

Engineering Update

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Agenda

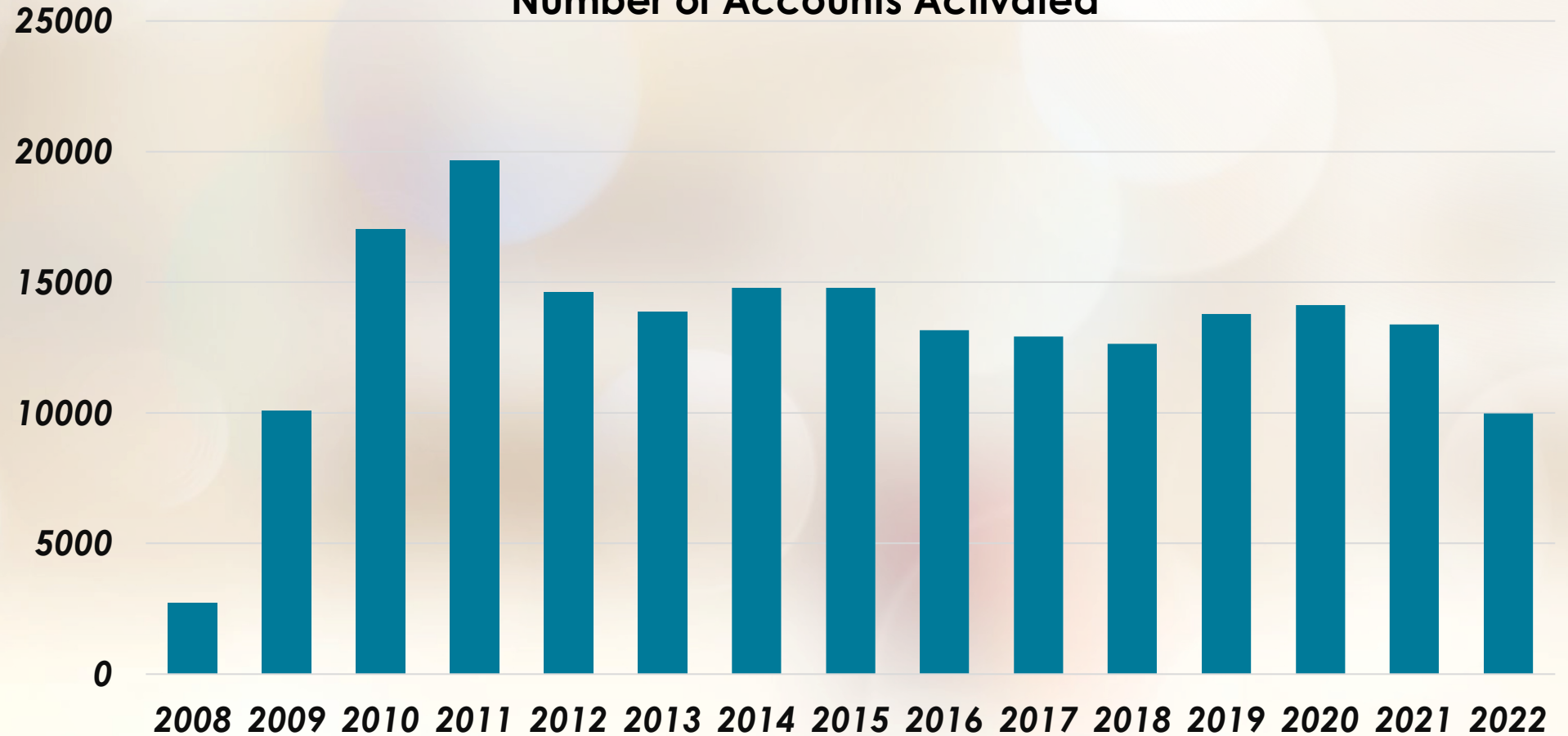
- Statistics
- Software releases
- Operational improvements
- Challenges
- What's next?



