



WSO2

Data Residency for WSO2 Identity, AI Gateway, and API Gateway

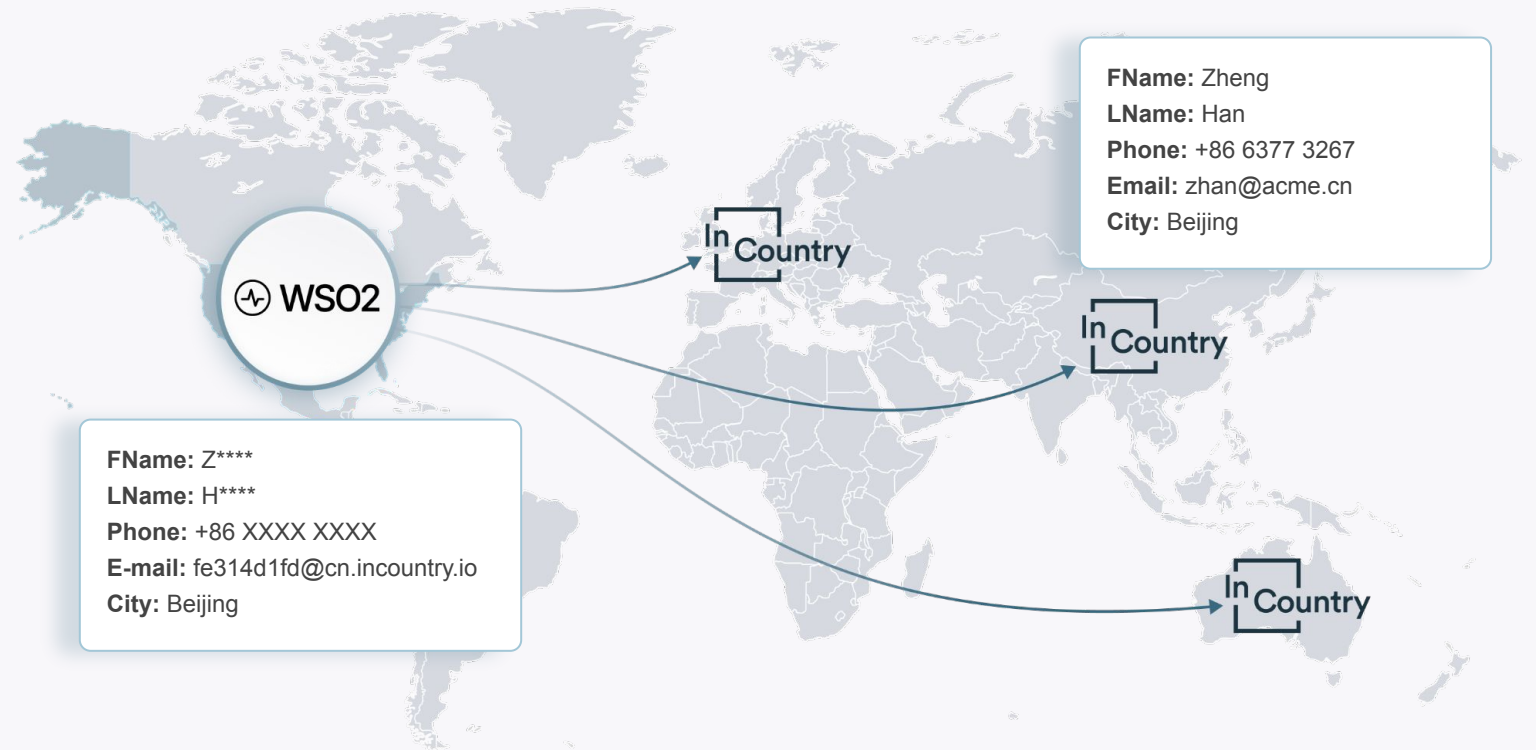
PETER YARED | CEO

InCountry introduction

- Thesis: data deglobalization
- Founded 2019
- Peter Yared, Founder and CEO
 - CTO/CIO of CBS Interactive
 - CTO of Sun's application server and identity divisions
 - Founded 6 enterprise infrastructure companies acquired by Sun, VMware, Citrix, Oracle, Sprout, and Prograph
- Raised \$50 million
 - International investors: Arbor (Singapore), Mubadala (UAE), GFC (Germany)
 - Silicon Valley investors: Caffeinated, Felicis, CRV
 - Strategic investors: Accenture, Bloomberg

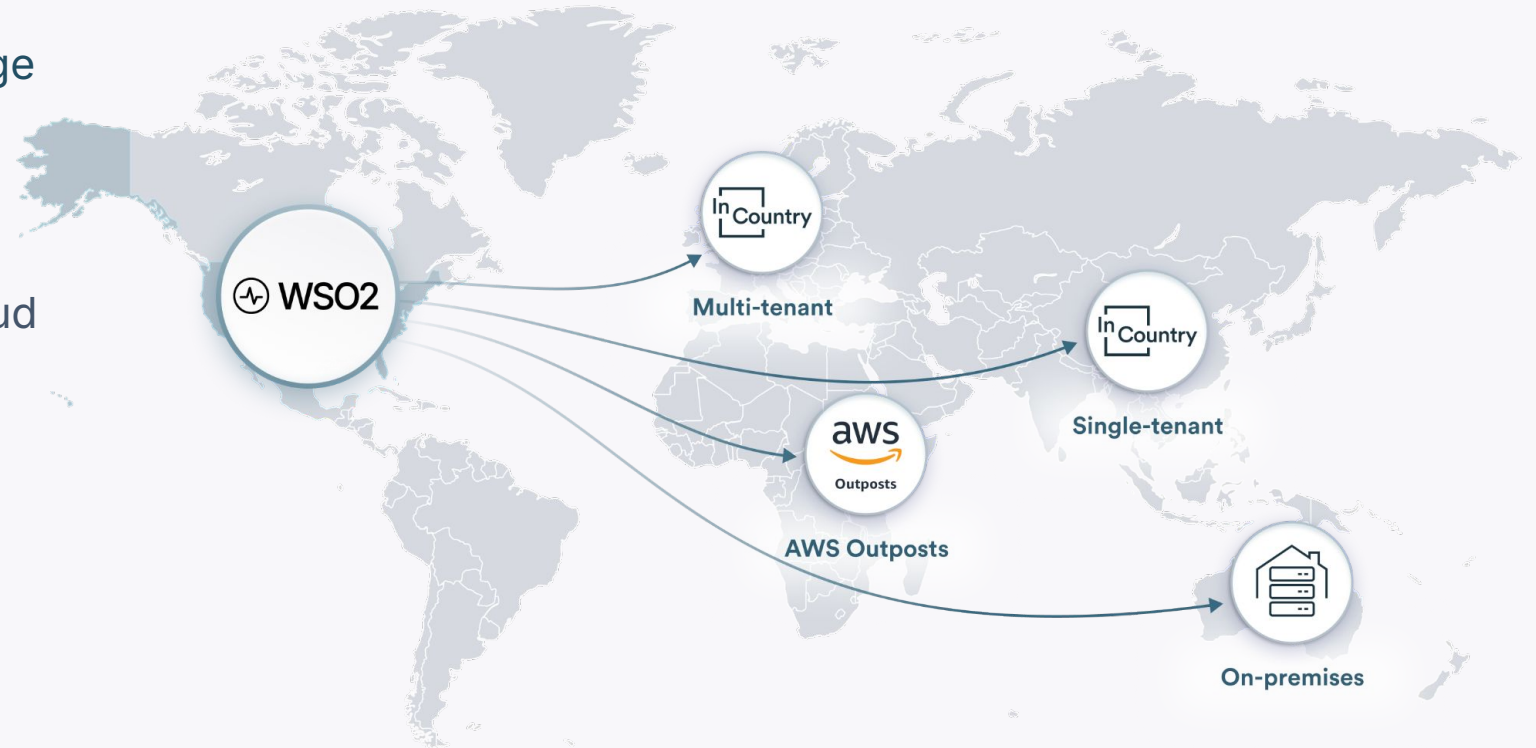
InCountry Profile Data Residency: secure digital twins extend identity systems to isolate identity fields in other countries

- Secure digital twins maintain identity in a country with cloaked fields in global IAM
- Avoid regulatory barriers and cost of cross-border data transfers
- Simpler and more efficient than federating multiple orgs across countries
- Available in countries without an identity system region or cloud
- Solutions for both Customer and Workforce identity



Deployed as secure edge service with flexible deployment options

- Similar to CASB or WAF with average 100ms transit
- InCountry multi-tenant
- InCountry single-tenant on any cloud
- AWS Outposts
- On-premises with two hosts



