As the number of business applications grows, APIs are becoming increasingly important to the digital landscape of business. Creating API specifications for all APIs gives visibility into this expanding area and helps improve security posture. Luckily there are tools that can help keep inventory, flag new APIs, assess risk, and enforce your specifications, but are businesses taking advantage of these tools?

Pulse and Cequence Security surveyed 100 technology leaders to find out how many are adopting API specifications, what they see as the benefits of this approach, what tools they are using to implement API specifications, and how they are approaching API security.

Data collected from July 14 - August 7, 2021 Respondents: 100 technology leaders

improve API quality, security and consistency

Technology leaders are missing an opportunity to

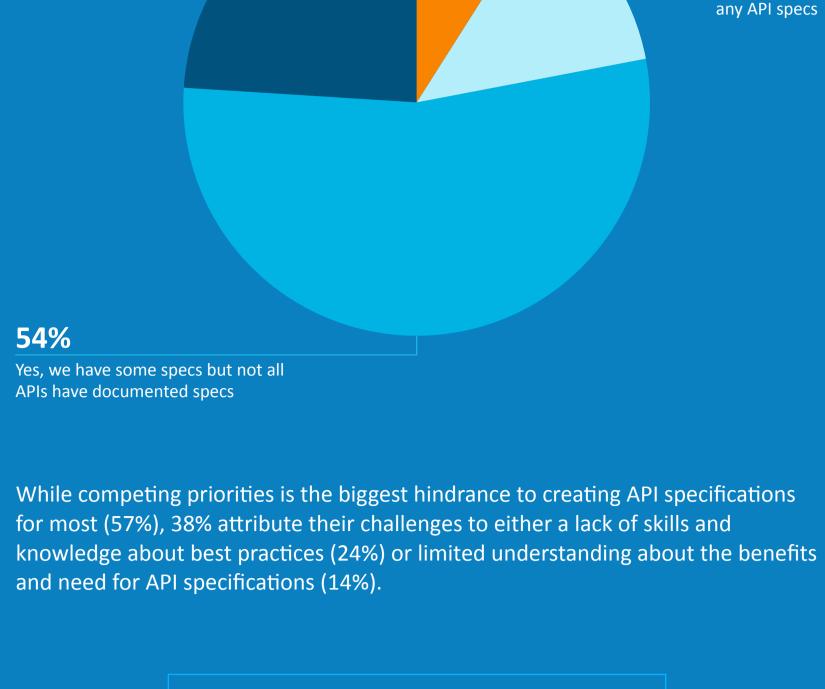


Does your company currently have API specifications for internally developed APIs?

24%

13% We're just getting started and are currently writing our API specs Yes, we require them for all APIs No, we don't have

9%



What is (or was) the biggest blocker keeping your teams from creating the API specifications?



