



About the Team

Analytics Library

Control Center

A&I Dashboard

Community

Training

Mission:

To provide AIG's Internal Audit Group with the most complete, continuous, and advanced data analytics through utilization of the latest tools while developing groundbreaking automated auditing solutions.



Michael Farlow - Head of Analytics and Innovation

Mike has extensive experience in designing and successfully implementing complex system solutions and processes that create sustainable business value and meet regulatory requirements. Expert in data quality and controls, specializing in bridging the technological needs of operations, finance and risk functions by transforming and reengineering system architectures, data warehouses and workflows.



Priya Gopinath - Director, Business Process Transformation

Lean Six Sigma Master Black Belt with over 18 years experience in leading organization-wide strategic planning, business transformation & process improvement initiatives. Experienced in accelerating traditional improvement lever benefits (Lean, Six Sigma) by combining them with smart workflow automation strategies in a transactional environment (i.e. embedding emerging technologies -NLP, RPA (robotic process automation) etc.)



Jacek Rawicki - Senior Data Analytics Manager

Jacek joined AIG in April 2015 with 10 years of experience in providing data analytics and data visualization solutions for various business processes (such as procure to pay, purchase to pay, journal entry, and many others). In his current role Jacek supports the US General Insurance team.



Russell Loi - CISA, OCA, Senior Manager, Analytics and Innovation

Russell joined AIG Japan in Feb 2015 with over 10 years' experience in data analytics. Prior to AIG, he led the data analytics practice of Suncorp Group's Internal Audit department in Australia, having joined their IT audit team in 2011. Russell began his career with Boeing Australia as a MIS analyst, and held other data-centric roles including as a Monbusho research scholar at Kyushu University. Russell holds degrees in Economics and IT alongside ISACA and Oracle certifications. He has business-level fluency in Japanese.



Atsushi Yagi - Data Analytics Manager

Joined AIG Japan in Jan 2017 with 10 years of experience in data analytics and data modeling. He has held various roles in many different industries including IT, supply chain, and consulting firms. Atsushi holds a Ph.D. in Physics.



Srinath Velpur - Data Analytics Manager

Over 14 year experience in IT Industry and 6 years in realm of data warehousing, data analysis and business intelligence. He joined AIG in Sept, 2018 and supports AIG Internal audit teams by providing data infrastructure services (such as data modelling, extraction automation, data driven advice and insights etc.). Before joining AIG, Srinath worked with NTT Data, (American Homes Direct, MetLife, Chubb as a vendor from) Cognizant as a data management and analytics professional.



Nidal Nasr - Director, Data Analytics

A 20 year veteran of AIG, Nidal has had various roles within the organization both in the New York home office as well as overseas in Madrid, Spain. His fields of specialty are operations and analytics, with a strong focus on reporting automation and advanced data visualization. Prior to his role in Internal Audit, he was Head of Claims Analytics for EMEA.



John D'Adamo - Analytics Senior Manager II

John has over 15 years experience as a Data Analytics professional. He has been with IAG Data Analytics for the previous 4+ years. His current responsibilities include supporting the IT and L&R Audit teams and providing the department with tools and training to enable the use of data analytics.



Nikhil Saxena - Senior Data Analytics Manager

Nikhil has over 13 years of experience in the realm of data warehousing, data analysis and business intelligence. He joined AIG in Feb, 2015 and is supporting GI, L&R, Finance audit teams by providing data analytics services (such as data visualization, full population testing, data driven advice and insights etc.). Before joining AIG, he has worked with Mckinsey & Company, Capgemini and other consulting firms as a data analytics professional.



Pueyen Lee - ACA, CIA, Audit Transformation Manager

Pueyen joined AIG Japan in September 2015, with 10 years' experience in the audit industry. In addition to 7 years leading and managing audits, Pueyen held multiple roles expanding her skillsets including audit transformation, development of data driven Management Information (MI) tools, data visualization & reporting of audit MI. Currently, Pueyen applies her risk-focused and data-driven approach to innovate better ways to audit that help transform towards the vision of continuous automated auditing. Pueyen began her career at KPMG UK following the completion of her degree in Accounting and Law.



Shobhit Dixit - Data Analytics Manager

IAG EMEA analytics lead with over 6 years of experience in AlG's data and systems. Certified Scrum Master with extensive project delivery experience of IT Systems audit, MI Reporting, Data quality/validation, Systems implementation, Business Analytics, Data Mapping and Requirements gathering. Knowledge of data science languages R, SAS, SQL and hands-on experience of tools like Qlikview, Cognos, Tableu, SSIS,SSAS & SSRS, SharePoint 2010. Certified in MCP in SQL Server 2008 BI, SAS Base Programmer, IBM Cognos 8 BI Developer.



Nirmala Pol - Data Analytics Manager

Bringing experience in data visualization/data story telling evangelism with front end analysis as part of R&D and Innovation department. A seasoned conference, events, webinar, analytics focus group, sales pitch, product training and SME speaker. Built best in class visualizations aligning to business needs and industry direction. Ran analytics podcast and written blogs to elevate use of self service. Involved heavily in Competitive Intelligence research with a go-to-market strategy to deliver best in class dashboard.

