TABLEAU CONFERENCE
Welcome
Finance at Tableau: Managing Risk for our Global Corporate Treasury

Ed Barrie
Senior Director, Treasury
Tableau Software, Inc.
IT @Tableau | Effectively managing IT finances with Tableau
Thursday | 10:45am – 11:45am | MCCNO – L2 - 214

ScotiaBank | Taking market risk and the Trading floor digital with Tableau
Thursday | 12:30pm – 1:30pm | MCCNO – L2 - 240
What is Treasury?

• Treasury is the central bank of a corporation and is responsible for managing the financial risks and enhancing financial controls for the organization

• Tableau’s Treasury team helps Tableau grow by building the financial transaction infrastructure that the business groups and company need and ensuring that financial risks are managed and mitigated
What Tableau Treasury does

• Manage all banking relationships, banking services, bank accounts and liquidity structures including compliance (KYC\AML\FBAR)
• Payment processing and payment optimization (how we pay)
• Receipt processing and optimization (how we collect)
• Liquidity management including cash forecasting & subsidiary funding
• Investments (what & how we invest excess cash)
• Foreign Exchange (how we manage & mitigate FX risks)
• eCommerce\Merchant Services (how customers pay via cards)
• Share repurchase program
Agenda

• Cash Management – How Tableau has removed friction of getting data and added enrichment for analysis

• Payments – How we monitor our outbound payments and drive improvements on beneficiary bank data

• Corporate Card Management – How Tableau employees use cards and how we manage compliance

• Treasury trends to watch

• Key Messages & Lessons Learned

• Q&A
How do you manage & mitigate risk?

- **Data!** – need data at the transaction level
- **Transparency** – give me the data that I need to understand the risk
- **People** – allow the team to build the analytics that they need
- **Process** – develop flexible workflows
- **Systems** – give people the tools they need to analyze the data
- **Data!** – more data, lot’s of data
All that data!
Corporate Financial Ecosystem

Corporate P-Card/T2E Card

Emerging Technologies & Trends

Business Model: Ecosystem Analytical Tools:

Customer Lifecycle Management:

Electronic Funds Transfer (EFT) management

Innovative Cloud-based solutions

Digital identity

Payment Approver

Authorized bank contact

Bank Account Management:

Electronic check

Collaborative banking

Collaborative settlements

Credit card

Credit scoring

Credit monitoring

Collections:

E-commerce

Retail

Multi-channel

Mobile

Credit Score

Treasury

Electronic Banking

Electronic Banking (EB)

Electronic Banking (EB)

Electronic Banking (EB)

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Cash Management
Daily Global Visibility to Bank Accounts

- Demonstration data. Not actuals
- Prior Day BAI2 & CAMT.053.xml
  - Received via SWIFT or SFTP
  - Import 2X per day
  - Alteryx to map data into AWS Redshift
- Visibility
  - 99.9% daily visibility to global cash balances & transactions
  - Central ‘Source of Truth’ for bank accounts
  - Reduce usage of banking portals
Daily Global Visibility to Bank Accounts

- Demonstration data. Not actuals
- Understand cash composition trends over time
- Drill into outliers to understand drivers
Data Integrity & Analytics