ARIN Online

197,640
accounts
activated since
inception through
Q3 of 2022

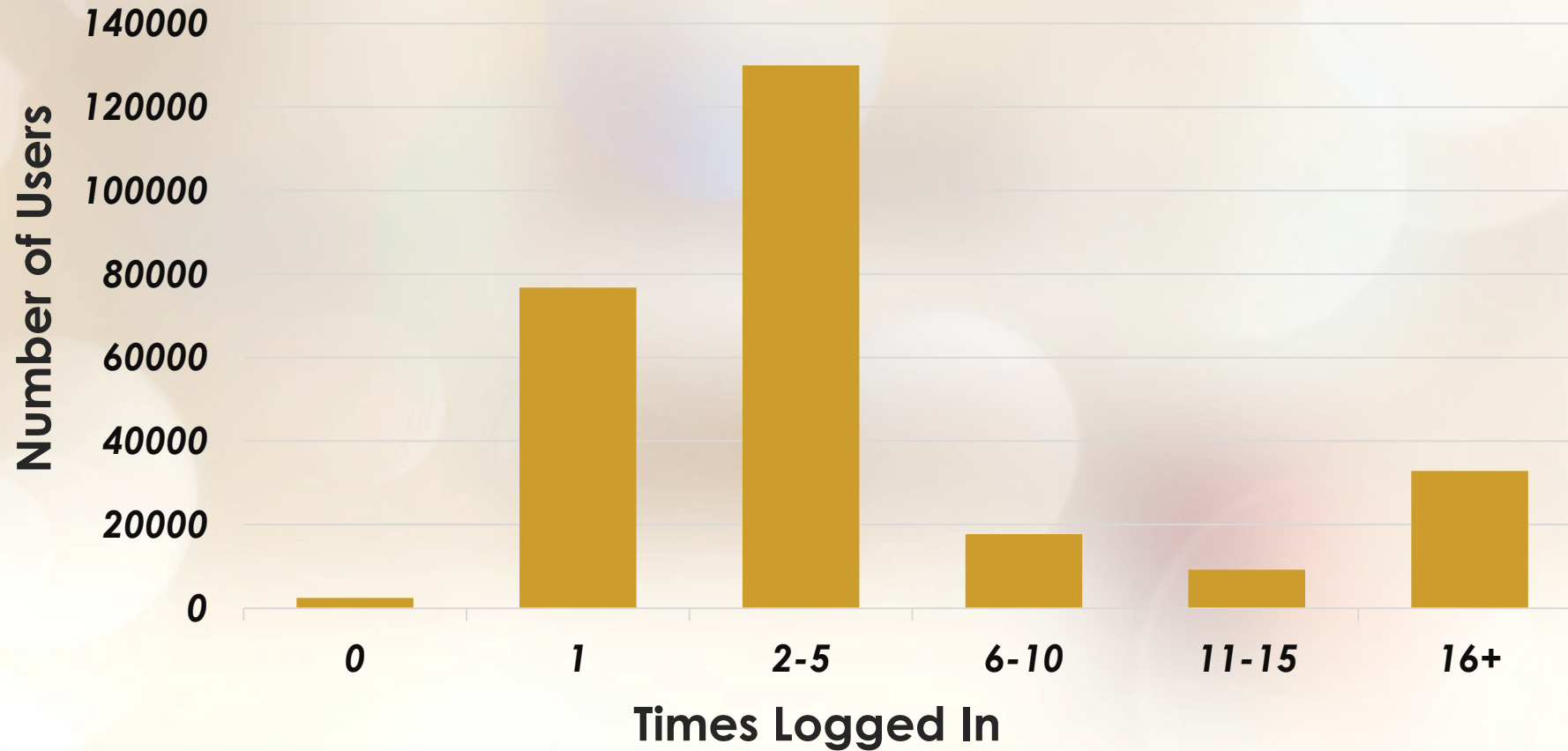
Number of Accounts Activated





ARIN Online Logins - Cumulative

