
ACTS Revenue Vehicles	2.3	\$5,793
ACTS Support Facilities	2.0	\$7,751
ACTS Guideway	0.0	\$0
ACTS Power & Signal	0.0	\$0
ACTS Track	0.0	\$0
AMTRAN Revenue Vehicles	12.0	\$2,076
AMTRAN Stations/Stops/Terminals	11.0	\$0,465
AMTRAN Support Facilities	29.4	\$3,902
AMTRAN Support Vehicles	4.9	\$2,534
AMTRAN Maintenance Equipment	12.9	\$9,690
AMTRAN Facility Equipment	30.2	\$0
AMTRAN IT Equipment	6.6	\$54,890
AMTRAN Office Equipment	14.1	\$17,292
AMTRAN Communications Equipment	7.5	\$175,479
AMTRAN Signals/Signs	6.8	\$34,504
AMTRAN Guideway	0.0	\$0
AMTRAN Power & Signal	0.0	\$0

Selecting “Bulk Updates” allows you to Create a new Template, Upload a Template, or see the status of an uploaded template. The main screen also shows previous bulk updates, their content, uploader, status, and stats about the contents of that update and the upload process.

Figure 39 Bulk Update Tools

This screenshot shows the 'Bulk Updates' page of the Capital Planning Tool (QA). At the top, there are buttons for 'Create a new Template' and 'Upload a Template'. An orange callout box with an arrow points to the 'Create a new Template' button. Below this, a table lists previous bulk updates with columns for Agency, File Name, Content, Loaded By, Status, Num Rows Processed, and Num Rows Added. The table includes entries for PIKECO, END, and WBT, each with a different file name and processing statistics.

Agency	File Name	Content	Loaded By	Status	Num Rows Processed	Num Rows Added
PIKECO	pikeco_transit_inventory_updates_file_handler_2018-04-17.xlsx	Inventory Updates	Toni Marino	Complete	30	30
END		Inventory Updates	BETHANY JONES	Complete	84	84
WBT	IT_EQUIPMENT_UPDATE.xlsx	Inventory Updates	BETHANY JONES	Complete	84	84

The first step to a bulk update is Creating a Template. Click “Create a new Template”, then select your Template Type, Organization, and Asset Class, then select “Create Template.”

Figure 40 Bulk Update Details

Capital Planning Tool (QA) ? All ALIs ▾ All Organizations ▾

Home > Bulk Updates > Download Template

Bulk Update Templates

Use this form to customize and download an asset inventory update template. These templates can be used to:

- Update service status, condition, and mileage of existing inventory
- Record the last maintenance performed for each asset
- Identify assets that are going to be disposed or re-provisioned in this planning cycle

Once you click **Create template**, a spreadsheet will be generated that you can save to your computer. After the template has been downloaded, open the template in Microsoft Excel and update the rows. Make sure to **Save** the template after you have finished editing it.

When ready use the **Upload** function to upload the spreadsheet template to CPT and the updates will be processed.

Select Template and Asset Type

Template Type: Inventory Updates

Fta Asset Class: Select fta asset class...

Organization: Organization dropdown

Create template button

Choose these parameters

Select “Download File” and save the resulting spreadsheet on your computer.

Figure 41 Bulk Update Spreadsheet Download

Capital Planning Tool (QA) ? All ALIs ▾ All Organizations ▾

Home > Bulk Updates > Download Template

Success

Your template has been created. Click the button below to download the file to your computer.

Download File

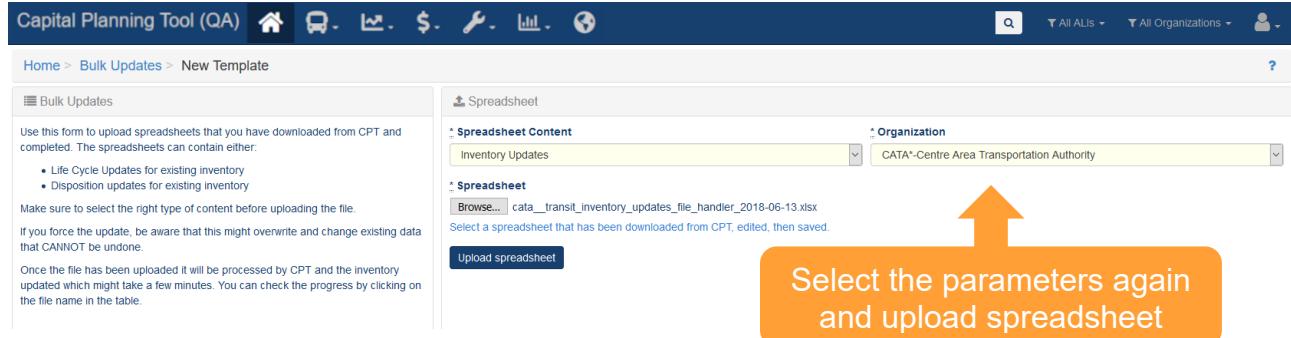
Edit the resulting spreadsheet and make sure you save your changes.

Figure 42 Bulk Update Spreadsheet

Asset	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
Object Key	Agency	Asset ID	External ID	Class	Type	Subtype	ESL Category	Description	VIN	Current Status	Reporting Date	New Status	Reporting Date	Current Condition	Rep.
3	A2E18C2848EM	ATA	703	Buses (Rubber Tire Vehicles)	Bus	30 FT	Heavy-Duty Large Bus	NFA D30LF	SFYD2TN08YYU020684	In Service	01/23/2018			1.00	01
4	A2E18C29FDGK6	ATA	704	Buses (Rubber Tire Vehicles)	Bus	30 FT	Heavy-Duty Large Bus	NFA D30LF	SFYD2TN07DXYU020685	In Service	01/23/2018			1.00	01
5	A2E18C3G088A	ATA	705	Buses (Rubber Tire Vehicles)	Bus	30 FT	Heavy-Duty Large Bus	NFA D30LF	SFYD2TN01YYU020686	In Service	01/23/2018			1.00	01
6	A2E18C47GK4	ATA	706	Buses (Rubber Tire Vehicles)	Bus	< 30 FT	Heavy-Duty Large Bus	GIL Gilig 29LF	IGGE291951090105	In Service	01/23/2018			1.00	01
7	A2E18C47M4FE	ATA	707	Buses (Rubber Tire Vehicles)	Bus	< 30 FT	Heavy-Duty Large Bus	GIL Gilig 29LF	IGGE291951090106	In Service	01/23/2018			2.00	01
8	A2E18C56GK2	ATA	708	Buses (Rubber Tire Vehicles)	Bus	< 30 FT	Heavy-Duty Large Bus	GIL Gilig 29LF	IGGE291951090107	In Service	01/23/2018			2.00	01
9	A2E18C665JDCK	ATA	709	Buses (Rubber Tire Vehicles)	Bus	< 30 FT	Heavy-Duty Large Bus	GIL Gilig 29LF	IGGE291951090108	In Service	01/23/2018			2.00	01
10	A2E18C695LBR	ATA	710	Buses (Rubber Tire Vehicles)	Bus	< 30 FT	Heavy-Duty Large Bus	GIL Gilig 29LF	IGGE291951090109	In Service	01/23/2018			2.00	01
11	A2E18C79LH24	ATA	711	Buses (Rubber Tire Vehicles)	Bus	< 30 FT	Heavy-Duty Large Bus	GIL Gilig 29LF	IGGE291951090110	In Service	01/23/2018			2.00	01
12	A2E18C800038	ATA	712	Buses (Rubber Tire Vehicles)	Bus	< 30 FT	Heavy-Duty Large Bus	GIL Gilig 29LF	IGGE271981091506	In Service	01/23/2018			2.00	01
13	A2E18C817GK2	ATA	713	Buses (Rubber Tire Vehicles)	Bus	< 30 FT	Heavy-Duty Large Bus	GIL Gilig 29LF	IGGE271981091506	In Service	01/23/2018			2.00	01
14	A2E18C993ISGC	ATA	714	Buses (Rubber Tire Vehicles)	Bus	< 30 FT	Heavy-Duty Large Bus	GIL Gilig 29LF	IGGE271981091507	In Service	01/23/2018			2.00	01
15	A2E18C995EM	ATA	715	Buses (Rubber Tire Vehicles)	Bus	< 30 FT	Heavy-Duty Large Bus	GIL Gilig 29LF	IGGE271981091508	In Service	01/23/2018			2.00	01
16	A2E18CAAA1M54	ATA	716	Buses (Rubber Tire Vehicles)	Bus	< 30 FT	Heavy-Duty Large Bus	GIL Gilig 29LF	IGGE271981091509	In Service	01/23/2018			2.00	01
17	A2E18CB0HDPC	ATA	717	Buses (Rubber Tire Vehicles)	Bus	< 30 FT	Heavy-Duty Large Bus	GIL Gilig 29LF	IGGE271981091510	In Service	01/23/2018			2.00	01
18	A2E18CBEMXK0M	ATA	718	Buses (Rubber Tire Vehicles)	Bus	< 30 FT	Heavy-Duty Large Bus	GIL Gilig 29LF	IGGE271981091511	In Service	01/23/2018			2.00	01
19	A2E18CG4N614	ATA	719	Buses (Rubber Tire Vehicles)	Bus	< 30 FT	Heavy-Duty Large Bus	GIL Gilig 29LF	IGGE271981091512	In Service	01/23/2018			2.00	01
20	A2E18GCL0KL2	ATA	720	Buses (Rubber Tire Vehicles)	Bus	< 30 FT	Heavy-Duty Large Bus	GIL Gilig 29LF	IGGE271991091652	In Service	01/23/2018			2.00	01
21	A2E18GDB97DK	ATA	721	Buses (Rubber Tire Vehicles)	Bus	< 30 FT	Heavy-Duty Large Bus	GIL Gilig 29LF	IGGE271991091653	In Service	01/23/2018			2.00	01
22	A2E18GE7EKK	ATA	722	Buses (Rubber Tire Vehicles)	Bus	< 30 FT	Heavy-Duty Large Bus	GIL Gilig 29LF	IGGE271991091654	In Service	01/23/2018			2.00	01
23	A2E18GEF3ECK	ATA	723	Buses (Rubber Tire Vehicles)	Bus	< 30 FT	Heavy-Duty Large Bus	GIL Gilig 29LF	IGGE271991091655	In Service	01/23/2018			2.00	01
24	A2E18GF54C00	ATA	724	Buses (Rubber Tire Vehicles)	Bus	< 30 FT	Heavy-Duty Large Bus	GIL Gilig 29LF	IGGE271991091656	In Service	01/23/2018			2.00	01
25	A2E18GFNSG4	ATA	725	Buses (Rubber Tire Vehicles)	Bus	< 30 FT	Heavy-Duty Large Bus	GIL Gilig 29LF	IGGE271991091657	In Service	01/23/2018			2.00	01
26	A2E18GG6K040	ATA	726	Buses (Rubber Tire Vehicles)	Bus	< 30 FT	Heavy-Duty Large Bus	GIL Gilig 29LF	IGGE271991091658	In Service	01/23/2018			2.00	01
27	A2E18GGG3JG	ATA	727	Buses (Rubber Tire Vehicles)	Bus	< 30 FT	Heavy-Duty Large Bus	GIL Gilig 29LF	IGGE271991091659	In Service	01/23/2018			2.00	01
28	A2E18GHBAIB0	ATA	728	Buses (Rubber Tire Vehicles)	Bus	< 30 FT	Heavy-Duty Large Bus	GIL Gilig 29LF	IGGE271991091660	In Service	01/23/2018			2.00	01
29	A2E18GHKA070	ATA	729	Buses (Rubber Tire Vehicles)	Bus	< 30 FT	Heavy-Duty Large Bus	GIL Gilig 29LF	IGGE271991091661	In Service	01/23/2018			2.00	01
30	A2E18GIA78K	ATA	730	Buses (Rubber Tire Vehicles)	Bus	< 30 FT	Heavy-Duty Large Bus	GIL Gilig 29LF	IGGE271991091662	In Service	01/23/2018			2.00	01
31	A2E18GIN06GM	ATA	750	Buses (Rubber Tire Vehicles)	Bus	Std 35 FT	Heavy-Duty Large Bus	GIL Phantom	IGCB29165111645	In Service	01/23/2018			2.00	01
32	A2E18GUFCK1	ATA	751	Buses (Rubber Tire Vehicles)	Bus	Std 35 FT	Heavy-Duty Large Bus	GIL Phantom	IGCB291851111646	In Service	01/23/2018			2.00	01
33	A2E18GK1M4N8	ATA	752	Buses (Rubber Tire Vehicles)	Bus	Std 35 FT	Heavy-Duty Large Bus	GIL Phantom	IGCB291X5111647	In Service	01/23/2018			2.00	01
34	A2E18GL4K4	ATA	753	Buses (Rubber Tire Vehicles)	Bus	Std 35 FT	Heavy-Duty Large Bus	GIL Phantom	IGCB29151111648	In Service	01/23/2018			2.00	01
35	A2E18GL8K4	ATA	754	Buses (Rubber Tire Vehicles)	Bus	Std 35 FT	Heavy-Duty Large Bus	GIL Gilig 35'	IGGB27191079888	In Service	01/23/2018			2.00	01
36	A2E18GLUHAE	ATA	755	Buses (Rubber Tire Vehicles)	Bus	Std 35 FT	Heavy-Duty Large Bus	GIL Gilig 35'	IGGB27191079889	In Service	01/23/2018			2.00	01
37	A2E18GMNPW4	ATA	756	Buses (Rubber Tire Vehicles)	Bus	Std 35 FT	Heavy-Duty Large Bus	GIL Gilig 35'	IGGR27191A1178187	In Service	01/23/2018			2.00	01

Head back to the Bulk Updates page and at the top select “Upload a Template.” Select the parameters on the right that were used to create the template and then click browse and find your edited spreadsheet. Then click Upload spreadsheet.

Figure 43 Bulk Update Upload



If your file uploads successfully, the main Bulk Update screen should reappear with a “File was successfully uploaded banner” and you should see the most recent update appear at the top of the bulk update history. The system will perform the updates and a new notification will appear in your notification tray once all updates are complete.

Figure 44 Bulk Upload Processing

Agency	File Name	Content	Loaded By	Status	Num Rows Processed	Num Rows Added	Num Rows Failed	Processing Time
CATA*	cata_transit_inventory_updates_file_handler_2018-06-13.xlsx	Inventory Updates	Elizabeth Bonini	Unprocessed				0s
PIKECO	pikeco_transit_inventory_updates_file_handler_2018-04-17.xlsx	Inventory Updates	Toni Marino	Complete	30	25	0	2s

Each row in the Bulk Update table contains additional information and options if you click that update. Use this interface to identify any issues that might have occurred during the bulk upload process. From the actions menu, you can resubmit the file for processing, download that specific spreadsheet again, revert the changes made by this update, or remove the file used to update from the list.

Figure 45 Bulk Update Edit

4.7 Query

The system has the ability to query the database of all assets for those matching specific search criteria.

Figure 46 Asset Query

From the Query screen, you can select a variety of different attributes and narrow down the scope of your search.

Figure 47 Query Details

Capital Planning Tool (QA) Home > Query > Asset

New Query Saved Queries

Types & Subtypes Select Asset Type(s)

Type Any Revenue Vehicles Stations/Shops/Terminals Support Facilities

Asset Subtype Any Revenue Vehicles Bus Std 40 FT Bus Std 35 FT

Operational Status Any...

Keyword Enter A Query Term

Common Fields

Vendor & Manufacturer Information Funding, Value Condition & Status Important Dates & Years

Vendor Any Hetch Fleet Services ? (Unknown)

Funding Type Any UA-Urbanized Area Formula Program OF-Other Federal funds NFPA-Non-Federal public funds

Service Status Any In Service Out of Service Spare

In Service Date After mm/dd/yyyy

Manufacturer Any AAA-Allen Ashley Inc. (Vehicles) AAA-Allen Ashley Inc. (Locomotives) AAA-Allen Ashley Inc. (Support Vehicles)

Funding Program S309 S316 S317 N/A

Reported Condition Type Any.. Unknown Poor Marginal

Purchase Date After mm/dd/yyyy

Disposition Date After mm/dd/yyyy

Scheduled Replacement Year During FY YYYY - YYYY

Policy Replacement Year During FY YYYY - YYYY

Manufacturer Model Enter The Manufacturer Model Purchase Cost Book Value

Purchase Cost Equal To In Backlog Purchased New Scheduled for Early Replacement Disposed Early

Book Value Equal To Direct Capital Responsibility Percent Capital Responsibility

Percent Capital Responsibility Equal To

Query Reset

Filter your query down and press the query button at the bottom. You can reset all the filters by pressing reset.

