

The API Landscape Assessment

Better secure, manage, and strategize around
your APIs both now and in the future



Introduction

Despite a multitude of API tools, systems, gateways, and even API platforms, many organizations are lacking a foundational lens into their internal API landscape. This lack of perspective is leaving leaders unable to adequately understand API security risk levels or able to improve operational capabilities around APIs. In light of current geopolitical events, growing cybersecurity threats, growing numbers of APIs and more, cybersecurity teams are left wanting a wider lens into their API portfolio.

By conducting an Enterprise API Landscape Assessment, organizations can quickly and easily get an accurate understanding of their internal API landscape for the first time, at a critical time. In addition, the out-of-the-box capabilities of the Process Tempo platform, supported by Neo4j's back-end, allow the API landscape to be maintained continuously, updating as the API landscape itself grows and evolves and allowing stakeholders to track progress of their goals and objectives over time.

About the Assessment

The API Landscape Assessment is designed to tackle these three key challenges and provide organizations with an accurate and comprehensive understanding of their internal API landscape. The assessment helps to highlight security concerns, identify quality & design issues, prioritize and react appropriately, and implement and track remediation efforts around vulnerabilities. The Assessment focuses on three key areas:



API Discovery & Inventory

Create a single source of truth for all API-related information



API Risk & Quality Scoring

Develop a perspective of risk caused by poorly designed APIs



API Tracking & Reporting

Determine how well the organization is reacting to API security risk



API Discovery & Inventory

The disconnected nature of the API effort and the complexity of the API landscape means that most organizations are vastly underestimating the number of APIs within their portfolio, even if they do have API inventories already in place. This simple blind spot of not having a truly representative figure of how many APIs an organization has is incredibly concerning from a security, management, and strategy standpoint.

To navigate these concerns and to provide an accurate inventory, we begin by tapping into the enterprises existing API tools, gateways, API platforms, and other systems to create a single data source that is reflective of the APIs used across the organization. The result is an organized, standardized repository of API information - an API Catalog - that is generally the most comprehensive system of record an organization can possess around their APIs. As the API Catalog remains connected to the data sources, the information stored never goes out of date and is refreshed continuously.

CASE STUDY | HIGHLIGHTS

Process Tempo conducted this assessment for a top Fortune Automotive Manufacturer with a large (100+) development team. Here are the results:

45 Days to complete

11 Data source connections

+700 New APIs discovered

+2,000% Increase in no-use APIs identified

48 Hours saved for each API classification step

+9 Additional use cases uncovered



API Risk & Quality Scoring

Armed with the API Catalog, Process Tempo + Neo4j are then able to help the organization conduct an API Ownership Audit. This audit connects APIs with specific people so the responsibility for remediating poorly designed APIs can be defined and tracked. Each API is then assessed from a risk and quality perspective using a pre-defined scoring template.

Risk Scoring variables

- Authentication methods used
- Potential PII exposure
- Key rotation frequency
- Confirmed published to a gateway

Quality Scoring variables

- Usage metrics
- Number of consuming apps
- Number of methods exposed
- Potential for the existence of duplicate APIs

CAN YOU ANSWER THESE
QUESTIONS ABOUT YOUR APIS?

- How many APIs exist in my landscape? How many are high priority?
- How long does it take to classify an API?
- Is the organization on track to reach its security risk reduction goals?
- What is the overall risk from APIs? Is it trending up or down?
- How quickly are API vulnerabilities being addressed?
- How long do security issues persist in development backlogs?
- Are the vulnerabilities isolated to particular teams/products?
- How am I prioritizing APIs for remediation?
- Is the quality of my APIs improving over time?
- How can I prioritize APIs that need to be decommissioned?
- How many of my APIs are on a specific gateway?

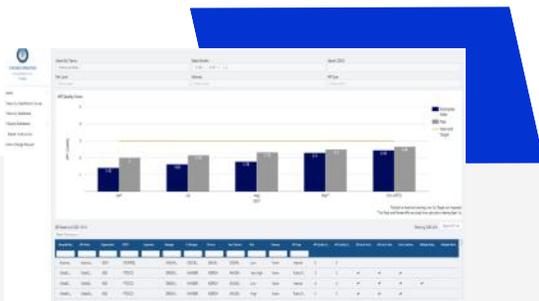




API Tracking & Reporting

Once API Risk and Quality concerns have been identified, the organization should immediately take steps to begin fixing and remediating these issues. Process Tempo + Neo4j support this effort through pre-built, auto-populating dashboards and reports designed specifically for tracking the remediation effort. With on-demand access to up-to-the-minute data, stakeholders are provided the perspective they need to identify areas that require improvement and to implement necessary changes. Additionally, the individualized domains and accompanying self-service reporting and dashboard features of the platform allow the organization to create their own unique perspectives for other API-related use cases, such as gateway migration efforts, cloud migration efforts, developing customer portals, and more.

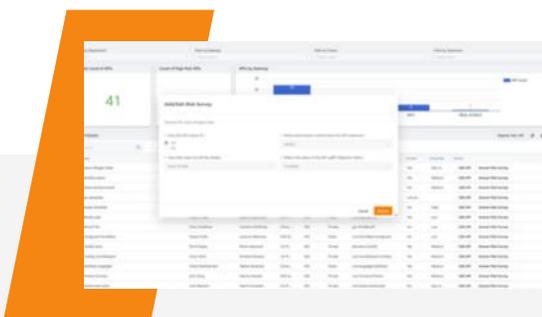
Out-of-the-box Dashboards & Reports



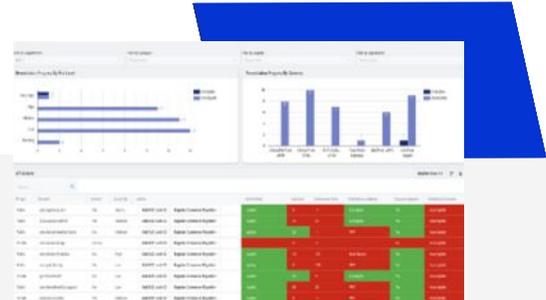
Break down API Quality by individual details, baselines, by API Owner, Manager, Department, by planned and org-wide scores



Provide stakeholders with daily tracking reports in areas like unclassified APIs and aging of unclassified APIs



Forms and workflow allow participants to provide additional information for each API



Remediation dashboards help stakeholders track the progress of remediation efforts over time for each department

START YOUR ASSESSMENT

Schedule a discovery call, discover the platform in more depth, and see if the Process Tempo + Neo4j API Landscape Assessment is a fit for your organization

[Talk to sales >](#)