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Analytics Library:

Below are links to both the <u>"One Pagers"</u> which provide visual samples of actual analytics performed on audits (sanitized so as to be appropriate for sharing) as well as the <u>"Digital Magazines"</u> which group these One Pagers into logical decks. For a full listing of previously generated analytics, refer to our <u>A&I Operational Dashboard</u>.

Digital Magazines:



Analytics Magazine



Continuous Auditing Magazine



Full Population Testing Magazine



Sample Selection Magazine



General Insurance Magazine



IT Magazine



APAC Magazine



Analysis (Insights) Magazine



Automation Magazine



EMEA Magazine



Audit Scoping Magazine



Data Quality Magazine



Predictive Analytics Magazine



Life And Retirement Magazine



Data Visualization Magazine



Add Your Own Magazine

One-Pagers:



Reinsurance - Ceded vs Gross

Analytics Services: Full Population Testing, Analysis, Data Visualization

Description: To determine if policies are coded correctly by comparing ceded premium amounts to gross written premium amounts at the policy level and identify Policies where Ceded premium is more than the gross written premium and quantify this as a policy coding error.



Life Product Analysis

Analytics Services: Full Population Testing, Analysis (Insights), Visualizations

Description: As part of the audit IAG completed some data analytics using policy data from 1 January 2017 – 31 May 2018. Below sets out the results of some of our analytics and how this information could be used to help evaluate intermediaries and the book of business. The analytics was performed using Qlikview and can be made available on request.



Peer Review- UW Review Control

Analytics Services: Sample Selection, Analysis (Insights), Visualizations

Description: Peer Reviews are not being performed to comply with the 3 reviews per underwriter per quarter requirement across the product towers and regions to support an effective control environment. Analytics team worked with Audit team to develop this dashboard and is being used in multiple personal insurance UW audits.



Claims Automated Testing

Analytics Services: Full Population Testing, Automation, Data Visualization, Self Service, Continuous Auditing, Data Quality

Description: Multiple full population tests, which run on a continuous, automated basis, conducted on global claims population throughout the claims lifecycle.



First Notice of Loss - Timeliness

Analytics Services: Analysis, Sample Selection

Description: The entire population of claims for the scope of the audit was reviewed to determine if the First Notice of Loss for each claims was entered into the system within the 2 day threshold established by the business. The preliminary results indicated that the majority of claims exceeded this threshold. Samples were taken to substantiate the results. Although there were some false positives, this test resulted in a moderate finding for the business.



Global Rater Quote Discount/Loading Analysis

Analytics Services: Full Population Testing, Visualization, Analysis (Insight)

Description: IAD conducted own analysis of the 2017 quote data, as captured within the Global Rater Sharepoint and provided to us by Global PA Actuarial Management. Across the GPA and BTA products, the charts show the levels of discounting and loading, both in terms of the frequency of discounting or loading, and the average levels applied.



CRS Reinsurance Review

Analytics Services: Full Population Testing, Analysis, Data Visualization, Audit Scoping

Description: Analyze all policies for all product tower from 2017 UW year from CRS data source to develop insights on potential reinsurance issues.

Dashboard allows the user to explore various scenarios to develop insights and allows for drill-down details to support follow up conversations with the client.



CRS Commission Review

Analytics Services: Full Population Testing, Analysis, Data Visualization, Audit Scoping

Description: Analyze all policies for all product tower from 2017 UW year from CRS data source to develop insights on commissions. Dashboard allows the user to explore various scenarios to develop insights and allows for drill-down details to support follow up conversations with the client.



Group Retirement - Quality Review of Non-Financial Processing

Analytics Services: Full Population Testing, Analysis (Insight), Visualization

Description: Analyze the correlation of processor fail rates (Quality Review fails divided by total work items processed) against years of experience.



Claims Profiling Workbook

Analytics Services: Audit Scoping, Sample Selection

Description: Provides summary information of volume and performance across the claims lifecycle.



Reinsurance Premium Coding

Analytics Services: Full Population Testing, Analysis (Insights)

Description: Review all of the Casualty Excess policies which have treaties associated with them; identify all policies where the actual ceded premiums are not consistent with the expected ceded premiums.



Compliance Testing - Do Not Call List

Analytics Services: Full Population Testing, Analysis (Insight), Visualization

Description: Analyze outbound calls manually dialed by sales agents to customers identified as 'Do Not Call', within the client manager application to develop insights on potential regulatory issues. Dashboard allows the user to explore various scenarios to develop insights and allows for drill-down details to support follow up conversations with the client.



The Virtual IT Auditor - VITA

Analytics Services: Full Population Testing, Continuous Auditing, Automation, Data Quality Assessment

Description: VITA is a pilot automation project that aspires to replace traditional, sample based audit practices with continuous full population testing and automation of documentation. The first use case for VITA is the testing of controls and the assessment of data quality related to terminated employees' user access.



Implementation Predictive Model

Analytics Services: Predictive Analytics, Automation

Description: Historical defects closure rates were used to predict whether Saisentan UAT defects could be closed by the agreed Go-no-go deadline.



FNOL Country Analysis

Analytics Services: Full Population Testing

Description: Review entire population of claims for Property and Special Risks to determine if any claims are exceeding the SLA of 30 days for the FNOL.