**Bank Account Statistics Dashboard**

<table>
<thead>
<tr>
<th>Account Code</th>
<th>Operating</th>
<th>Year</th>
<th>January</th>
<th>February</th>
<th>March</th>
<th>April</th>
<th>May</th>
<th>June</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOP Opening Ledger Balance</td>
<td>704,640.54</td>
<td>1,095,365.15</td>
<td>902,603.02</td>
<td>656,104.29</td>
<td>664,964.81</td>
<td>105,251.77</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EOD Closing Ledger Balance</td>
<td>1,095,365.15</td>
<td>902,603.02</td>
<td>664,964.81</td>
<td>105,251.77</td>
<td>966,027.61</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Balance Check</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>47,584</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Avg. Daily Closing Ledger</td>
<td>540,738.02</td>
<td>626,091.29</td>
<td>439,978.96</td>
<td>494,656.79</td>
<td>441,895.94</td>
<td>283,659.32</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Credit Transaction Amts</td>
<td>1,700,696.61</td>
<td>1,407,677.09</td>
<td>1,400,000.00</td>
<td>1,412,538.00</td>
<td>1,330,418.31</td>
<td>1,796,674.90</td>
<td></td>
<td></td>
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<tr>
<td>Debit Transaction Amts</td>
<td>1,389,980.00</td>
<td>1,600,389.22</td>
<td>-1,615,488.73</td>
<td>-1,483,737.48</td>
<td>-1,810,131.38</td>
<td>-966,224.82</td>
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<td></td>
</tr>
<tr>
<td>Credit Count</td>
<td>3</td>
<td>3</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Debit Count</td>
<td>107</td>
<td>98</td>
<td>107</td>
<td>99</td>
<td>107</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BOP Opening Ledger Bal USD Eqv</td>
<td>550,681</td>
<td>831,681</td>
<td>592,425</td>
<td>521,365</td>
<td>499,271</td>
<td>137,142</td>
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<td></td>
</tr>
<tr>
<td>EOD Opening Ledger Bal USD Eqv</td>
<td>827,028</td>
<td>492,856</td>
<td>524,186</td>
<td>497,503</td>
<td>138,105</td>
<td>749,028</td>
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<td></td>
</tr>
<tr>
<td>Avg. Daily Closing Ledger USD Eqv</td>
<td>404,279</td>
<td>479,735</td>
<td>335,842</td>
<td>372,838</td>
<td>328,857</td>
<td>216,081</td>
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<tr>
<td>Cdr Trans Amt USD Eqv</td>
<td>$1,284,653</td>
<td>$1,083,212</td>
<td>$1,067,730</td>
<td>$1,070,401</td>
<td>$993,927</td>
<td>$1,356,174</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drq Trans Amt USD Eqv</td>
<td>($1,019,220)</td>
<td>($1,226,728)</td>
<td>($1,231,407)</td>
<td>($1,075,284)</td>
<td>($1,046,520)</td>
<td>($736,106)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Quick Bal Check - Year 2017**

<table>
<thead>
<tr>
<th>Account Code</th>
<th>Opening</th>
<th>January</th>
<th>February</th>
<th>March</th>
<th>May</th>
<th>Unc</th>
</tr>
</thead>
<tbody>
<tr>
<td>001</td>
<td>Opening</td>
<td>-1</td>
<td>-98</td>
<td>-54</td>
<td>237,417</td>
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<tr>
<td>002</td>
<td>Opening</td>
<td></td>
<td></td>
<td></td>
<td>399</td>
<td></td>
</tr>
<tr>
<td>003</td>
<td>Opening</td>
<td></td>
<td></td>
<td></td>
<td>26,402</td>
<td></td>
</tr>
</tbody>
</table>

- Demo data set. Not actual results
- Use Level of Detail formula to support data integrity
- Dashboard uses both Balance and Transaction records
- Opening Ledger + Sum of Credits – Sum of Debits – Closing Ledger = 0
Cash Analytics

Cashflows Summary

- Demo data set.
  Not actual results
- Demo data set. Not actual results
- Waterfall dashboard
### Cash Analytics