InCountry's proven cross-border data isolation technology



Deployed by highly regulated customers



ESTÉE LAUDER



Approved by the most demanding regulators



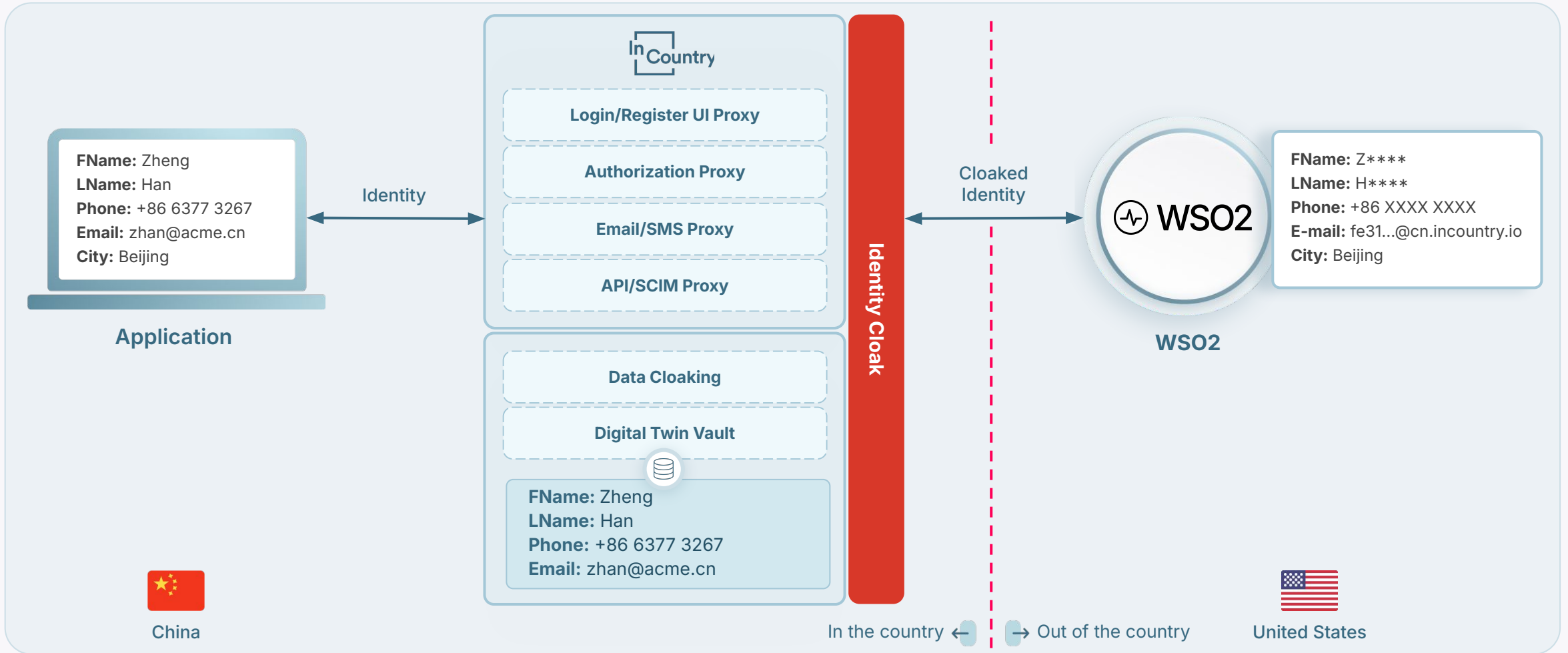
Hosted by fully sovereign partners



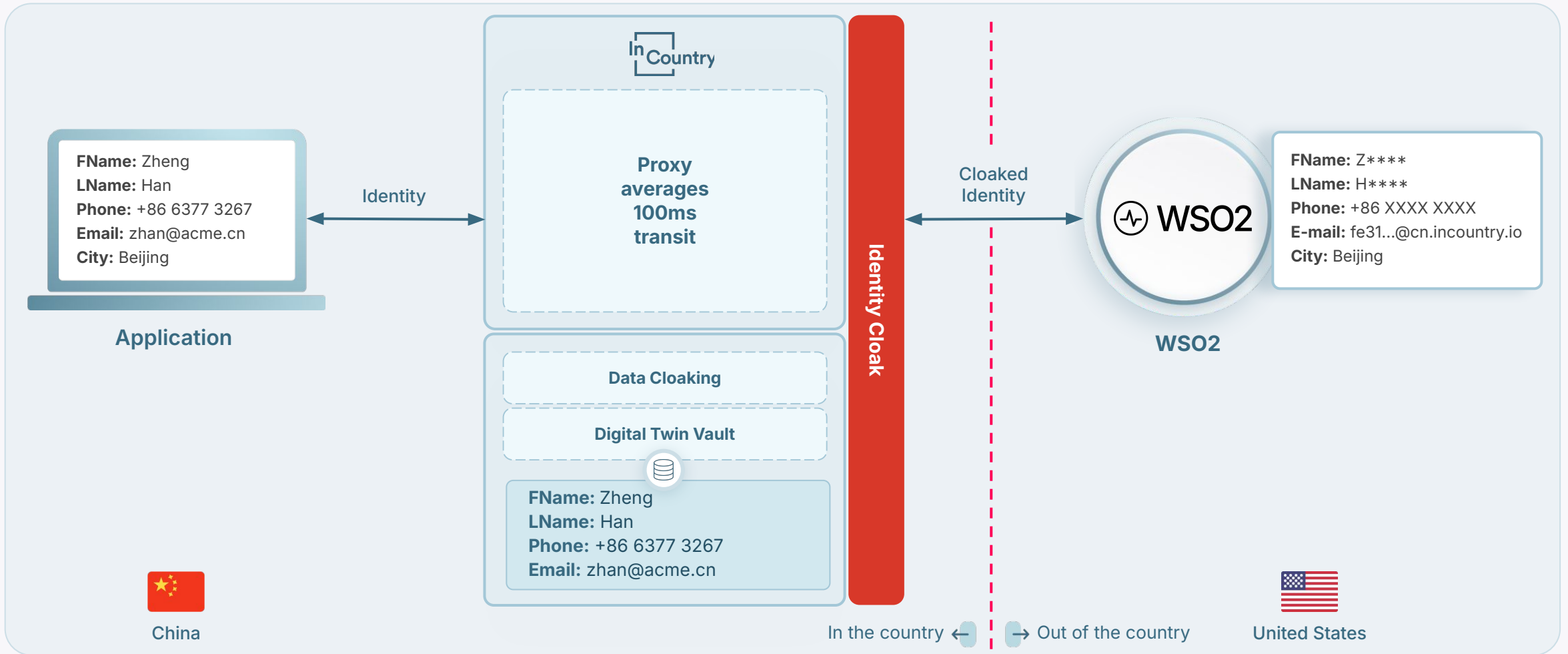
Deep compliance and security both locally and globally



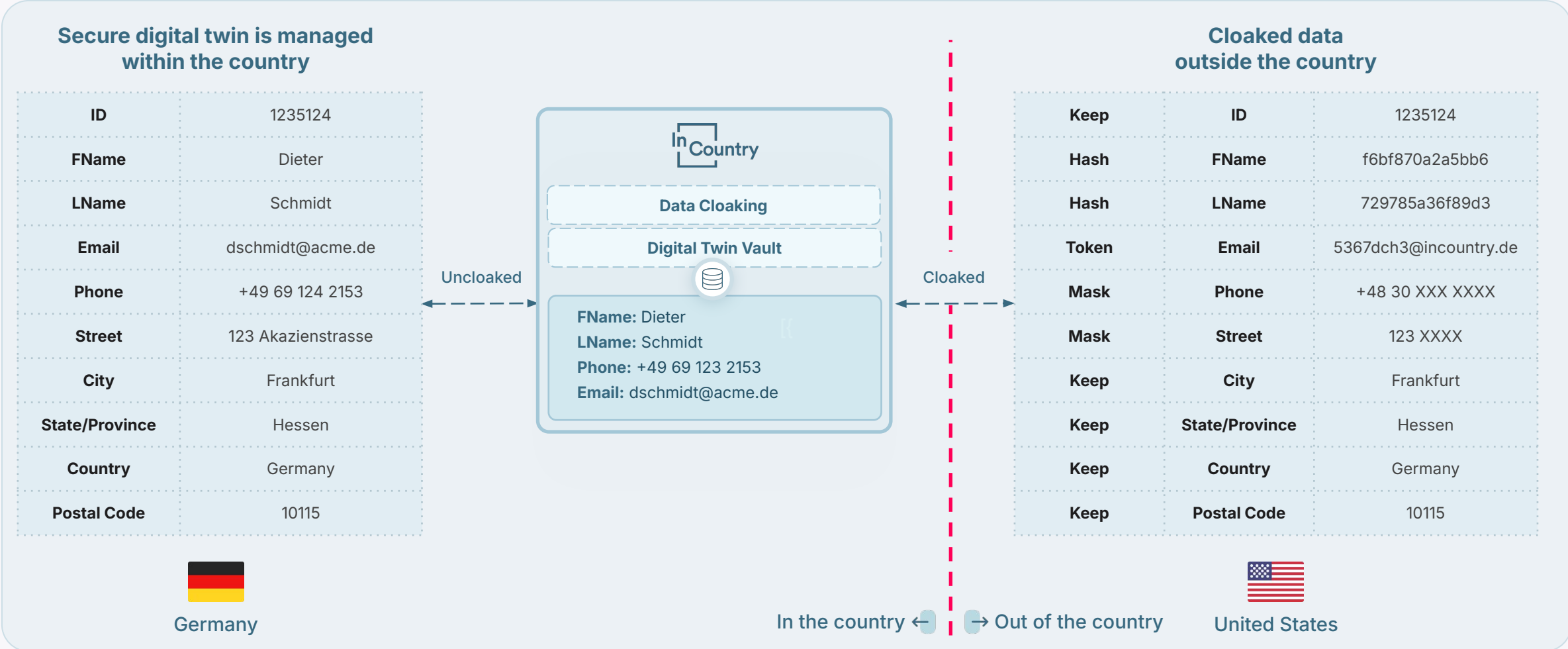
InCountry Profile Data Residency fully isolates identity profiles within a country



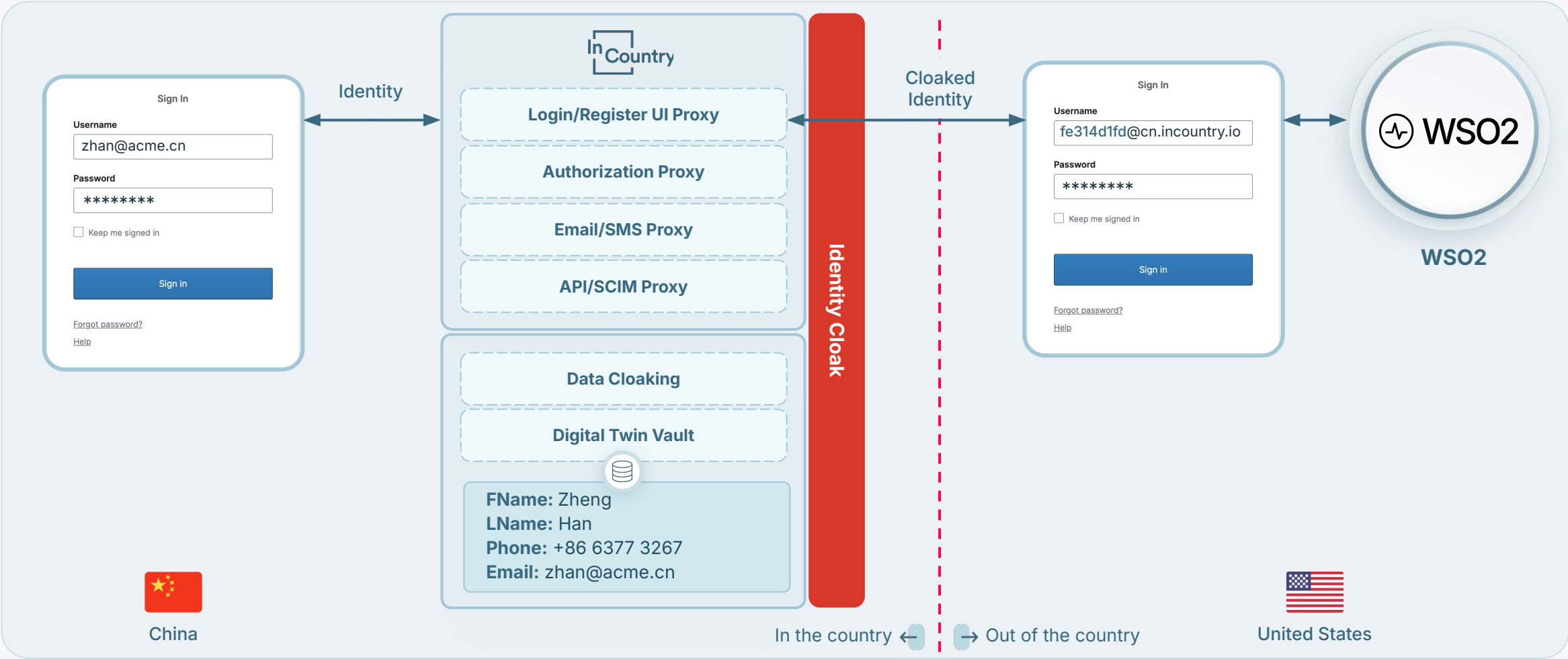
InCountry Profile Data Residency fully isolates identity profiles within a country



Data Cloaking masks, tokenizes, or hashes default and custom profile fields

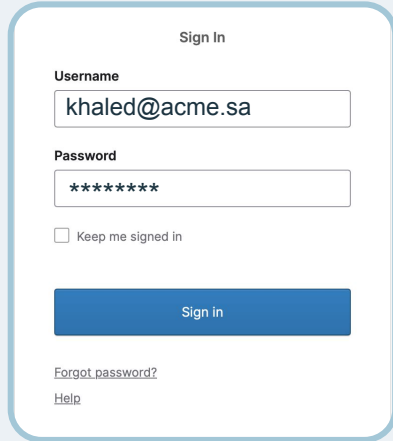


Login and registration widgets go through InCountry's proxy to cloak identity



Four ways to identify user country

1.



