

TigerGraph GCP Anti-Fraud Demo Training #1

INTERNAL SLIDE PRESENTATION



Overview Of Classes



CLASS #1: AML Demo Overview

- Talk Track Anti Fraud
- Demo Review Tips and Key Aspects to Highlight

CLASS #2: AML - Explorer Deep Dive

- Demo Detailed Explorer Detailed Features (Business)
- Demo TGraph Studio Show GSQL, Algos (Tech View Only)

CLASS #3 : Tech Orientation - TGraph Platform

- Overview of Tech Elements TGraph DB, Data Model, and UI layers
- Illustrate '2 Sides' for Tech setup and Business UI

CLASS #4 : AML Starter Kit & Graph Workbench

- Overview of 'How To' Extend TGraph DModel & Connect Explorer UI
- Extend data model, refactor for UI, load customer data & how to re-start



TIGERGRAPH FINANCIAL CRIMES PPT

- 1. Key PPT Reference
- 2. High Level TGraph & Use Cases
- 3. Business & Technical Show & Tell

https://docs.google.com/presentation/d/1GyaTX-VGAiTo9U_QPiLtltVQBAtjI05odmGiullB7us/edit#slide=id.g9cb15ec1e2 1 581



DEMO LOGIN DATA

URL

https://workbench.i.tgcloud-dev.com:9000/workbench#/

Login: TGUser

Password: AML123

TigerGraph Financial Crimes Solution

Enterprise Capabilities

Fraud Analyst Data Scientist Investigation Managers Research & Discovery

Application Integration

Real-Time Decisioning

Connected Data Graph Database

- Database like Features & Functions
- Supports Inserts/Upserts/Deletes
- Batch & Streaming data loads
- Multi-Graph
- Scalable
- High Availability

Transaction Monitoring Advanced Analytics

- Traditional SQL Analysis
- Graph Analytics
- Graph Algorithms
- Entity Resolution
- Connection Mining
- Geospatial Analysis
- Time Series Analysis

Alert/Case Enhancements Graph Algorithms

- Centrality
- Community Detection
- Louvain
- Shortest Path
- Similarity
- PageRank
- Pattern Detection
- Feature Generation
- Explainable AI

Fraud Workbench UI & Reporting

- AML Dashboard
- Alerts & Monitoring
- Alert Creation
- Alert Que-Detail
- Case Que-Detail
- Case Management Workflow
- Relationship Discovery
- SAR Generation
- Ad-Hoc Analysis

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TigerGraph Fraud Solution

Modules

Explorer

- Simple & Advanced Search
- Case, Alert & Ring View
- Link & Layout visualization
- Map & Grid View
- Graph Connection Information
- Hop & Connection Limits
- Save & Alert/Case attach
- Load / Save

Analytics

- Analytics 'Recipe'
- Segmentation
- Pattern Mapping
- Similarity & Cohort View
- Risk Grid
- Sankey View
- Save & Alert/Case attach
- Load / Save
- View Multiple TGraph outcomes

Alerts

- Alert Que & Detail
- Role based QueConnection View
- Detailed view of Alerts
- Linked parties, Graph
- Workflow EnabledAlert Builder Engine
- Boolean
- o TGraph Algo
- o Grouping Priority

Case Management

- Case Que & Detail
- Case file
- Subjects
- Alert linking
- Non-obvious connectionWorkflow & filtersCustomer Logic
- Build and Save
- Criteria & Actions
- Grouping

Dashboard

Dashboard Builder

Role & Task Based

- Alert & Case Que
- KPI elements
 - o Pie, Risk, Grids

Reporting

- Grid, Summary Reports
- Filters and Report
- Ad Hoc
- PDF, XLS, XML export
- Link GSQL

