Amtrak Performance Tracking (APT)

System Overview

April 20, 2010
Why replace the Route Profitability System (RPS)?

- The mainframe system is past the end of its life cycle and is difficult to maintain
- Analyzing results is difficult without extensive knowledge of and access to the system
- Long and manually intensive process to run the system – results are not timely, typically available three weeks after close of the General Ledger
- The Secretary of Transportation was authorized by Congress (Consolidated Appropriations Act of 2005) to develop a methodology to determine the avoidable and fully allocated cost of each Amtrak Route – assigned the task to the Volpe National Transportation Systems Center (Volpe)
**Amtrak Performance Tracking - System**

- Runs on a SQL server
- Utilizes SAP BPC (Fingate) as the software platform
- Unlike RPS which primarily uses Functions, the first allocation criteria in APT are Responsibility Centers (Res Cens), then account/function combinations
  - Should eliminate many “miscoded” allocation problems
- Analyzing results is transparent and easily reconciles back to the source General Ledger data
- Automated system has limited manual processes – data much more timely, estimated production time of a week or less
  - Manual processes still exist to clear data errors
Amtrak Performance Tracking – Process Overview

- General Ledger Data
  - Does not have a train or customer designation (the majority of records)
  - Has a train or customer designation

- If G/L record does not have a train or customer designation – then it is first aggregated by Family
  - What is a Family? A Family is a group of Res Centers that perform a similar function
APT Family (Res Center) Hierarchy Example

Res Cen Families

<table>
<thead>
<tr>
<th>Family #</th>
<th>Family Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>Maintenance of Way</td>
</tr>
<tr>
<td>200</td>
<td>Maintenance of Equipment</td>
</tr>
<tr>
<td>300</td>
<td>Operations - Transportation</td>
</tr>
<tr>
<td>400</td>
<td>Sales &amp; Marketing</td>
</tr>
<tr>
<td>500</td>
<td>Stations</td>
</tr>
<tr>
<td>600</td>
<td>General &amp; Administrative</td>
</tr>
<tr>
<td>700</td>
<td>Capital</td>
</tr>
<tr>
<td>800</td>
<td>Utilities</td>
</tr>
<tr>
<td>900</td>
<td>Police, Environmental &amp; Safety</td>
</tr>
</tbody>
</table>

#300 Operations - Transportation Family

Subfamily # | Subfamily Name
-------------|-----------------|
301          | OBS             |
302          | T&E             |
303          | Yard Operations |
304          | Fuel            |
305          | Transportation-Multiple |
306          | Train Movement  |
307          | Train Movement-Host RR |
308          | Transportation-Support |
309          | Power-Electric Traction |

#301 OBS Subfamily

Subcategory # | Name
--------------|-----|
301_1         | Crew |
301_2         | Supplies |
301_3         | Commissary Mgmt |
301_4         | Support |

#301_1 Crew: Detailed Res Centers

<table>
<thead>
<tr>
<th>Res Center</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>RC_0524</td>
<td>Director OBS Ops</td>
</tr>
<tr>
<td>RC_2029</td>
<td>OBS Crew Dsptch-CMS</td>
</tr>
<tr>
<td>RC_2070</td>
<td>Supt Pass Svc - West</td>
</tr>
<tr>
<td>RC_2181</td>
<td>Boston Crew Base</td>
</tr>
<tr>
<td>ETC.</td>
<td>ETC.</td>
</tr>
</tbody>
</table>
Amtrak Performance Tracking – Process Overview (continued)

**General Ledger**
Data without a Train or Customer Designation

**Families**
(1,500+ Res Cens)
100 – Maint of Way
200 – Maint of Equip
300 – Ops Trans
400 – Sales and Mktg
500 – Stations
600 – G & A
700 – Capital
800 – Utilities
900 – Police & Security

**Individual Res Center Family Rules**
If account AA, then use statistic BB to allocate to train group CC
If function XX, then use statistic YY to allocate to train group ZZ
Default rule, if none of the above, then use statistic MM to allocate to train group NN

**Customers**
Trains
Transits
Freights
Commuter
Reimbursable
Commercial
Other

**Routes and Business Lines**

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**General Ledger**
Data WITH a Train or Customer Designation
A General Comparison of RPS vs. APT Output

<table>
<thead>
<tr>
<th>PROCESS</th>
<th>RPS</th>
<th>APT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Report Data by Lines</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Report Data by Detailed Res Center</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Report Data by Detailed Account</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Report Data by Detailed Function</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Allocates costs to all Customers</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Sort data by Statistic</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Sort data by Directly Assigned vs. Allocated</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>View Allocation Rules</td>
<td></td>
<td>✔️</td>
</tr>
</tbody>
</table>