Sign In

Username
khaled@acme.sa

Password

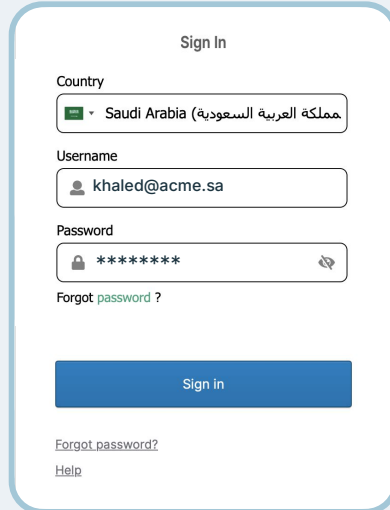
Keep me signed in

Sign in

[Forgot password?](#)
[Help](#)

Auto detect IP address

2.



Sign In

Country
Saudi Arabia (مملكة العربية السعودية)

Username
khaled@acme.sa

Password

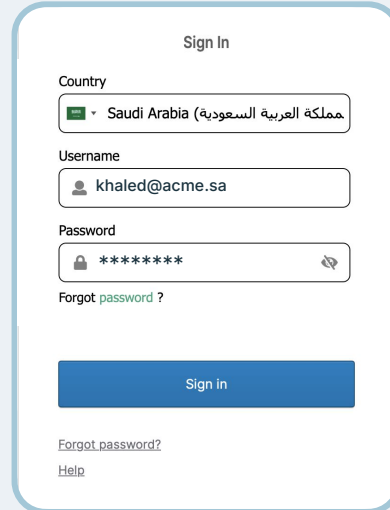
[Forgot password ?](#)

Sign in

[Forgot password?](#)
[Help](#)

User selects country of origin

3.



Sign In

Country
Saudi Arabia (مملكة العربية السعودية)

Username
khaled@acme.sa

Password

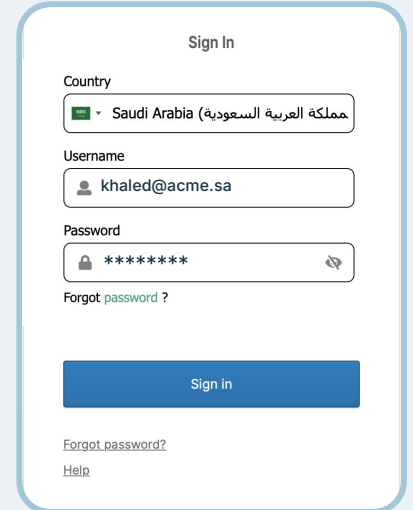
[Forgot password ?](#)

Sign in

[Forgot password?](#)
[Help](#)

User country of origin is pre-selected based on IP and modifiable by user

4.



Sign In

Country
Saudi Arabia (مملكة العربية السعودية)

Username
khaled@acme.sa

Password

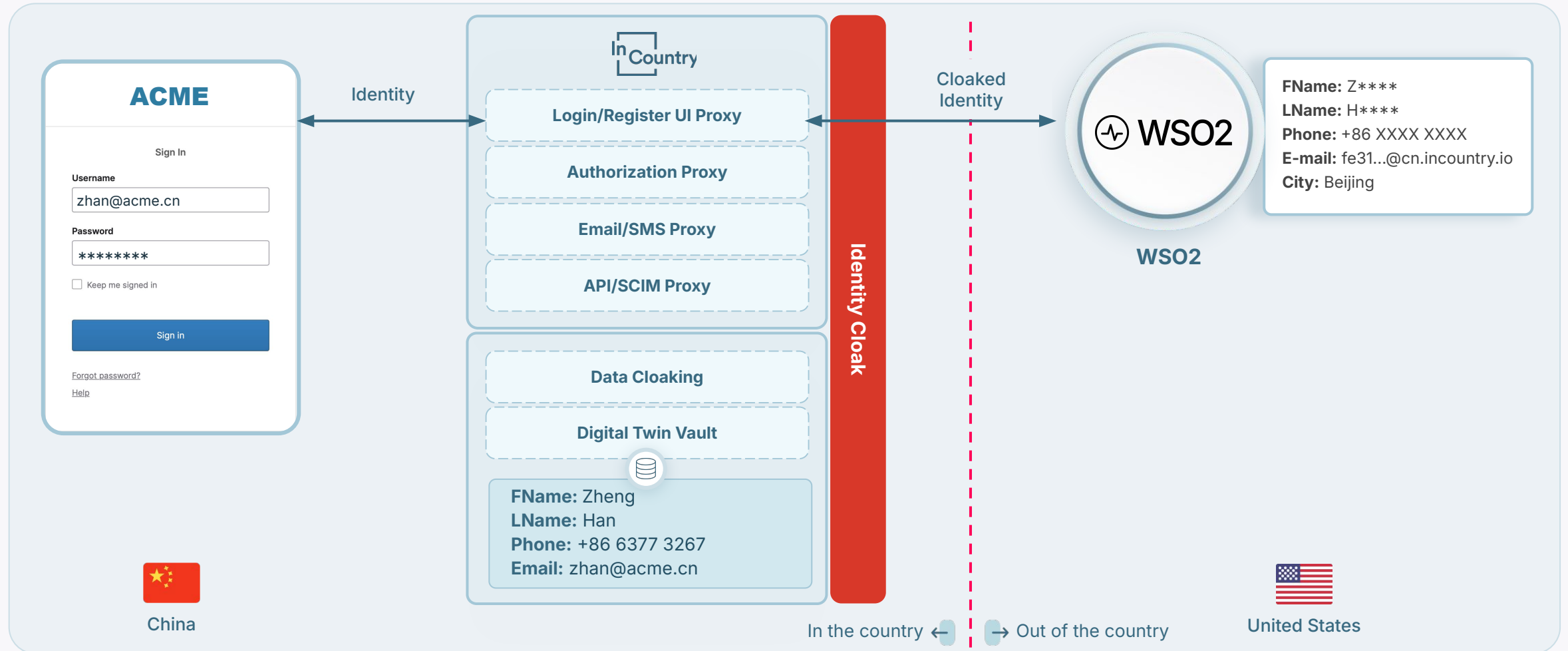
[Forgot password ?](#)

Sign in

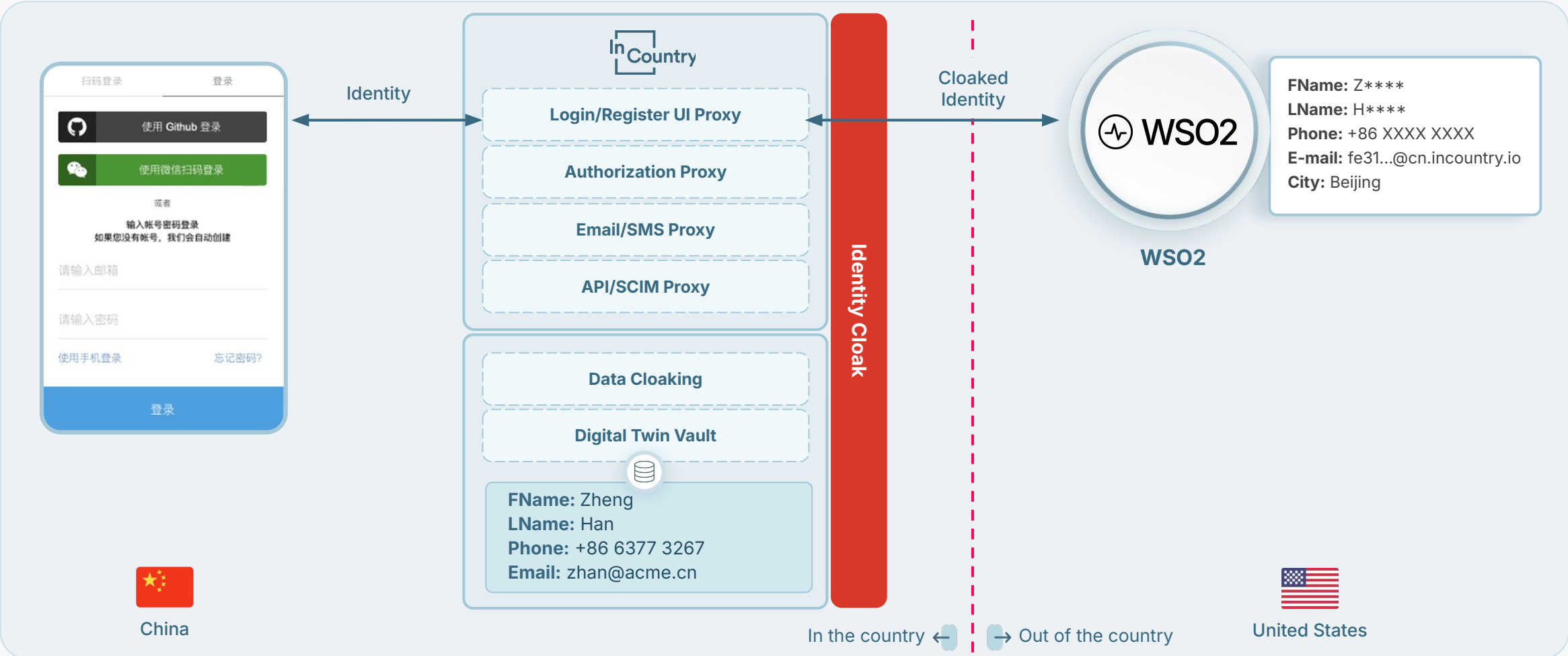
[Forgot password?](#)
[Help](#)

User country of origin is displayed and pre-selected based on IP and not modifiable by user

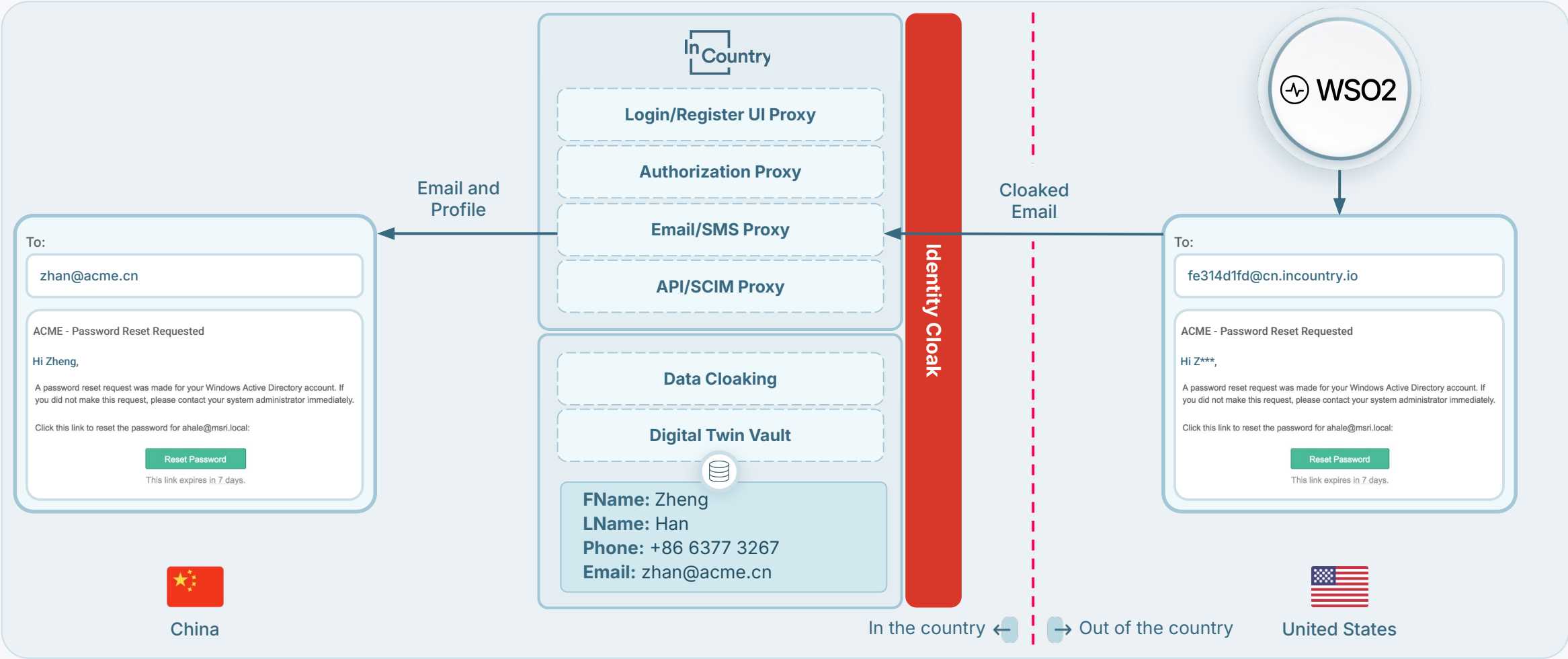
InCountry Profile Data Residency's proxy compatible with SDK-driven sign-in flow



