API Governance

An Agile aproach

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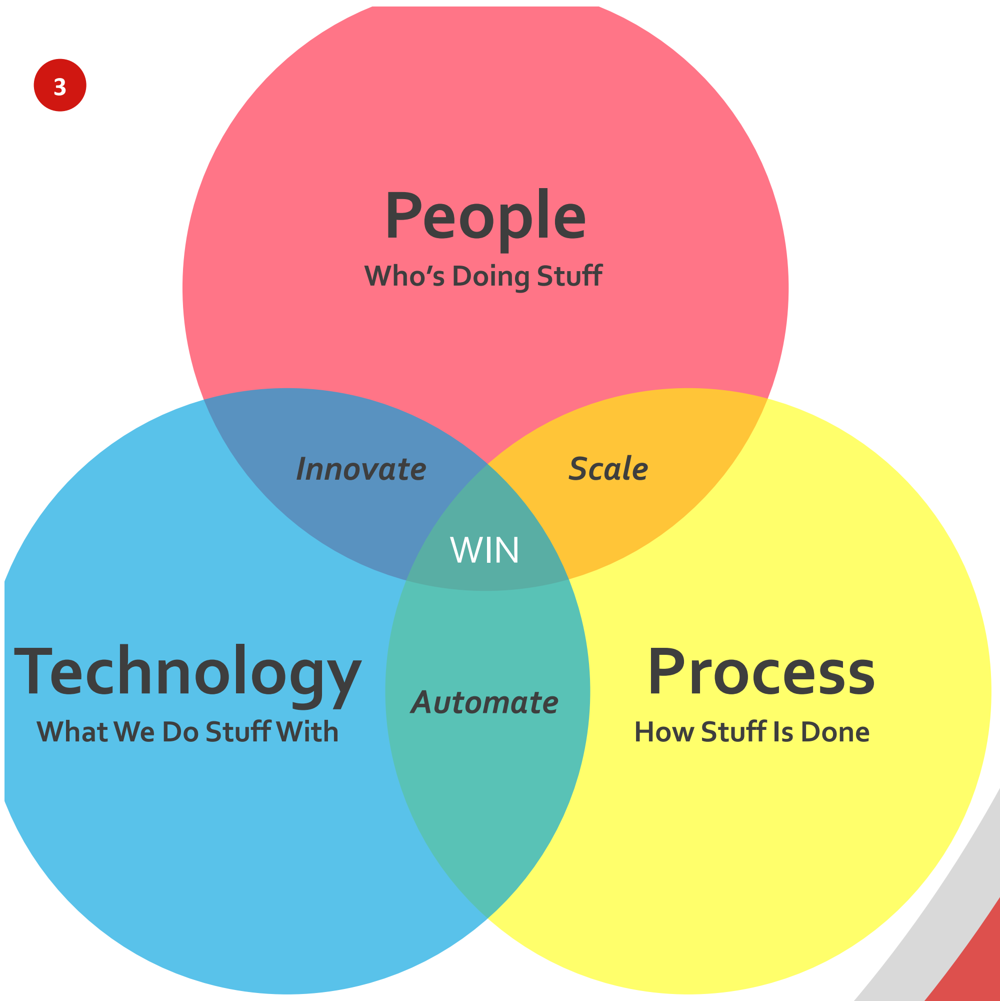
Why API Governance ?

API {1st} is not just a new tool. It is about opening up processes via a simple stateless interface so people can easily integrate with them.

This only works when API’s are simple, easy to understand, universal and consistent.

That is where API Governance comes in to play: To secure that we keep on the right track.