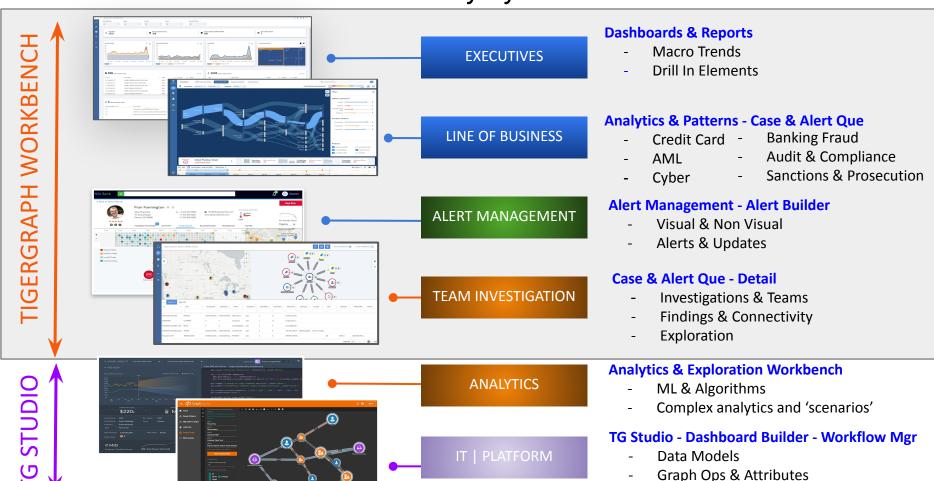
Workflow

- Setup CRUD
- Cases
- Alerts
- Reports (SARS)
- o Approvals, Status

ER/Data Enrichment

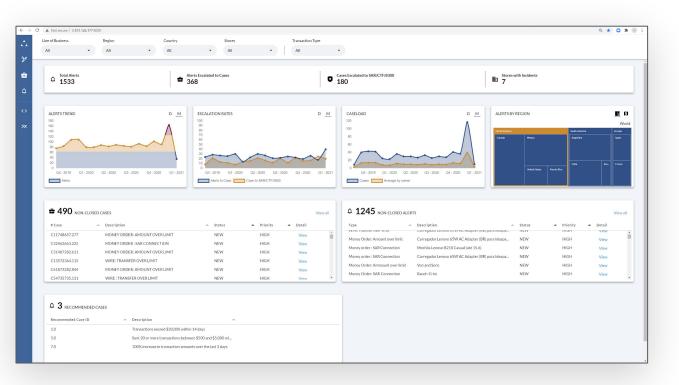
- Setup Link TGraph Algos
- Alert Links
- Dashboard Links
- Workflow and Errors

Visualization - Functionality by User



DASHBOARDS - VISUAL REPORTS

Typical User: Everyone

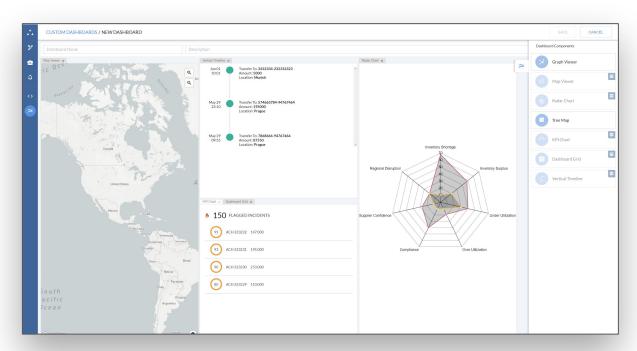


Dashboard

- 1. Role & Group Secure
- 2. Filters for stores, trx, regions, etc
- 3. Trends and Caseloads
- 4. Alerts by Regions
- 5. Quick View Cases
- 6. Quick View Alerts
- 7. Auto-grouped Cases
- 8. Role base Left Navigation

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Typical User: Business Superuser - IT



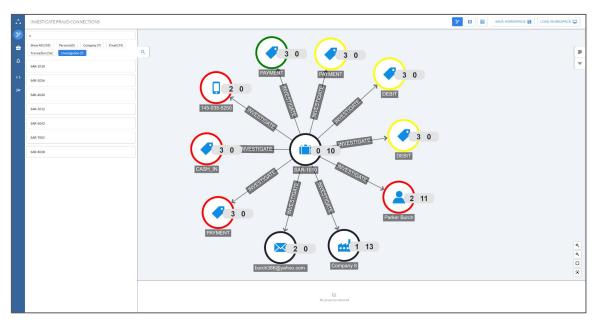
Dashboard Builder

- 1. Role & Group Secure
- 2. Drag & Drop
- 3. All current Widgets registered
- 4. Super User Controlled
- Can also utilize Walmart BI widgets - Tableau, Power BI or custom