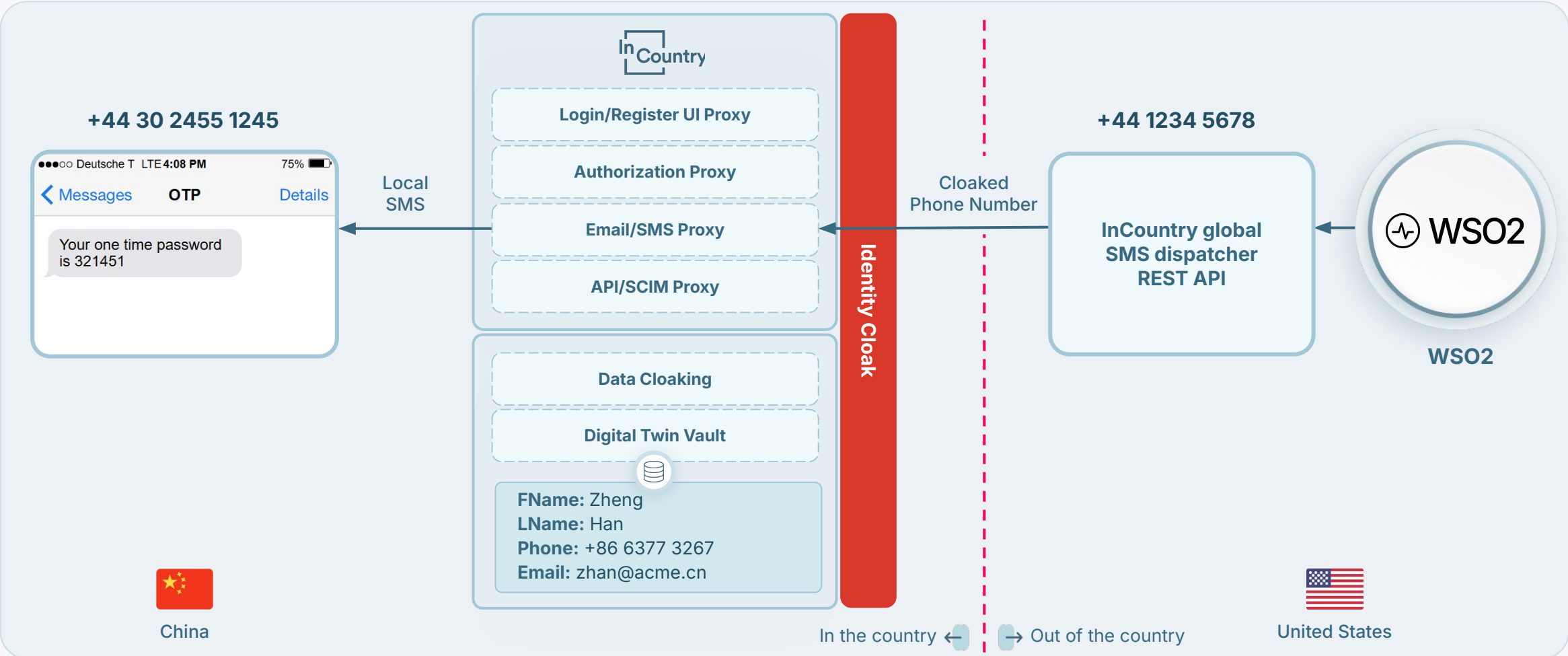
Compatible with external IdP login including WeChat in China



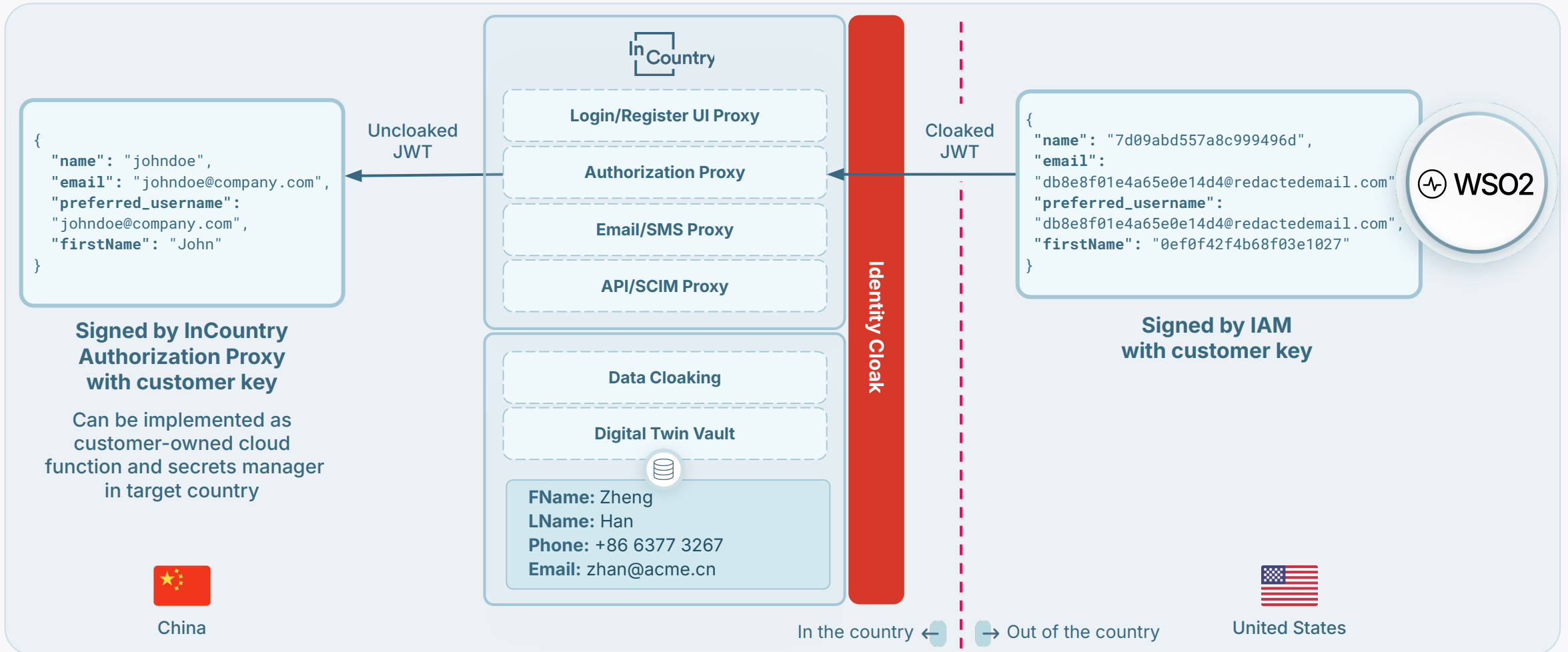
InCountry Email provider proxy handles MFA without revealing Email address



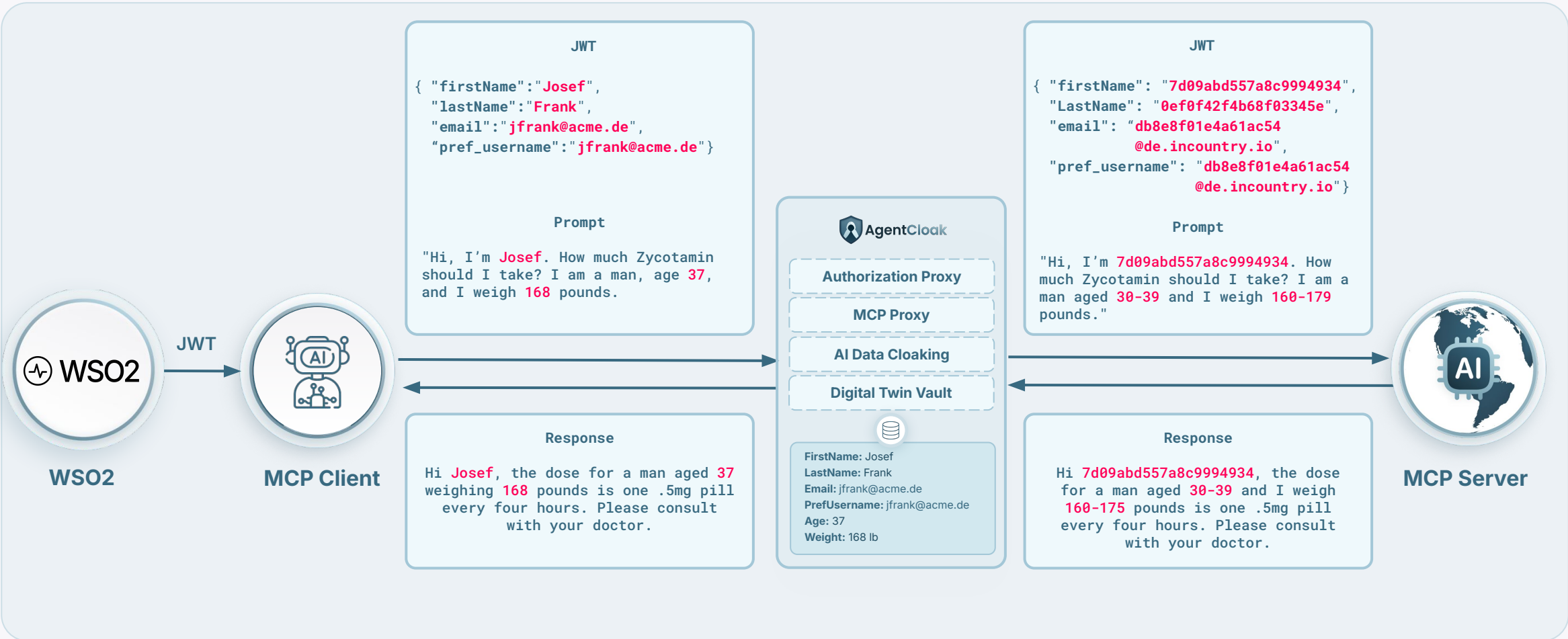
InCountry SMS proxy handles MFA without revealing phone number