GOVERNANCE BUILDING BLOCKS

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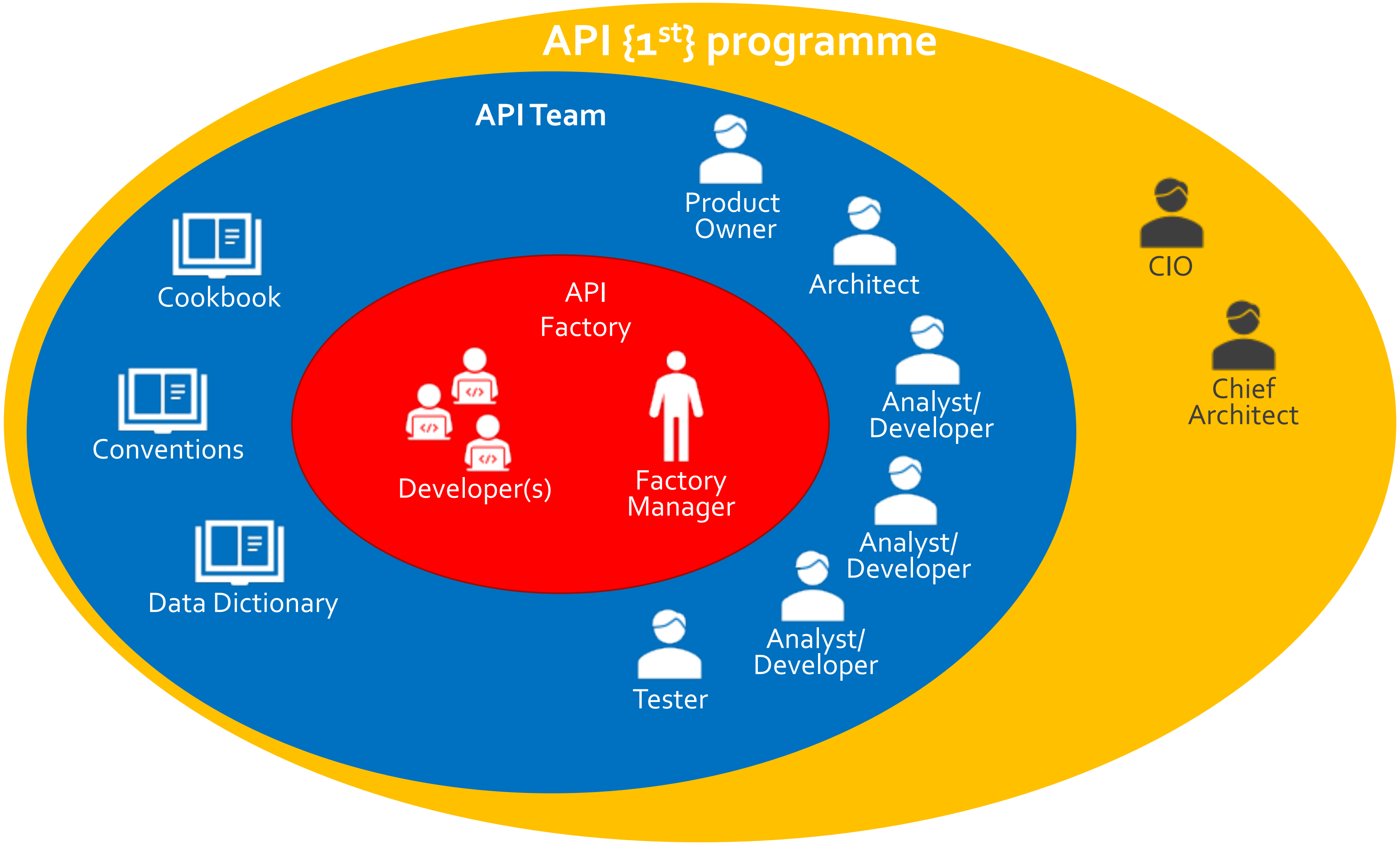
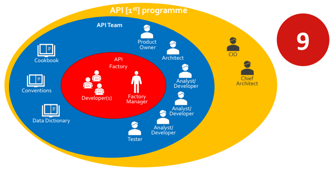
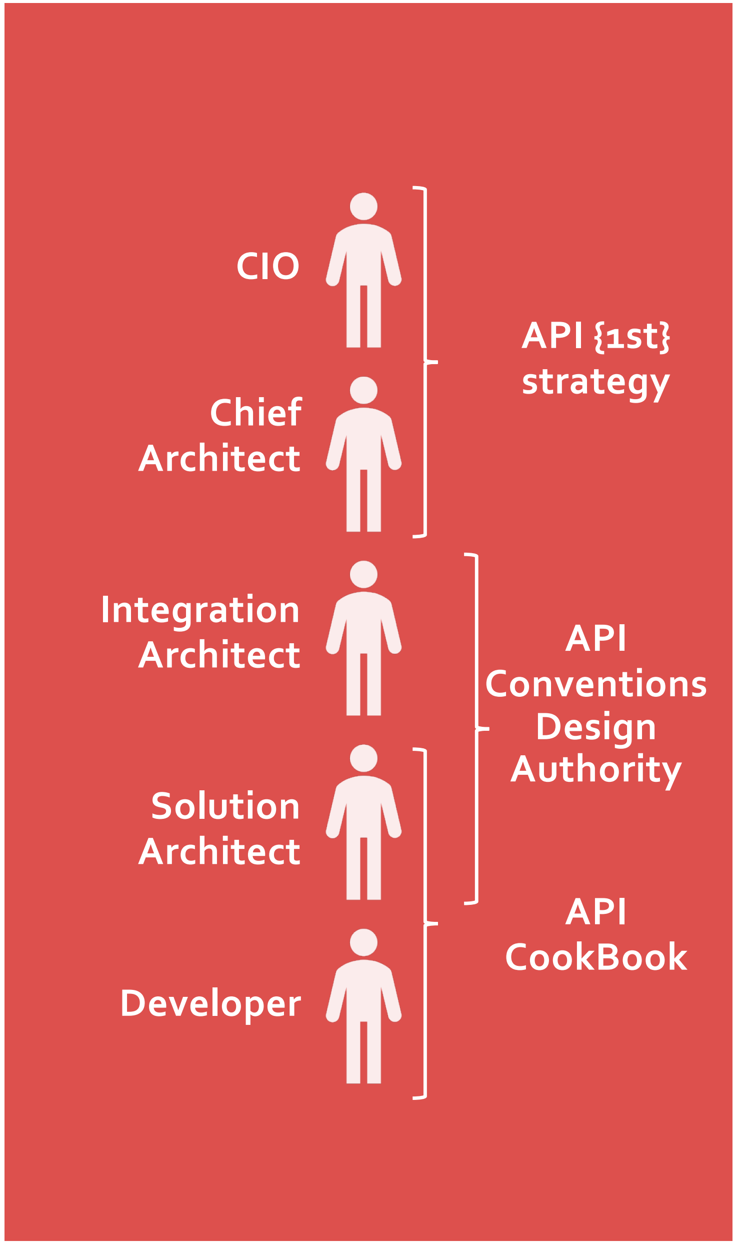
The API Factory model