Figure 48 Saved Queries

Capital Planning Tool (QA) Home > Query > Asset

New Query Saved Queries

Query Parameters Actions

Save selection as a group Save query parameters

Access Saved Queries

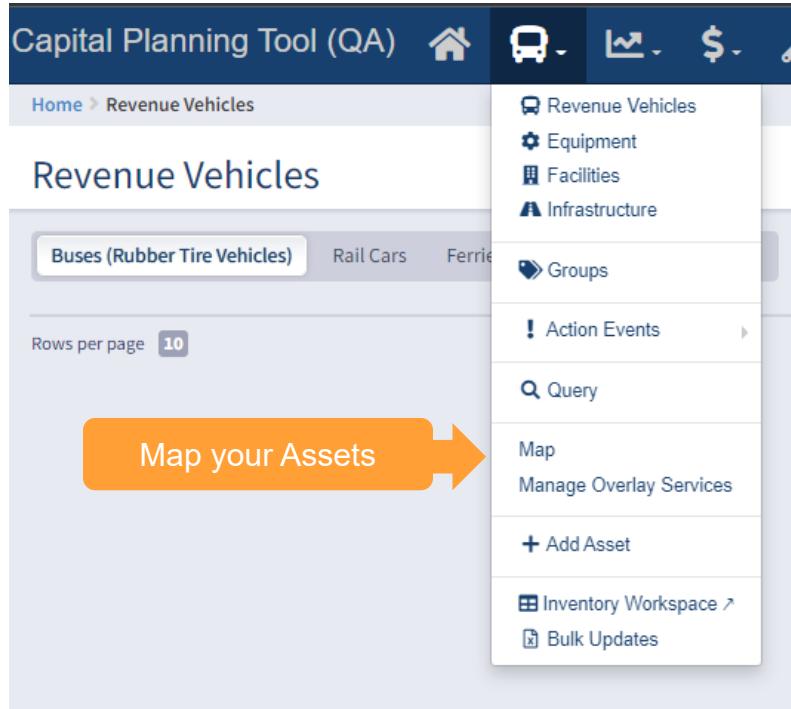
Agency	Type	Asset Tag	Description	Parent	Location	Status	Age	Condition	Rehab	Replace	Vendor	Book Value
PAAC	Bus Maintenance Equipment	000021955-00	TEST BENCH-TEST BENCH AIRTEK		D	25	1.0	-		FY 18-19	-	\$0
PAAC	Bus Maintenance Equipment	000022065-00	TEST EQUIP-TEST EQUIP - IR SERVICE MONIT		I	24	1.0	-		FY 18-19	-	\$0
PAAC	Bus Maintenance Equipment	000023399-00	BATTERY TESTER-TESTER BATTERY IMPEDENCE S#257		I	25	1.0	-		FY 18-19	-	\$0
PAAC	Bus Maintenance Equipment	000044073-00	ALTERNATOR TEST BENCH-ALTERNATOR TEST BENCH MARCH SHOP		I	5	2.0	-		FY 22-23	-	\$69,300
PAAC	Other Communications Equipment	000042644-00	RADIO TEST STATION-RADIO TEST STATION		D	27	1.0	-		FY 18-19	-	\$0

When you get to your results screen, you can save the selection of vehicles as a group or save your query parameters for a later query from the action menu at the top right.

4.8 Map

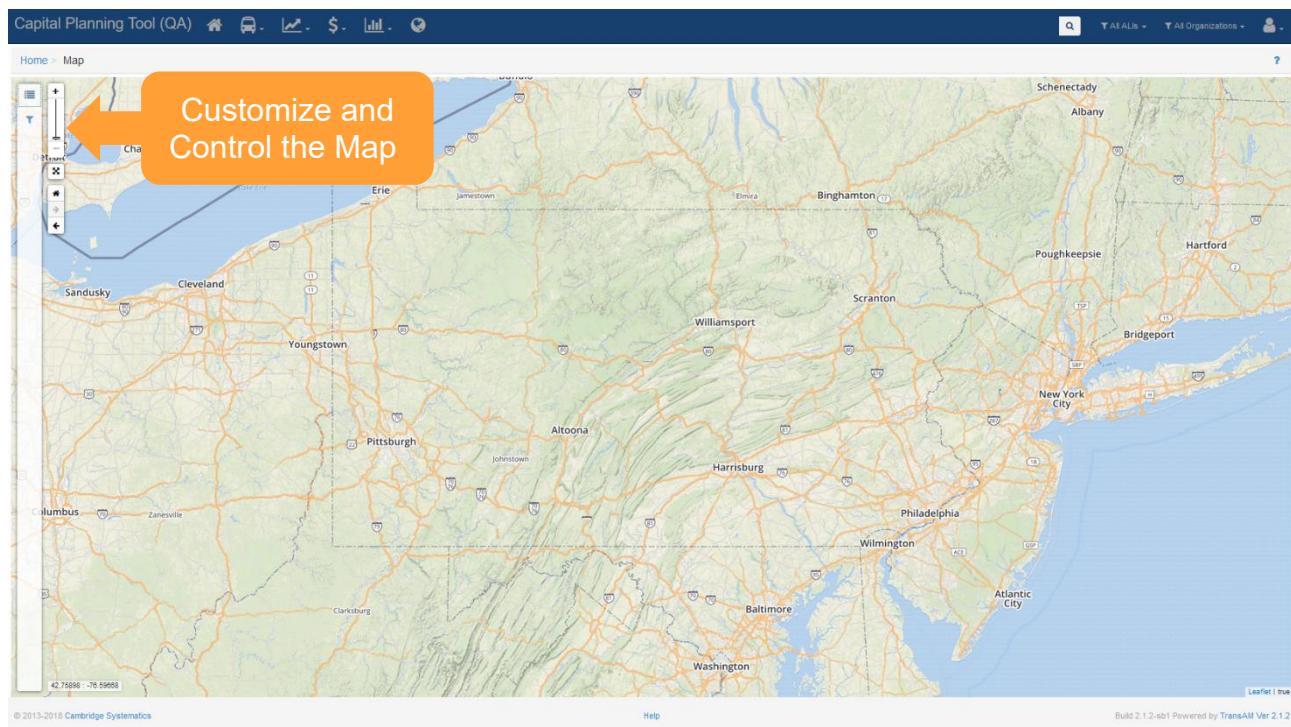
The system provides the ability to overlay asset locations on a map.

Figure 49 Asset Map



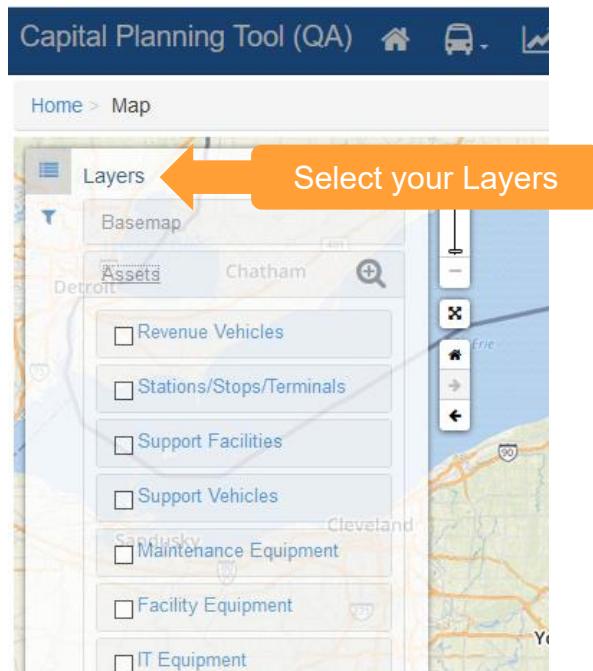
The map has several key features. You can customize the map from the two icons in the bar on the left of the map.

Figure 50 Map Customization

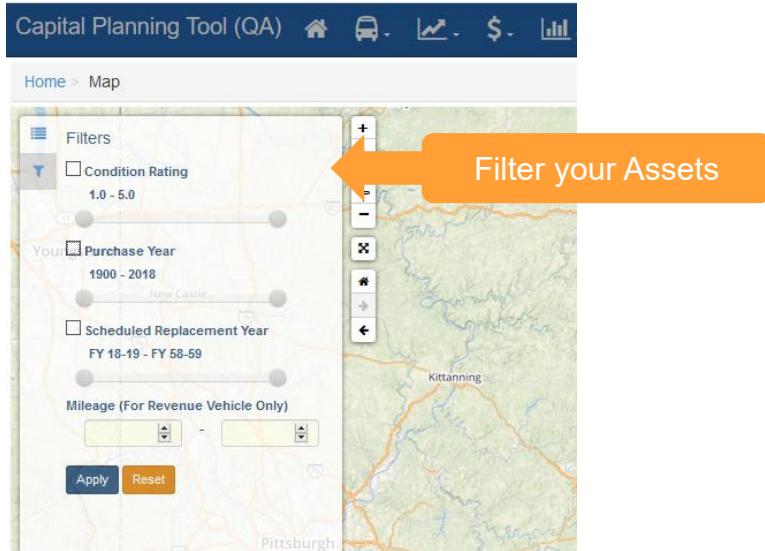


Clicking the top icon allows you to select which layers to display on the map. You can select a default map, the Esri streets map, the Esri Satellite map, or the Esri topographic map as your basemap. Clicking assets will allow you to specify which asset types you wish to display on the map.

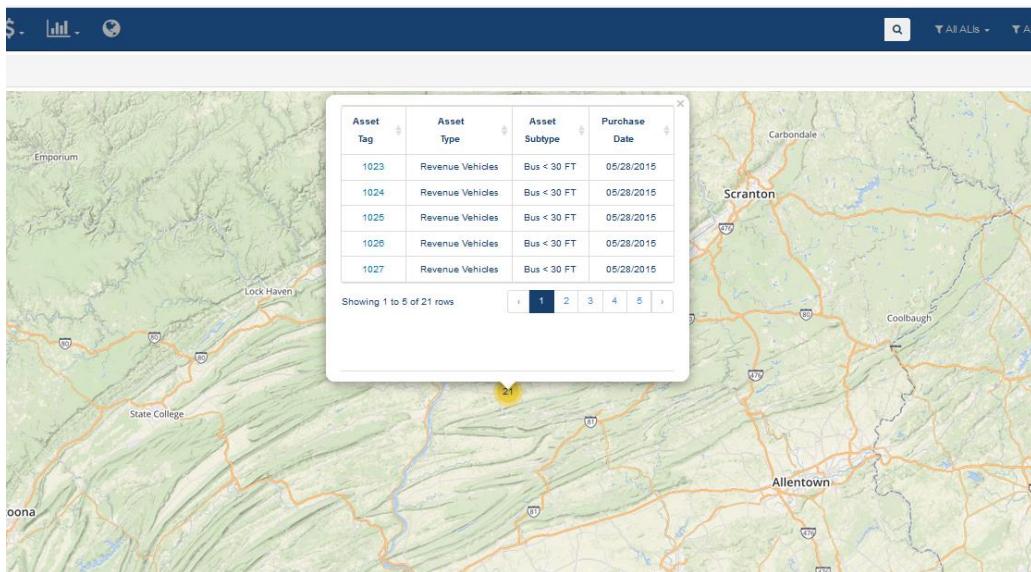
Figure 51 Map Layers



Clicking the filter icon will allow you to pare down the assets that are displayed on the map.

Figure 52 Map Filter

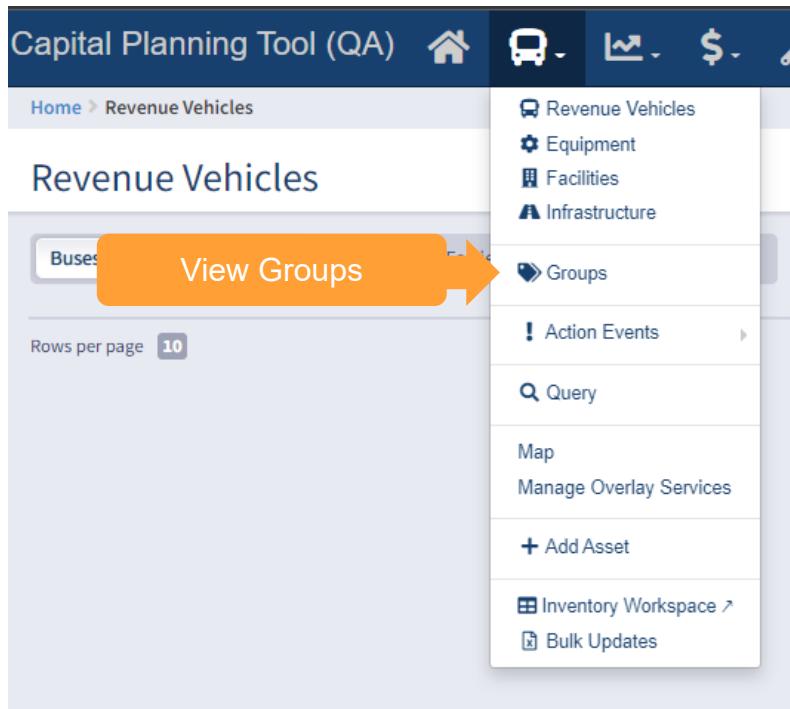
Once assets are displayed on the map, clicking a group of assets will provide summary information.

Figure 53 Map Asset Details

4.9 Groups

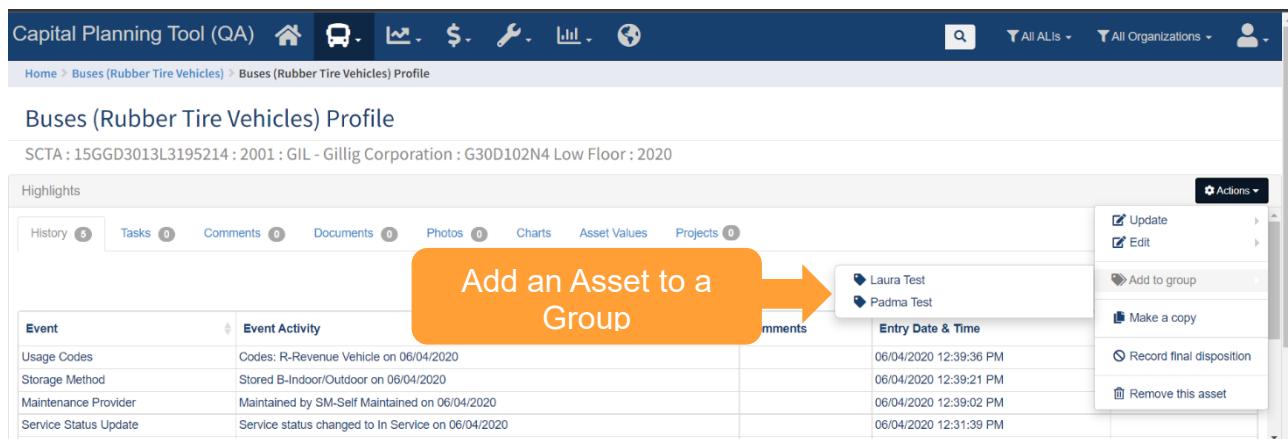
Agencies can create an on-the-fly collection of assets called groups so that they can quickly recall commonly viewed assets all at once. They can be accessed from the Asset Inventory Menu.

Figure 54 Asset Groups



Group details can be found in the group screen. Adding an asset to a group comes from the asset details action menu, as seen below.

Figure 55 Adding an Asset to a Group



5.0 Maintenance

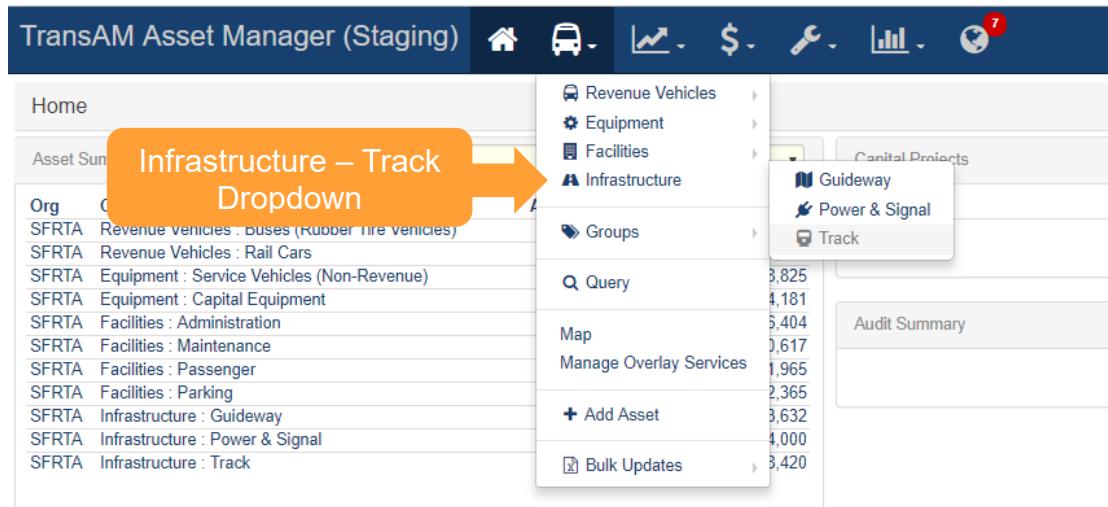
Maintenance of assets is carried out through the Maintenance dropdown menu. Currently, the Maintenance section includes the Performance Restriction feature, which only applies to Infrastructure – Track assets. Additional features will be added to the Maintenance section in the future.

5.1 Performance Restrictions

Organizations that have Infrastructure – Track data in the asset inventory, can utilize the Performance Restrictions feature. This feature can be used to monitor daily, track-based speed restrictions or work restrictions on individual track segments. All restrictions must be reported utilizing the same linear reference method used for the Infrastructure – Track asset data.

Performance Restrictions can be reported within an individual Infrastructure – Track asset profile, which can be accessed from the Asset Inventory dropdown

Figure 56 Asset Inventory Dropdown : Infrastructure - Track



Clicking on the Asset ID text within the row of an asset record, will provide detailed information about that specific asset.