Easier developer 47% collaboration

49%

46%

**27%** 

**API Blueprint** 

64%

20%

We don't maintain

an inventory – it's

my gut estimate

We manually maintain an inventory of all our APIs

None

39%

quality of APIs

Stronger API

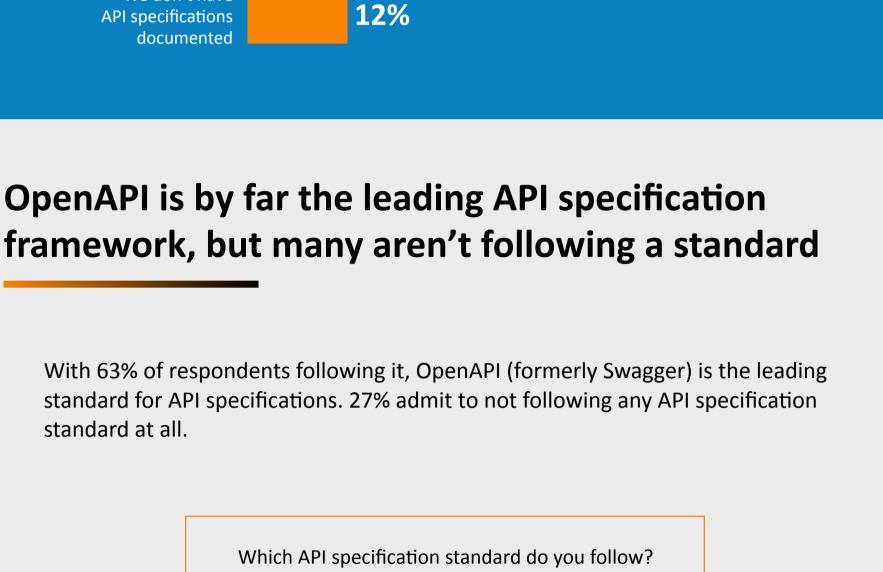
security posture

More consistent APIs

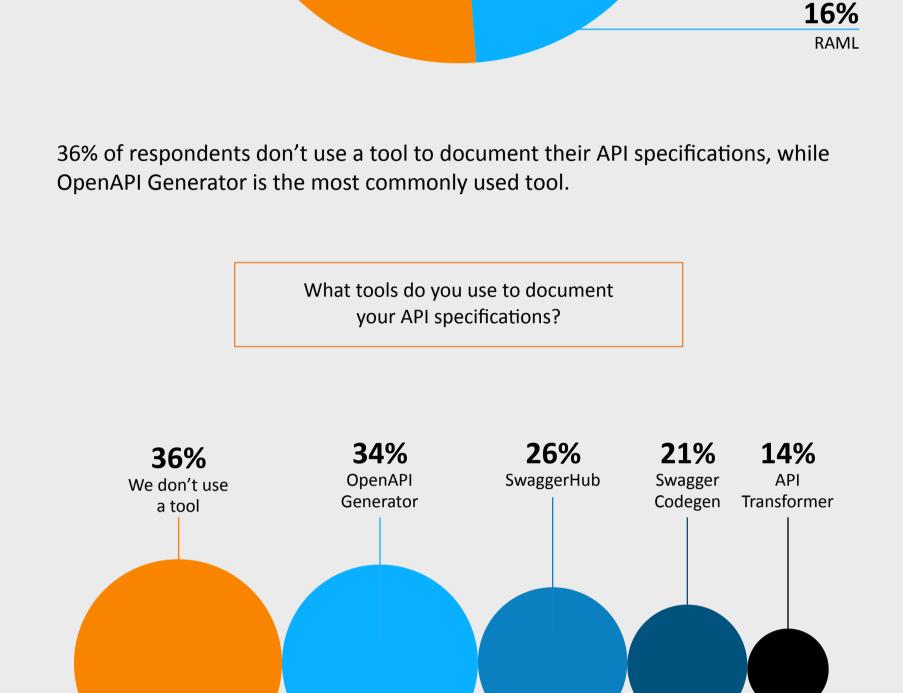
Clear communication

of API contracts

We don't have



## 1% Other 63% **OpenAPI** 16%



Organizations may also lack clear visibility of the

Only 16% are using an automated tool to track and inventory their APIs. A

methods of inventorying may be leading to inaccurate estimates.

whopping 64% are manually maintaining their API inventory. These different

How do you track or maintain the inventory

of APIs at your organization?

number of APIs they have implemented

Mulesoft RAML generator (10%), API Kit (7%), DapperDox (7%), ReDoc (7%), Other (13%)

## Most respondents (38%) say they have 1 to 20 APIs, but responses vary substantially depending on the method used to inventory APIs.

How many APIs are in use across your company?