Peer Review Dashboard

Analytics Services: Full Population Test, Sample Selection, Analysis (Insights), Visualizations

Description: Dashboard designed to analyze the complete population of Peer Reviews to aid in risk based sample selection and provide assurance around the control that requires that reviews be performed periodically.



Overtime Monitoring Dashboard

Analytics Services: Continuous Auditing, Full Population Testing, Automation

Description: Automatically reviews timesheet data for all Japan employees to assess whether they are in compliance with regulatory guidelines related to overtime.



Field Office KRI Monitoring Dashboard

Analytics Services: Continuous Auditing, Sample Selection, Analysis (Insights), Visualization, Automation

Description: Enable auditors to continuously assess the risk levels at each Field Office and select offices for inspection where necessary using a structured, objective approach



IT CAP Dashboard

Analytics Services: Audit Scoping, Analysis (Insights)

Description: The dashboard enables a consolidated timely view of Technology audit coverage and issues, reducing the need for manual analysis and enabling improved identification of IT issue themes and control trends.



Duplicate Policy Detector

Analytics Services: Full Population Testing, Automation, Data Visualization

Description: Identifies duplicate personal property policies sold to the same customer against the same insured address month-by-month. Analyzes multiple policy date records (including cancellation and endorsement dates) to accurately determine the months in which the policy was in force.



Commercial Insurance Dashboard

Analytics Services: Self Service Data, Analysis (Insights)

Description: The dashboard was developed to provide access to data across multiple domains presented in a consistent manner.





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Automation:

The following controls are part of our self-service automation approach, in which light parameters are passed to various scripting and automation tools which auto-generate audit output. (Click the thumbnails for the One-Pagers)

Claims Audit Automation



Multiple full population tests, which run on a continuous, automated basis, conducted on global claims population throughout the claims lifecycle.

Note: Access to Qlikview Dashboard explicitly required.

Life Product Analysis



Analysis of Life Product metrics reviewing commissions, cancellations, mid-term adjustments, and well as a submission and cancellation forecasting analysis.

Note: Access to Qlikview Dashboard explicitly required.

Launch

Reinsurance Premium Coding



Review all policies which have treaties associated with them; identify all policies where the actual ceded premiums are not consistent with the expected ceded premiums.

> Note: Access to ACL Desktop software required.

PI Peer Review -**Underwriter Quarterly** Review



Currently used in multiple PI UW audits to test complaince with the 3 reviews per underwriter per quarter requirement across product towers and regions.

Note: Access to Qlikview Dashboard explicitly required.

Reinsurance -**Ceded vs Gross**



Compares ceded premium amounts to gross written premium amounts at policy level and identify where Ceded is greater than Gross Written Premium, quantifying as a policy coding error.

Note: Access to Qlikview Dashboard explicitly required.

Launch

Launch

Launch

Launch

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About the Team

Analytics Library

A&I Dashboard

Analytics **Operations:**

Our IAG Analytics Operational Dashboard is designed to provide key metrics and tracking of Analytics Services and Value Adds related to Audit projects and initiatives, with a focus on audits selected for analytics.

Launch

Header Bar:



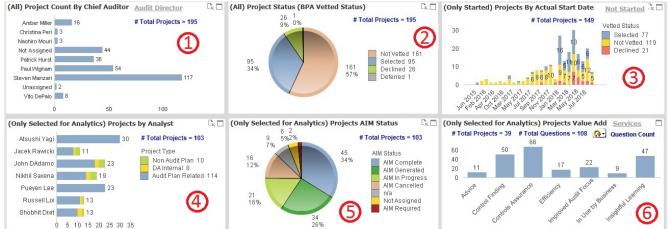
- 1. Search Bar -- can be used to filter for any data emement present in the data, including but not limited to Audit Director, AIM Status, Question, Data Analyst, etc.
- 2. Bookmarks -- bookmarks represent a group of filters, and can be saved and reused at any future date.
- 3. Current Selections -- shows all filters currently applied to the dashboard. They can be cleared indivudlaly from this box using the white "eraser" icons or modified individually using the black triangle.
- 4. Clear -- clears all filters currently applied to the dashboard.
- 5. Last Updated Date -- shows when the last update was made from BPA/AFI data. Typically, the dashboard refreshed every morning at 7 AM US Eastern Time.

Filter Bar:



The filter bar contains several of the most commonly used filters, including Vetted Status, Audit Year, Business Segment, and Audit Type. It allows for easy multi-selection where required. Note that any data element in the dashboard can be used as a filter, and will appear in the "Current Selection" box when you click on in from any of the graphs or tables.

Graphs:



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2018

Collateral Management

- 1. Project Count By Chief Auditor -- can also be toggled to show project count by Audit Director by clicking on the "Audit Director" text
- 2. Project Status -- A summary of BPS status regarding which audits have been selected for analytics, which have been declined, and which require follow-up to insure vetting takes place.
- 3. Started Projects by Actual Start Date/Not Started Audits by Estimated Start Date -- useful for reviewing which audits require attention from the Analytics team, ideally as early in the process as possible.
- 4. Selected Projects by Analyst -- used to monitor workload and work assignment within the analytics team.
- 5. Selected Projects' AIM Status -- used to insure active projects have been selected and analytics are progressing as planned, and that no projects get to completion without finialized and logged analytics.
- 6. Analytics Value Add and Services -- counts the total number of projects and total questions for the selected population, and quantifies questions and services by category. Can be toggled between question count and project count.