#### Transaction Details / Tran Code

<table>
<thead>
<tr>
<th>Tran Type</th>
<th>BAI Tran Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACH CREDIT</td>
<td>398, 399, 451, 475, 495, 555, 698, 699</td>
</tr>
<tr>
<td>ACH DEBIT</td>
<td>142, 174, 195, 201, 255, 354</td>
</tr>
<tr>
<td>CHECK PAID</td>
<td>$0M, $0M, $0M</td>
</tr>
<tr>
<td>CREDIT MEMO</td>
<td>$0M, $0M, $0M</td>
</tr>
<tr>
<td>DEBIT MEMO</td>
<td>$110M, $110M, $110M</td>
</tr>
<tr>
<td>DEP ITEM RETURNED</td>
<td>$0M, $0M, $0M</td>
</tr>
<tr>
<td>DEPOSIT</td>
<td>$10M, $10M, $10M</td>
</tr>
<tr>
<td>DEPOSIT-ELECTRONIC</td>
<td>$0M, $0M, $0M</td>
</tr>
<tr>
<td>Incoming Electronic Transfer</td>
<td>$0M, $0M, $0M</td>
</tr>
<tr>
<td>Incoming Wire Transfer</td>
<td>$0M, $0M, $0M</td>
</tr>
<tr>
<td>INTERNAL TRANSFER</td>
<td>$0M, $0M, $0M</td>
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<tr>
<td>Outgoing Wire Transfer</td>
<td>$0M, $0M, $0M</td>
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<tr>
<td>REMOTE DEP RETURN</td>
<td>$0M, $0M, $0M</td>
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<tr>
<td>REMOTE DEPOSIT</td>
<td>$0M, $0M, $0M</td>
</tr>
<tr>
<td>RETURNED CHECK</td>
<td>$53M, $53M, $53M</td>
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<tr>
<td>SERV CHG REVERSAL</td>
<td>$0M, $0M, $0M</td>
</tr>
<tr>
<td>SERVICE CHARGE</td>
<td>$0M, $0M, $0M</td>
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<tr>
<td>TRANSFER CREDIT</td>
<td>$0M, $0M, $0M</td>
</tr>
<tr>
<td>WIRE TRANSFER CREDIT</td>
<td>$0M, $0M, $0M</td>
</tr>
<tr>
<td>WIRE TRANSFER DEBIT</td>
<td>$1M, $1M, $1M</td>
</tr>
<tr>
<td>WIRE TRSF CREDIT FX</td>
<td>($13M), ($13M), ($13M)</td>
</tr>
<tr>
<td>WIRE TRSF DEBIT FX</td>
<td>$0M, $0M, $0M</td>
</tr>
</tbody>
</table>

#### Demo data set. Not actual results

#### Heat map to understand transactions by type
Cash Analytics

- Demo data set. Not actual results
- Allow a user to input a text string and search across all transactions
- Take the friction out of searching across thousands of transactions to find those that are relevant for the users need
### Cash Analytics

#### # of trans / acct / month

<table>
<thead>
<tr>
<th>Account</th>
<th>January</th>
<th>February</th>
<th>March</th>
<th>April</th>
<th>May</th>
<th>June</th>
<th>July</th>
<th>August</th>
<th>September</th>
<th>October</th>
<th>November</th>
<th>December</th>
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<tbody>
<tr>
<td>#1</td>
<td>11</td>
<td>35</td>
<td>21</td>
<td>14</td>
<td>29</td>
<td>23</td>
<td>17</td>
<td>32</td>
<td>23</td>
<td>19</td>
<td>31</td>
<td>35</td>
</tr>
<tr>
<td>#2</td>
<td>99</td>
<td>102</td>
<td>96</td>
<td>88</td>
<td>90</td>
<td>88</td>
<td>94</td>
<td>106</td>
<td>113</td>
<td>122</td>
<td>104</td>
<td>122</td>
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<tr>
<td>#3</td>
<td>777</td>
<td>639</td>
<td>770</td>
<td>860</td>
<td>785</td>
<td>849</td>
<td>930</td>
<td>857</td>
<td>918</td>
<td>941</td>
<td>897</td>
<td>1.089</td>
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<tr>
<td>#4</td>
<td>1</td>
<td></td>
<td></td>
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<tr>
<td>#5</td>
<td>3</td>
<td>2</td>
<td>2</td>
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<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
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<tr>
<td>#6</td>
<td>38</td>
<td>49</td>
<td>58</td>
<td>87</td>
<td>44</td>
<td>73</td>
<td>82</td>
<td>83</td>
<td>71</td>
<td>108</td>
<td>96</td>
<td>90</td>
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</tbody>
</table>

- Demo data set. Not actual results
- Easily monitor transaction activity levels
- Identify idle/low activity accounts for potential closure
# Cash Analytics