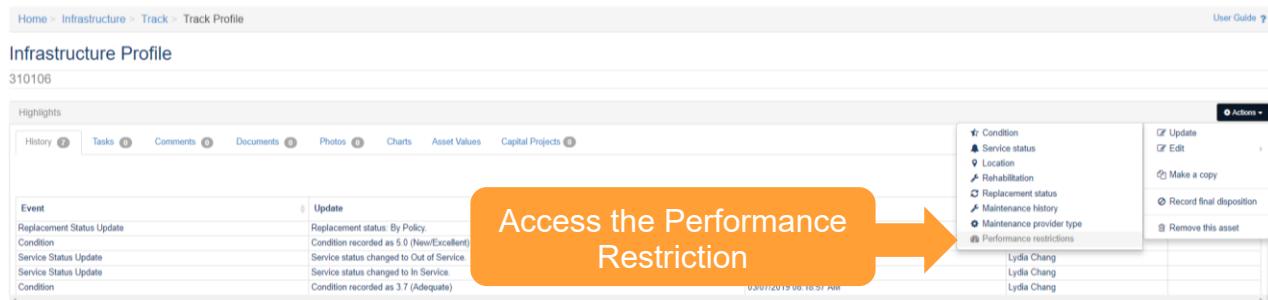
Figure 57 Existing Asset Interface : Infrastructure - Track

The screenshot shows a table of Infrastructure - Track records. The columns include Asset ID, Organization, Line (from), From, Line (to), To, Class, Subtype, Description, Main Line / Division, Branch / Subdivision, Track, Segment Type, Location, Last Life Cycle Action, Life Cycle Action Date, and Status. An orange callout bubble points to the 'Asset ID' column header, with the text 'Access the Infrastructure – Track Record' inside it. The table has 275 rows, with page numbers 1 through 28 at the bottom.

Asset ID	Organization	Line (from)	From	Line (to)	To	Class	Subtype	Description	Main Line / Division	Branch / Subdivision	Track	Segment Type	Location	Last Life Cycle Action	Life Cycle Action Date	Status
310000	SFRTA								South Florida Rail Corridor	N/A	Main Line	Main Line	-	Service status	9/28/2018	In Service
310101	SFRTA								South Florida Rail Corridor	N/A	2	Main Line	-	Service status	9/28/2018	In Service
310102	SFRTA								South Florida Rail Corridor	N/A	2	Main Line	-	Service status	9/28/2018	In Service
310103	SFRTA								South Florida Rail Corridor	N/A	2	Main Line	-	Service status	9/28/2018	In Service
310104	SFRTA								South Florida Rail Corridor	N/A	2	Main Line	-	Performance restrictions	3/6/2019	In Service
310105	SFRTA								South Florida Rail Corridor	N/A	2	Main Line	-	Rehabilitation	3/1/2019	In Service
310106	SFRTA								South Florida Rail Corridor	N/A	2	Main Line	-	Replacement status	3/1/2019	Out of Service
310107	SFRTA	SX	973.3	SX	974.3	Track	Tangent (Straight)	N/A	South Florida Rail Corridor	N/A	2	Main Line	-	Service status	9/28/2018	In Service
310108	SFRTA	SX	974.3	SX	974.4	Track	Tangent (Straight)	N/A	South Florida Rail Corridor	N/A	2	Main Line	-	Service status	9/28/2018	In Service
310109	SFRTA	SX	974.4	SX	975.1	Track	Tangent (Straight)	N/A	South Florida Rail Corridor	N/A	2	Main Line	-	Performance restrictions	3/7/2019	In Service

Performance Restrictions can be reported from the action menu in the top right of the screen.

Figure 58 Lifecycle Action Menu



When accessing the Performance Restriction Lifecycle Event, data associated with the track segment auto-populates the event fields, including the maximum permissible speed, which populates the speed restriction field. As a user, you can edit the speed restriction, and set the period of the restriction. The restriction period can be set to “Until Removed”, which means the restriction will be active until a user manually closes the restriction, or the restriction can be set for a specified period of time, to include hours, days or weeks. If the restriction is set to a specified period of time using “Set Length”, the restriction will automatically closeout upon expiration of the specified time period.

Users can also adjust the linear “From” and “To” marker post values (which were auto-populated from the track record), in order to modify the length of the restriction segment. Modifying the restriction length means the track restriction can be reported for more than one segment of track, even though the event was initiated from a single record. If the “From” or “To” value is extended beyond the “From” and “To” values of the initial reporting segment, all other associated linear segments covered under the new values will appear in the “Associated Linear Asset Records” section. Users can also submit restrictions utilizing on the “From” value, for single location restrictions, such as switch points and all restrictions must have a restriction cause selected.

Figure 59 Performance Restriction Lifecycle Event

Performance restrictions		Notes	
* Speed Restriction	* Unit	* Period	
79.0	mph	<input type="radio"/> Set Length <input checked="" type="radio"/> Until Removed	Performance Restriction Events should be utilized to report any speed-based performance restrictions on a single track within the right-of-way. While reporting is initiated per individual track segment, the linear reference markers can be modified to report the restriction across a larger segment of individual track. For users creating the National Transit Database Performance Report (A-90), these performance restrictions will be used to calculate performance against your annual Infrastructure Performance Target (weather restrictions will be excluded).
Segment Unit			
<input checked="" type="radio"/> Marker Posts <input type="radio"/> Lat / Long <input type="radio"/> Chaining		Track 2	
* Line	* From	* Line	* To
SX	971.9	SX	975.3
From (Location Name)		To (Location Name)	
<input type="text"/>		<input type="text"/>	
Associated Linear Asset Records			
310107	310108	310109	310110
Restriction Cause			
<input type="text"/>			
Date of Performance Restriction			
03/14/2019 07:13:32 PM			
Comments			
<input type="text"/> <p>Enter any additional comments...</p>			
<input type="button" value="Update Performance Restrictions"/>			

Submit the Performance Restriction

Once a Performance restriction is submitted it appears in the Performance Restrictions section, along with all previously submitted restrictions, and can be managed by accessing the Maintenance Dropdown.

Figure 60 Maintenance Dropdown

The screenshot shows the TransAM Asset Manager (Staging) interface. At the top, there is a navigation bar with icons for Home, Assets, Reports, and Help. Below the navigation bar, a dropdown menu is open, labeled "Maintenance Dropdown". The main content area displays three tables: "Asset Summary" (listing various asset categories like Revenue Vehicles, Equipment, Facilities, etc., with columns for Org, Category : Class, Avg. Age, Count, and Cost), "Capital Projects" (listing projects by Agency, Num. Projects, and Cost), and "Audit Summary" (indicating "No active audits found").

All restrictions in an “Active” status appear by default in the management section. Events can be filtered to “All” or “Expired” to view historical restrictions, by status. Filtering can also be achieved by searching for events that were active within a specified period of time. If a restriction is no longer active, it can be manually closed by clicking the “Closeout” button. If a restriction was closed in error, the user can filter for expired restrictions and reopen the restriction event that was closed in error. All restriction event data can be directly exported from the table.

Figure 61 Performance Restriction Management

The screenshot shows a table titled "Performance Restrictions" with a header "Active Restrictions". The table has columns for Status, Active Start, Active End, Asset / Segment ID, Org, Desc / Segment Name, Subtype, Line, From, Line, To, Track, Max Permissible Speed, Unit, Speed Restriction, Restriction Cause, Active Start, Active End, Submitted By, Status, and Comments. There are 7 rows of data, each representing a different restriction entry. The last row shows a total of 7 rows.

6.0 Policies

A Policy is a set of parameters that establishes rules related to assets saved within the system. While an organization can create and modify multiple policies, each organization can only have one current policy at a time. The policy is applied to an organization's inventory on an asset by asset basis so that policy rules are reflected on every individual asset.

Figure 62 Policies Dropdown

The screenshot shows the Capital Planning Tool (QA) interface. At the top, there is a navigation bar with icons for Home, Bus, Graph, Dollar Sign, Bar Chart, and a globe. Below the navigation bar is a main content area. On the left, there is a table titled "Asset Summary" with columns "Type", "Avg. Age", and "Count". The table lists various asset types like ACTS Revenue Vehicles, ACTS Support Facilities, AMTRAN Revenue Vehicles, etc. On the right, there is a table titled "Capital Projects" with columns "Agency", "Num. Projects", and "Cost". This table lists organizations like ACTS, AMTRAN, BARTA, BCT, BCTA, BMC, BSS, BTA, BUTLER, CARBON, CARS, and CAT, along with their respective project counts and costs. A callout bubble labeled "Policies Dropdown" points to the "Policies" icon in the top navigation bar.

Clicking “Policies” in the dropdown will display the Policy options that are available. Each individual policy also can be accessed through the submenu navigation options, by hovering over the policies selection in the main navigation dropdown.

Figure 63 Policy Rule Sets

The screenshot shows the Capital Planning Tool (QA) interface with the "Policies" page selected. The top navigation bar and the main content area are visible. In the main content area, there are two cards: "Asset Replacement/Rehabilitation ..." and "TAM Policy". A callout bubble labeled "Policy Rule Sets" points to the "TAM Policy" card.

6.1 Asset Replacement/Rehabilitation Policy

Asset Replacement and Rehabilitation Policies can be chosen under the Policies submenu. The SOGR Capital Project Analyzer, Capital Projects, and Project Planner tools apply this policy to determine the estimated service life, replacement cost, and depreciation of an asset. Asset Replacement/Rehabilitation Policy Rules here can be set at the State or individual organization level. This type of policy set will persist from year to year, unless edited or removed.

Use the organization filter dropdown to choose the correct organization. You will then need to select the policy year that you wish to work with. Pressing the Filter Button will display the policy rules for the organization and policy year that you have chosen.

Figure 64 Asset Replacement/Rehabilitation Policy Filters

Capital Planning Tool (QA) Home Policies > Asset Replacement/Rehabilitation Policy > BPT Policy ?

Asset Replacement/Rehabilitation Policy

Filters

Organization Filter: BPT-PennDOT Bureau of Public Transportation

Policy Year: FY 2017 Statewide Transit Policy (Current)

Policy Rules

Condition Threshold: 2.50
Depreciation Calculation Type: Straight Line
Depreciation Interval: Annually

Support Facilities	Support Vehicles	Maintenance Equipment	Facility Equipment	IT Equipment	Office Equipment	Communications Equipment	Signals/Signs	Rail Cars	
Service Life Calculation Method: Age Only	Repl. Cost Calculation Method: Purchase Price + Interest	Condition Rollup Calculation Method: Weighted Average	Annual Inflation Rate: 1.10	Pct Residual Value: 0%	Last Updated: 07:58 AM 12/05/2015	Actions			

Policy Rules are displayed at one of three levels: organization-wide, asset type, and asset subtype. Organization-wide policy rules can be exported, modified, copied, and created through the Actions button.

Figure 65 Policy Rules

Policy Rules

Policy Owner: PennDOT Bureau of Public Transportation
Description: FY 2017 Statewide Transit Policy
Active: ✓

Policy Rules Actions

Condition Threshold: 2.50
Depreciation Calculation Type: Straight Line
Depreciation Interval: Annually

Revenue Vehicles	Stations/Stops/Terminals	Support Facilities	Support Vehicles	Maintenance Equipment	Facility Equipment	IT Equipment	Office Equipment	Communications Equipment	
Service Life Calculation Method: Age and Mileage	Repl. Cost Calculation Method: Purchase Price + Interest	Condition Rollup Calculation Method: Weighted Average	Annual Inflation Rate: 1.10	Pct Residual Value: 0%	Last Updated: 10:58 AM 02/07/2017	Actions			

+ Add an Asset Subtype Rule

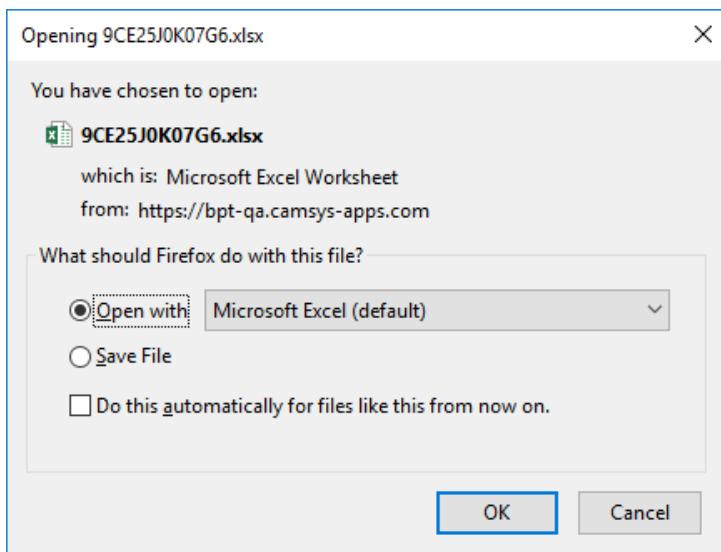
The Actions button will display a list of options as shown.

Figure 66 Policy Rules Actions Dropdown

Actions

- Export rules to Excel
- Modify this policy
- Make a copy
- + Add an Asset Type Rule

Export rules to Excel opens a dialog box to save the Policy Rule as an Excel spreadsheet file.

Figure 67 Export rules to Excel (Windows dialog box)

Modify this Policy will open a dialog box that displays the editable fields at the organization level. When you are done making edits, click “Update Policy” button to apply changes.

Figure 68 Modify (Update) Organization Policy Dialog

Update Policy

* Description
 FY 2017 Statewide Transit Policy

* Condition Threshold
 2.5

* Depreciation Calculator
 Straight Line

* Depreciation Interval
 Annually

Update Policy

Users can create new policies by copying an existing policy. Make a Copy displays the same dialog as Update Policy but once saved, a new policy is created based on the copied policy. When copying a policy, you can set the initial organization wide parameters. For example, Depreciation Calculator can be changed from “straight line” to “declining balance.” The new created Policy is named according to the Description text box shown.

Figure 69 Copy Organization Policy Dialog

Update Policy

* **Description**
Copy of FY 2017 Statewide Transit Policy

* **Condition Threshold**
2.5

* **Depreciation Calculator**
Straight Line

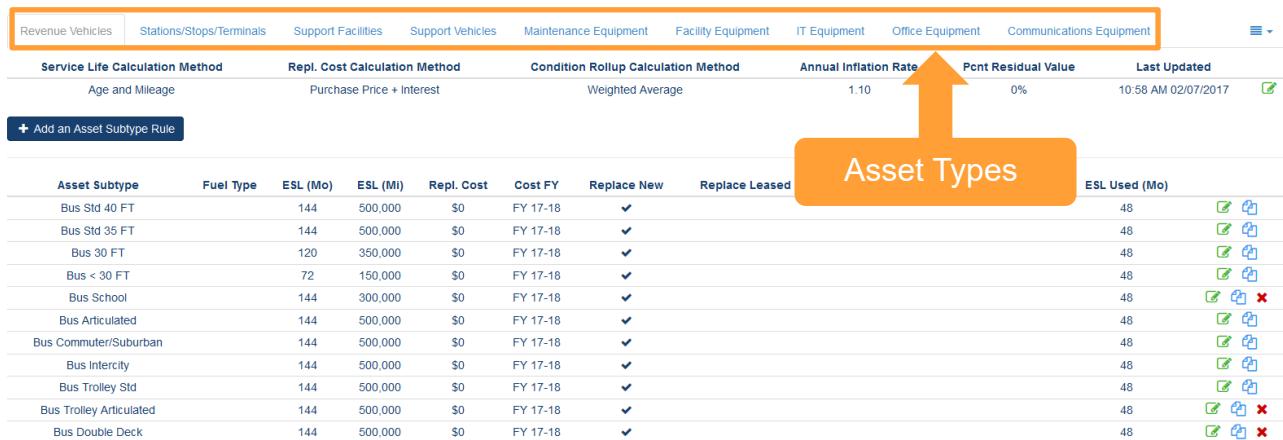
* **Depreciation Interval**
Annually

Create Policy

Asset types are shown as a series of clickable tabs. Asset subtypes and corresponding asset type rules are listed below each Asset type.

There are a set of rules for each asset type which deal with service life calculation, replacement cost calculation type, condition rollup calculation, annual inflation rate, percent residual value, and condition rollup weight.

Figure 70 Asset Types



The screenshot shows a table of asset subtypes under the 'Asset Types' tab. The table has columns for Asset Subtype, Fuel Type, ESL (Mo), ESL (Mi), Repl. Cost, Cost FY, Replace New, Replace Leased, and ESL Used (Mo). An orange callout points to the 'Asset Types' tab at the top of the table.

Asset Types								
Asset Subtype	Fuel Type	ESL (Mo)	ESL (Mi)	Repl. Cost	Cost FY	Replace New	Replace Leased	ESL Used (Mo)
Bus Std 40 FT		144	500,000	\$0	FY 17-18	✓		48
Bus Std 35 FT		144	500,000	\$0	FY 17-18	✓		48
Bus 30 FT		120	350,000	\$0	FY 17-18	✓		48
Bus < 30 FT		72	150,000	\$0	FY 17-18	✓		48
Bus School		144	300,000	\$0	FY 17-18	✓		48
Bus Articulated		144	500,000	\$0	FY 17-18	✓		48
Bus Commuter/Suburban		144	500,000	\$0	FY 17-18	✓		48
Bus Intercity		144	500,000	\$0	FY 17-18	✓		48
Bus Trolley Std		144	500,000	\$0	FY 17-18	✓		48
Bus Trolley Articulated		144	500,000	\$0	FY 17-18	✓		48
Bus Double Deck		144	500,000	\$0	FY 17-18	✓		48

If there are too many asset types to fit in the tabs, you will see the dropdown icon, as depicted below.

Figure 71 Additional Assets Dropdown Icon



The Asset Type Rules are listed below the Asset Types.