Detail Tables: Q ID Q Desc Q ID Q Desc 34 Are MLRs prepared for all claims over the threshold... Are the claims set up within 48 hours from FNOL? 12 Do claims in aggregate except onliev limits? 1 Analysis Audit Scoping Automation Continuous Auditing Data Quality Assessr 100% exceed policy limits? Data Visualization Full Population Testing Sample Selection Self Service Data Is premium booked aligned 20 with the loss ratios? Are claims adequately 11 paid? Was the payment a... Are claims adequately 2 . reserved (indemnity and Audit Year - Audit ID - Audit Name Audit Type - | Seament Chief Auditor - MD Audit Director - Audit Start Date - Audit End Date - Expected Start Date - Expected End Dat 9/27/20 nformation Techn. Vito DePalo hange Managemen Japan - Finance IBNR AHA Products Develop inance Beneral Insurance Kumi Nishikawa Kumi Nishikawa 8 5/31/20 3/1/20 3/4/2019 Steven Manzai 27827 28126 AIGSS Philippines - Sh General Data Protection General Insurance General Insurance Steven Manzari Kumi Nishikawa Paul Pennant 12/3/2018 10/15/2018 2/28/20 2/22/20 2018 2018 27598 27901 PS and Claims Audit (General Insurance General Insurance teven Manzari Kumi Nishikawa 11/1/2018 12/3/2018 1/31/20 1/31/20 ico Regulatory Rev Paul Wigham Steve Del Villar APAC Travel (ATAP) In. Premium Collection, Bra 27811 27813 General Insurance General Insurance Steven Manzari Steven Manzari Kumi Nishikawa Kumi Nishikawa 12/31/20 12/31/20 10/1/2018 2018 2018 Hong Kong Personal In. Malaysia Regulartory A. General Insurance General Insurance Steven Manzari Steven Manzari Kumi Nishikawa Kumi Nishikawa 27815 28147 12/31/20 lit Yea re Result Folder Analys Blobal Sourcing & Proc Is due diligence performed on all vendo Are all professional services transactio. Click here 2018 27043 27043 Blobal Sourcing & Proc Blobal Sourcing & Proc 78 79 80 81 82 83 84 85 86 194 Click here Click here 4 Are vendor details correctly processed Are the SAP EP1 rules used to identify 2018 Are the SAP EP1 rules used to identify. How many invoices are processed belo. What is mgmt doing to reduce the # inv. Are payment files from the ARIBA and ... Does FG prevent payment/SAP payme. Does FG efform/SOW correspond to a P Did management accurately identified a the Overthic Entenders. With Celline ... 2018 2018 2018 2018 2018 2018 2018 27043 27043 27043 27043

1. Services Breakdown -- a consolidation of provided services by value-add, applicable to all filters selected in the above sections.

Is the Quarterly Enterprise- Wide Collat.

- 2. Reusable Tests -- contains a summary of test questions which have been reused. Useful for monitoring success or overall reusable testing methodology.
- 3. Project Details -- a summary of key project details, including actual and expected start dates, segment, audit name and number, etc.
- 4. Test Details -- a detailed listing of questions investigated during the audits, including links to the folders in which the results and test details are stored. Very useful after clicking (thus applying a filter) on a specific audit number from the "Project Details" table.

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Analytics Integration Matrix (AIM) Training

Enhanced Audit Approach as applicable to Data Analytics

Analytics Pre-work

Pre-Planning

Planning

Fieldwork

Reporting

Wrap-up

Topics

- Selecting an Audit for Analytics and completing the Analytics Integration Matrix (AIM) Template
- Align analytics to full population testing of key control
- Define requirements and testing approach
- Facilitate re-use by storing procedures in a centralized location that may be referenced late



AIM Training The Analytics Integration Matrix



The 'Analytics Integration Matrix' (AIM) excel document template is shared with the audit team by an Analytics and Innovation associate, when the audit team elects to leverage analytics within an audit during the early stages of an audit.

AUDIT STAGES Pre-Planning / Analytics Pre-Work **Fieldwork** Reporting & Wrap Up **Planning** Audit team fills the AIM document Associate shares information • Audit team finalizes summary within Audit leadership and team elects to template in conversation with with / guides the audit team as leverage analytics for specific audits AIM Analytics and Innovation associate is associate, as needed analytics results mature and Associate uploads the final results Audit team returns filled AIM • Audit team finalizes value capture assigned progress