PEOPLE





Position	Role	Comment
CIO	Sponsor	The CIO mandates the strategic change
Chief Architect	Sponsor	The Chief Architect is the evangelist for the API {1st} strategy.
Integration Architect	Design Authority	Responsible for the communication about Conventions, Cookbook, etc. within the organization
Solution Architect	Design Authority	Responsible for the exception handling and creation of new conventions / patterns.
Developer	API Team	Hands-on assistance to the Back-End teams for creating good API’s

2 strategies on the API team

Depending on the culture and the maturity of the Dev/Ops teams one model might work better than the other.

1. Centralized API team

⊕ The centralized API team has a built in objective to enforce the standards and policies that are stated in the three governance products (Conventions, Cookbook and Data Dictionary)

⊖ The centralized API team might be to far away from the actual Dev/Ops team to work optimally

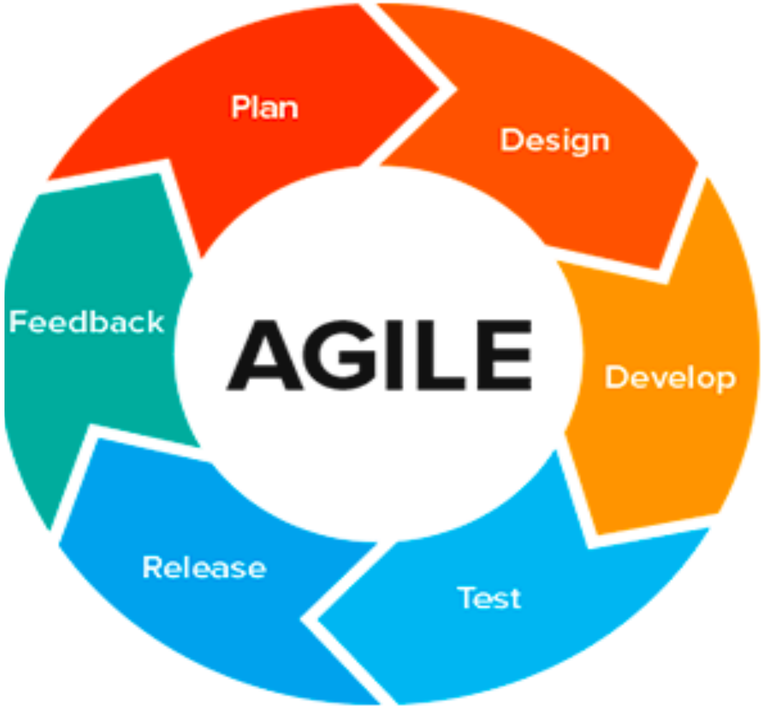
2. Integrated within Agile Teams

⊕ Fits best with the philosophy of actual Dev/Ops

⊖ The Dev/Ops team might prevail their own priority before the implementation of the standards and policies.