## Balances Crosstab View

<table>
<thead>
<tr>
<th>Date</th>
<th>AUD</th>
<th>CAD</th>
<th>CNY</th>
<th>EUR</th>
<th>INR</th>
<th>JPY</th>
<th>SGD</th>
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</thead>
<tbody>
<tr>
<td>12/1/2016</td>
<td>$78k</td>
<td>$48k</td>
<td>$356k</td>
<td>$226k</td>
<td>$126k</td>
<td>$65k</td>
<td>$82k</td>
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<tr>
<td>12/2/2016</td>
<td>$74k</td>
<td>$55k</td>
<td>$36k</td>
<td>$235k</td>
<td>$366k</td>
<td>$30k</td>
<td>$82k</td>
</tr>
<tr>
<td>12/3/2016</td>
<td>$62k</td>
<td>$46k</td>
<td>$36k</td>
<td>$225k</td>
<td>$355k</td>
<td>$42k</td>
<td>$82k</td>
</tr>
<tr>
<td>12/4/2016</td>
<td>$36k</td>
<td>$25k</td>
<td>$54k</td>
<td>$334k</td>
<td>$360k</td>
<td>$5k</td>
<td>$82k</td>
</tr>
<tr>
<td>12/5/2016</td>
<td>$36k</td>
<td>$25k</td>
<td>$54k</td>
<td>$334k</td>
<td>$360k</td>
<td>$5k</td>
<td>$82k</td>
</tr>
<tr>
<td>12/6/2016</td>
<td>$36k</td>
<td>$25k</td>
<td>$54k</td>
<td>$334k</td>
<td>$360k</td>
<td>$5k</td>
<td>$82k</td>
</tr>
<tr>
<td>12/7/2016</td>
<td>$36k</td>
<td>$25k</td>
<td>$54k</td>
<td>$334k</td>
<td>$360k</td>
<td>$5k</td>
<td>$82k</td>
</tr>
<tr>
<td>12/8/2016</td>
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<td>$25k</td>
<td>$54k</td>
<td>$334k</td>
<td>$360k</td>
<td>$5k</td>
<td>$82k</td>
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<tr>
<td>12/9/2016</td>
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<td>$25k</td>
<td>$54k</td>
<td>$334k</td>
<td>$360k</td>
<td>$5k</td>
<td>$82k</td>
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<tr>
<td>12/10/2016</td>
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<td>$54k</td>
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## Cash Analytics

### Transaction Types Over Time

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<th>File Bank</th>
<th>Month of Grp As Of Date</th>
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<tr>
<td>Last 3 quarters</td>
<td>(All)</td>
<td>Oct-17</td>
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<td>CR</td>
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<tr>
<td>ACH Credit Received</td>
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<td>Book Transfer Credit</td>
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<td>Check Deposit Package</td>
<td>$1.10M</td>
<td>$0.04M</td>
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<td>Check Posted and Return</td>
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<td>$0.04M</td>
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<tr>
<td>Commercial Deposit</td>
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<td>$0.01M</td>
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<td>Credit (Any Type)</td>
<td>$41.98M</td>
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<td>Deposit Correction</td>
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<tr>
<td>Incoming Money Transfer</td>
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<td>Individual Automatic Transfer</td>
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<td>Individual Rejected Credit</td>
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<tr>
<td>Monthly Dividends</td>
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<td>Other Deposit</td>
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<tr>
<td>Return Item</td>
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<td>ACH Debit Received</td>
<td>($30.12M)</td>
<td>($32.90M)</td>
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<tr>
<td>Book Transfer Debit</td>
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<td>($1.85M)</td>
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<td>Check Paid</td>
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<tr>
<td>Commission</td>
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<tr>
<td>Credit Debit</td>
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<tr>
<td>Debit (Any Type)</td>
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<td>Preauthorized ACH Debit</td>
<td>($1.17M)</td>
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<td>Return Item</td>
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<tr>
<td>ZBA Debit</td>
<td>($129.33M)</td>
<td>($176.97M)</td>
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</tbody>
</table>

- Demo data set. Not actual results
- Heatmap on transaction types
- All non-USD transactions converted using Accounting FX rate
Cash Analytics – Data Enrichment

• Enrich bank statement transactions with Cash Flow Type and Cash Flow SubType codification
  • 12 Cash Flow Types (AP, AR, PR, FX, TX, IC, IN, IV, etc.)
  • 150 Cash Flow Sub Types

• Rules based on:
  • Bank account number
  • Bank transaction code (BAI or ISO 20022 XML)
  • Transaction Narrative text
  • Tableau populates the six character CFT\CFST value in all outbound manual payments

• ~2,100 transaction categorization rules

• Significantly enhances our cash analytics, can look at:
  • Totals, Averages, High, Low, trends
  • Future use in forecasting
Cash Analytics

- Demo data set. Not actual results
- All bank statement transactions are assigned a ‘Cash Flow Type’ and ‘Cash Flow Sub-Type’ categorization code
- Categorization code allows us to define what the transaction means to Tableau
- Categorization rules allow us to significantly enhance our analytics
## Cash Analytics