Audit team provides updates to

business and updates AIM

template on summary of

analytics results

Audit Selected for Analytics

'Analytics Integration Matrix' (AIM)

with the audit director/ designee

• Subject Area (Level 1 and Level 2

excel document template is shared

Processes) and Risk Scenarios are

Subject Area Defined Tests / Value Prop AIM Updated AIM Finalized

template back to associate

effort matures & progresses

server

Associate uploads AIM document to

Associate shares information with /

guides the audit team as analytics



captured

and services leveraged within AIM

analytics and sends it to associate

· Analytics team documents a one

pager showcasing results using

AIM Training | Selecting an Audit for Analytics



This section must be

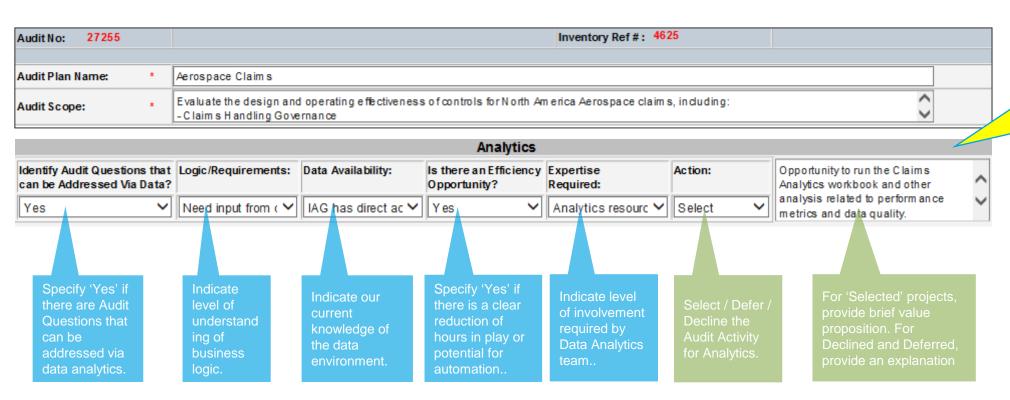
filled out by

the end of

'Planning'

Fields have been added to BPA to allow for Data Analytics to be selected. The **BLUE** fields are a quick survey to consider feasibility of analytics. The **GREEN** fields represent the decision and the justification for the use or non-use of analytics on the audit.

Selecting an Audit for Analytics will place a work item in the queue of one of the members of the Data Analytics team. They will generate an AIM and contact the Audit Team to begin the analytics process.

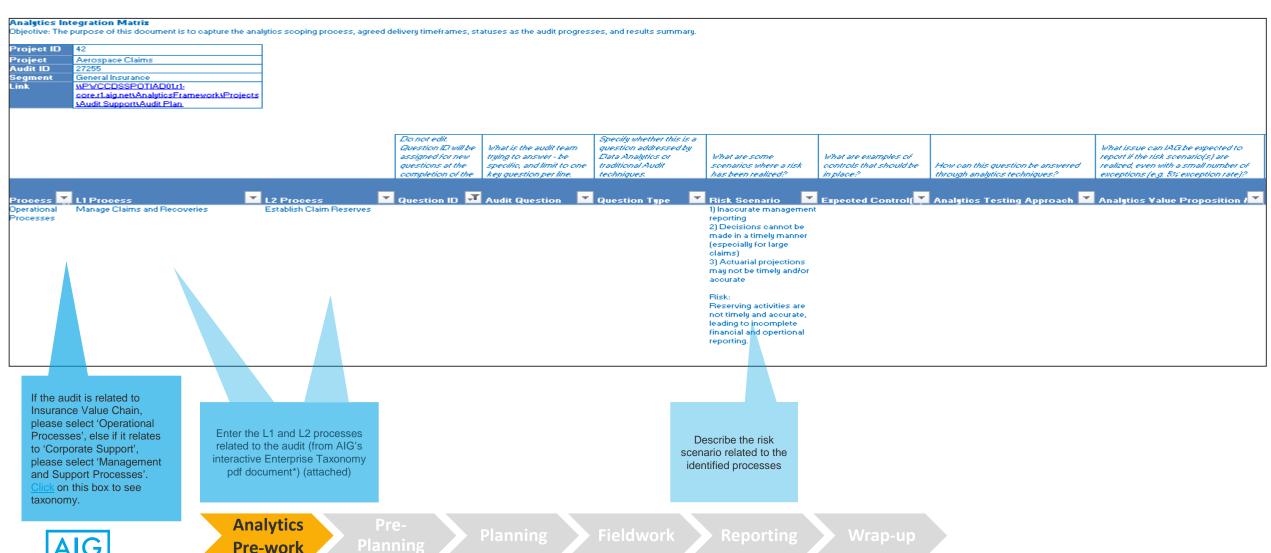




AIM Training | Subject Area and Risk Scenarios



Populate L1 and L2 Process and applicable relevant Risk Scenarios (you can reference the <u>AIM History</u> tab in the AIM workbook for a searchable repository of previous analytics work)

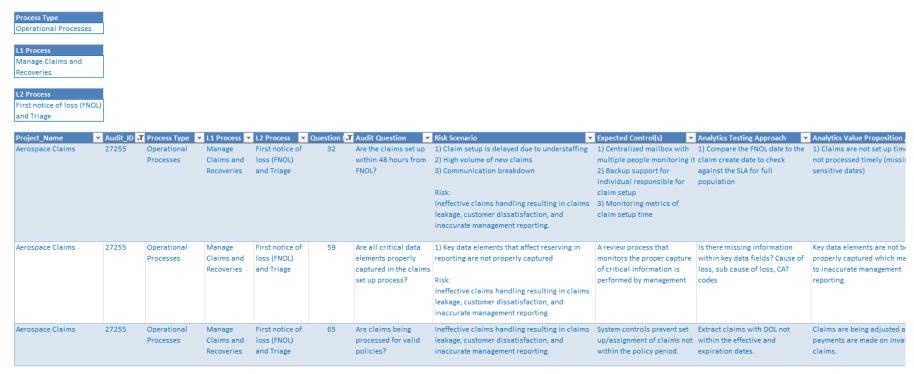


AIM Training | AIM History



Provided for reference, the AIM History tab contains a record of all of the analytics tests that have been completed on audits with references on where to find the associated deliverables. This includes:

- Risks and controls addressed
- Overview of the testing approach
- Summary of Results with an indication of the value capture



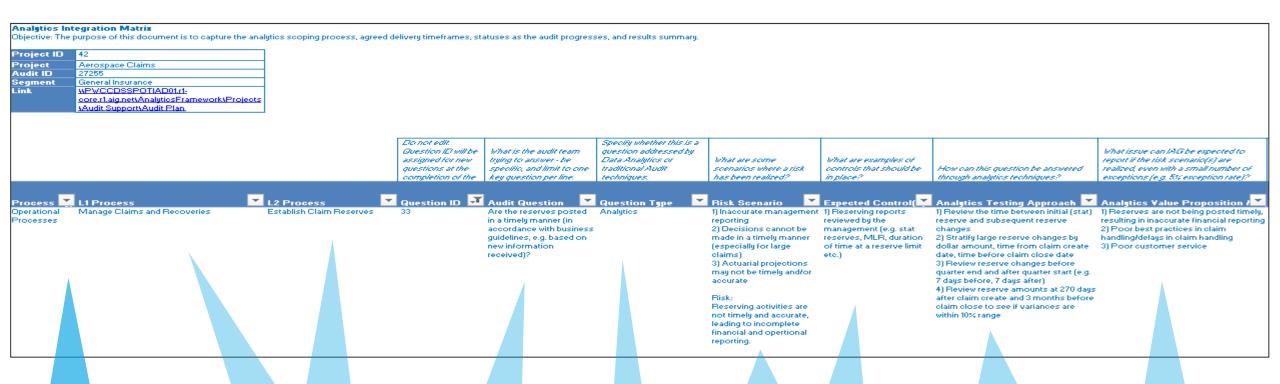




AIM Training | Define Question and Testing Approach



Define Audit Questions and Testing Approach (you can reference the Question Library tab in the AIM workbook to reuse previously defined Audit Questions)



If the audit is related to Insurance Value Chain, please select 'Operational Processes', else if it relates to 'Corporate Support', please select 'Management and Support Processes'. Click on the box to see taxonomy.

Enter the L1 and L2 processes related to the audit (from AIG's interactive Enterprise Taxonomy pdf document*) (attached) Enter a question which the audit team is trying to answer. Note: Be specific and limit an entry to 1 key question per line. (please see example above)

Select 'Analytics' from drop down menu options Describe the risk scenario related to the audit question

List the controls which should be in place to prevent or mitigate the described risk Describe (in conversational English) how this audit question may be answered leveraging available data (please see example above)

Describe the issue which would be reported if the risk scenario is realized, even with a small number of exceptions (adverse results should result in reporting of a Moderate issue at minimum)

Analytic Pre-wor Pre-Planning

Planning

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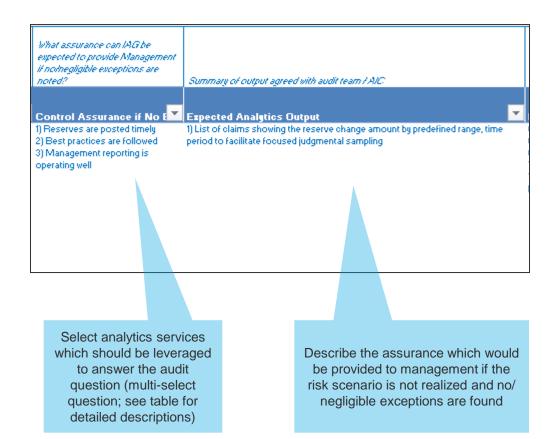
eporting

Vrap-up



AIM Training | Select Analytics Services and Specify Assurance Provided

Description of the Analytics Services Involved and Assurance Expected



Analytics Services	Description	
Full Population Testing	Develop conclusion, typically on controls, based on review of full population of transactions.	
Audit Scoping	Provide population statistics that guide the focus of the audit.	
Sample Selection	Provide contextual analysis that informs judgmental sampling.	
Automation	Replace manual audit steps with push-button processes.	
Analysis	Inspect, cleanse, and transform data with the objective of highlighting meaningful information, suggesting conclusions, and supporting decisions Hindsight, Predictive, Prescriptive.	
Continuous Auditing	Solution that provides on-demand testing of controls or monitoring of risk indicators.	
Data Visualization	Visual representation that can be used to enhance to messaging of analytics' results (e.g. chart included in the audit report).	
Self Service Data	Provide data to inform decisions (user performs queries or generates reports on their own, with nominal support)	
Data Quality Assessment	Evaluating data in order to determine whether it is the right type and appropriate to support the intended use.	
Next Generation	Provide insights leveraging emerging and disruptive technologies e.g. Natural Language Processing, Machine Learning , AI, Cognitive and Intelligent Automation technologies	