⊖ The Dev/Ops team might not be able to keep the knowledge of the tool up to date because of the limited effort on the API is in respect to the actual back end work

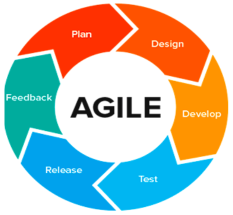
What most of our customer chose is *Model 1. Centralized API team* and they compensate the "distance" to the team by a so called wanderer. The API team member that works for the Dev/Ops team is temporarily part of the Dev/Ops team

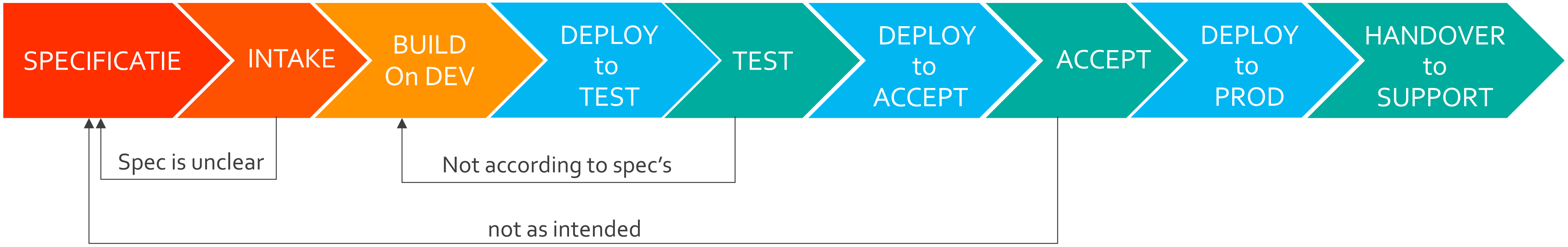


PROCESS

IT build process (using AGILE/SCRUM)