<table>
<thead>
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<th>Year: 2017</th>
<th></th>
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</thead>
</table>

### Select Account

- Old NAV
- AP
- CBFX
- CONC
- DOWN
- REGU
- RTCP
- AR
- BFX
- DINV
- IC
- IECF
- IP
- IRYK
- TX
- TRX
- TD
- EDC
- CID
- AP
- GRCY
- CONC
- DOWN
- RCRI
- DEPD

### Select Year

- January
- February
- March
- April
- May
- June
- July
- August
- September
- October
- November
- December

### Cash Flow Type

- Total

### Type Sub-Type

- (All)
- (All)

### Grand Total

- 2,980,915.82

### Key Metrics

- Average: 1,457,536.22
- 2,980,915.82
### Undefined Cash Flow Type Codes

<table>
<thead>
<tr>
<th>Account Code</th>
<th>Grp As Of..</th>
<th>Type Code</th>
<th>Type Code..</th>
<th>Customer Reference..</th>
<th>Transaction Narrative</th>
<th>Amount (+..</th>
<th>Amount USD (+..</th>
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<td>Incoming</td>
<td>RETURN DUPLICATE</td>
<td>/REM//REHB/RETURN DUPLICATE PAYMENT/BENM//401160300994</td>
<td>114,114.68</td>
<td>$154,609.97</td>
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<td>399</td>
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<td>Miscellaneous</td>
<td>UK 514</td>
<td>FP84-H60159924783/ROC/UK514</td>
<td>13,428.00</td>
<td>$18,101.62</td>
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<tr>
<td></td>
<td>495</td>
<td></td>
<td>Outgoing</td>
<td>00001608 1</td>
<td>00001608/1,RBA180580MC08JL5</td>
<td>(22,560.00)</td>
<td>$-30,412.02</td>
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<td>Money Transfer</td>
<td>00001608 7</td>
<td>00001608/7,RBA18058AQC08</td>
<td>(20,040.00)</td>
<td>$-27,014.93</td>
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<td>Transfer</td>
<td>00001608 17</td>
<td>00001608/17,RBA18058HECO8J</td>
<td>(362.00)</td>
<td>$-1,162.02</td>
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</tbody>
</table>

- Demo data set. Not actual results
- Transactions without a corresponding categorization rule as coded as ‘Undefined’
Cash Analytics

What’s next? Blending multiple data sources to support forecasting:

- Pending A/P invoices from NetSuite (ERP)
- Open A/P invoices from Coupa (not yet synched to ERP)
- Pending A/R from NetSuite
- Investment portfolio cash flows (Clearwater Analytics)
- Foreign Exchange (FXall)
- eCommerce cash flows (settlements)
- Corporate card cash flows (settlements)
- Payroll related data
- Purchase & Sales orders (Coupa, NetSuite)
Payments Management
Payments Management

• Goal
  • Every payment where possible is initiated from Tableau’s NetSuite ERP system using the PAIN.001.001.03.xml (ISO 20022 XML) payment format and transmitted to the bank
  • **EndtoEndId** value of each payment is the unique key that links everything together
    • Links NetSuite, payment batch, payment instruction & bank statements
  • Minimize manual payments via online banking portals
  • Provide as much data as possible in the payment files
    • Ensure banking partners support ‘data overpopulation’
  • Leverage payment files for analytics, data integrity and compliance
Demo data. Not actual results

PAIN.001.xml files are imported into Financial Master allowing user to see what each payment instruction contains

Identify missing or invalid values

Flexible architecture that lets us bring in additional data as needed to create the analytics that are relevant to our teams
### Payment History

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</thead>
<tbody>
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<td>1234567890</td>
<td>12345678901234567890123456789</td>
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<td>2,345.78</td>
<td>AU付款信息</td>
<td>AU付款信息</td>
<td>AU付款信息</td>
<td>AU付款信息</td>
</tr>
</tbody>
</table>

- Demo data. Not actual results
- Show previously sent payments to each beneficiary including all relevant beneficiary bank account data
- Identify if beneficiary bank data has changed over time, is invalid or missing
Demo data. Not actual results

Allows users to understand historical payment batches processed for each subsidiary

Link batch amounts to short term cash forecast by bank account
Understand Payment Flows & Payment Corridors