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EXPLORER - WORKBENCH

Typical User: Level 3 Investigator (Lead Investigator)



Advanced Exploration

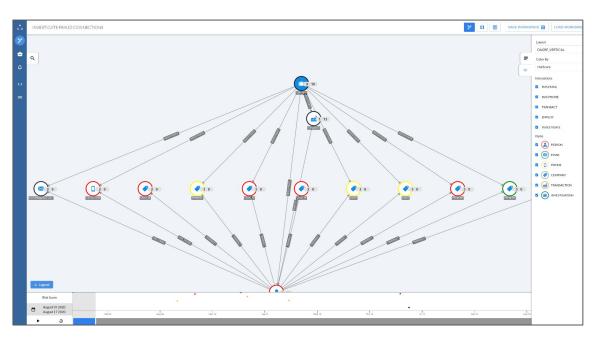
- 1. Node and connection investigation
- 2. Search Drag & Drop
- 3. Time Control over time band
- 4. Filters Nodes, Edges,
- 5. Layout Visualization Options
- 6. Node Detail Flyout out views

Team Sharing

- Save Workspace JSON
- 2. Load Shared JSON
- Attach to Case

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Typical User: Level 3 Investigator (Lead Investigator)



Advanced Exploration

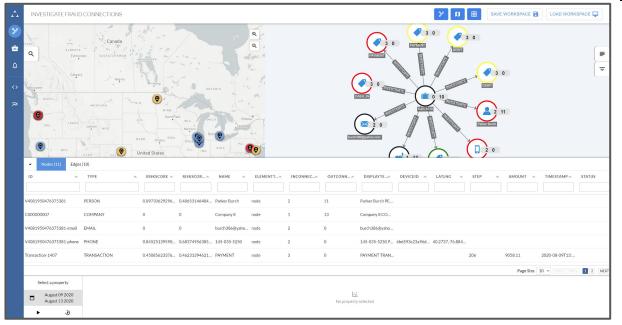
- Node Details
- 2. Connection Algorithms
- 3. Property Details
- 4. Comments CRUD
 - a. Nodes & Vertices
 - b. History
 - c. Free form text
 - d. Timestamp

Team Sharing - Role based

- 1. Atomic data security
- 2. Hide nodes, vertices
- 3. Remove Canvas

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Typical User: Level 3 Investigator (Lead Investigator)



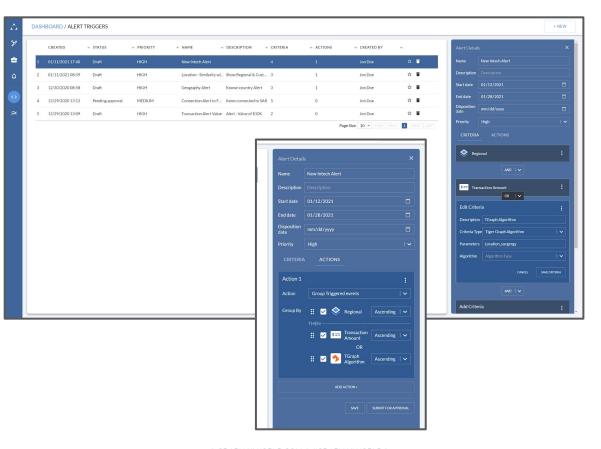
Investigation - Case

- 1. Geography View
 - a. Alert location
 - b. Transaction location
 - c. All lat/long data view
- Grid View
 - a. Sub-type search
 - b. Detailed attribute filters
 - c. Sorting
 - d. Vertex and Edges
- 3. Color Treatment
- 4. Layout Visualization Options

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ALERT BUILDER - ALERT QUE - ALERT DETAIL