4 environment process steps




SPECIFICATIE

INTAKE

BUILD On DEV

DEPLOY to TEST

TEST

DEPLOY to ACCEPT

ACCEPT

DEPLOY to PROD

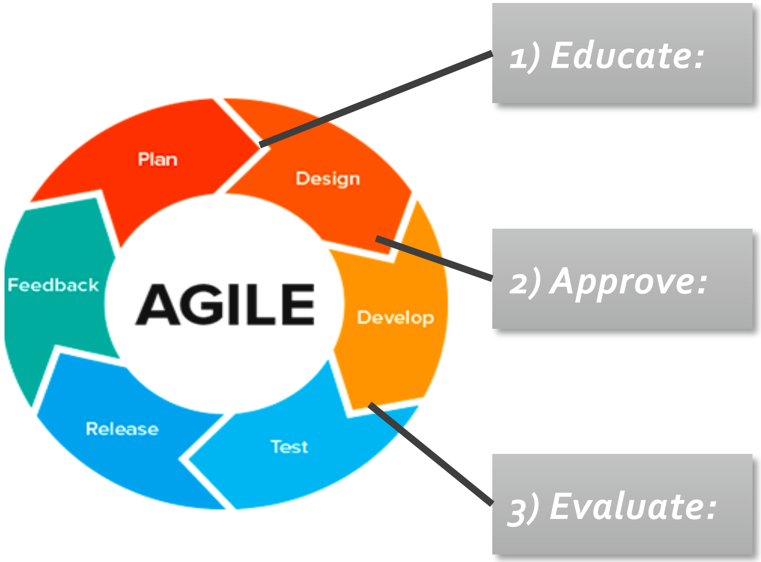
HANDOVER to SUPPORT

Spec is unclear

Not according to spec's

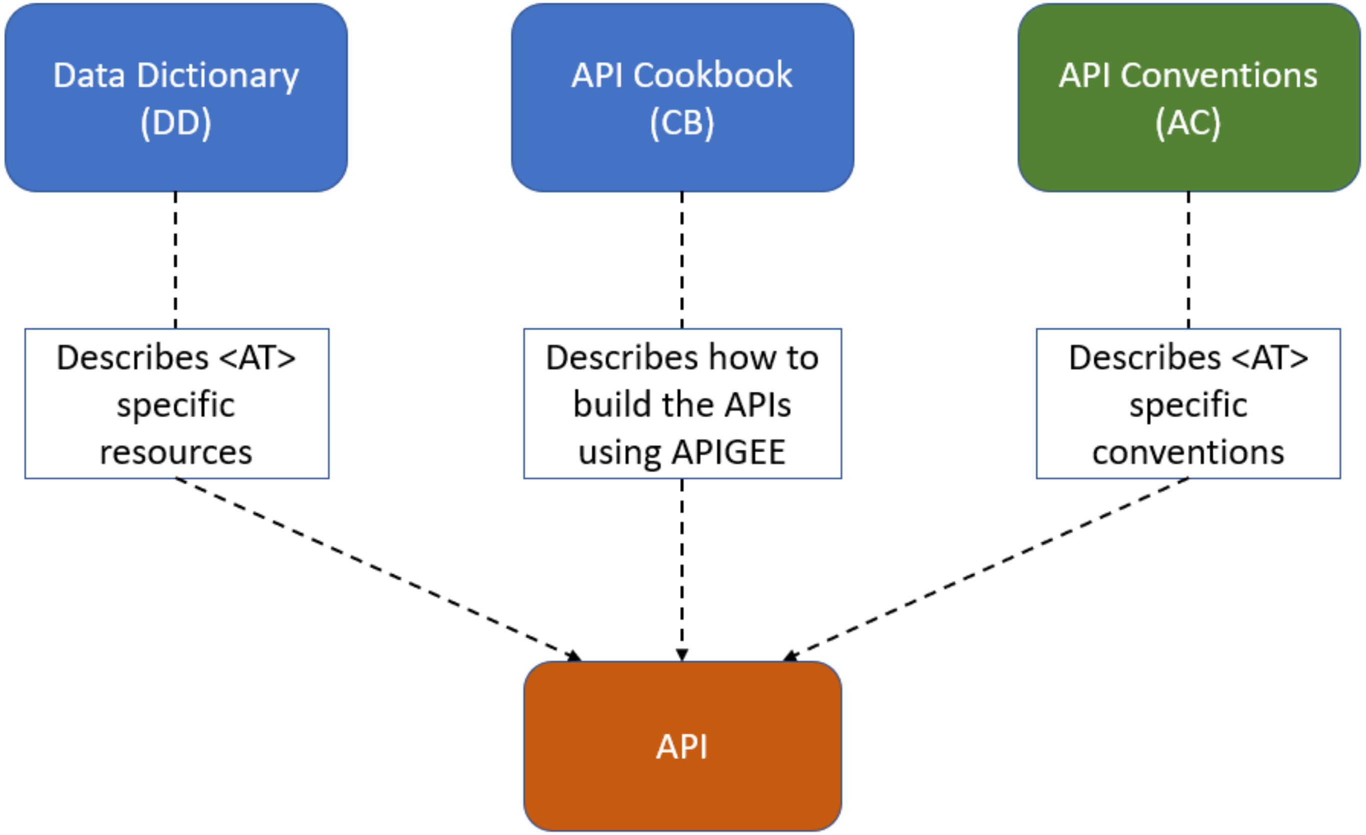
not as intended

API Governance process



1) ***Educate:*** A main part of the Governance process is to consult and to communicate. We provide the standards like: Conventions, CookBooks and DataDictionary. If needed we organize trainings for people to get them up to speed.
2) ***Approve:*** We review each design to see if they implemented the Conventions, CookBook and DataDictionary. We'll mediate when exceptions are required. We'll help when new Conventions or Patterns are needed
3) ***Evaluate:*** We evaluate if everything has been build according to standards.

Building Blocks of API Governance



Data Dictionary (DD)

API Cookbook (CB)

API Conventions (AC)