- Demo data. Not actual results
- Sankey diagram
- Shows which countries payments are being initiated from and going to
- Show relative value of the payment flows
- Helps identify payment or FX inefficiencies
Payments Management – Future State

• Transmit payments via SWIFT FileAct
• Import PAIN.002.xml Payment Status Reports
  • Need Level I and Level II Payment Status Reports
• Link to SWIFT gpi payment tracking database
  • Expect SWIFT gpi to be opened for direct corporate access in 2019
• Have real-time end-to-end payment tracking capability
• Expose payment tracking data in supplier portal
• Cross reference master data against SWIFTRef reference data service
  • Ensure all SWIFT BIC codes, local clearing system ID’s and local clearing system codes are valid
Corporate Card Management
# Corporate Card Balances

This sheet shows all active cards, who they’re assigned to, and various metadata about those cards and their balances. All data shown here is from the most recent report from SVE.

- **Demo data.**
- **Not actual results**

### Active Cards | 9/6/2018

<table>
<thead>
<tr>
<th>Credit Limit</th>
<th>Card Program Type</th>
<th>Card Type</th>
<th>Account Number</th>
<th>Available Credit</th>
<th>Balance (calculated)</th>
<th>Credit Limit</th>
<th>Last Payment Amount</th>
<th>Minimum Payment Due</th>
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<td>556377XXX.</td>
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<td>T&amp;I Card</td>
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<tr>
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<td>PCard</td>
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<td>$0.00</td>
<td>$0.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>556377XXX.</td>
<td>$5,000.00</td>
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<td>$5,000.00</td>
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</tr>
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<td>556377XXX.</td>
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<td>$5,000.00</td>
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</tr>
<tr>
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<td>556377XXX.</td>
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</tr>
<tr>
<td></td>
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<td></td>
<td>556377XXX.</td>
<td>$5,000.00</td>
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</tr>
<tr>
<td></td>
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<td>556377XXX.</td>
<td>$5,000.00</td>
<td>0</td>
<td>$5,000.00</td>
<td>$0.00</td>
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</tr>
</tbody>
</table>
Identify cards that do not match an active employee

- Demo data.
  Not actual results

<table>
<thead>
<tr>
<th>Primary Card Holder Name</th>
<th>Account Number</th>
<th>Active</th>
<th>Home Email</th>
<th>Work Email</th>
<th>Email Alias</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>GHOST CARD, AIRFARE AU</td>
<td>547854000000</td>
<td>Active</td>
<td><a href="mailto:TRAVEL@TABLEAU.COM">TRAVEL@TABLEAU.COM</a></td>
<td><a href="mailto:CORPORATECARD@TABLEAU.COM">CORPORATECARD@TABLEAU.COM</a></td>
<td>corporatecard</td>
<td>Null</td>
</tr>
<tr>
<td>GHOST CARD, AIRFARE CA</td>
<td>547854000000</td>
<td>Active</td>
<td><a href="mailto:TRAVEL@TABLEAU.COM">TRAVEL@TABLEAU.COM</a></td>
<td><a href="mailto:CORPORATECARD@TABLEAU.COM">CORPORATECARD@TABLEAU.COM</a></td>
<td>corporatecard</td>
<td>Null</td>
</tr>
<tr>
<td>GHOST CARD, AIRFARE US</td>
<td>566337700000</td>
<td>Active</td>
<td><a href="mailto:CORPORATECARD@TABLEAU.COM">CORPORATECARD@TABLEAU.COM</a></td>
<td><a href="mailto:CORPORATECARD@TABLEAU.COM">CORPORATECARD@TABLEAU.COM</a></td>
<td>corporatecard</td>
<td>Null</td>
</tr>
<tr>
<td>GHOST CARD, HOTEL US</td>
<td>566337700000</td>
<td>Active</td>
<td><a href="mailto:CORPORATECARD@TABLEAU.COM">CORPORATECARD@TABLEAU.COM</a></td>
<td><a href="mailto:CORPORATECARD@TABLEAU.COM">CORPORATECARD@TABLEAU.COM</a></td>
<td>corporatecard</td>
<td>Null</td>
</tr>
<tr>
<td>INC, TABLEAU SOFTWARE</td>
<td>547854000000</td>
<td>Active</td>
<td><a href="mailto:CORPORATECARD@TABLEAU.COM">CORPORATECARD@TABLEAU.COM</a></td>
<td><a href="mailto:CORPORATECARD@TABLEAU.COM">CORPORATECARD@TABLEAU.COM</a></td>
<td>corporatecard</td>
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<tr>
<td>INTERNATIONAL, TRAVEL</td>
<td>566337700000</td>
<td>Active</td>
<td><a href="mailto:CORPORATECARD@TABLEAU.COM">CORPORATECARD@TABLEAU.COM</a></td>
<td><a href="mailto:CORPORATECARD@TABLEAU.COM">CORPORATECARD@TABLEAU.COM</a></td>
<td>corporatecard</td>
<td>Null</td>
</tr>
<tr>
<td>SOFTWARE INC, TABLEAU</td>
<td>566337700000</td>
<td>Active</td>
<td><a href="mailto:AP@TABLEAU.COM">AP@TABLEAU.COM</a></td>
<td><a href="mailto:CORPORATECARD@TABLEAU.COM">CORPORATECARD@TABLEAU.COM</a></td>
<td>corporatecard</td>
<td>Null</td>
</tr>
<tr>
<td>SORCE, JENNIFER</td>
<td>547854000000</td>
<td>Active</td>
<td>Null</td>
<td><a href="mailto:CORPORATECARD@TABLEAU.COM">CORPORATECARD@TABLEAU.COM</a></td>
<td>corporatecard</td>
<td>Null</td>
</tr>
<tr>
<td>VCN, TABLEAU PURCHASE</td>
<td>566337700000</td>
<td>Active</td>
<td><a href="mailto:CORPORATECARD@TABLEAU.COM">CORPORATECARD@TABLEAU.COM</a></td>
<td><a href="mailto:CORPORATECARD@TABLEAU.COM">CORPORATECARD@TABLEAU.COM</a></td>
<td>corporatecard</td>
<td>Null</td>
</tr>
</tbody>
</table>
Card Limit Ratio Monitor