Figure 72 Asset Type Rules

Revenue Vehicles	Stations/Stops/Terminals	Support Facilities	Support Vehicles	Maintenance Equipment	Facility Equipment	IT Equipment	Office Equipment	Communications Equipment	Last Updated	
Service Life Calculation Method	Repl. Cost Calculation Method	Condition Rollup Calculation Method	Annual Inflation Rate	Pcnt Residual Value						
Age and Mileage	Purchase Price + Interest	Weighted Average	1.10	0%					10:58 AM 02/07/2017	
+ Add an Asset Subtype Rule										
Asset Subtype	Fuel Type	ESL (Mo)	ESL (Mi)	Repl. Cost	Cost FY	Replace New	Replace Leased	Replace With	Replace Fuel Type	ESL Used (Mo)
Bus Std 40 FT	144	500,000	\$0	FY 17-18	✓					48
Bus Std 35 FT	144	500,000	\$0	FY 17-18	✓					48
Bus 30 FT	120	350,000	\$0	FY 17-18	✓					48
Bus < 30 FT	72	150,000	\$0	FY 17-18	✓					48
Bus School	144	300,000	\$0	FY 17-18	✓					48
Bus Articulated	144	500,000	\$0	FY 17-18	✓					48
Bus Commuter/Suburban	144	500,000	\$0	FY 17-18	✓					48
Bus Intercity	144	500,000	\$0	FY 17-18	✓					48
Bus Trolley Std	144	500,000	\$0	FY 17-18	✓					48
Bus Trolley Articulated	144	500,000	\$0	FY 17-18	✓					48
Bus Double Deck	144	500,000	\$0	FY 17-18	✓					48

You can add an Asset Type Rule by selecting the option in the Actions dropdown. Selecting that option will display the following dialog box.

Figure 73 Add an Asset Type Rule Dialog Box

Add an Asset Type Rule

Asset Type	New Type	
New Asset Type Name	New Asset Subtype Description	
* Service Life Calculation Type	* Replacement Cost Calculation Type	Condition Rollup Calculation Type
Age Only	Replacement Cost	Weighted Average
* Annual Inflation Rate	* Pcnt Residual Value	* Condition Rollup Weight
1.1	0	0
Save	Cancel	

You can edit the Asset Type Rule for a specific asset, by clicking on the edit icon as depicted below.

Figure 74 Edit Icon



Clicking edit on an “Asset Type Rule” will display a dialog box, allowing you to modify the Asset Policy Rule.

Figure 75 Modify Asset Policy Rule

Modify Rule: IT Equipment

* Service Life Calculation Type	* Replacement Cost Calculation Type	Condition Rollup Calculation Type
Age Only	Purchase Price + Interest	Weighted Average
* Annual Inflation Rate		* Pcnt Residual Value
1.1		0
		* Condition Rollup Weight
		0
<input type="button" value="Save"/> <input type="button" value="Cancel"/>		

The Asset Subtypes that are displayed will correspond to the Asset Type tab. The available Asset Subtype rules are the same as the Subtypes in your inventory. The estimated service life information at the Asset Subtype level describes the asset and its expected lifespan.

Figure 76 Asset Type and Asset Subtype rules

Asset Subtype Rules									
Revenue Vehicles	Stations/Stops/Terminals	Support Facilities	Support Vehicles	Maintenance Equipment	Facility Equipment	IT Equipment	Office Equip		
Service Life Calculation Method	Repl. Cost Calculation Method	Condition Rollup Calculation Method	Annual Inflation Rate	Pcnt Residual	Last Updated				
Age and Mileage	Purchase Price + Interest	Weighted Average	1.10	0%	10:41 AM 09/10/2016				
Asset Subtype	Fuel Type	ESL (Mo)	Repl. Cost	Cost FY	Replace New	Replace Leased	Replace With	Replace Fuel Type	ESL Used (Mo)
Bus Std 35 FT	DF	144	\$0	FY 17-18	✓				48
Bus Std 35 FT	BD	144	\$0	FY 17-18	✓				48
Bus Std 35 FT	HD	144	\$0	FY 17-18	✓				48
Bus 30 FT	DF	120	\$0	FY 17-18	✓				48
Bus < 30 FT	DF	60	\$0	FY 17-18	✓				48

If you click the add an “Asset Subtype Rule” button, you will be able to create a new entry.

Figure 77 Add an Asset Subtype Rule Icon



Select or fill out each text box in the Add an Asset Subtype dialog box to create a new rule. Click the “Save” button when you are satisfied with your entries.

Figure 78 Add an Asset Subtype Rule Dialog

Add an Asset Subtype Rule

Replacement

Asset Subtype
New Subtype

New Asset Subtype Name

New Asset Subtype Description

* ESL (Mo) * Replacement Cost * Cost FY
0 \$ 0 FY 18-19 Replace With New
 Replace With Leased

Fuel Type * ESL (Mi) * ESL Used (Mo) Lease Length Months
0 0

Replace Asset Subtype Replace Fuel Type

* Purchase Replacement Code * Lease Replacement Code * Purchase Expansion Code * Lease Expansion Code

* Engineering Design Code * Rehabilitation Code

Save **Cancel**

Clicking the Edit icon will bring up a dialog box to modify an Asset Subtype Rule.

Figure 79 Modify Asset Subtype Rule

Modify Rule: Guideway: At-Grade

Replacement

* ESL (Mo) * Replacement Cost * Cost FY
1200 \$ 0 FY 18-19 Replace With New
 Replace With Leased

* ESL Used (Mo) Lease Length Months
0 0

* Purchase Replacement Code * Lease Replacement Code
12.22.06 12.26.06

* Engineering Design Code * Construction Code * Rehabilitation Code
12.21.06 12.23.06 12.24.06

Save **Cancel**

You also can choose to delete an asset subtype rule when the icon is displayed. You will be prompted with a dialog box before this action is taken!

Figure 80 Remove Asset Subtype Rule

Are you sure you want to remove this rule? The action cannot be undone!

Cancel **Yes**

6.2 TAM Policy

TAM Policies are used to set Useful Life Benchmark (ULB), Transit Economic Requirements Model (TERM), and Performance Measure Percent targets for asset categories on an annual basis. The TAM Policy will be used to conduct performance calculations for the NTD A-90 report. Ideally, TAM Policies should be set at the beginning of an NTD Reporting year (e.g., July–June, October–September, or January–December). Organizations can be grouped by a common characteristic, and policies can be distributed through the group.

The first step in the creation of a TAM Policy, is to Add a New Policy Year, followed by creating groups. These initial steps can only be completed on the Group Management tab, which is only accessible by users with the TAM Group Manager or Admin permission.

Figure 81 TAM Policy Group Management

Select a Policy Year that you wish to view and click the “View” button. If a Policy Year does not exist or you need to create a policy for a new year, click the “Add New Policy Year” button and select the TAM Policy year you wish to create. The Period will populate based on individual client reporting period, based on initial system configuration. Below the Policy Year Filter, Group Management is performed on the chosen Policy Year.

Figure 82 TAM Policy Year

If you select the “Add New Policy Year” button, a dialog box will appear and the year selection will default to the next available year. If there are no existing Policy Years, the current year will be available. If there is an existing Policy Year, you will have the option to Copy Groups From Previous Policy Year.

Figure 83 Add New TAM Policy Year

TAM Policy

Add New Policy Year

* Policy Year: 2022 Period: July - June

Copy Groups From Previous Policy Year

Yes No

Copying groups from the previous year, will save you the effort of recreating groups and performance measures

Save Cancel

Once a new year has been created or you filtered for an existing year, the Policy Year that you have chosen will display all available groups below. If you have created a new Policy Year, and did not copy from the previous year, you will need to create new groups.

Figure 84 Group Management Period and Year

Group Management : 2019 : July - June

Group Management by Period and Year

Group Name	TAM Group Lead	Organizations	Asset Categories	Status
test	Nicholas Baldwin	View	Revenue Vehicles Equipment Facilities	Distributed
Section 5310 TAM	Elizabeth Bonini	View	Revenue Vehicles Equipment Facilities	Distributed
Section 5311	Elizabeth Bonini	View	Revenue Vehicles Equipment Facilities	Distributed

You may click the “Add Group” button to add a new Group for that Policy Year.

Figure 85 Add Group Button

In order to create a new TAM Policy Group, you will name the group in Name and select the user that will be the TAM Group Lead. Next, select the applicable organizations to associate with the new TAM Group.

Figure 86 Add TAM Group Dialog

The screenshot shows the 'Add TAM Group' dialog box. It includes fields for 'Name' (with a placeholder 'TAM Group'), 'TAM Group Lead' (dropdown menu showing 'TAM Group Lead'), 'Organizations' (list box containing 'Amtrak Amtrak'), 'Asset Categories' (checkboxes for Revenue Vehicles, Equipment, Infrastructure, all of which are checked), and 'Save' and 'Cancel' buttons.

More than one organization can be selected by clicking in the Organization field. A dropdown will appear and you can select one or many organizations.

Select the Asset Categories you wish to include in the TAM Policy Group you are creating. Please note, the listed Asset Categories only appear upon selecting organizations and if those organizations have those asset categories saved within their inventory. Click "Save" when Satisfied with your selection.

Once the new group is created, the Status is set to Inactive. You have the option to edit, delete or Generate that Group. Click "Generate" when you are ready to proceed and you will notice that the group Status will change to In Development. Clicking the "Generate" button adds the group to the Group Metrics tab, so the assigned TAM Group Lead can start the process of setting performance measures and editing rules for all organizations within the group. The Group Management tab, is only viewable and editable by users with the TAM Group Manager or Admin permission, and TAM Group Leads who can only access groups to which they have been assigned.

Figure 87 TAM Group Mangement Status

The screenshot shows the 'Group Management' page for the year '2022 : July - June'. It lists two TAM Groups:

Group Name	TAM Group Lead	Organizations	Asset Categories	Status	Action Buttons
New Group	Lydia Chang	View	Revenue Vehicles Equipment Facilities	Inactive	 Generate
5311	Nicholas Baldwin	View	Revenue Vehicles Equipment Facilities	Distributed	Generate

Newly created and previously existing TAM Groups will appear in the Group Metrics tab of TAM Policy. Select the Policy Year and Group Name you wish to work with from the selection menu and click the "View" button.

Figure 88 TAM Policy Group Metrics

Capital Planning Tool (QA) 🔍 All ALIS 👤

Home > Policies > TAM Policy > Group Metrics ?

TAM Policy

Group Management Group Metrics Performance Measures

Filters

* Policy Year 2021 i	Period July - June	* Group Name New Group View
--	-----------------------	---

Select Policy Year, Group Name and click View

Metrics can be set for each asset category, by selecting the category you wish to edit in the Asset Category dropdown. Assets can be set to locked or editable. Locked assets cannot be changed in the Performance Measures tab for each organization within that group. If you leave any asset as editable, then each organization in that group can modify the metrics within the Performance Measures tab.

Figure 89 Editable and Locked Assets

Asset Category	Group Name	Group Status	Organizations	Copied From Previous Year
Revenue Vehicles	New Group	In Development	View	No
Revenue Vehicles				
Percentage of revenue vehicles that exceed the Useful Life Benchmark (ULB)				
Asset Class/Type	ULB	Editable/Locked	Goal Pcnt	Editable/Locked
AO-Automobile	8	Editable	0	Editable
BU-Bus	14	Editable	0	Locked
CU-Cutaway	10	Locked	0	Editable
OR-Other	0	Editable	0	Editable
SV-Sports Utility Vehicle	8	Editable	0	Locked
VN-Van	8	Locked	0	Editable

The TAM Policy Group Lead should edit Useful Life Benchmark (ULB), Goal Percent (Goal Pcnt), or other applicable asset metrics as necessary. Fields can be edited by clicking directly on the value in the field, and clicking the checkmark box. Editable/Locked toggles automatically save any changes made.

Figure 90 Asset Type Percentage Settings

Percentage of revenue vehicles that exceed the Useful Life Benchmark (ULB)				
Asset Class/Type	ULB	Editable/Locked	Goal Pcnt	Editable/Locked
AO-Automobile	8	Editable	0	Editable
BU-Bus	14	Editable	0	Locked
CU-Cutaway	10	Editable	0	Editable
OR-Other	0	Editable	0	Editable
SV-Sports Utility Vehicle	8	Editable	0	Locked
VN-Van	8	Locked	0	Editable

Once completed, click the “Distribute” button to push the group metrics over to the Performance Measures tab for each organization within the group. Each group within a Policy Year can be distributed on an individual basis. If all the Editable/Locked toggles were in a state of “Locked” for every asset within each

Asset Category for a group, the status for each organization's Performance Measures will automatically update to Active status. If at least one Editable/Locked toggle is in a state of "Editable," each organization will need to manually Activate the metrics on the Performance Measures tab.

Figure 91 Distribute TAM Policy

TAM Policy

Group Management Group Metrics Performance Measures

Filters

* Policy Year 2018	Period July - June	* Group Name New Group	View
-----------------------	-----------------------	---------------------------	----------------------

Group Metrics : 2018 : July - June : New Group

Distribute

Asset Category Group Name Group Status Organizations Copied From Previous Year

Revenue Vehicles	New Group	In Development	View	No
------------------	-----------	----------------	----------------------	----

Revenue Vehicles

Percentage of revenue vehicles that exceed the Useful Life Benchmark (ULB)

Asset Class/Type	ULB	Editable/Locked	Goal Pct	Editable/Locked
AO-Automobile	8	<input checked="" type="checkbox"/> Editable	10	<input checked="" type="checkbox"/> Editable
BU-Bus	14	<input checked="" type="checkbox"/> Editable	20	<input checked="" type="checkbox"/> Editable
CU-Cutaway	10	<input checked="" type="checkbox"/> Editable	25	<input checked="" type="checkbox"/> Editable
OR-Other	0	<input type="checkbox"/> Locked	10	<input type="checkbox"/> Locked
SV-Sports Utility Vehicle	8	<input checked="" type="checkbox"/> Editable	10	<input checked="" type="checkbox"/> Editable
VN-Van	8	<input checked="" type="checkbox"/> Editable	10	<input checked="" type="checkbox"/> Editable

Notice that the group that has been distributed shows Status: Distributed.

Figure 92 Distributed TAM Policy

Capital Planning Tool (QA) [Home](#) [Bus](#) [TERM](#) [\\$](#) [Metrics](#) [Help](#)

TAM Policy

Group Management Group Metrics Performance Measures

Filters

* Policy Year 2018	Period July - June	View
-----------------------	-----------------------	----------------------

+ Add New Policy Year

Group Management : 2018 : July - June

+ Add Group

Group Name	TAM Group Lead	Organizations	Asset Categories	Status
Group 5311	Elizabeth Bonini	View	Revenue Vehicles Equipment Facilities	In Development
Group 5310	Elizabeth Bonini	View	Revenue Vehicles Equipment Facilities	In Development
Example Group	Elizabeth Bonini	View	Revenue Vehicles Equipment Facilities	In Development
New Group	Lydia Chang	View	Revenue Vehicles Equipment Facilities	Distributed

Group Status

The Performance Measures tab will detail the Useful Life Benchmark, TERM value, and Goal Percent Values that have been distributed to each organization within the group. Individual organizations users will only be able to view or edit the Performance Measures tab, and only for organizations to which the user belongs.

Figure 93 TAM Policy Performance Measures

TAM Policy

Group Management Group Metrics **Performance Measures**

Performance Measures

Filters

* Policy Year: 2021 Period: July - June * Group Name: * Organization:

Performance Measures

TAM Groups for 2021 : July - June haven't been distributed yet.

To view an organizations Performance Measures, select the correct Policy Year, Group Name, and Organization and click the “View” button.

Figure 94 Policy Year Filters

Filters

* Policy Year: 2018 Period: July - June * Group Name: New Group * Organization: BCTA-Beaver County Transit Authority

Performance Measures : 2018 : July - June : New Group : BCTA

Activate

You can select the Asset Category that you wish to view by selecting from the Asset Category dropdown. You can adjust each ULB, TERM value (for Facilities only) or Goal Percent (Goal Pcnt) based on your organization's need. Any Asset Class/Type that is Locked will not be editable.

Figure 95 Asset Type Percentage Settings

Asset Category	Group Name	Agency Status
Revenue Vehicles	New Group	Pending Activation

Revenue Vehicles

Asset Class/Type	ULB	Editable/Locked	Goal Pcnt	Editable/Locked
AO-Automobile	8	Editable	10	Editable
BU-Bus	14	Editable	20	Editable
CU-Cutaway	10	Editable	25	Editable
OR-Other	0	Locked	10	Locked
SV-Sports Utility Vehicle	8	Editable	10	Editable

Select the “Activate” button when you are satisfied with the Performance Measures shown. If all of the Editable/Locked toggles were in a state of “Locked” for every asset within each Asset Category, you do not need to Activate the Performance Measures, as they changed to an Active status upon distribution to the Performance Measures tab.