Typical User: Business Super User

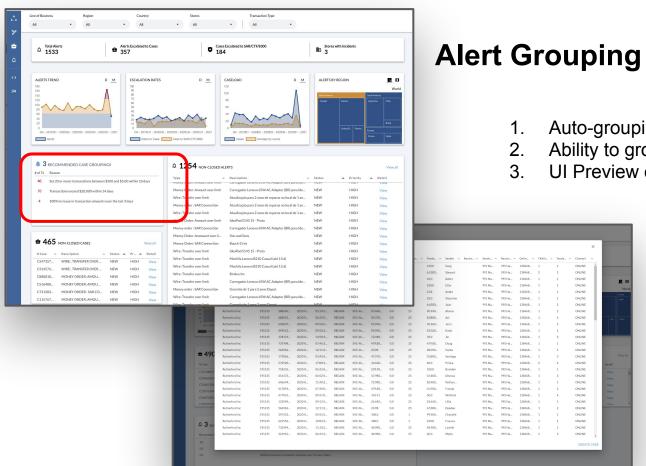


Alert Building - UI

- 1. Build and Save Alerts
- 2. Criteria Builder (Any loaded in TG)
 - a. Geography off limits
 - b. Transaction rules
 - c. Limits and ranges
 - d. Relationships
 - e. Devices
 - f. Custom
- 3. TigerGraph Algorithm Connections
 - a. Louvain
 - b. Shortest path
 - c. .. (25 standard Algos)
- 4. Alert Groupings Boolean & TGraph
 - a. Autogroup Alerts & Trxs
 - b. Boolean Logic
 - c. Sorting

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Typical User: Business Super User

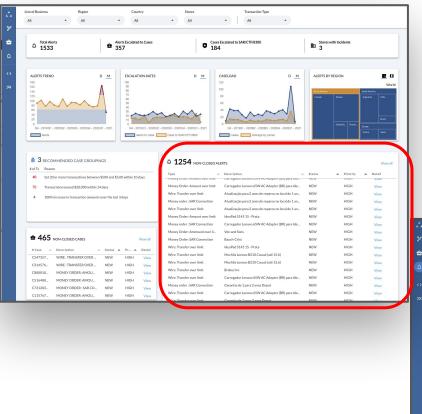


Alert Grouping - Alert Management

- Auto-grouping of Alerts
- Ability to group and Suggest Case
- **UI Preview of Alert Groupings**

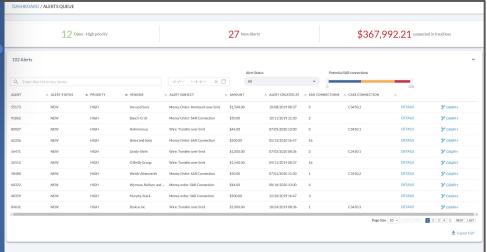


Typical User: L1 Investigator

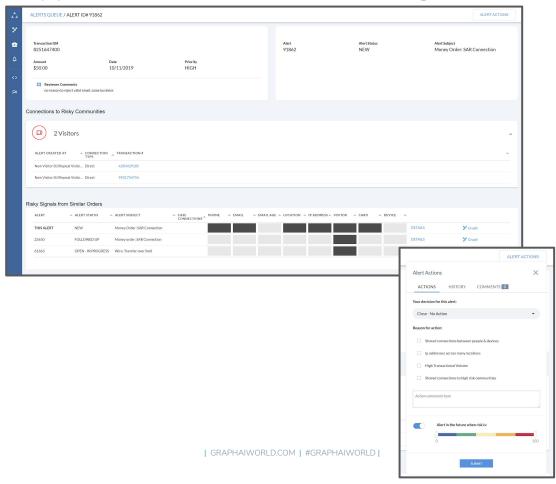


Alert DB - Alert Que

- 1. Quick Filter for New & Priority
 - a. Quick Sorting
 - b. Region, stores, country, transaction etc
- 2. UI Preview of Alert Groupings
- 3. Sorting Filters: Priority, Status, Case connections, etc.
- 4. Ad Hoc Filter and export XLS