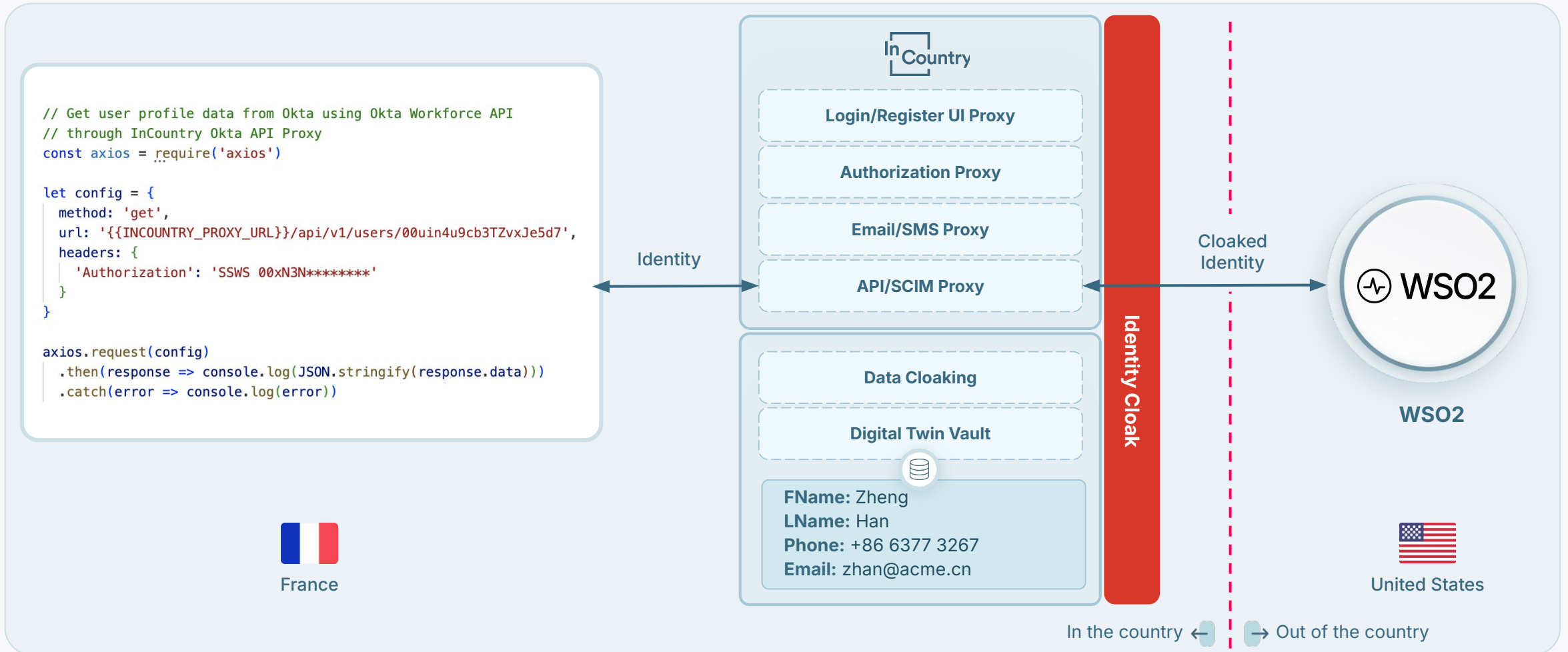
Authentication and authorization are handled by IAM with InCountry adding claims with profile data fields within the country



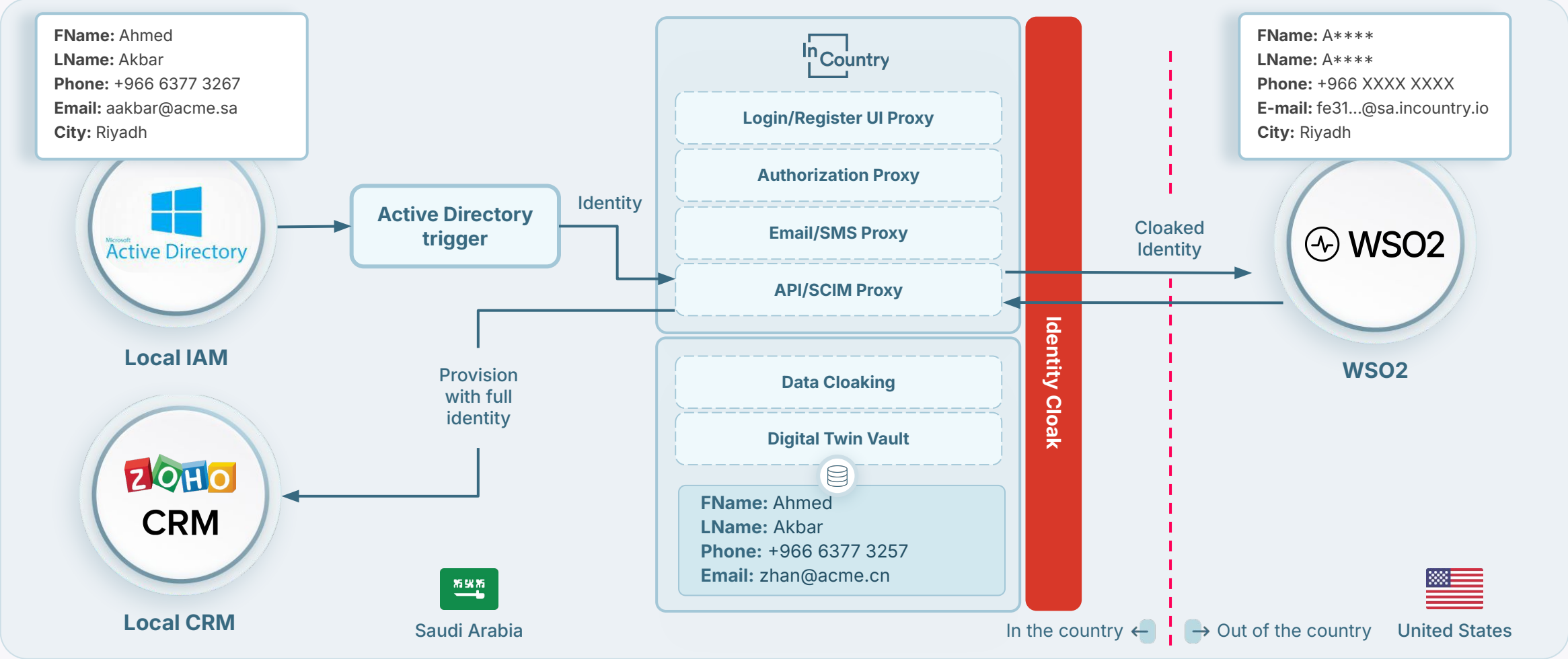
InCountry AgentCloak cloaks JWT claims and MCP prompts and resources and uses secure digital twins to uncloak responses



Applications continue to use SCIM 2.0 and vendor APIs to access identity data

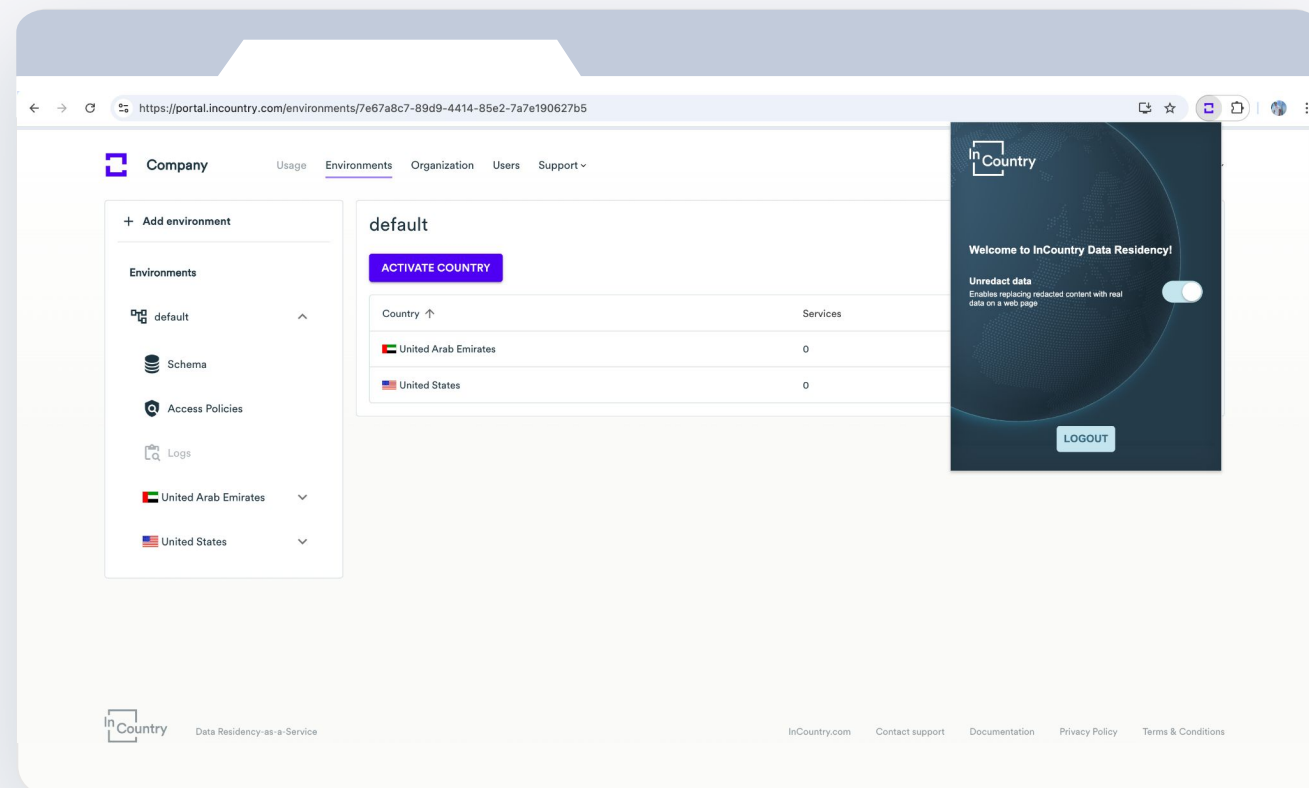


User provisioning in local Identity System de-identified in global Identity System



Chrome extension enables admins in a country to see unredacted data

- Solution does not require identity system's admin portal to implement InCountry API
- Works with identity system's existing admin portal and authentication
- Search and advanced search with unredacted data
- Manage groups and rules with unredacted data
- Add new users and redact data in the country