Figure 96 Activate Performance Measures

TAM Policy

Group Management	Group Metrics	Performance Measures																									
<p>Filters</p> <table> <tr> <td>* Policy Year 2018</td> <td>Period July - June</td> <td>* Group Name New Group</td> <td>* Organization BCTA-Beaver County Transit Authority</td> <td>View</td> </tr> <tr> <td colspan="5">Performance Measures : 2018 : July - June : New Group : BCTA</td> </tr> <tr> <td>Asset Category Facilities</td> <td>Group Name New Group</td> <td>Agency Status Pending Activation</td> <td colspan="2"> <input type="button" value="Activate"/> <div style="background-color: orange; border-radius: 10px; padding: 5px; display: inline-block;"> Activate Button  </div> </td> </tr> <tr> <td>Asset Class/Type Passenger</td> <td>TERM 3</td> <td>Editable/Locked <input checked="" type="checkbox"/></td> <td>Goal Pcnt 0</td> <td><input type="button" value="Editable"/></td> </tr> <tr> <td>Parking</td> <td>3</td> <td><input checked="" type="checkbox"/></td> <td>0</td> <td><input type="button" value="Editable"/></td> </tr> </table>			* Policy Year 2018	Period July - June	* Group Name New Group	* Organization BCTA-Beaver County Transit Authority	View	Performance Measures : 2018 : July - June : New Group : BCTA					Asset Category Facilities	Group Name New Group	Agency Status Pending Activation	<input type="button" value="Activate"/> <div style="background-color: orange; border-radius: 10px; padding: 5px; display: inline-block;"> Activate Button  </div>		Asset Class/Type Passenger	TERM 3	Editable/Locked <input checked="" type="checkbox"/>	Goal Pcnt 0	<input type="button" value="Editable"/>	Parking	3	<input checked="" type="checkbox"/>	0	<input type="button" value="Editable"/>
* Policy Year 2018	Period July - June	* Group Name New Group	* Organization BCTA-Beaver County Transit Authority	View																							
Performance Measures : 2018 : July - June : New Group : BCTA																											
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Asset Class/Type Passenger	TERM 3	Editable/Locked <input checked="" type="checkbox"/>	Goal Pcnt 0	<input type="button" value="Editable"/>																							
Parking	3	<input checked="" type="checkbox"/>	0	<input type="button" value="Editable"/>																							

7.0 Projects

An organization creates a capital project when they want to replace their assets or expand their inventory. Each capital project is composed of one or more building blocks, referred to as Activity Line Items (ALI), and is associated with one or more fiscal years. To frame it differently, ALIs should be considered a funding request for a project and each project can have one or more funding requests in a single year or across multiple years. A Capital Project generally falls into one of two categories:

- Projects that use the Asset Replacement/Rehabilitation policy information to replace existing assets to keep assets in a state of good repair. These are known as State of Good Repair (SOGR) projects.
- Projects that acquire new assets that enable you to provide new or expanded services or accomplish new business functions.

All projects created in the system will be listed in the Capital Projects table.

The SOGR projects will automatically be generated by running the State of Good Repair Project Analyzer, which is covered in the project planning section, so we'll quickly review how to create a new capital project manually.

Figure 97 Capital Projects Table

Capital Projects

Plan Summary		Capital Needs Chart																				
		FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	FY 24-25	FY 25-26	FY 26-27	FY 27-28	FY 28-29	FY 29-30									
\$956,840,985		\$333,276,552		\$108,838,201		\$78,408,870		\$125,370,978		\$179,853,327		\$188,491,652		\$100,343,480		\$256,308,134		\$169,519,292		\$406,353,547		\$180,491,802
+ New Capital Project																						
Agency	FY	Project	Scope	Emgcy	SOGR	Shadow	Multi Year	Type	Title	Cost	State	Federal	Local	Total								
ACTS	18-19	ACTS 18-19 #3990	111	✓				R	Bus: Revenue Rolling Stock: Purchase - Replacement project	\$204,000	\$0	\$0	\$0	\$0 ⓘ								
								E	Mobile Vehicle Lifts	\$26,000	\$0	\$0	\$0	\$0 ⓘ								
								R	Bus: Support Facilities and Equipment: Acquisition project	\$139,500	\$146	\$0	\$4,647	\$4,793 ⓘ								
								R	Bus: Station Stops/Terminals: Acquisition project	\$23,500	\$0	\$0	\$784	\$784 ⓘ								
AMTRAN	FY 18-19	AMTRAN 18-19 #5680	111					I	VOH of Hybrid Electric Gilligs	\$975,000	\$0	\$0	\$32,497	\$32,497 ⓘ								
AMTRAN	FY 18-19	AMTRAN 18-19 #5681	114					I	Admin Building Security Upgrades	\$25,000	\$0	\$20,000	\$167	\$20,167 ⓘ								
AMTRAN	FY 18-19	AMTRAN 18-19 #5907	111					R	test	\$124,100	\$0	\$0	\$0	\$0 ⓘ								

Clicking new capital project will bring you to the new project interface.

Figure 98 New Capital Project

New Capital Project

* Organization

* Title
Enter a title for this project...
64 characters remaining

Project Locations
PennDOT District 1 (District)
PennDOT District 2 (District)
PennDOT District 3 (District)
PennDOT District 4 (District)

* Fiscal Year
FY 18-19

* Scope

* Project Type
Replacement

Emergency project
 Multi year project

* Description
254 characters remaining

* Justification
254 characters remaining

Filling in the required information will bring you to the capital projects detail screen, where you can see detailed information about a capital project and add ALIs and other details.

Figure 99 Capital Project Details

Capital Planning Tool (QA)       1

Home > Capital Projects > AMTRAN 18-19 #6087

Capital Project AMTRAN 18-19 #6087 was successfully created.

test		Actions	Description	Activity Line Items 0	Supporting Documents 0	Comments 0
Project Number	AMTRAN 18-19 #6087		Project Description			
Fiscal Year	FY 18-19		test			
Scope	125		Justification			
Total Cost	\$0					
Type	Replace					
SOGR	No					
Shadow	No					
Multi year	No					
Emergency	No					
Project Locations Senate District 30 (Senate)						

Edit Capital Project Details
 Capital Project Additional Details

For manually created capital projects, you can add ALIs from the capital project details screen. Click the “Activity Line Items” tab in the additional details, then click the “Add Line Item” button.

Figure 100 Add an ALI

The screenshot shows the Capital Planning Tool (QA) interface. At the top, there's a navigation bar with icons for Home, Projects, Reports, Budget, and Dashboards. Below it, a breadcrumb trail shows 'Home > Capital Projects > AMTRAN 18-19 #6126'. A green message box says 'Capital Project AMTRAN 18-19 #6126 was successfully created.' On the left, a 'Manual Capital Project' card displays project details: Project Number AMTRAN 18-19 #6126, Fiscal Year FY 18-19, Scope 111, and Total Cost \$0. To the right, there are tabs for Description, Activity Line Items (with a count of 0), Supporting Documents (0), and Comments (0). A large orange arrow points from the text 'From the window that appears, you can specify ALI details.' to the '+ Add Line Item' button in the 'Activity Line Items' section.

From the window that appears, you can specify ALI details.

Figure 101 Add an ALI Details

This screenshot shows the 'New Activity Line Item' dialog box for project AMTRAN 18-19 #6126. The dialog contains several input fields: 'Category' (dropdown), 'TEAM ALI Code' (dropdown), 'Cost Estimate' (\$0), 'Fiscal Year' (FY 18-19), 'Replace with New' (radio buttons for Yes or No), 'Count' (dropdown), 'Fuel Type' (dropdown), 'Length' (dropdown), and 'Name' (text input field). At the bottom are 'Create Activity Line Item' and 'Cancel' buttons. The background shows the same Capital Planning Tool interface as Figure 100, with the 'Activity Line Items' tab selected and a message about a successful project creation.

Add the required details, then click “Add Activity Line item” to finalize. All manually created projects will automatically appear on the Project Planner.

8.0 Project Planning

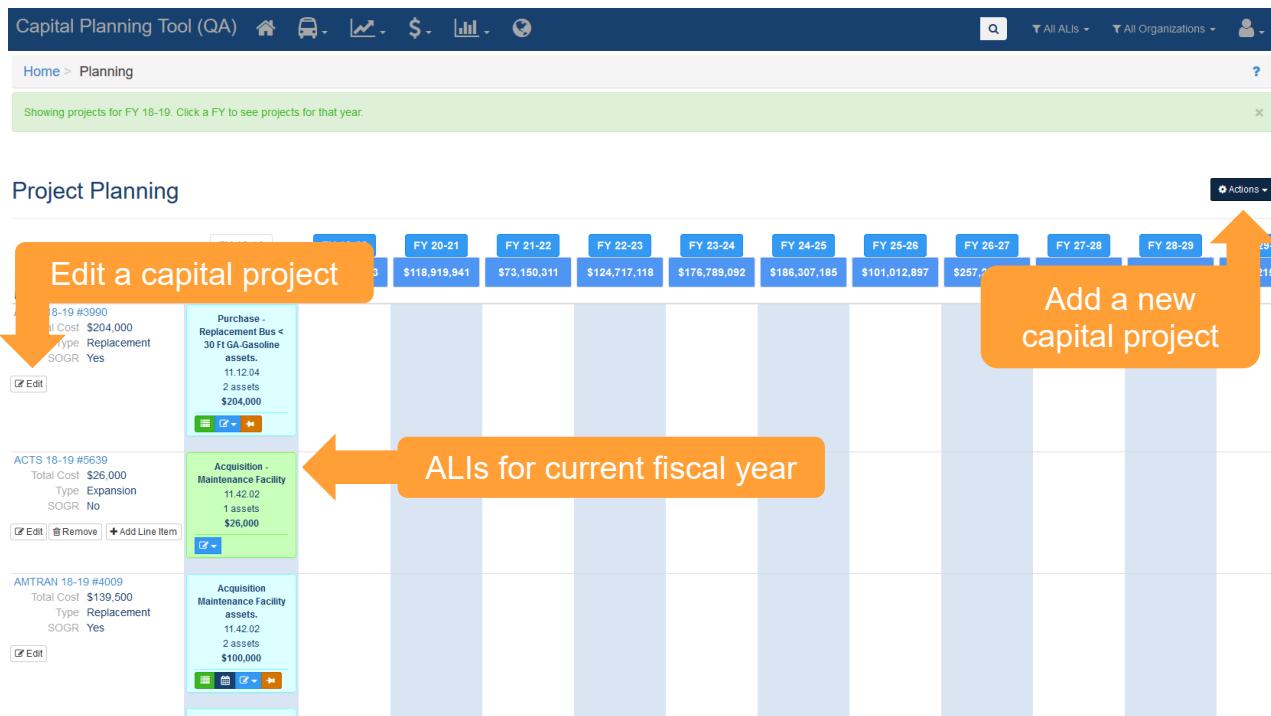
8.1 Project Planner

The project planner is a single interface to perform project and funding request (ALI) prioritization for a multiyear horizon, functioning as a decision support tool. The project planner allows individual organizations to manage their own projects and ALI requests, while parent organizations can view data for all associated child agencies. Users can view and edit projects and ALIs in one view and reallocate assets and ALIs as needed in an interactive table.

Different project types are identified by the color of the ALI. SOGR projects are blue in color, and manually created capital projects are green in color. Shadow projects are projects that are meant to replace an SOGR project that is listed in an earlier year within the timeframe of the project planner (e.g., scheduling replacement of assets that currently are scheduled to be replaced); these ALIs are purple in color.

Users can filter ALIs for different years by clicking at the top of each column to bring the corresponding ALIs for that year to the top of the page. Users also can add a new manual capital project directly from the project planner as well as edit existing projects by clicking on the “Edit” button on the left-hand side of the planner.

Figure 102 Project Planner Interface



Both projects and ALIs within projects can be modified using multiple methods.

Manually created capital projects can be removed completely and can have additional ALIs added. These actions can be completed by clicking on the “Remove” button or the Add Line Item button on the left-hand side of the planner. ALI details can be viewed or edited by clicking on the icons within each ALI that is included as part of a manually created project.

Figure 103 Edit Manually Created Capital Projects

The screenshot shows the TransAM Capital Planning Tool interface. At the top, there's a navigation bar with links for Home, Planning, and search functions. Below the navigation is a message: "Showing projects for FY 18-19. Click a FY to see projects for that year." The main area is titled "Project Planning". It features a grid where each row represents a project and each column represents a fiscal year from FY 18-19 to FY 29-30. The first project in the grid is highlighted with a blue background and contains detailed information: "ACTS 18-19 #3990", "Total Cost: \$204,000", "Type: Replacement", and "SOGR: Yes". To the right of this project, a callout box with an orange border contains the text "Remove a project or add an ALI". Below this project, there are two more entries: "ACTS 18-19 #1999" and "AMTRAN 18-19 #4009", each with their own set of details and edit/remove buttons. To the right of these entries, another callout box with an orange border contains the text "Edit ALI cost, milestones, view funding data, or remove an ALI". The interface uses a light blue color scheme for the grid rows and a white background for the overall page.

SOGR projects and ALIs include buttons and icons providing users the ability to view assets associated with the SOGR projects, remove the assets from the ALI or move the associated assets to a different year, edit cost, update milestones, view funding information and pin an ALI to the project planner. Pinning an ALI allows users to rerun the SOGR Capital Project Analyzer, without altering any of the details of the pinned ALI.

Figure 104 Edit SOGR Capital Projects

Project

ACTS 18-19 #3990

- Total Cost \$204,000
- Type Replacement
- SOGR Yes

Purchase - Replacement Bus < 30 Ft GA-Gasoline assets.

- 11.12.04
- 2 assets
- \$204,000

Maintenance Facility

- 11.42.02
- 1 assets
- \$26,000

AMTRAN 18-19 #4009

- Total Cost \$139,500
- Type Replacement
- SOGR Yes

Acquisition Maintenance Facility assets.

- 11.42.02
- 2 assets
- \$100,000

Edit ALI assets, update cost, milestones, view funding data, remove an ALI and pin ALIs

All projects in the project planner can be prioritized by moving ALIs to different years within the project planner, which can be achieved by using the drag and drop method. Prioritization of projects also can be achieved by removing or moving assets within an ALI to different years.

Figure 105 Prioritize Projects
Move ALIs to Different Years

Capital Planning Tool (QA)

	FY 18-19	FY 19-20	FY 20-21	FY 21-22	FY 22-23	FY 23-24	FY 24-25	FY 25-26	FY 26-27	FY 27-28	FY 28-29	FY 29-30
Project	\$833,519,020	\$308,302,216	\$116,603,350	\$78,344,343	\$126,448,962	\$179,162,099	\$181,436,144	\$100,488,208	\$267,268,514	\$175,681,481	\$394,858,694	\$197,505,958
ACTS 22-23 #6022	Total Cost \$660,407	Type Replacement	SOGR Yes									
AMTRAN 22-23 #4019	Total Cost \$41,056	Type Replacement	SOGR Yes									
AMTRAN 22-23 #4026	Total Cost \$796	Type Replacement	SOGR Yes									

Purchase - Replacement Bus < 30 Ft GA-Gasoline assets

- 11.12.04
- 2 assets
- \$660,407 (e)

Acquisition Shop Equipment assets.

- 11.42.06
- 3 assets
- \$7,387 (e)

Acquisition ADP Software assets

- 11.42.08
- 2 assets
- \$1,074 (e)

Acquisition Miscellaneous Equipment assets.

- 11.42.20
- 5 assets
- \$31,695 (e)

Acquisition Surveillance/Security Systems assets

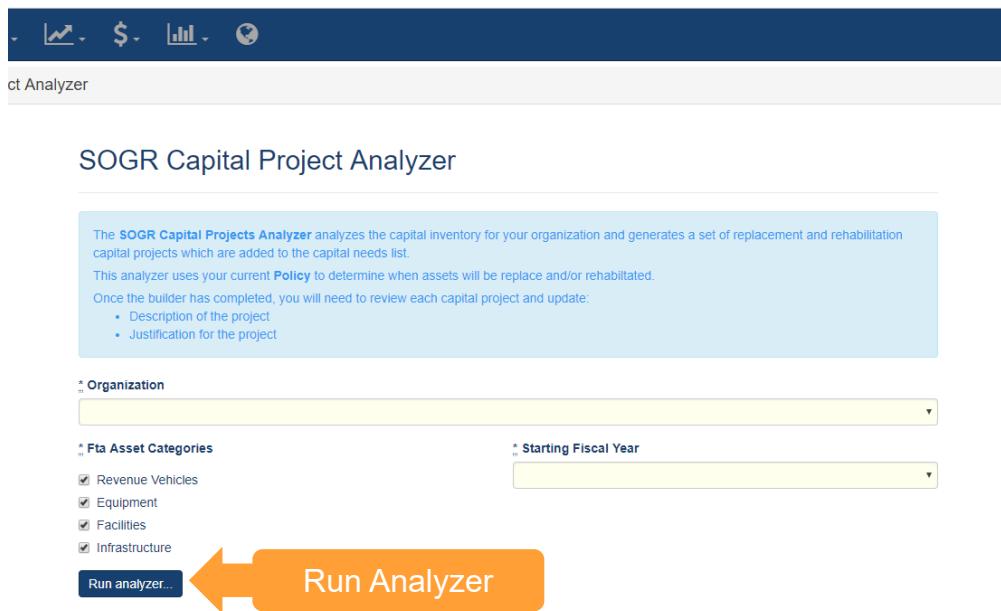
- 11.32.07
- 1 assets
- \$100 (e)

Move to FY 26-27

8.2 State of Good Repair (SOGR) Capital Project Analyzer

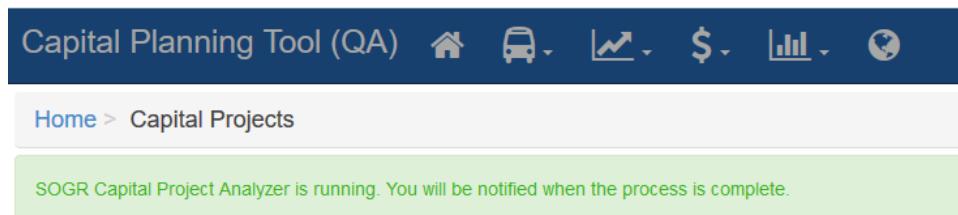
Each organization defines an Asset Replacement and Rehabilitation Policy that indicates the service life and replacement standards to be used for each type of asset. The State of Good Repair (SOGR) Capital Project Analyzer evaluates your organization's asset inventory against this policy and generates a set of replacement capital projects for a 12-year planning horizon. Before you run the analyzer, you can select which organization, what asset categories, and what year should serve as the starting year for project creation.