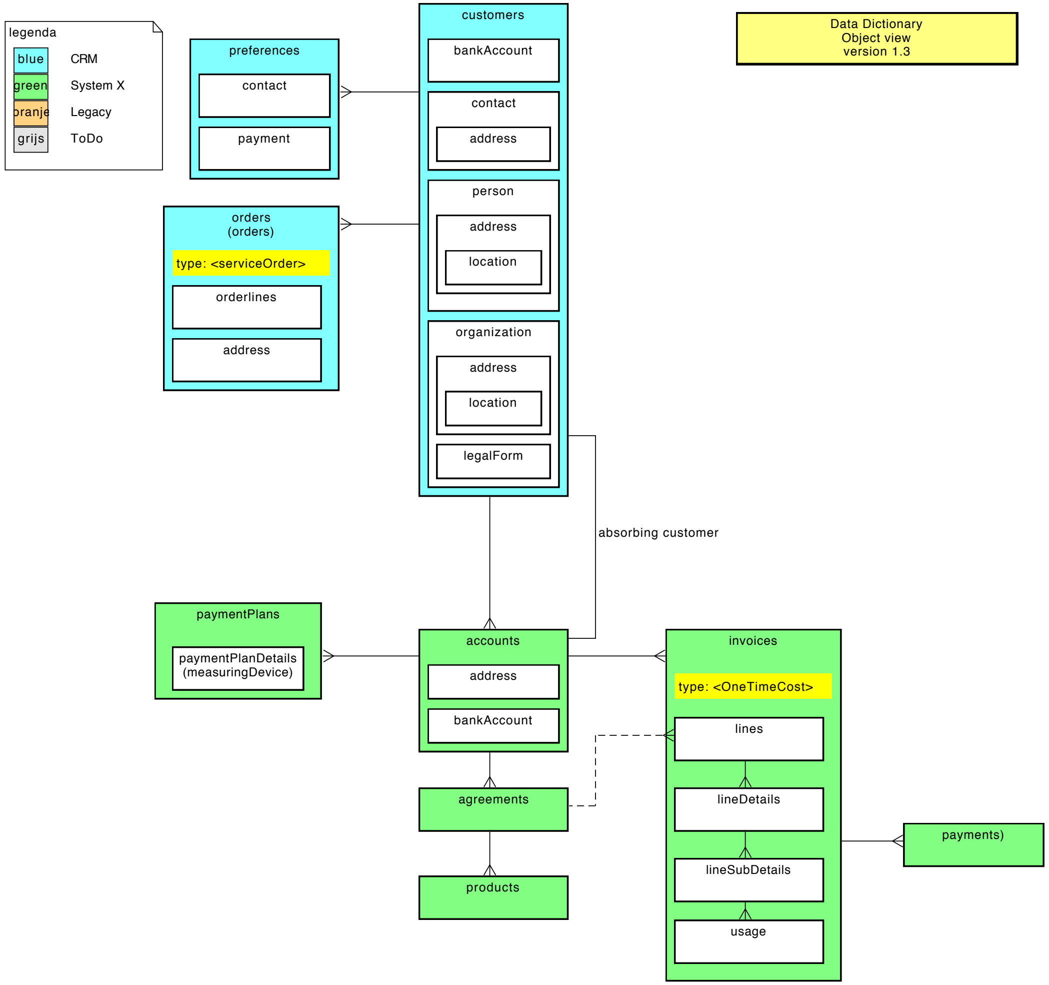
Describes <AT> specific resources

Describes how to build the APIs using APIGEE

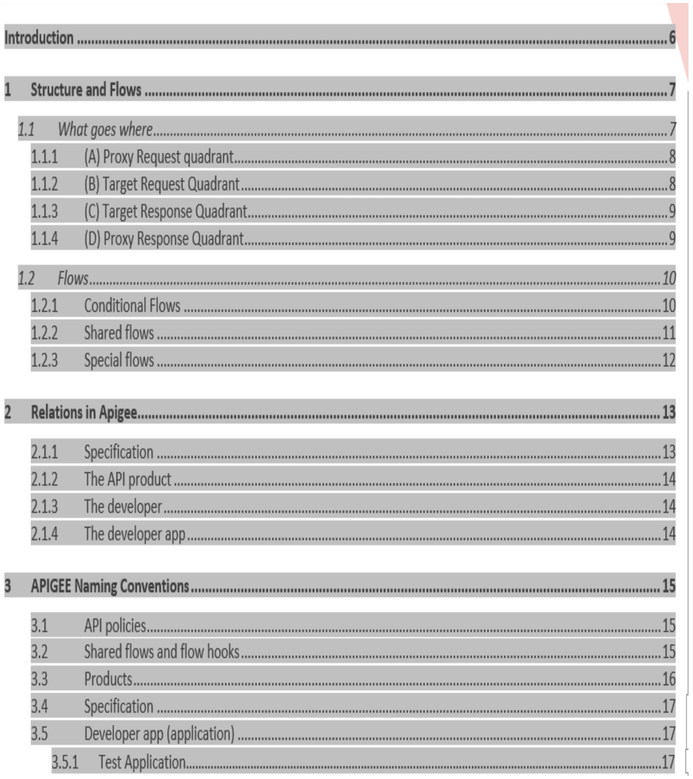