This sheet shows the credit utilization history for any accounts that have managed to utilize a percentage of its total available credit that is greater than a threshold value set by the user.

Additionally, this sheet can be set to only show accounts that go above this credit utilization threshold within a given time frame (e.g., last three months), which can also be set by the user.

Credit Limit Alert
- 5478540000009444
- 555377000001521
- 555377000004402

• Demo data. Not actual results
Treasury Trends to Watch
Trends

• API’s
  • Significant investment by banks
  • Focused on transactions (payments & statuses, FX trades, market data)
  • What other processes (i.e. acct opening\acct mgmt.) can be leveraged?

• Payment Systems Changes
  • Move to ISO 20022 XML and real time for payment processing (Canada, US Fedwire, NACHA\ACH)
  • PSD2 and new entrants & capabilities (Blockchain\DLT)

• Security\Compliance\Regulatory\Fraud Prevention
  • Growing data payload driven by regulatory requirements, remittance\reconciliation data and Straight-Through-Processing needs
  • Real-time end-to-end audit trail, cross reference against banking master data & watchlist’s

• Big Data & Analytics
  • Rising sea of data
  • What’s hidden in your data? What do you want to know?
Key Messages

- **Tableau is a platform**
  - Tableau can be used to join (blend) data from multiple sources and formats
  - Can you avoid building data ‘interfaces’ between systems to support analytics?

- **Flexible workflows**
  - Legacy systems force users into fixed workflows with static reporting
  - Tableau allows for flexible, user-defined workflows which enhance user interaction and data driven outcomes

- **Transactional level data is key**
  - Analytics should be built to allow users to drill into transaction level data in order to look through a transaction to understand the touchpoints
  - A user should never have to wonder what the nature of a transaction is

- **Remove friction for users and find additional uses for data**
  - Are there others within your organization who work with the same data?
  - What other processes can benefit from your data and analytics?
Resources

• Tableau Webinar: Modern approach to cash flow analysis
  - https://www.tableau.com/learn/webinars/modern-approach-cash-flow-analysis

• Tableau blog: How analytics helps cash flow management by uncovering key details

• Treasury Today 2018 Adam Smith Award: Harnessing the Power of Technology
Please complete the session survey from the My Evaluations menu in your TC18 app.
Thank you!

Contact or CTA info goes here
TABLEAU CONFERENCE