Comprehensive logging of all activity

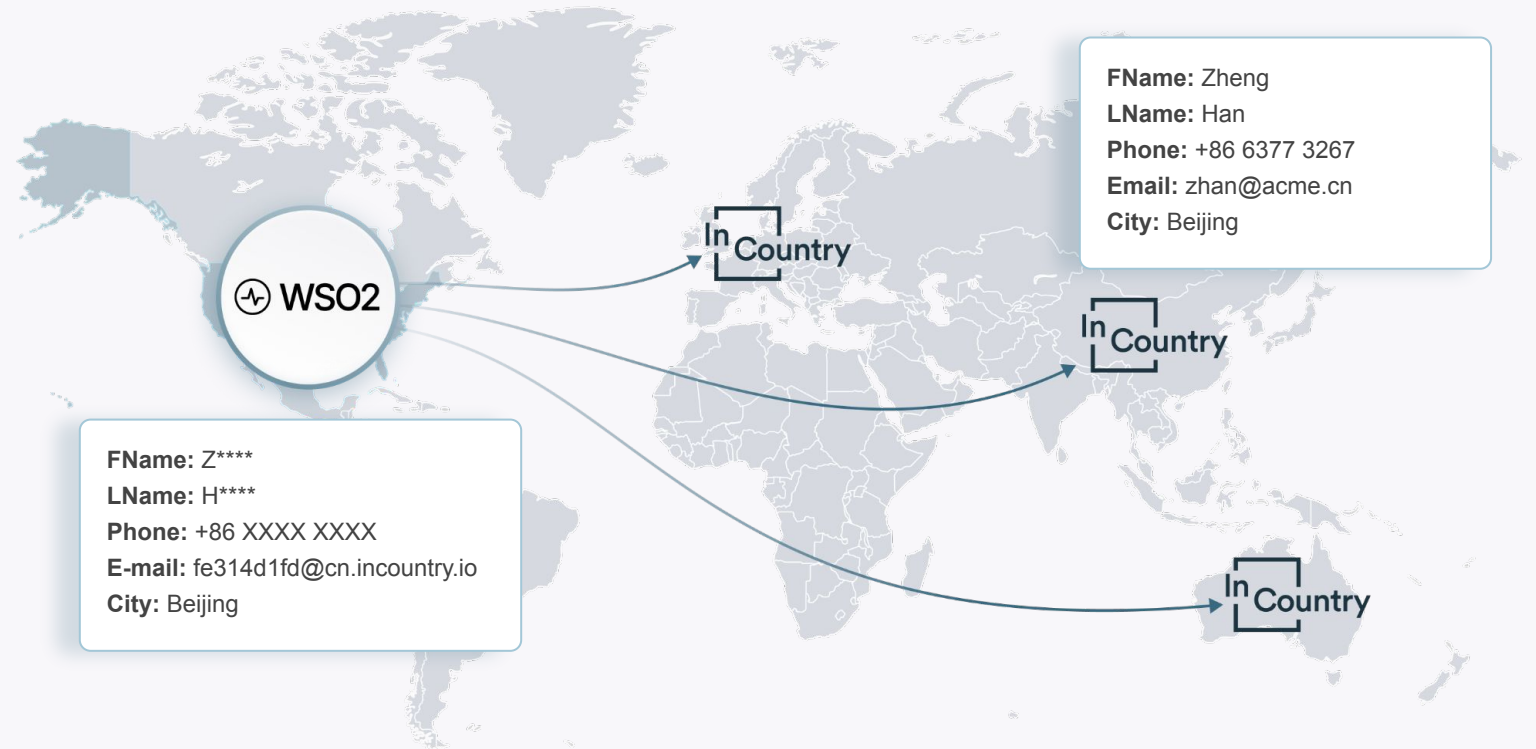
- Accessible within the country
- Contain no PII so can be transported out of the country to a global SIEM
- IP, IMEI, UDID typically not consider PII but can also be de-identified as needed
- 30 day default (SOC 2/ISO 27K) that can be extended to 365 days (PCI DSS)

The screenshot displays the InCountry Usage dashboard. At the top, there are navigation tabs for Usage, Environments, Organization, Users, and Support. The user is logged in as john.doe@mail.com. The main section is titled 'Usage' and features a table with columns for Country, Transactions, Bandwidth, and Reads. The table shows data for United Arab Emirates and United States. A calendar overlay is visible, showing the month of February 2024, with the 23rd highlighted. The time is set to 03:40 PM. A footer note states: 'Reporting data on transactions is updated every 5 minutes. The recently performed transactions may appear with slight delays.'

Country	Transactions	Bandwidth	Reads
United Arab Emirates	100	14682600 B	0
United States	22715	3392580921 B	176

InCountry Profile Data Residency: secure digital twins extend identity systems to isolate identity fields in other countries

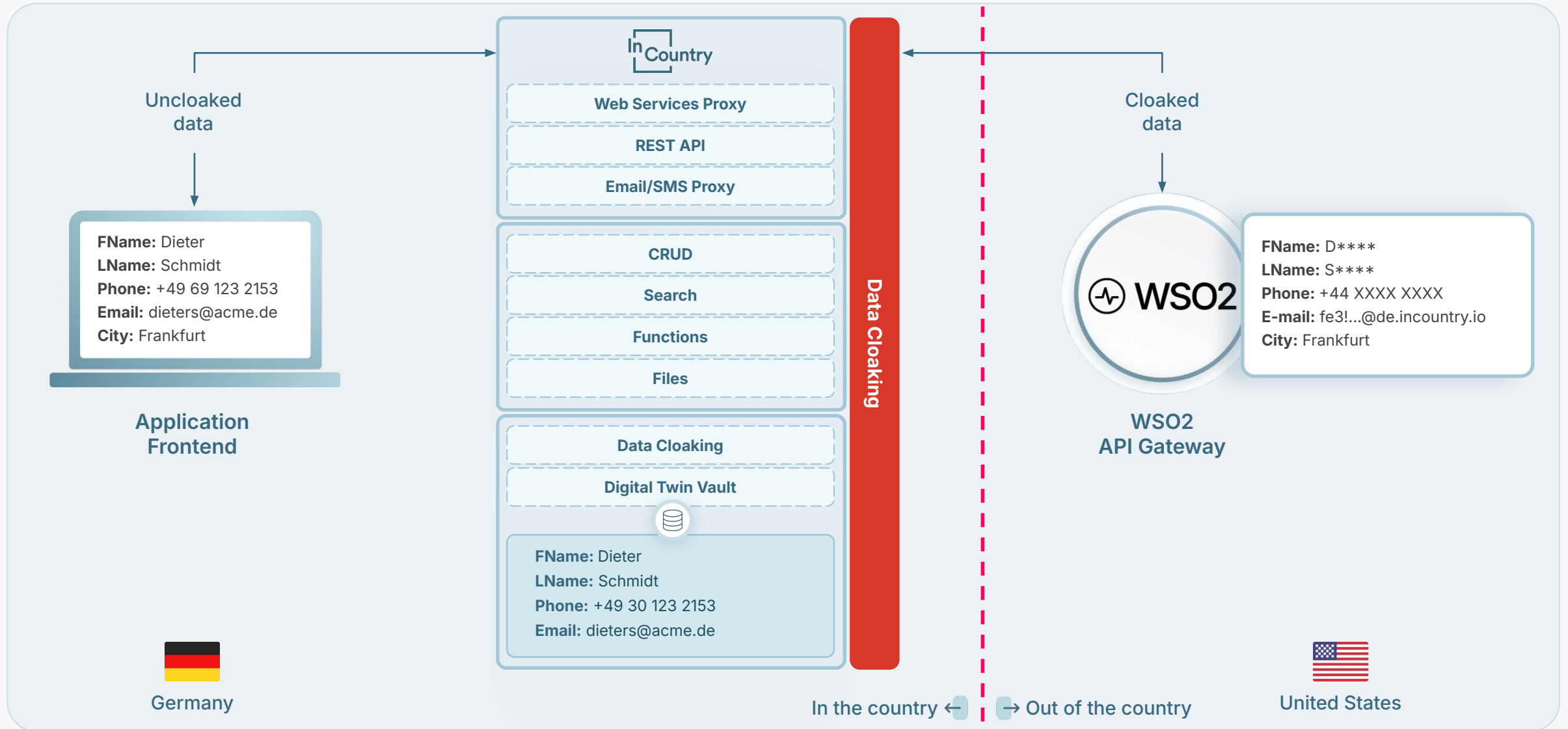
- Secure digital twins maintain identity in a country with cloaked fields in global IAM
- Avoid regulatory barriers and cost of cross-border data transfers
- Simpler and more efficient than running multiple orgs in each country
- Available in countries without an identity system region or cloud
- Solutions for both Customer and Workforce identity