Describes <AT> specific conventions

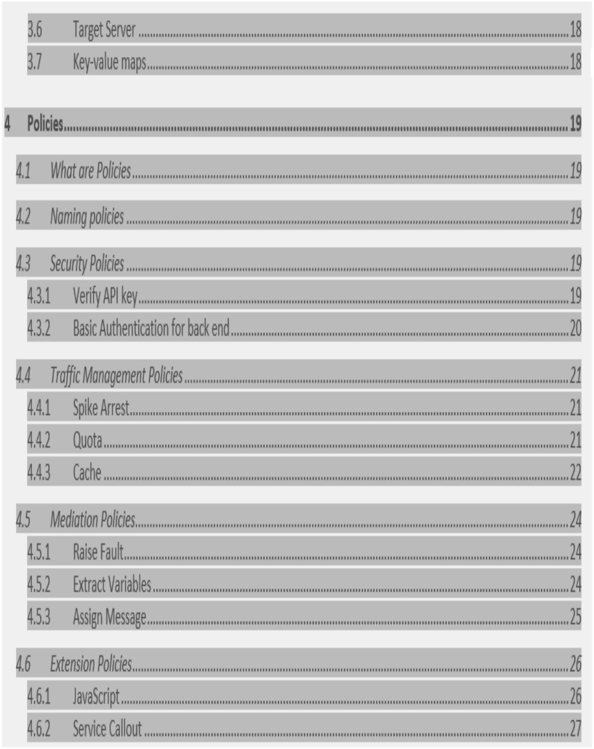
API

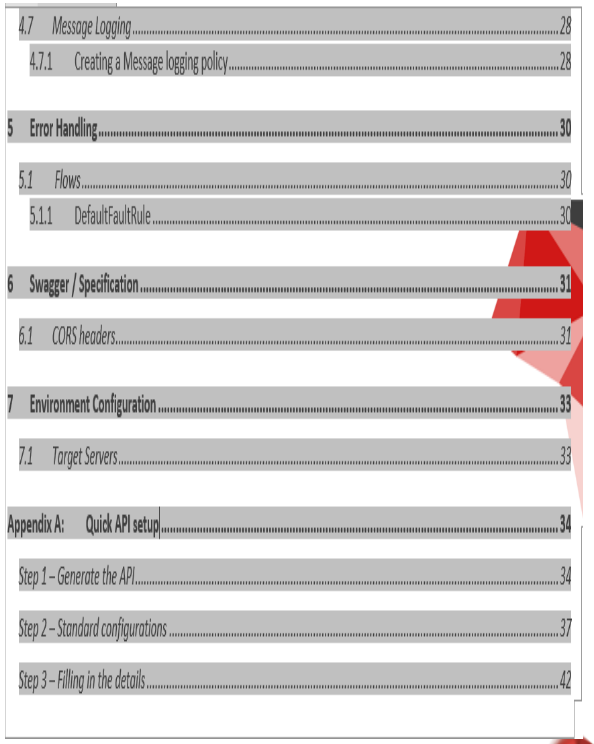
Content of API DataDictionary



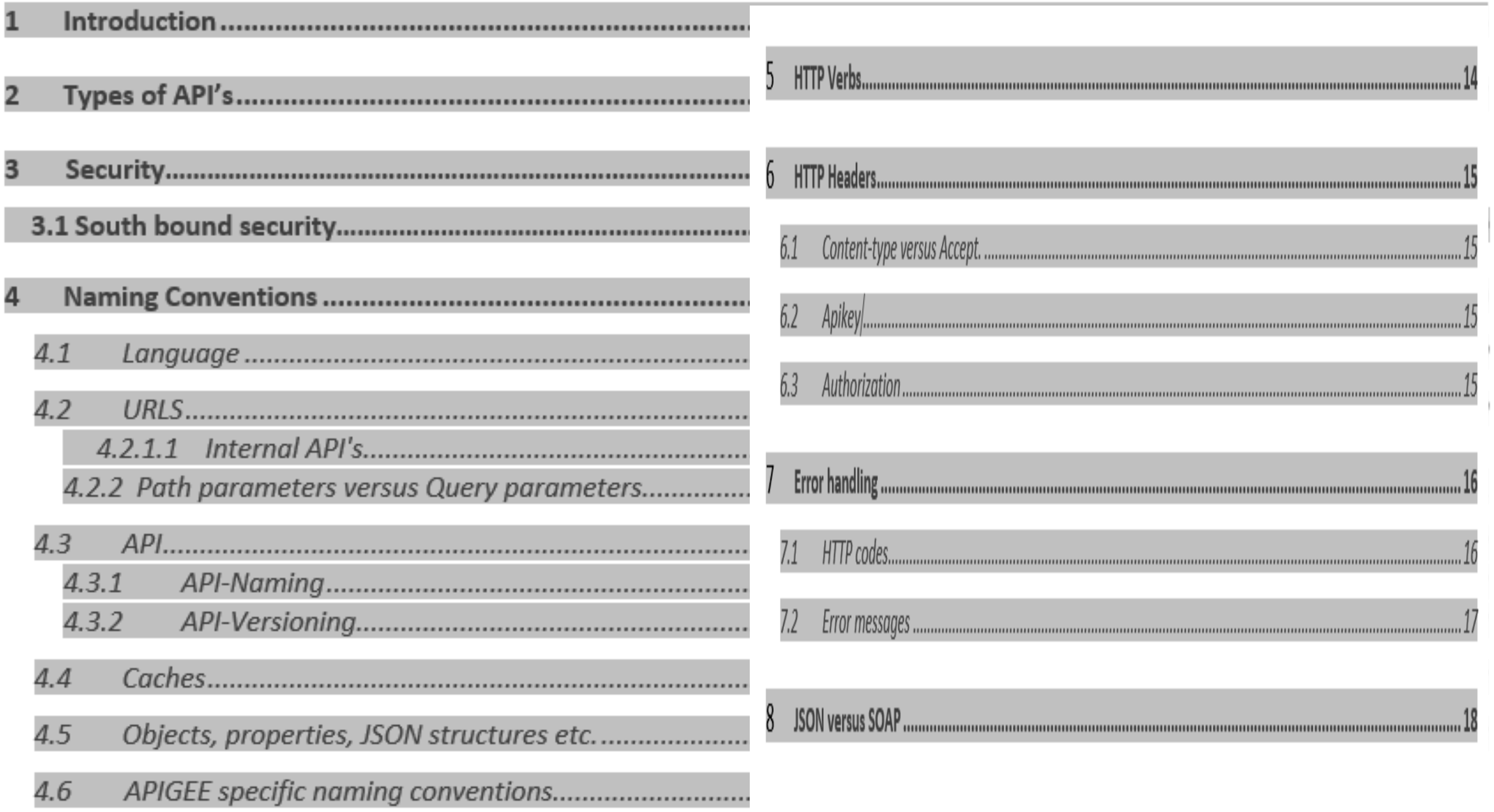