Figure 106 Running SOGR Capital Project Analyzer



Clicking “Run Analyzer” will begin the SOGR job which will run in the background and you’ll be redirected to the Capital Projects page. The system will provide a notification (in your notifications drawer at the top of the screen) when complete.

Figure 107 SOGR Capital Project Analyzer Processing



9.0 Funding

Organizations can establish and manage pools of funds, through the creation and management of Programs, Templates, and Buckets. You can allocate these funds to projects (or, more accurately, to ALIs) to develop a long-term funding plan and see where additional funds might be needed.

When working with a parent organization that administers funds (like a State DOT or planning partner), you can collaborate to ensure that Federal, State, and Local funds are used in the best way possible to meet your needs.

There are many types of funds available, including formula and discretionary funds, funds that are only available to certain organizations or for certain purposes, and funds that are controlled or administered by one organization on behalf of another. Funds are generally identified by the name of the funding program and the year in which the funds were, or will be, granted. For each fund, the system tracks the dollar amount that is available, the dollar amount that has been committed to future projects, and the remaining balance.

If you work for an organization, some funds will be made available to you by a parent organization (depending on your system configuration). In addition, you can add local funds to pay for a specific project or group of assets you intend to purchase.

9.1 Programs

Programs are different types of funding programs which address specific sets of needs and/or objectives. You can see available programs from the Funding dropdown. All funding programs are categorized into an appropriate Source, such as: Federal, State, and Local. New programs can be added by selecting the “Add Funding Program” link.

Figure 108 Programs

The screenshot shows the Capital Planning Tool (QA) interface. At the top, there's a navigation bar with icons for Home, Budgets, Grants, Bond Requests, Status, Import/Export, and a search bar. Below the navigation bar, the page title is "Home > Funding Programs > All". On the left, there's a sidebar with a "Programs" section. The main content area displays a table titled "Available Funding Programs" with three rows of data. The columns include: PROGRAM NAME, FULL NAME, SOURCE, INFLATIO..., LIFE OF \$ (...), % MATCH, VALID FROM, VALID TO, CREATED BY, PROGRAM..., and ACTIONS. The first row shows "1514 Bond 1" with values like "0.00%", "96.77%", and "BPT Active". The second row shows "1514 Discretionary 1" with similar values. The third row shows "1516 1" with values like "100.00%" and "BPT Active". Each row has a set of edit and delete icons in the ACTIONS column.

PROGRAM NAME	FULL NAME	SOURCE	INFLATIO...	LIFE OF \$ (...)	% MATCH	VALID FROM	VALID TO	CREATED BY	PROGRAM...	ACTIONS
1514 Bond 1			0.00%		96.77%			BPT	Active	
1514 Discretionary 1					96.77%			BPT	Active	
1516 1					100.00%			BPT	Active	

Clicking on an individual program will give you specific details about that program, like Grants and Assets associated with that program.

Figure 109 Funding Program Details

The screenshot shows a web-based application interface for the Capital Planning Tool (QA). At the top, there's a navigation bar with icons for Home, Funding Programs, and a search function. Below the navigation, the title '1514 Bond' is displayed. The main content area is titled 'Details' and contains several tabs: Details (selected), Templates, Grants, Assets, Documents, and Comments. Under the 'Details' tab, there's a section for 'Program Eligibility' which lists 'BPT', 'ACTS', 'Amtrak', 'ATA', and 'BCT'. An orange callout bubble with the text 'Additional Program Information' points to this section. Other sections visible include 'Description' (Asset Improvement Program - Bond), 'Details', 'Type', 'Formula', 'Source', 'State', and 'Life of \$'. A vertical scrollbar is on the right side of the page.

10.0 Reports

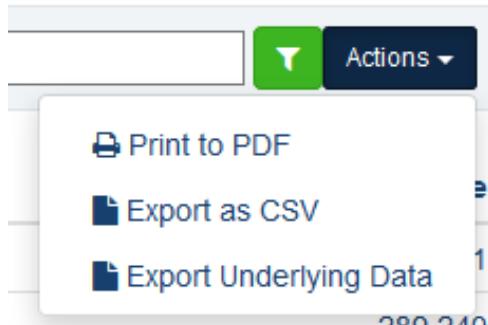
A variety of preconfigured (canned) reports can be generated, ranging in topic areas from Inventory, Capital Needs, System Reports, and Planning.

Figure 110 Reports Dropdown

The screenshot shows the Capital Planning Tool (QA) interface. At the top, there is a navigation bar with icons for Home, Asset Summary, and various reports. A dropdown menu labeled "Reports" is open, showing options like "Capital Needs Reports", "System Reports", and "Planning Reports". An orange arrow points from the text "Reports Dropdown" to this menu. Below the dropdown, there is a table titled "Asset Summary" with columns for Type, Avg. Age, Count, Cost, and Book Value. The table lists three types of assets: ACTS Revenue Vehicles, ACTS Support Facilities, and AMTRAN Revenue Vehicles, along with their respective statistics. To the right of the table, there is a section for "Num. Projects" and "Cost" with values 2, \$85,768; 5, \$1,303,984; and 11, \$2,156,774.

Reports can be exported into multiple file formats for distribution or further analysis. In the top right corner of each report, look for the Actions menu for available download links.

Figure 111 Report Exports

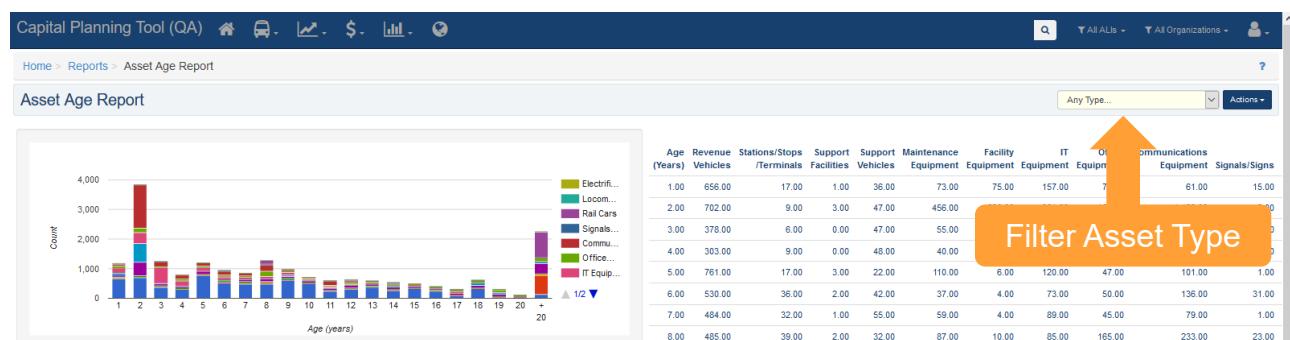


10.1 Inventory Reports

Inventory reports are a rollup of inventory data and include the Asset Age Report and the Asset Funding Report.

Asset Age Report—The Asset Age Report displays the count of assets of different types for a range of asset ages (one year old, two years old, etc.). The report can filter data by Asset Type.

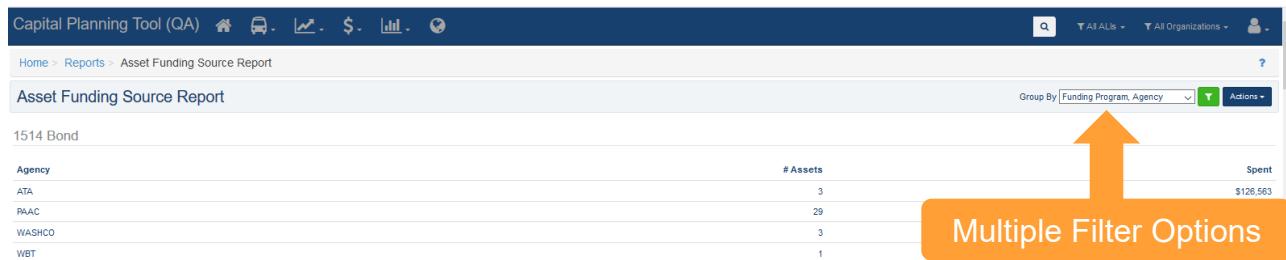
Figure 112 Asset Age Report



The Asset Funding Source Report computes for every funding program, organization (agency), and fiscal year, the number of assets that were purchased using a particular funding program as well as the cost associated with that particular funding program. Drill-down functionality allows the user to see the exact lists of assets, and the dollars spent on each asset for that funding source. Multiple filtering options are available, providing the ability to filter by multiple combinations of data:

- Agency, Funding Program.
- Agency, Funding Program, Fiscal Year.
- Funding Program, Agency.
- Funding Program, Agency, Fiscal Year.
- Funding Program, Fiscal Year.
- Funding Program, FY, Agency.
- FY, Funding Program.
- FY, Funding Program, Agency.

Figure 113 Asset Funding Source Report



10.2 Capital Needs Reports

Capital Needs Reports are rollups of information about different projects, ALIs and funding.

The Unconstrained Capital Projects Report is a collection of unconstrained capital projects associated with individual organizations. This report can be filtered by fiscal year, emergency versus nonemergency, multi or single-year, and method of creation.

Figure 114 Unconstrained Capital Projects Report

The screenshot shows a report titled "Unconstrained Capital Projects Report" under the "Reports" section. The table has columns for Org (Organization), Count (number of projects), and Cost (total cost). An orange arrow points from the top right towards the table, with the text "Filter by several strata" inside a callout bubble.

Org	Count	Cost
ACTS	14	\$3,384,907
AMTRAN	47	\$13,274,188
ATA	34	\$44,042,171

The Need versus Funding Statewide Report shows the total project-based needs by fiscal year versus available funding, broken out by funding program.

Figure 115 Need versus Funding Statewide Report

The screenshot shows a report titled "Needs Versus Funding Statewide Report" under the "Reports" section. The table has columns for Fiscal Year, Total Needs, Total Federal Funds, Total State Funds, Total Local Funds, and Balance/(Shortfall). An orange arrow points from the top right towards the table, with the text "Filter by several strata" inside a callout bubble.

Fiscal Year	Total Needs	Total Federal Funds	Total State Funds	Total Local Funds	Balance/(Shortfall)
FY 18-19	\$946,477,219	\$61,129,001	\$1,373,127,978	\$2,202,000	\$489,981,760
FY 19-20	\$335,781,113	\$10,284,000	\$0	\$0	-\$325,497,113
FY 20-21	\$118,919,941	\$9,343,000	\$0	\$24,975	-\$109,551,966
FY 21-22	\$73,150,311	\$8,383,000	\$0	\$0	-\$64,767,311
FY 22-23	\$124,717,118	\$0	\$0	\$0	-\$124,717,118
FY 23-24	\$176,789,092	\$0	\$0	\$0	-\$176,789,092
FY 24-25	\$186,307,185	\$0	\$0	\$0	-\$186,307,185
FY 25-26	\$101,012,897	\$0	\$0	\$0	-\$101,012,897
FY 26-27	\$257,203,755	\$0	\$0	\$0	-\$257,203,755
FY 27-28	\$174,267,299	\$0	\$0	\$0	-\$174,267,299
FY 28-29	\$396,952,612	\$0	\$0	\$0	-\$396,952,612
FY 29-30	\$190,215,433	\$0	\$0	\$0	-\$190,215,433

The ALI Funding Report displays a summary of funded ALIs. The user selects the level that they would like to group columns by (By Year, By Organization (agency), By Scope, and Split SOGR), and the system reports on the number of ALIs, number of Assets, ALI Cost, Allocated Funding (Funded), and the Balance for the selected level of grouping.

Figure 116 ALI Funding Report

The screenshot shows a report titled "ALI Funding Report" under the "Reports" section. The table has columns for Year, Agency, # ALIs, # Assets, Cost, Funded, and Balance. An orange arrow points from the top right towards the table, with the text "Group Column" inside a callout bubble.

Year	Agency	# ALIs	# Assets	Cost	Funded	Balance
FY 18-19	ACTS	2	2	\$145,536	\$0	\$145,536
FY 18-19	AMTRAN	7	36	\$1,008,021		
FY 18-19	ATA	14	16	\$2,071,957		
FY 18-19	BARTA	5	26	\$2,008,553		
FY 18-19	BCT	7	43	\$1,843,909	\$0	\$1,843,909
FY 18-19	BCTA	4	7	\$236,000	\$0	\$236,000
FY 18-19	BSS	2	6	\$530,578	\$0	\$530,578
FY 18-19	BTA	4	4	\$4,663,357	\$19,800	\$4,643,557

The Capital Plan Report shows funded projects, and ALIs for a filtered range of years, providing a breakdown by Federal, State, and Local funding sources. The report groups data by organization, fiscal year and displays one project per row and one project attribute per column.

Figure 117 Capital Plan Report

Capital Planning Tool (QA) Home Reports Capital Plan Report ?

Capital Plan Report

From FY 18-19 To FY 18-19 Actions ▼

Allied Coordinated Transportation Services, Inc.

FY	Project	Title	Scope	# ALIs
FY 18-19	ACTS 18-19 #3990	Bus: Revenue Rolling Stock: Purchase - Replacement project	111	1
FY 18-19	ACTS 18-19 #5639	Mobile Vehicle Lifts	114	1
Totals for FY 18-19			2	\$145,536
			\$0	\$0
			\$0	\$0

Filter Year Range

The Bond Request Report finds and displays all "Pending" and "Submitted" bond requests whose statuses were last updated between a user-defined start and end date.

Figure 118 Bond Request Report

Capital Planning Tool (QA) Home Reports Bond Request Report ?

Bond Request Report

From To Actions ▼

Agency	Title	Description	Justification	Total Costs	Federal Funding	Federal Share	Federal Source	State Amount Requested	Status	Local Funding	Local Share
Altoona Metro Transit	Test Bond	This is a test bond.	We need to buy a bus.	\$40,000	\$165,332	80%	5307 Large Urban	\$40,000	19%	\$1,333	1%

Filter Year

10.3 System Reports

System reports keep track of system-related functional metrics.

The User Login Report keeps track of users, the number of logins made, and the previous login of each user.

Figure 119 User Login Report

Capital Planning Tool (QA) Home Reports User Login Report ?

User Login Report

Actions ▼

Org	First Name	Last Name	Num Logins	Last Login	Acct Locked On
BPT	Aaron	Wolff	276	01:36 PM 06/25/2018	
BPT	Andrew	Batson	72	02:03 PM 05/04/2018	
BPT	Anthony	Stever	163	10:01 AM 05/29/2018	
BPT	April	Fosmore	9	07:49 AM 10/19/2016	
BPT	BPT	User	4	02:11 PM 03/04/2016	
BPT	Colton	Brown	208	02:59 PM 06/20/2018	
BPT	Elizabeth	Bonini	311	03:28 PM 07/17/2018	
BPT	Eric	Ziering	20	11:38 AM 06/01/2015	
BPT	Ernie	Shank	183	03:53 PM 06/20/2018	
RPT	Ian	Detamore	13	09:49 AM 06/15/2018	

The Issues Report keeps a log of reported issues within TransAM and the status of any submitted issues.

Figure 120 Issues Report

The screenshot shows the Capital Planning Tool (QA) interface with the 'Reports' tab selected. Under 'Issues Report', there is a table listing three issues. The columns include Organization, Type, Date/Time, Comments, Browser Type, First Name, Last Name, Phone, Issue Status, and Resolution Comments.

ORGANIZATION	TYPE	DATE/TIME	COMMENTS	BROWSER TYPE	FIRST NAME	LAST NAME	PHONE	ISSUE_STATUS	RESOLUTION_COMMENTS
BPT	Bug	2015-06-10 19:20:41 UTC	When exporting vehicle information from the asset inventory to Excel, fields that have a symbol or check mark are blank in excel. For example, I selected 40ft vehicles and selected/deselected columns. When I exported to Excel, the ADA field (which was displayed as check marks in CPT) is blank for each asset.	Microsoft IE 11	Stephen	Panko	9,999,999,999.00	Open	
BPT	Bug	2015-06-12 16:46:05 UTC	On Wednesday June 10th Dana Moyer from STS reached out to me to request help updating the mileages for all of her vehicles. She said the every month they try to update the mileages for all of her vehicles and so I suggested she do a bulk/mass upload to make it easier. However, when we tried to download an inventory template we both were unable to do this (I ran into the "Oops... there was an error" screen* but I'm not sure what Dana got) Shortly after I got off the phone with Dana I logged in to production and I was able to download the template. However, I haven't been able to get a hold of Dana since our discussion on Wednesday to see if it worked for her. I will keep trying to reach out to her to see if it she is able to download the template and do the mass upload thereafter.	Google Chrome	Patrick	Sosik	9,999,999,999.00	Open	
BPT	Bug	2015-06-19 11:42:17 UTC	Jeff Gilsson of SCTA is attempting to add assets and getting the "Ooops Error 500 Application Error" From Jeff. "Yesterday and today for a couple of times, I have been unable to use the CPT to add the information on the two minivans. I logged in... clicked on Add Assets under inventory... clicked on Van Asset Type... clicked on Create New Asset... and received the attached error message.*	Microsoft IE 11	Kyle	Eckert	717-772-5614	Open	

10.4 Planning Reports

Planning Reports are reports that analyze asset-based data such as state of good repair, asset status, and metrics related to service life goals and performance.