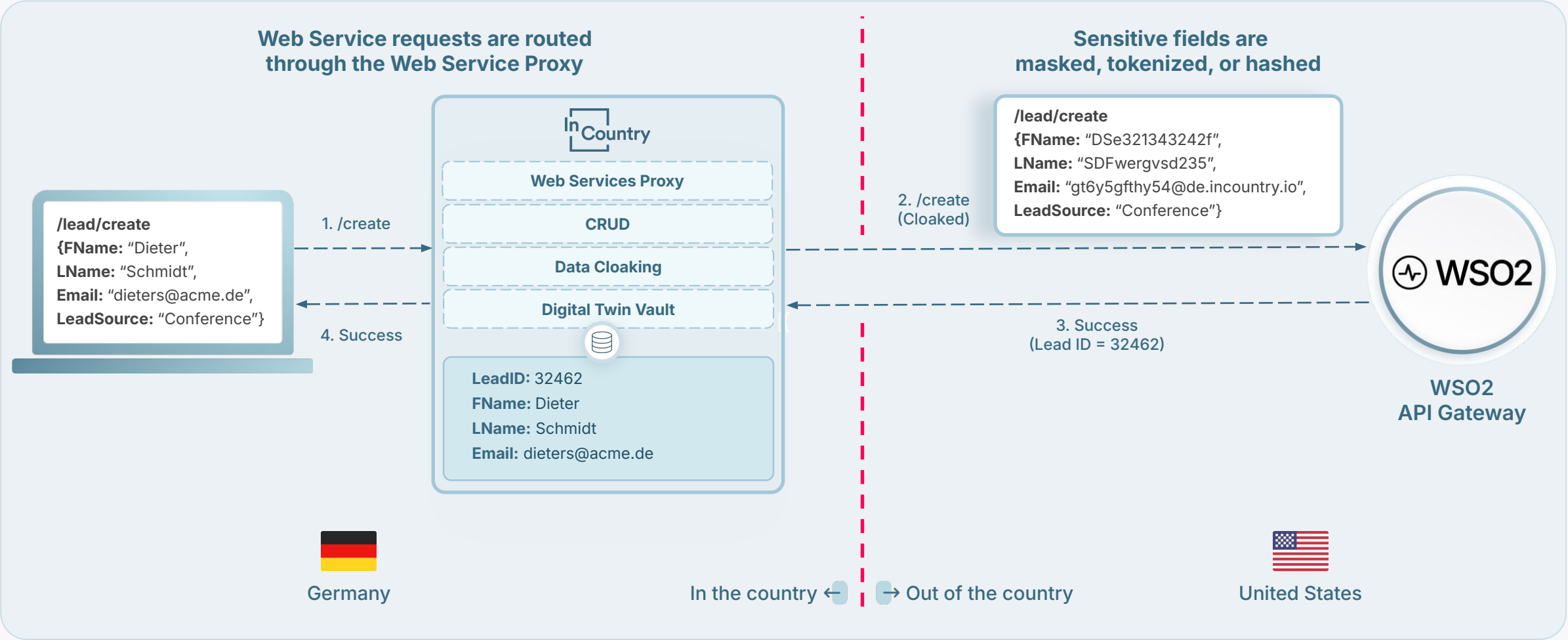


InCountry Data Residency for Apps

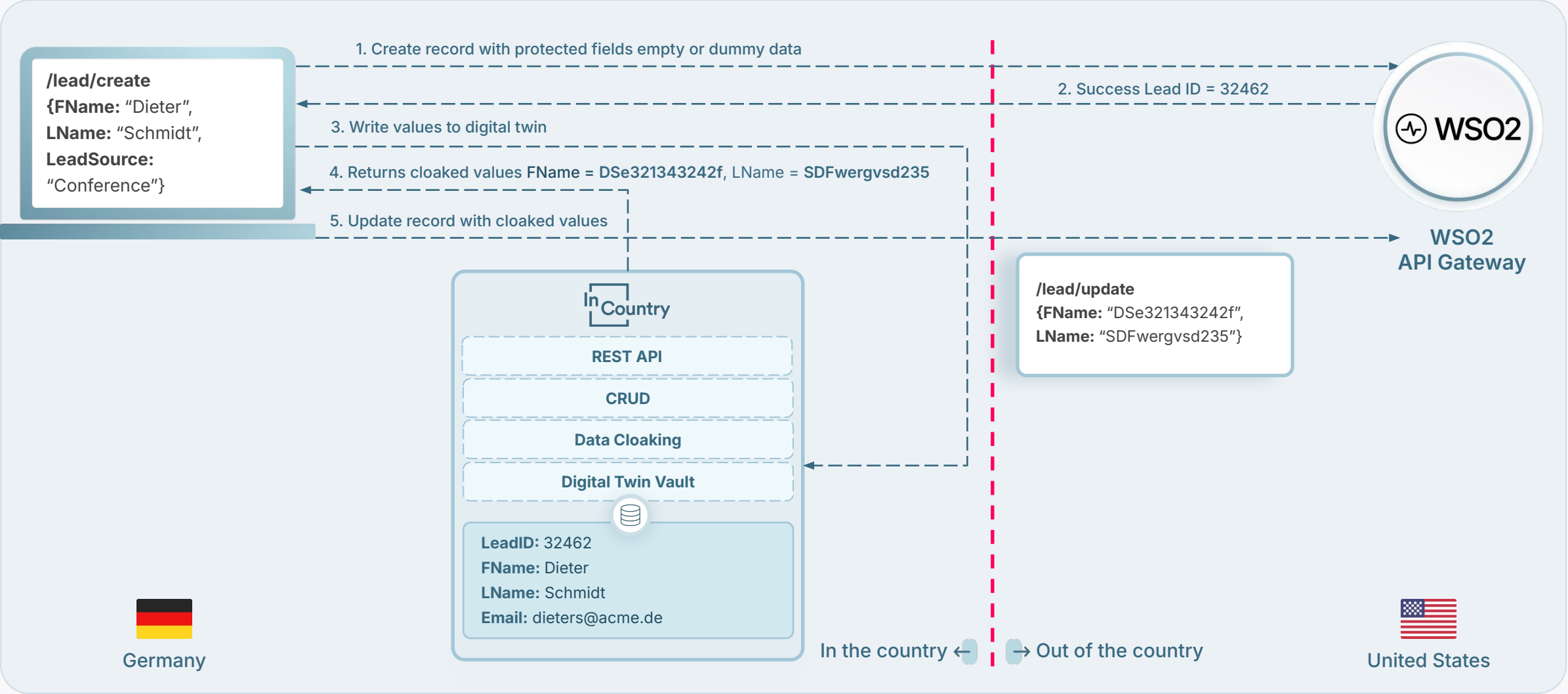
Deep edge services fully isolate data within a country



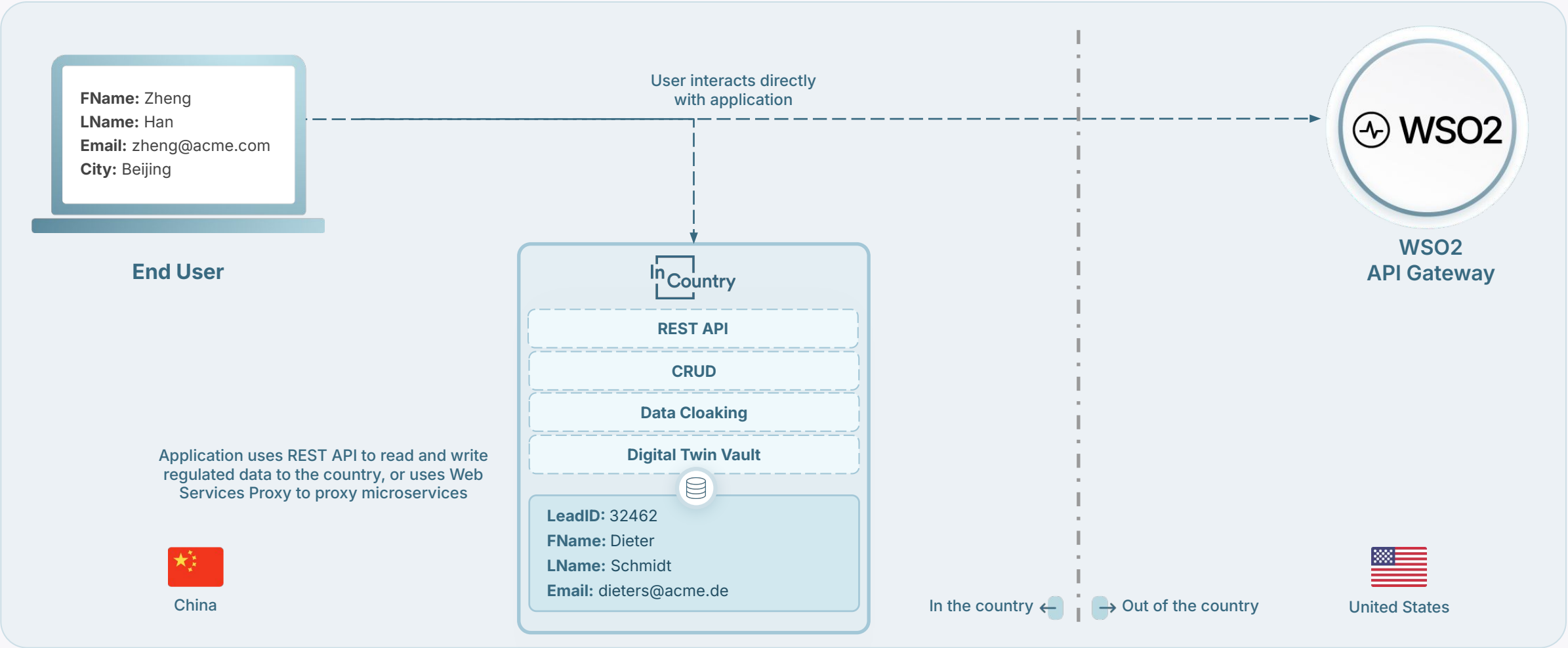
InCountry's web proxy cloaks/uncloaks sensitive data and maintains a secure digital twin vault



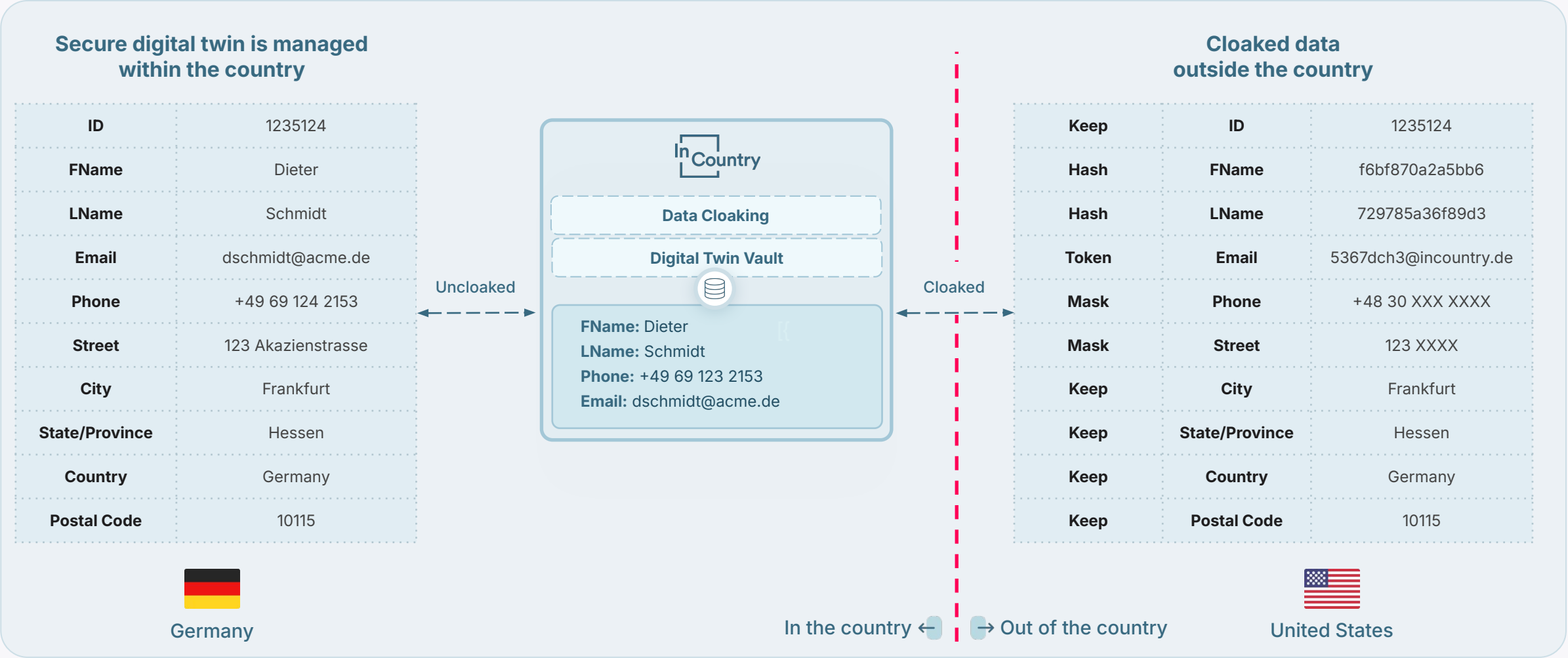
InCountry's REST API directly maintains digital twins



Realtime replicated residency model: REST API or Web Services Border to replicate regulated data to countries



Data Cloaking masks, tokenizes, or hashes protected data fields





AgentCloak Features

With AI, even simple queries can require personal information



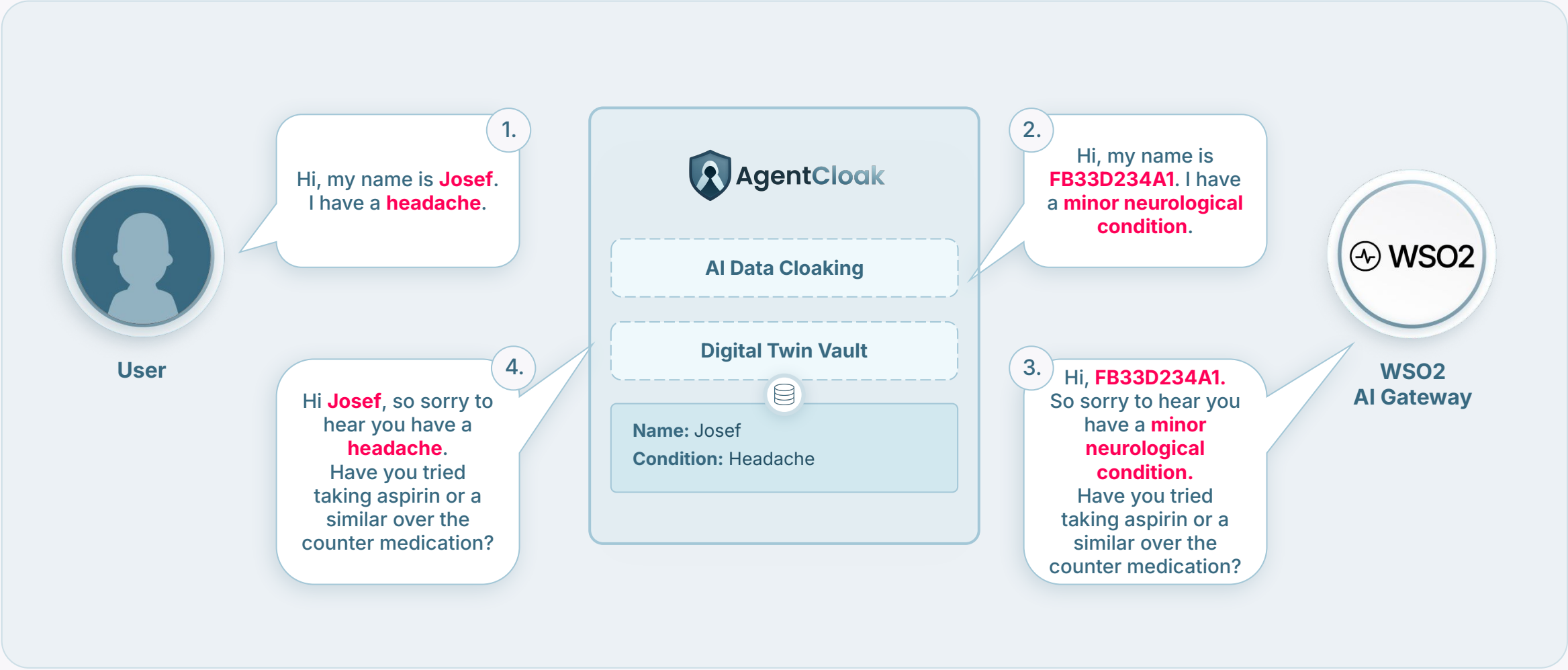
AgentCloak's trained AI cloaks PII, PHI health, and PCI DSS financial data prior to sending to an AI server