Typical User: L1 Investigator

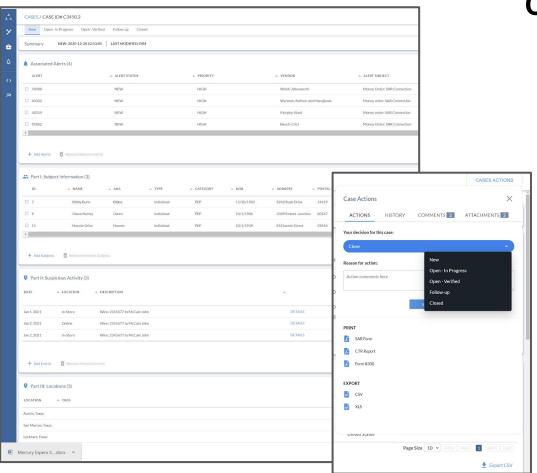


Alert Detail - Actions

- 1. Details of Why Alert was flagged
 - a. Header data
 - b. Region, stores, country, transaction etc
- 2. Risky Connection
 - a. Known lists
 - b. SARS
 - c. Other Cases
 - d. Custom TGraph Algorithms
- 3. Alert Actions
 - a. Status or Progress
 - b. Feedback Look to TGraph model and learning
 - c. History (similar to case)
 - d. Comments (similar to case)

CASE MGT - CASE DETAIL - INVESTIGATION

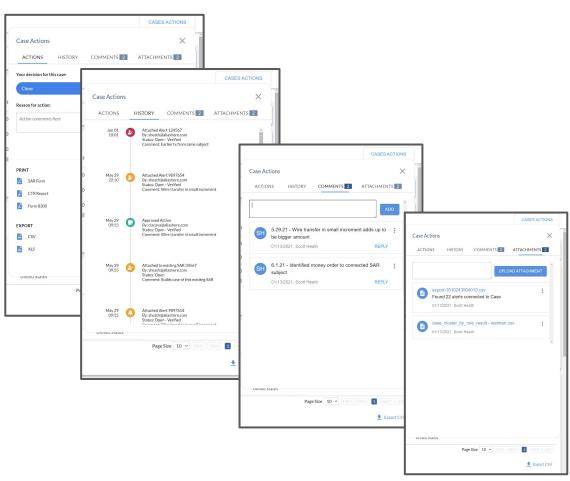
Typical User: L1-L3 Investigator



Case Management - Actions

- 1. Alert Association
- 2. Subject Information
- 3. Suspicious Activity
- 4. Locations
- 5. Non-Obvious Relationships
- 6. Print Multiple form options
 - a. SAR Form
 - b. CTR Report
 - c. Form 8,300
 - d. Custom templates
- 7. Export CSV, XLS
- 8. Individual section export XLS
 - a. Alerts in a case
 - b. Subjects of case
 - c. Activity
 - d. Non-obvious relationships

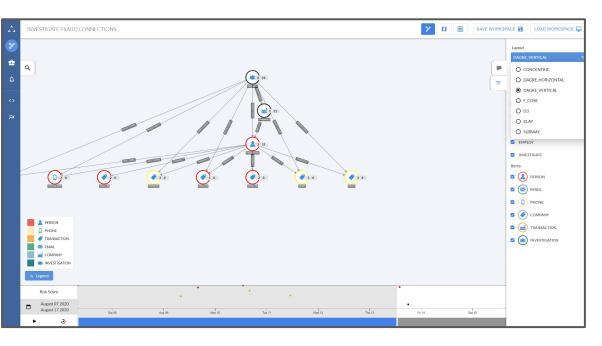
Typical User: L1-L3 Investigator



Case Actions

- 1. History Audit Trail of Actions
 - a. Date Time Stamps
 - o. Details
 - c. Actions
 - d. Ad Hoc Export XLS
- 2. Comments
 - a. Case Notes
 - b. Date Time Stamps
- 3. Attachments
 - a. Any Data Type
 - b. Comments
 - c. Date Time Stamps

Typical User: L1-L3 Investigator



Investigation - Case

- 1. Node and connection investigation
- 2. Drag & Drop
- Time Control over time band
- 4. Play Time Run time slider that automatically slides time
- 5. Color Treatment
- 6. Layout Visualization Options
- 7. Node Detail Flyout out views

Team Sharing

- 1. Save Workspace JSON
- 2. Load Shared JSON
- 3. Attach to Case

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