The Vehicle Replacement Report finds and displays summary data for all revenue vehicles that are scheduled to be replaced within a fiscal year.

Figure 121 Vehicle Replacement Report

The screenshot shows the Capital Planning Tool (QA) interface with the 'Reports' tab selected. Under 'Vehicle Replacement Report', there is a table titled 'All Transit Operators' showing vehicle replacement data for the fiscal year FY 18-19. The columns include Fiscal Year, Type, Sub Type, Count, Book Value, and Replacement Cost.

Fiscal Year	Type	Sub Type	Count	Book Value	Replacement Cost
FY 18-19	Revenue Vehicles	Bus < 30 FT	472	\$3,881,401	\$34,064,976
FY 18-19	Revenue Vehicles	Bus 30 FT	18	\$972,478	\$4,088,775
FY 18-19	Revenue Vehicles	Van	189	\$332,474	\$7,668,659
FY 18-19	Revenue Vehicles	Sedan/Station Wagon	75	\$72,267	\$1,222,056
FY 18-19	Revenue Vehicles	Bus Std 35 FT	34	\$973,510	\$7,994,757
FY 18-19	Revenue Vehicles	Bus Std 40 FT	394	\$2,909,526	\$42,884,133
Totals for FY 18-19			1,182	\$9,141,656	\$97,923,356

The State of Good Repair Report finds and displays summary data for all asset subtypes that are scheduled to be replaced across all planning years. The report is the same as the Vehicle Replacement Report except it is not limited to revenue vehicles and rolls up values across all planning years.

Figure 122 State of Good Repair Report

The screenshot shows the TransAM Capital Planning Tool interface. The top navigation bar includes links for Home, Reports, and State of Good Repair Report. The main content area is titled "State of Good Repair Report" and displays a table titled "State of Good Repair: All Transit Agencies". The table has columns for Type, Sub Type, Count, Book Value, and Replacement Cost. Data rows include Revenue Vehicles (Bus Std 35 FT, Bus 30 FT), Stations/Stops/Terminals (Intermodal Terminal, Parking Lot), Support Facilities (Bus Maintenance Facility, Other Support Facility), Support Vehicles (Van, Sedan/Station Wagon, Pickup Truck).

Type	Sub Type	Count	Book Value	Replacement Cost
Revenue Vehicles	Bus Std 35 FT	27	\$2,212,738	\$5,739,747
Revenue Vehicles	Bus 30 FT	9	\$346,100	\$2,778,851
Stations/Stops/Terminals	Intermodal Terminal	74	\$19,143,700	\$27,574,857
Stations/Stops/Terminals	Parking Lot	2	\$11,687	\$68,854
Support Facilities	Bus Maintenance Facility	3	\$0	\$1,263,373
Support Facilities	Other Support Facility	2	\$1,108,902	\$2,000,520
Support Vehicles	Van	1	\$6,721	\$23,167
Support Vehicles	Sedan/Station Wagon	8	\$80,472	\$233,815
Support Vehicles	Pickup Truck	2	\$12,552	\$99,178

The Disposition Report finds and displays summary data for all asset subtypes that are scheduled to meet their Estimated Service Life within a particular fiscal year and are ready to be disposed.

Figure 123 Disposition Report

The screenshot shows the TransAM Capital Planning Tool interface. The top navigation bar includes links for Home, Reports, and Disposition Report. The main content area is titled "Disposition Report" and displays a table titled "All Transit Operators". The table has columns for Fiscal Year, Type, Sub Type, Count, Book Value, and Replacement Cost. Data rows include Revenue Vehicles (Bus Std 35 FT, Bus 30 FT), Maintenance Equipment, Revenue Vehicles (Bus < 30 FT), Revenue Vehicles (Bus Commuter/Suburban), IT Equipment, Office Equipment, and Revenue Vehicles (Van). A summary row at the bottom shows Totals for FY 17-18.

Fiscal Year	Type	Sub Type	Count	Book Value	Replacement Cost
FY 17-18	Revenue Vehicles	Bus Std 35 FT	18	\$466,409	\$2,943,866
FY 17-18	Revenue Vehicles	Bus 30 FT	7	\$302,308	\$2,166,361
FY 17-18	Maintenance Equipment	Bus Maintenance Equipment	73	\$217,175	\$2,454,801
FY 17-18	Revenue Vehicles	Bus < 30 FT	20	\$57,253	\$1,335,937
FY 17-18	Revenue Vehicles	Bus Commuter/Suburban	8	\$738,880	\$4,493,528
FY 17-18	IT Equipment	Hardware	1	\$0	\$4,591
FY 17-18	Office Equipment	Other Office Equipment	1	\$0	\$5,399
FY 17-18	Revenue Vehicles	Van	4	\$0	\$67,021
Totals for FY 17-18			132	\$1,782,025	\$13,471,504

The Asset Service Life Summary Report displays all asset categories, listed by subtype, and calculates the quantity and percentage of assets that are past their Estimated Service Life in month, miles, and the quantity and percentage that have fallen below the TERM threshold as set in the Asset Replacement/Rehabilitation Policy. Data can be filtered by Asset Category, and by a minimum and maximum range in months of assets beyond their Estimated Service Life. A drill-down of data is provided on an organization-level basis, while the table, and the underlying data used to make the calculations can be exported as well.

Figure 124 Asset Service Life Summary Report

The screenshot shows the TransAM Capital Planning Tool interface. The top navigation bar includes links for Home, Reports, and Asset Service Life Summary Report. The main content area is titled "Asset Service Life Summary Report" and displays a table. At the top, there are filters for Asset Type (Revenue Vehicles), Months Past ESL Min (1), Months Past ESL Max, and Actions. The table has columns for Organization, Subtype, Quantity, # Past ESL (Mo.), Pcnt, # Past ESL (Mi.), Pcnt, # Past TERM Thresh, and Pcnt. Data rows include All (Filtered) Organizations (Bus < 30 FT, Bus 30 FT, Bus Commuter/Suburban).

Organization	Subtype	Quantity	# Past ESL (Mo.)	Pcnt	# Past ESL (Mi.)	Pcnt	# Past TERM Thresh	Pcnt
All (Filtered) Organizations	Bus < 30 FT	123	55	45%	29	24%		
All (Filtered) Organizations	Bus 30 FT	9	6	67%	9	100%		
All (Filtered) Organizations	Bus Commuter/Suburban	14	0	0%	0	0%		63%

Filter or Export

The TAM Service Life Summary Report displays all asset categories, listed by subtype, and calculates the following:

- Revenue Vehicles and Equipment—Service Vehicles: Quantity and percentage that are past their Useful Life Benchmark in months;
- Facilities (Primary): Quantity and percentage of Facilities (Primary) that have fallen below the TERM Policy value; and
- Infrastructure—Track: Linear asset miles of Infrastructure that have Active Performance Restrictions.

The ULB, and TERM values pull from the most recent year of the TAM Policy for each organization that are either in a Pending Activation or Active status. Data can be filtered by Asset Category, and a drill-down of data is provided on an organization-level basis, while the table, and the underlying data used to make the calculations can be exported as well.

Figure 125 TAM Service Life Summary Report

Organization	Asset Classification Code	Quantity	# At or Past ULB/TERM Pcnt	Avg Age	Avg TERM Condition	Avg Mileage
All (Filtered) Organizations	AO - Automobile	1	0 0%	12.00	1.00	301,611
All (Filtered) Organizations	BU - Bus	53	0 0%	15.70		
All (Filtered) Organizations	CU - Cutaway	123	0 0%	4.30		
All (Filtered) Organizations	MV - Mini Van	49	0 0%	9.00	2.08	212,607

11.0 Specialized Reports

11.1 Asset Fleet Builder

A fleet is a number of vehicles that share the same characteristics. Organizing vehicles into fleets is advantageous because it summarizes rolling stock inventories at a higher level.

The Asset Fleet Builder is a tool specifically designed to assist with the creation of the Revenue Vehicles (A-30), and Service Vehicles (Nonrevenue) (A-35) National Transit Database (NTD) asset reports. Both of these NTD asset forms require data be reported by fleet, and the Asset Fleet Builder provides an interface to auto-create and easily manage both Revenue Vehicle and Service Vehicle (Nonrevenue) fleets.

When building fleets for the first time, you can choose to use the Asset Fleet Builder. The builder analyzes organization inventories and automatically groups assets into fleets based on the unique fleet definitions and sorts those assets into either the Revenue Vehicles or Service Vehicles section. All assets grouped within a fleet will no longer be listed within the Orphaned Assets portion of the Manage Fleets section. When you run the builder, it will function as a background job in the system and notify you once complete in the notifications section. From there, users can review the fleets, add fleet-specific information or manually regroup assets as needed.

You should only use the builder tool the first time you create a fleet, otherwise you will delete existing fleets.

Figure 126 Asset Fleet Builder

Note: Running the Fleet Builder will delete all existing fleet data, if previously run.

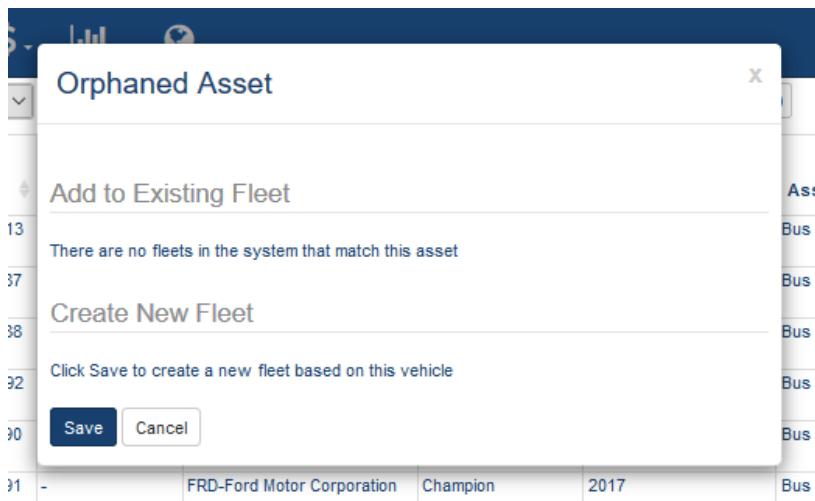
The screenshot shows the Capital Planning Tool (QA) interface for managing fleets. At the top, there are navigation links for Home, Fleets, and Manage Fleets. Below this, a search bar with various filters like Any Asset Type, Tag/ID/VIN/Plate, Any Mfr., Any Model, Year Mfd, Any Subtype, Any Vehicle Type, Any Status, and a clear button. There are also buttons for Filter, Sort, and Refresh. A message box states: "The Asset Fleet Builder analyzes your organization's inventory and groups assets into fleets following parameters set by NTD reporting. If you run the asset fleet builder, you will delete all existing fleets and regroup the assets from scratch. Please note that you will lose any existing fleet data." Another message below says: "Once the builder has completed, you will receive a notification. Please review your fleets at that time and add fleet specific information." At the bottom, there are two buttons: "Build Revenue Vehicles Fleets" and "Build Support Vehicles Fleets".

When you add a new asset to the system, the new asset will be added as an Orphaned Asset within the Manage Fleets section.

Figure 127 Asset Fleet Builder—Orphaned Assets

The screenshot shows the 'Fleets' section of the Capital Planning Tool (QA). At the top, there are tabs for 'Revenue Vehicles', 'Support Vehicles', and 'Manage Fleets'. The 'Manage Fleets' tab is active. Below it, the 'Orphaned Assets' section is displayed with a table. The table has columns for Agency, Asset Type, Tag, ID, VIN, License Plate, Manufacturer, Model, Year Manufactured, Asset Subtype, FTA Vehicle Type, Status, and Action. There are four rows of data. On the right side of the table, there is a large orange button labeled 'Add Asset to Fleet'. An orange arrow points from the 'Manage Fleets' tab to the 'Orphaned Assets' section. Another orange arrow points from the 'Add Asset to Fleet' button in the table to the 'Add Asset to Fleet' button in the modal dialog.

Selecting “Add to Fleet” on the right allows users to add assets to a current fleet or create a new fleet, and will limit options of existing fleets only if all shared characteristics match. Clicking “Save” will either add to an existing fleet, or create a new fleet, depending on what you choose, and allow you to specify details about that fleet.

Figure 128 Adding an Orphaned Asset to a Fleet

When you add the asset to a new fleet, if you wish to update fleet-specific details, look for the actions button, and click “Update this Fleet” to add details. Users also can remove the fleet completely, at which point all fleet assets will return to the Orphaned Assets portion of the Manage Fleets section. Users also can edit other fleet and asset-specific data such as NTD ID, asset odometer readings, and remove or add assets to the fleet from directly within the fleet.

Figure 129 Adding a New Fleet

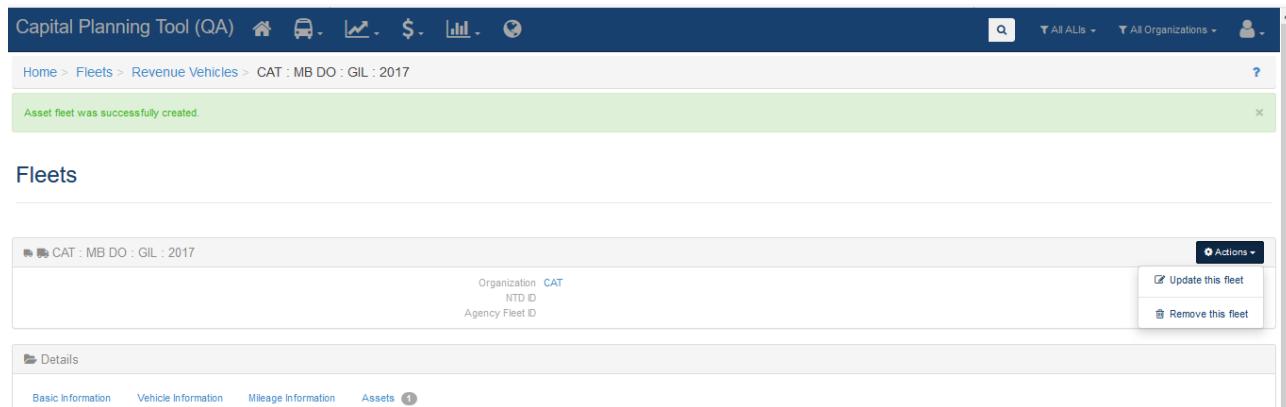


Figure 130 Update Asset Fleet Details

Update Asset Fleet

This is a modal dialog box titled "Update Asset Fleet". It contains three input fields: "NTD ID" with value "0", "Agency Fleet ID" (empty), and "NTD Notes" (empty). At the bottom are two buttons: "Update Asset fleet" (blue) and "Cancel" (orange).

Figure 131 Update Odometer Readings

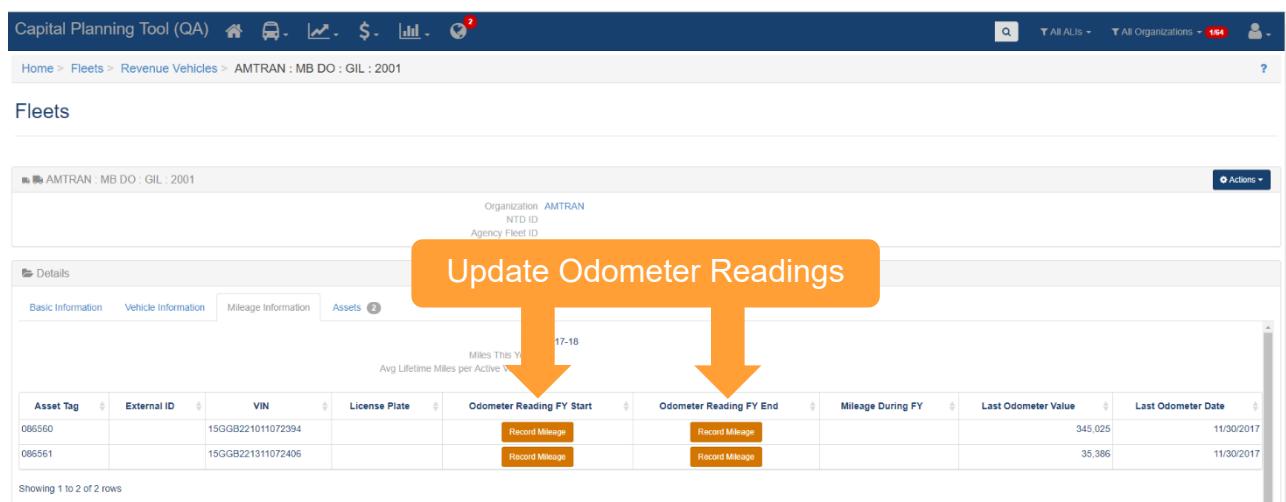


Figure 132 Remove or Add Assets from within a Fleet

The screenshot shows the Capital Planning Tool (QA) interface. At the top, there's a navigation bar with icons for Home, Fleets, Revenue Vehicles, and search functions. Below it, a breadcrumb trail indicates the current location: Home > Fleets > Revenue Vehicles > AMTRAN : MB DO : GIL : 2001. The main content area is titled 'Fleets' and shows details for 'AMTRAN - MB DO - GIL - 2001'. A table lists assets with columns for Asset Tag, External ID, VIN, License Plate, Title Number, Status, Emergency Contingency, ADA Accessibility, ULB, Mileage, Valid in Fleet, and Action. Two rows are visible: 086561 and 086560. An orange callout bubble with the text 'Add or Remove Assets' has an arrow pointing to the 'Action' column of the table.