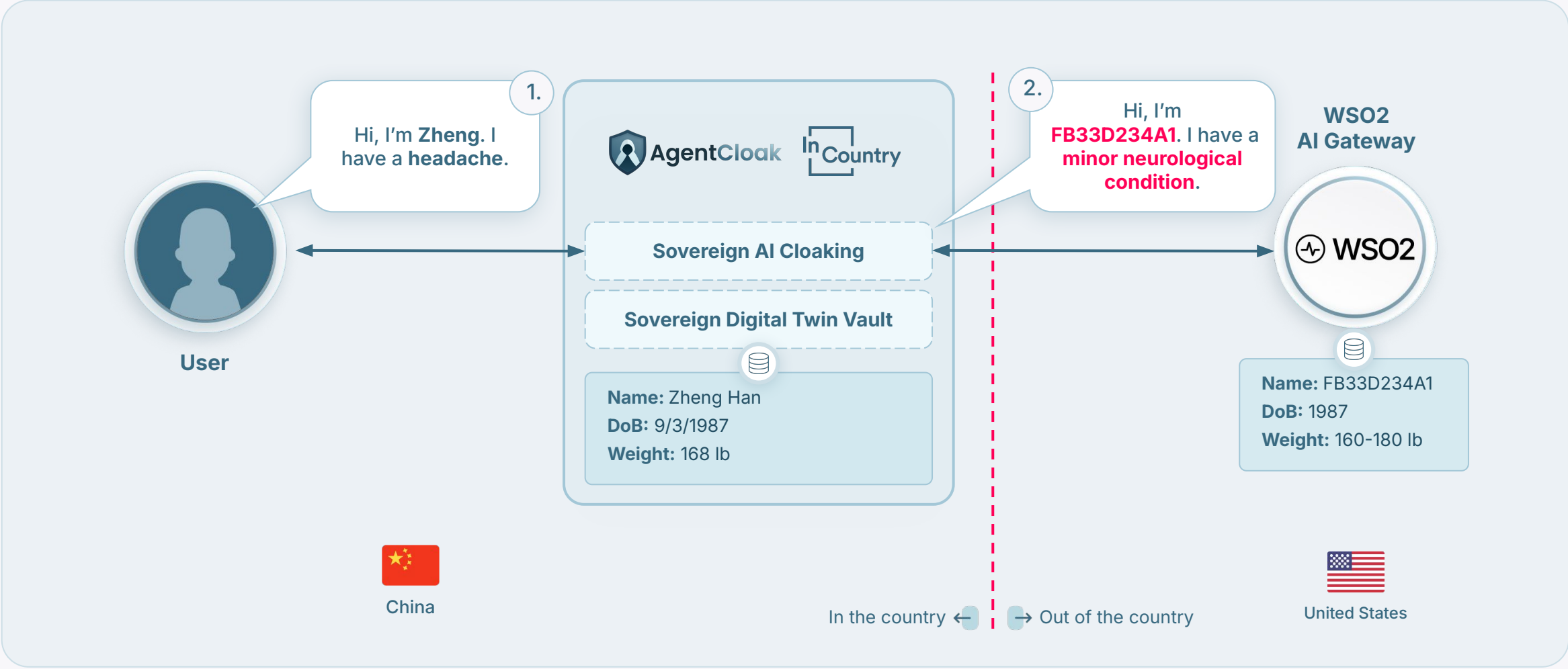
AgentCloak's trained AI detects and generalizes complex text like health condition PHI



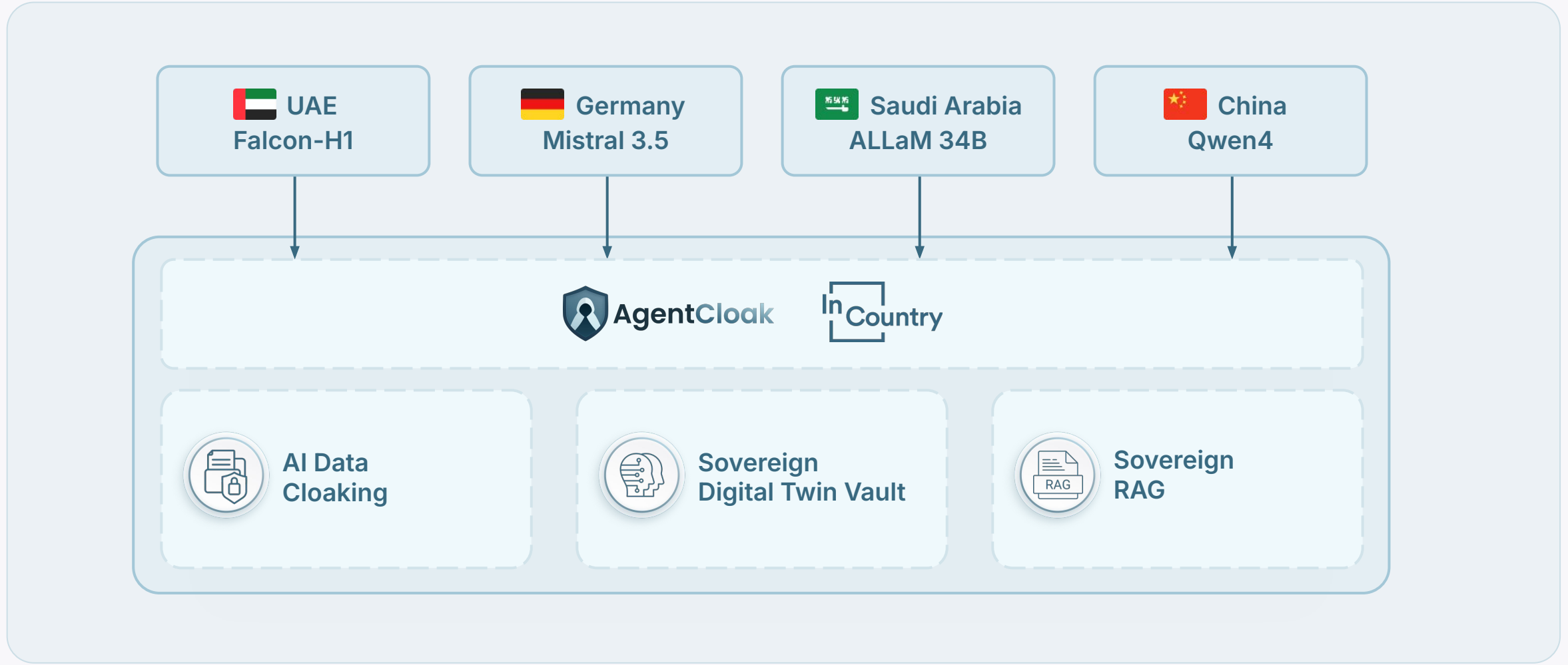
AgentCloak maintains a secure digital twin of the user's data



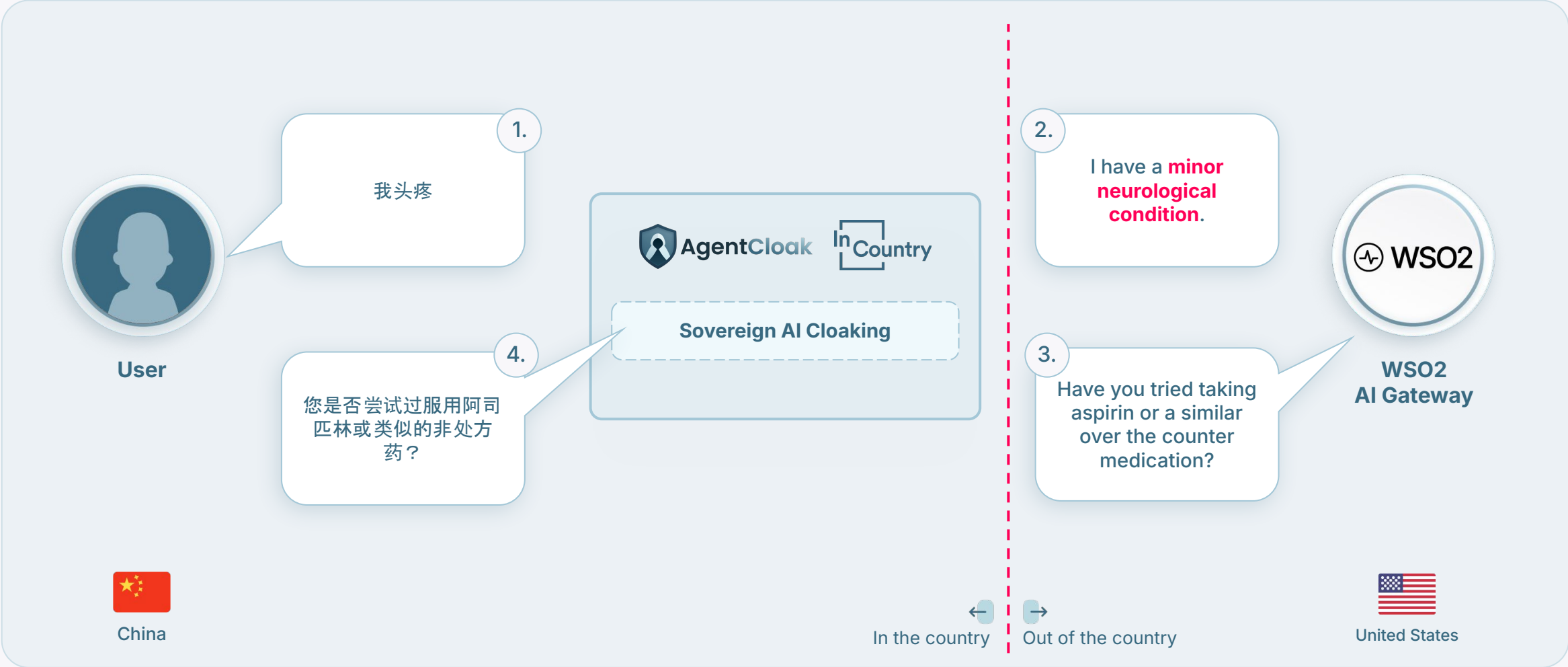
AgentCloak Cross-Border fully isolates PII, PHI, PFI within a country, powered by InCountry data residency



AgentCloak uses InCountry Data Residency and the most regulator friendly Sovereign AI in each country



Sovereign AI can translate to and from the local language including local dialects and slang





Thank you!

peter@incountry.com