Content of API Cookbook



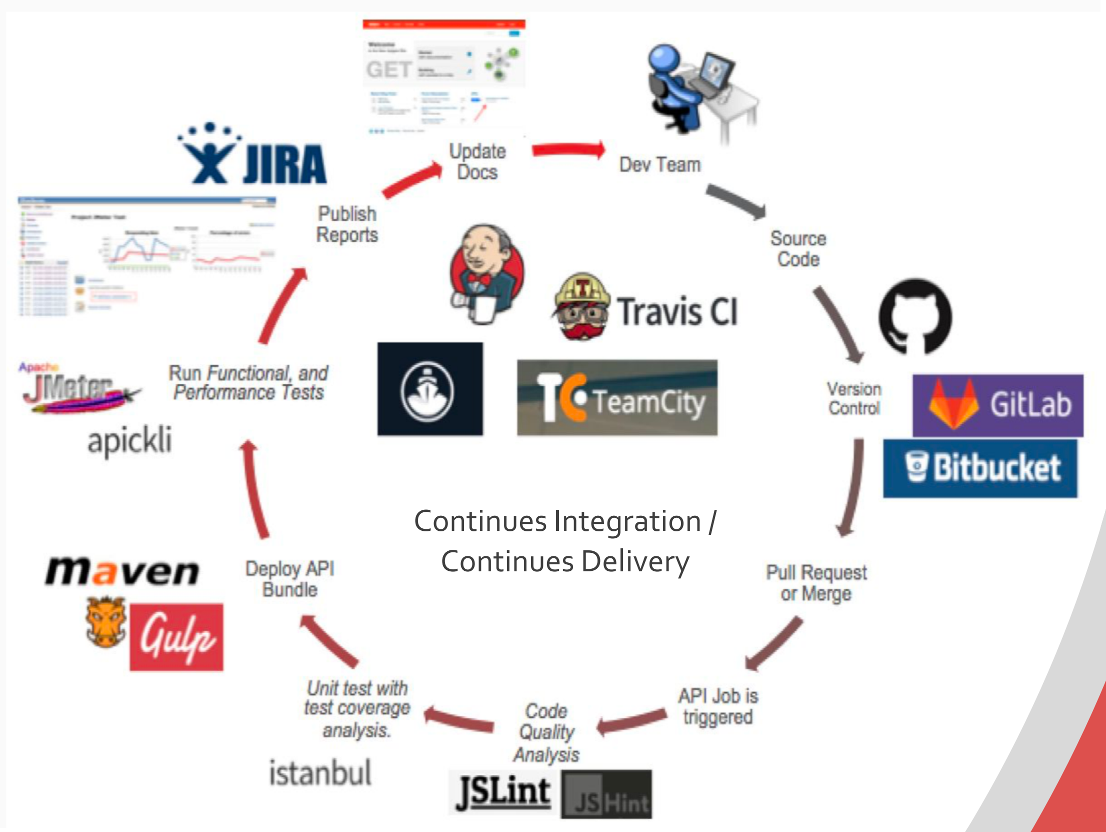




Content of API Conventions



TECHNOLOGY



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