11.2 NTD Asset Reports

The NTD Asset Reports are forms that must be submitted on an annual basis for every organization that receives Federal public transit funding. Required forms differ between organization, based on the category of assets in operation for each organization. The specific forms are as follows:

- Facilities (A-15)—Pulls asset data for primary facilities, for which an organization has capital responsibility.
- Infrastructure (A-20);—Pulls asset data for.
- Revenue Vehicles (A-30).
- Service Vehicles (Nonrevenue) (A-35).
- Performance Measure Targets (A-90).

Each report pulls and calculates data according to the reporting year selected, and the activities associated with the system reporting period, i.e., July—June, October—September, or January—December.

Figure 133 Access NTD Reports

The screenshot shows the Capital Planning Tool (QA) interface on the 'Home' page. The top navigation bar includes links for Home, Asset Summary, and various reports like Inventory Reports, Capital Needs Reports, System Reports, Planning Reports, and NTD Reporting. The 'Planning Reports' menu is expanded, and 'NTD Reporting' is highlighted with an orange callout bubble. Below the menu, there's a 'My Tasks' section with a 'Due today' button and a 'New' button. On the right side, there are 'My Notices' and 'My messages' sections. The 'My messages' section shows several notifications, including one from Elizabeth Bonini and two from system users.

Any NTD reports that have been previously generated can be viewed on the initial report table available when clicking on the NTD Reports module. Existing report data can be accessed by clicking on the row for an individual organization upon which point it can be downloaded, submitted for review, have comments added, updated, or removed. New reports can be generated by clicking on the New NTD Form button.

Figure 134 Table of Previously Generated NTD Reports

Organization	Fiscal Year	Status	Created At	Creator
CARBON	FY 16-17	Unsubmitted	10:41 AM 10/19/2018	Elizabeth Bonini

When you click on the “New NTD Form” button, you will be prompted to select an organization, reporting year, and enter other user-specific information. Upon clicking “Save NTD Form”, you will be directed to the newly created NTD Details and Data page.

Figure 135 Create New Reporting Year Forms

New NTD Report

Organization: BUTLER-Butler County Community Public Transportation

Fiscal Year: 2016

Agency Information

Reporter Name: Elizabeth Bonini

Reporter Title:

Reporter Department:

Reporter Email: ebonini@pa.gov

Reporter Phone: 9999999999

Reporter Phone Ext:

Save NTD Form

Click Save NTD Form Button

Figure 136 NTD Report Details and Data

Capital Planning Tool (QA)

Home > Forms > NTD Reporting > CARBON FY 16-17

CARBON FY 16-17

Actions

- submit this form
- New version
- Remove this form

Organization: CARBOF
Year: FY 16-17
Status: Unsubmitted
Last Updated: 10:41 AM

Reporter Name: Elizabeth Bonini
Reporter Title:
Reporter Department:
Reporter Email: ebonini@pa.gov
Reporter Phone: (999) 999-9999

Details

Versions History

Date	Creator	Download	Comments	Process Log
10:41 AM 10/19/2016	Elizabeth Bonini			

Submit, Create a New Version, or Remove

Access Forms or Add a Comment

When you click on the Download icon, the already generated forms appear and can be downloaded by clicking on the form-specific button. Excel file downloads will initiate upon clicking each form-specific button.

Figure 137 Download each NTD Form

Capital Planning Tool (QA)

Home > Forms > NTD Reporting > CARBON FY 16-17 > Generate

Success

Click the button below to download the file to your computer.

Download A-15

Download A-20

Download A-30

Download A-35

12.0 Admin Tools

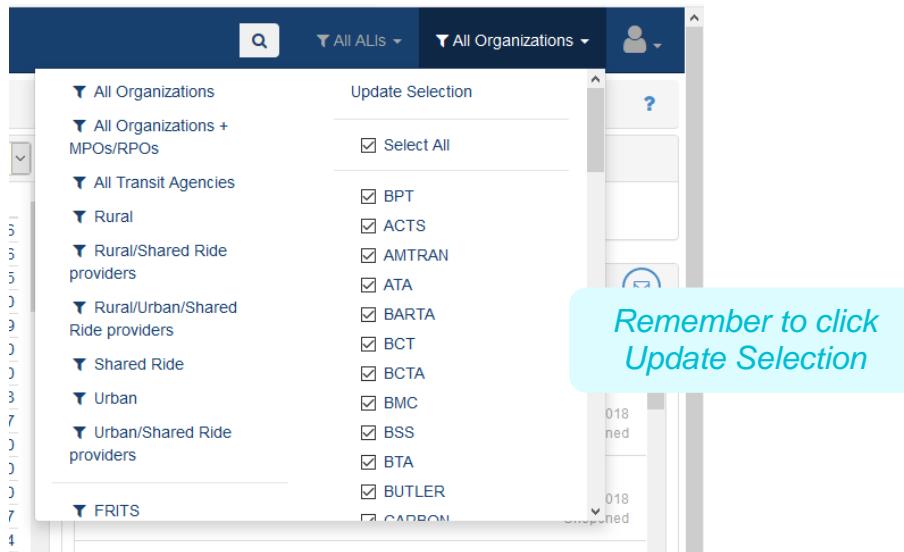
As an administrator, you have access to additional functionality within the User and Organization options at the top right of the screen.

Figure 138 Admin User and Organization Options

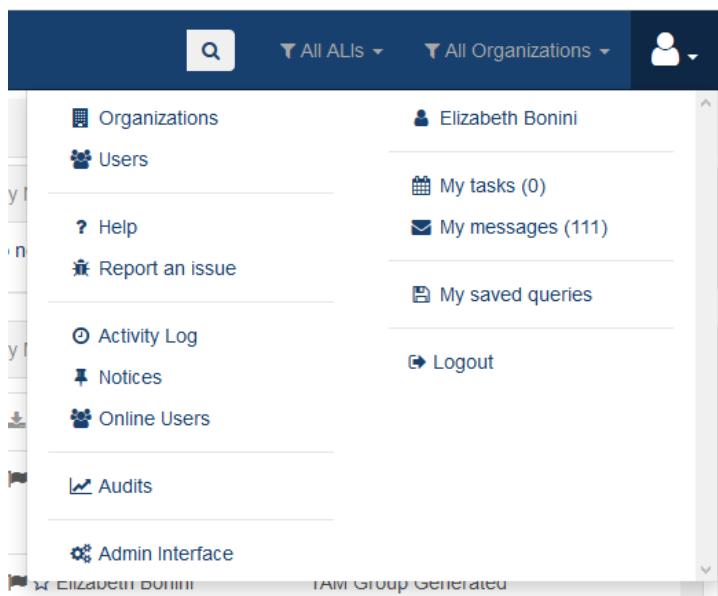


Clicking “All Organizations” provides a filter to pare down the different agencies you see. This also greatly reduces the time it takes to process certain content-rich pages.

Figure 139 Organizations



In your User Options, you'll also see some common elements with other users (though they have been revamped for admins) and some additional functionality.

Figure 140 Admin User Options

12.1 Organizations

The organizations page provides an overview of each organization, its type, and an interface for adding new agencies.

Figure 141 Admin Organizations

The screenshot shows the Admin Organizations page. At the top, there is a navigation bar with icons for home, search, and other functions. Below the navigation bar, the URL is 'Home > Organizations' and there is a help icon.

At the top left of the main area, there are three buttons: '+ New Transit Operator', '+ New Planning Partner', and 'Agency Type ▾'. To the right of these buttons is a search bar and a filter icon.

The main content is a table with the following columns: Type, Organization, Name, Full Address, Phone, Ext, Fax, and Web Site. There are two rows of data:

Type	Organization	Name	Full Address	Phone	Ext	Fax	Web Site
Grantor	BPT	PaIDOT Bureau of Public Transportation	Keystone Building, 400 North St Harrisburg, PA, 17120	717-214-4035			http://www.dot.state.pa.us/internet/Bureaus/pdBPT.nsf/TransHomepage?openFrameset
		s, Inc.	241 West Grant Street P.O. Box 189 New Castle, PA, 16103	(999) 999-9999			http://www.example.com

An orange callout box with the text 'Add new organizations' points to the first button ('+ New Transit Operator').

Click the buttons at the top to create a new Transit Operator or Planning partner.

Figure 142 Add an Organization

12.2 Users

The users page also has some additional functionality. It provides an overview of all users in the system, and provides the ability to add new users or filter user data.

Figure 143 Admin Users

Click “Add a User” to create an account for a new user. An email requesting the user reset his/her password will be automatically sent upon creation.

Figure 144 Add a User

New User

User Organizations

* Organization: Not Selected

Organizations:

- BPT-PennDOT Bureau of Public Trans
- ACTS-Allied Coordinated Transportat
- AMTRAK-Altoona Metro Transit
- ATA-Area Transportation Authority of K
- BARTA-Berks Area Regional Transport
- BCT-Bucks County Transport, Inc.
- BCTA-Beaver County Transit Authority
- BMC-Borough of Mt Carmel
- BSS-Blair Senior Services, Inc.
- BTA-Butler Transit Authority
- BUTLER-Butler County Community Pul
- CARBON-Carbon County

Choose All >

Selected

Roles & Privileges

* User Role: [dropdown]

User Privileges:

- Admin
- Technical Contact
- Director Transit Operations
- NTD Contact

User Details

* First Name: [text input]

* Last Name: [text input]

Take care about who you grant admin privileges—they'll be able to modify anything

12.3 Notices

Notices provide information on the dashboard to user-defined sets of other users. The Notices interface manages this process.

Figure 145 Notices

+ Add a notice

Type	Subject	Summary	Visible	Start Display	Display Until	Actions
System Notice	Welcome to the Capital Planning Tool.	IMPORTANT NOTICE!		01:00 PM 06/02/2015	11:59 PM 06/02/2015	
System Notice	System Maintenance	System Maintenance Monday July 6th		01:00 PM 07/02/2015	11:59 PM 07/02/2015	
System Notice	IMPORTANT NOTICE!	Asset Loading		07:00 AM 12/07/2015	11:00 PM 12/14/2015	
System Notice	System Maintenance	System Maintenance		10:00 AM 02/26/2016	11:00 PM 02/29/2016	
System Notice	SYSTEM NOTICE	System Outage - 9/10/16-9/12/16		10:00 AM 09/09/2016	11:59 PM 09/09/2016	
Informational Notice	2017 AUDIT PERIOD	2017 Revenue Vehicle Audit		02:00 PM 01/04/2017	11:59 PM 01/04/2017	
System Notice	SYSTEM NOTICE	System Outage - 2/10/17-2/13/17		02:00 PM 02/10/2017	08:00 AM 02/13/2017	
System Notice	SYSTEM OUTAGE	System Outage - 7/21 to 7/24		02:00 PM 07/19/2017	08:00 AM 07/24/2017	
System Notice	SYSTEM OUTAGE	System Outage - 11/17 to 11/20		08:00 AM 11/14/2017	07:00 AM 11/21/2017	
System Notice	SYSTEM OUTAGE	SYSTEM OUTAGE 11/30 5PM-6PM		03:00 PM 11/30/2017	11:00 PM 11/30/2017	
System Notice	SYSTEM OUTAGE	System Outage - 12/29-1/2		01:00 PM 12/28/2017	11:00 AM 01/03/2018	
System Notice	SYSTEM OUTAGE	System Outage - 1/26-1/29		01:00 PM 01/26/2018	07:00 AM 01/29/2018	
System Notice	test	test		12:00 AM 07/20/2018	01:00 PM 07/20/2018	

Showing 1 to 13 of 13 rows 200 ▾ rows per page

Click Add a notice to create a new one. You can specify temporal and organization parameters.

Figure 146 Add a Notice

New Notice

* Subject
[Text input field]

* Summary
[Text input field]

Details
[Text input field]

Organization
[Dropdown menu: All]

* Start Displaying
[Date: 07/20/2018] Hour [12:00 PM]

Stop Displaying
[Date: 07/20/2018] Hour [11:00 PM]

* Notice Type
[Dropdown menu: System Notice]

Create Notice

Once a noticed is created, it will display on the dashboard according to the parameters set.

Figure 147 Notice on the Dashboard

9

536
786
775
280
200

All ALIs ▾ All Organizations ▾

?

My Notices

A test
test 12:00 AM 07/20/2018 Details...

My Messages

12.4 Online Users

Administrators can see active user sessions and details about those logins, by accessing the Users link within the User Menu.

Figure 148 Active Users

Session Id	User	IP Addr	Organization	Started	Expires	Age	Last View Time	Inactive Time	View Count	Last View
fa72aadd0738752943871b731d54dcf0	Elizabeth Bonini	74.75.225.138 BPT		01:59 PM 07/12/2018	10:53 PM 07/12/2018	7 days 22h 30m	05:53 PM 07/12/2018	7 days 18h 36m	696	/notifications/count
5eeba2509d607833bd955f9fb5bb756f	Elizabeth Bonini	72.94.199.38 BPT		01:59 PM 07/12/2018	08:43 PM 07/12/2018	7 days 22h 30m	03:43 PM 07/12/2018	7 days 20h 46m	626	/notifications/count
b8de20b814a0c0f12f86826af448cc4	Elizabeth Bonini	73.219.188.37 BPT		01:59 PM 07/12/2018	02:27 AM 07/13/2018	7 days 22h 30m	09:27 PM 07/12/2018	7 days 15h 2m	1,841	/notifications/count
97ce63ac5f8ab1db8f396ec91b4f5c38	Elizabeth Bonini	209.6.55.63 BPT		01:58 PM 07/13/2018	12:49 AM 07/14/2018	6 days 22h 31m	07:49 PM 07/13/2018	6 days 16h 41m	1,286	/notifications/count
597442dc0ba05a002eb54e0bf4d1b5c0	Elizabeth Bonini	72.94.199.38 BPT		10:24 AM 07/16/2018	11:49 PM 07/16/2018	4 days 2h 5m	06:49 PM 07/16/2018	3 days 17h 40m	3,144	/notifications/count
a450046b60018305995392319c1781d6	Elizabeth Bonini	73.219.188.37 BPT		10:54 AM 07/16/2018	05:06 PM 07/16/2018	4 days 1h 35m	12:06 PM 07/16/2018	4 days 23m	92	/notifications/count
17c28a3fc8b598e3924b1236a7218191	Elizabeth Bonini	74.75.225.138 BPT		10:58 AM 07/16/2018	09:57 PM 07/16/2018	4 days 1h 31m	04:57 PM 07/16/2018	3 days 19h 32m	3,214	/notifications/count
09baecbb50cc11679481d1102fb252	Elizabeth Bonini	209.65.164.27 BPT		11:14 AM 07/16/2018	09:14 PM 07/16/2018	4 days 1h 15m	04:14 PM 07/16/2018	3 days 20h 40m	1,354	/notifications/count
2b1536f075759fa78ed6a18377d0924a	Elizabeth Bonini	72.94.199.38 BPT		02:39 PM 07/16/2018	07:49 PM 07/16/2018	3 days 21h 50m	02:49 PM 07/16/2018	3 days 21h 40m	81	/notifications/count
09fe1e7c64c4f95a8befff3d4496923d	Nicholas Baldwin	72.94.199.38 BPT		02:49 PM 07/16/2018	07:53 PM 07/16/2018	3 days 21h 40m	02:53 PM 07/16/2018	3 days 21h 37m	26	/notifications/count

12.5 Audits

Administrators can perform audits to assist in monitoring periodically required asset updates. As an example, you may establish a rule where all assets need to have Service Status, Condition, and Mileage (where appropriate) updated every year. These rules can be setup within the Audit Feature. When the audit is run on, the system will check that each asset has had its Service Status, Condition, and Mileage (where appropriate) updated within a given date range.

The admin audits page summarizes all available Audits and can be accessed through the Audits link within the User Menu.

Figure 149 Admin Audits Page

Audits

Found 1 matching audits

Name	Description	Instructions
Annual Inventory Update	Checks to see that each asset has had the Service Status, Condition, and Mileage (where appropriate) updated.	Update the Service Status, Condition, and Mileage (where appropriate) values for each of the operational assets in your inventory.

Admin Audits Page

Clicking on the audit from the table will bring you to the detail page of that audit, where you can update or remove the audit.

Figure 150 Admin Audits Details Page

12.6 Admin Interface

The Admin Interface is a graphic representation of some of the databases used within the system. From here, you can adjust the content that is displayed in the various interfaces. For instance, you can adjust what capital project types are displayed in the dropdown when adding a new capital project.

Be very careful when modifying or deleting any of the information in the admin interface, as much of the system functionality resides within the Admin Interface, and any changes made may cause systemwide data inaccuracies. Always consult your primary Cambridge Systematics (CS) point of contact should you wish to make modifications to the admin interface, or are unsure of how to perform a specific function.

Figure 151 Admin Interface

Model name	Last created	Records
Assets	8 days ago	20587
Asset event types		19
Asset groups	4 months ago	10
Capital project types		4
Comments	about 3 years ago	1401
Depreciation interval y		3
Disposition types		5
Districts		370
District types		12
Documents	almost 3 years ago	1339
Expense types		16
Facility capacity types		4
Facility features		8
Frequency types		5
Funding templates	4 months ago	33
Governing body types		5
Images	about 3 years ago	120
Issue types		4
Leed certification types		5
License types		3
Maintenance types		4
Milestone types		
Notice types		
Priority types		
Location reference typ		