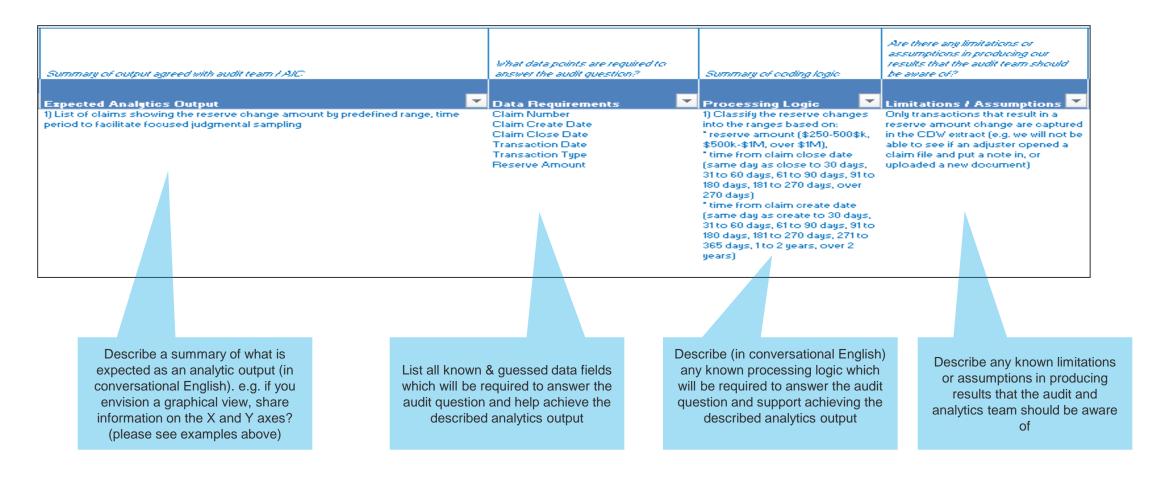




AIM Training | Data Requirements and Business Logic



Address what will be needed as inputs and outputs for the test to be successful.





AIM Training | Question Library



The Question Library can be used to automatically populate the AIM with Audit Questions and associated Level1 and Level2 processes that have been addressed on previous audits.



1. Filter for relevant Process

3. Hit the '+' sign to add the question(s) to the AIM

Process Type	L1 Process	▼ L2 Process	▼ Question ID	Question Description	Add Question to AIM?
Operational Processes	Manage Claims and Recoveries	First notice of loss (FNOL) and Triage	3	Are claims set up and reserved timely upon first notice of loss?	
Operational Processes	Manage Claims and Recoveries	First notice of loss (FNOL) and Triage	4	Are claims assigned to adjustors that are actively licensed in that state?	Yes
Operational Processes	Manage Claims and Recoveries	First notice of loss (FNOL) and Triage	5	Did the claim occur (loss date) within the policy effective period?	
Operational Processes	Manage Claims and Recoveries	First notice of loss (FNOL) and Triage	30	Do actual caseload levels exceed the staffing model caseload levels?	
Operational Processes	Manage Claims and Recoveries	First notice of loss (FNOL) and Triage	32	Are the claims set up within 48 hours from FNOL?	Yes
Operational Processes	Manage Claims and Recoveries	First notice of loss (FNOL) and Triage	57	Are claims assigned to adjusters that have the requsite expertise to handle the claim?	
Operational Processes	Manage Claims and Recoveries	First notice of loss (FNOL) and Triage	59	Are all critical data elements properly captured in the claims set up process?	
Operational Processes	Manage Claims and Recoveries	First notice of loss (FNOL) and Triage	65	65 Are claims being processed for valid policies?	
Operational Processes	Manage Claims and Recoveries	First notice of loss (FNOL) and Triage	120	Are the data for key dates valid for all claims?	
Operational Processes	Manage Claims and Recoveries	First notice of loss (FNOL) and Triage	121	Is claim created on a timely manner after FNOL?	
Operational Processes	Manage Claims and Recoveries	First notice of loss (FNOL) and Triage	122	Are there any claims paid despite being outside effective policy dates?	

2. Specify 'Yes' for the questions you would like to select



Analytics Pre-work

Pre-Planning

Planning

eldwork

eporting

/rap-up

AIM Training | Results and Value Capture



Summary of analytics results and relevant observations

Link to detail testing spreadsheet

Summary of how the audit team has used the analytics results.

Results Summary

Provided a summary of large claims transactions (1,190 in of them based on number of days from claim creation, to claim closure, and in relation to quarter end.

Results Detail Link

MPWCCDSSPOTIAD01,r1total over \$100k) flagging each AProjects\Audit Support\Audit Plan Related\Aerospace Claims (27255)\Questions\33

Audit Team Follow-up

- Through Data Analytics, there were 4 claims core.rl.aig.nett.AnaluticsFramework, identified that had a reserve change greater of \$250k that occurred 30 days prior to claims close. and were over 30 days since claim create. No trend was determined by either adjuster or handling. office. IAG sampled 2 files and observed that reserves were established on an incorrect file and immediately closed and the payment was corrected from indemnity to expense.
 - Between Q1 2017 and Q1 2018, there were 4 claims (6 features) that had a reserve increase over \$1M. that occurred either 7 days prior to guarter close or 7 days after the quarter began. No trend was identified. IAG sampled all 6 files and verified that reserves were changed timely.