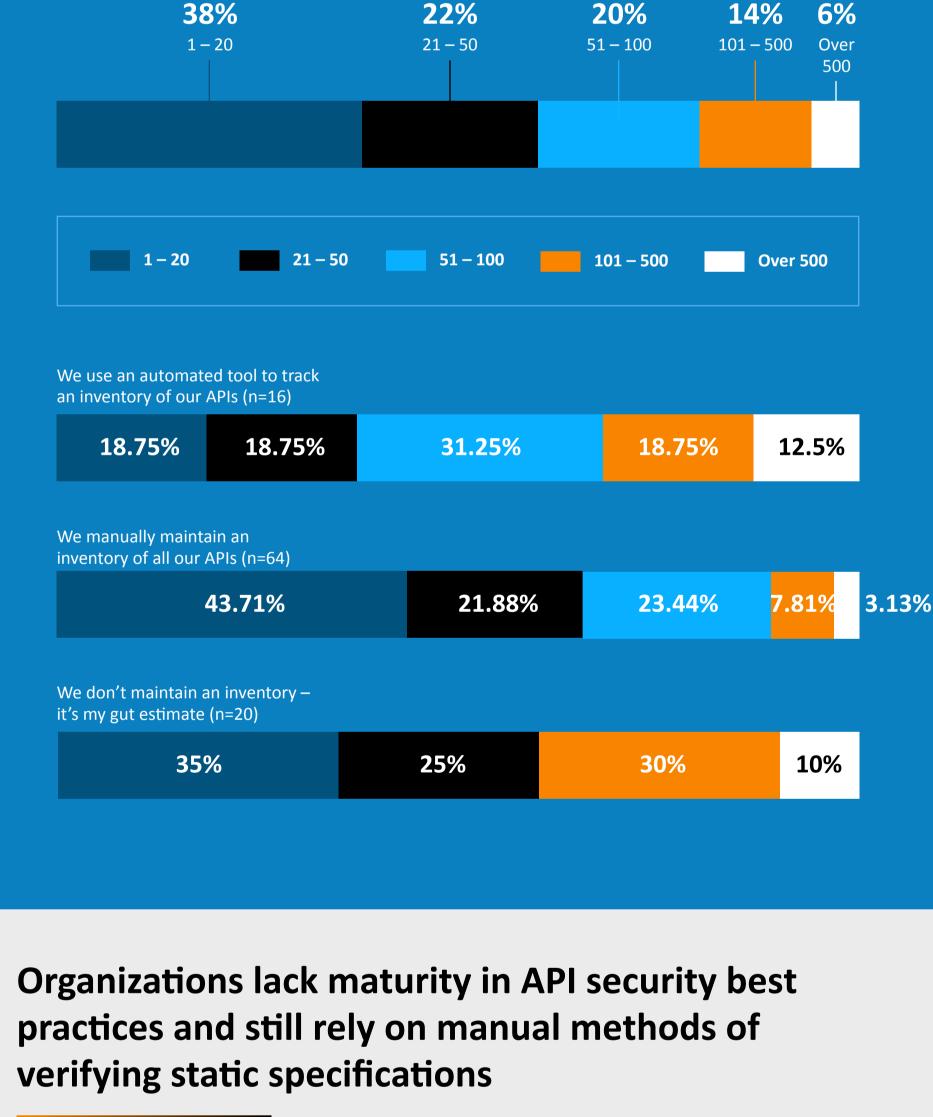
16%

We use an

of our APIs

automated tool to

track an inventory



## **Mature** we have policies and How would you rate your organization's adoption of procedures in place API security best practices? to test all APIs and enforce adherence to **API** specs 9% **Focused effort** we have implemented API **Early adoption** testing and enforcement we are writing API for certain APIs / teams, specifications and but not all developing plans for testing and enforcement 22%

58% of respondents still rely on manual methods to verify

specifications, with 22% relying solely on manual methods.

that their published APIs conform to the static API

Do you currently verify either manually or

using any tools if your published APIs

conform to the static API specifications?

18%

22%

20%

36%

13%

Don't know

None 9%

Both

Verify manually

Verify using tools

**Experimenting** we have a team (or teams) that are testing out different implementations

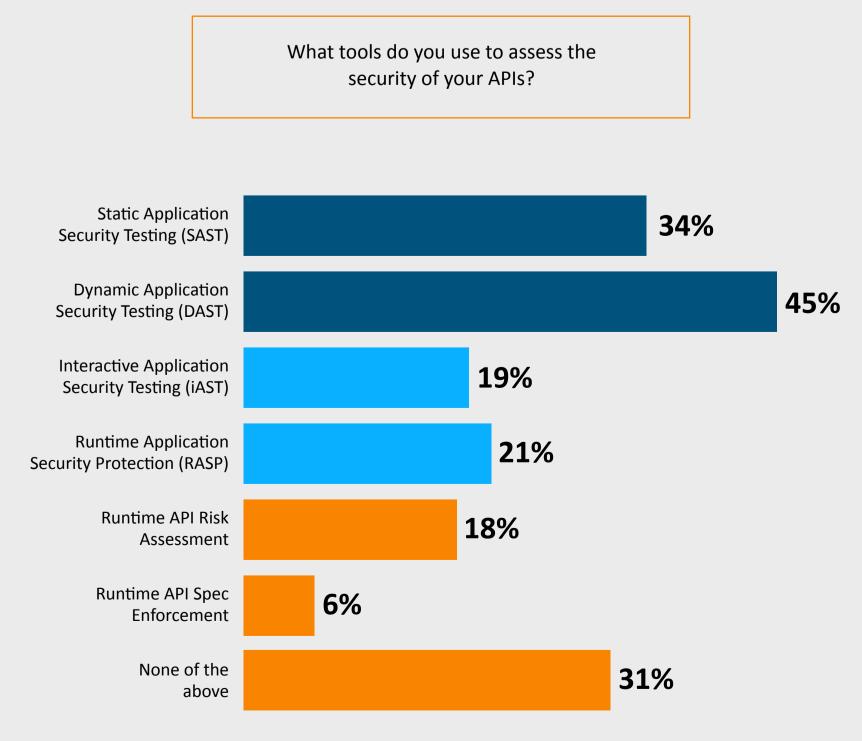
and policies

40% of technology leaders are still experimenting or in the early adoption phase

when it comes to API security best practices.

application security testing (SAST) (34%), dynamic application security testing (DAST) (45%), and interactive application security testing (iAST) (19%).

The most commonly used tools for assessing the security of APIs include static



North America 66%

**TITLE** 

VP

14%

C-Suite

27%

Director

46%

13%

**Cequence Security Tip** 

assessment tools used in the API build stage.

Most organizations already have APIs in production, making it a priority to have

**RESPONDENT BREAKDOWN** 

**REGION** 

runtime tools that will assess risk and enforce API specs — even ahead of