Describe how the audit team is using the analytics results during discussions with business and in the audit report. If the test did not produce any value, please provide some comments so we can learn from the experience.



Used (Use icon above to add new data

Claims Data Warehouse CDW (5)



Select Existing Analytics Solution Used (if applicable)

Value Realized

Question Score

Controls Assurance

Value Add

Once the analytics have been delivered to the linked location and discussed, provide a high level summary of analytics results housed in files at the location

Select the relevant data Select the relevant source for the question from the menu options. If your data source is not listed, please click on the icon to add the data source

analytic solution for the question from the menu options. If your solution is not listed, please click on the icon to add a

new solution

Select all 'Value add' options that apply to the question from the menu



Wrap-up

AIM Training | AIM QA



AIM QA Overall Objectives

- 1. To assess if each AIM entry clearly explains how the analytics work adds value* to the audit.
- 2. For each value-add AIM entry, verify if it can be re-performed to enable automation and/or in another audit with similar scope.
- 3. Where AIM entry does not provide valueadd, are we clear on the "lessons learned" so we can improve going forward.

*	Va	lue-Add	Cate	ories:

- 1. Controls Assurance
- 2. Control Finding
- 3. Improved Audit Focus
- 4. Insightful Learning
- 5. Advice
- 6. Efficiency
- 7. In Use by Business

AIM QA Phase	When	Purpose
Initial/Interim QA	Before Planning Tollgate	To evaluate if the AIM contents are clear to enable IAG to potentially generate value-add. QA specifically looks at the following: Audit Questions, Risk Scenarios, Control Assurance to be provided, and if the processing logic is achievable to achieve the Testing Approach using the Data Requirements as set out in the AIM.
Final QA	After Reporting stage	To evaluate the completeness of the AIM contents against the three QA objectives as set out on this page.

Main AIM QA Criteria

#	Category	#	QA Criteria	QA Question	Which Field should be Adequately Filled In
1	AIM Output /	1.1	Accurate Value	Is each "value captured" justified?	Main:
	Value Assessment		Capture		4.11-Results Summary
					4.14-Audit Team Follow-up
					Secondary:
					4.1-Audit Question
					4.2-Risk Scenario
					4.3-Expected Controls
					4.5-Analytics Value Proposition / Impact if
					Exceptions Found
					4.7-Control Assurance if No Exceptions Found
		1.2	Reperformabilit	- If this test is considered valuable, can I re-perform it	4.4-Analytics Testing Approach
			У	adequately with the info in the AIM record?	4.6-Analytics Services
				- Is the analytics approach clear enough for me (or an	4.8-Expected Analytics Output
				experienced data analyst) to replicate?	4.9-Data Requirements
				- Can I obtain the data?	4.10-Processing Logic
				- If there is a need to reperform, are there any significant	4.11-Limitations / Assumptions
				steps where I (or an experienced data analyst) get stuck	
				and cannot proceed?	
		1.3	Lessons Learned	If the test did not lead to a valuable outcome, can I	4.14 Audit Team Follow-up (if applicable)
				understand what I should do differently to arrive at a	
				valuable outcome in future?	





AIM Training | Example One Pager (Claim Create Timeliness Example Below)



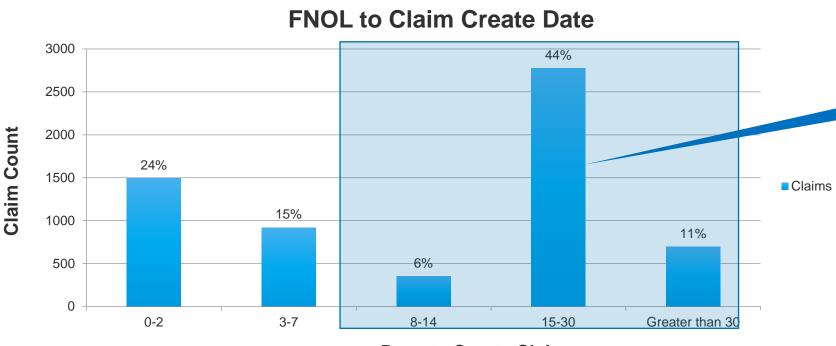
Description: The entire population of claims for the scope of the audit was reviewed to determine if the First Notice of Loss for each claims was entered into the system within the 2 day threshold established by the business. The preliminary results indicated that the majority of claims exceeded this threshold. Samples were taken to substantiate the results. Although there were some false positives, this test resulted in a moderate finding for the business.

Analytic Service(s): Analysis, Sample Selection

Business Value:

- Insightful conversations with client related to the claims triage process
- Action plan related to the remediation of the issue will focus on communication of business standards and increased monitoring of the Claim Create metric

When the audit is complete, the Analytics team will prepare a one-pager that summarizes the Services and Value Capture.



61% of claims analyzed exhibited a Claim Create Date greater than 7 days after FNOL

Benefits of Approach

- Provides visibility into full population of claims rather than the limited view provided by sampling
- Details easily shareable with the client so they can validate or refute the findings