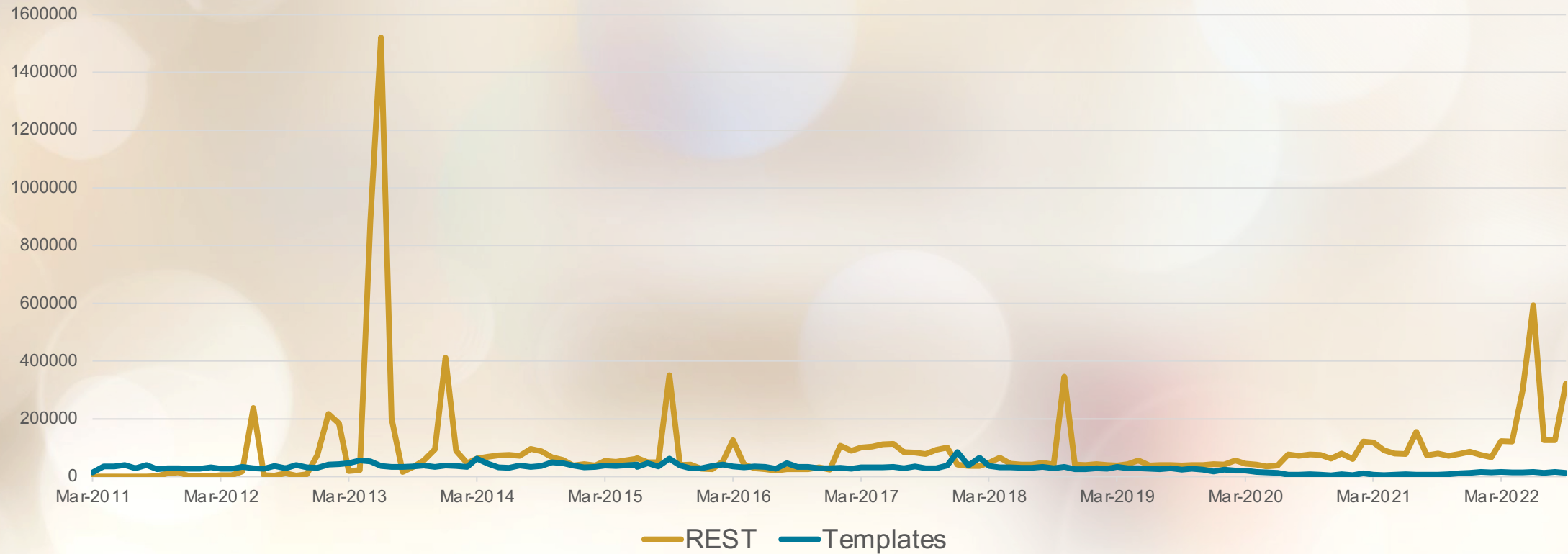
Logins from Inception Through Q3 of 2022





Provisioning Transactions

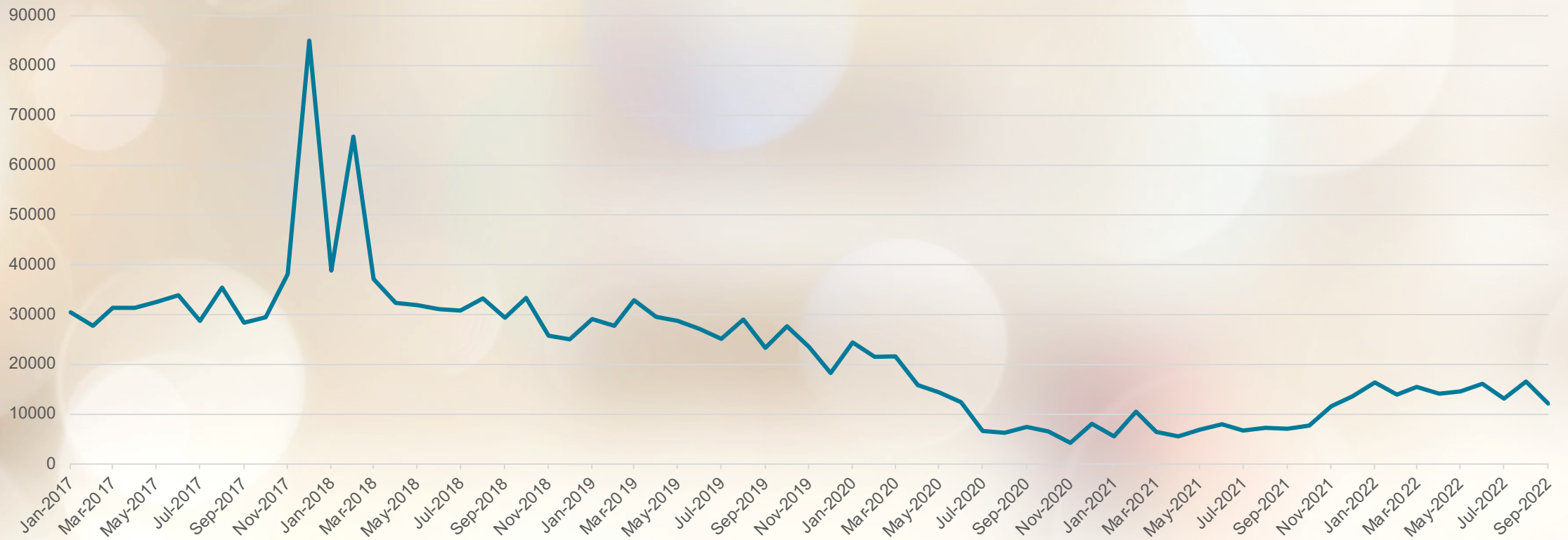
(RESTful + Templates)





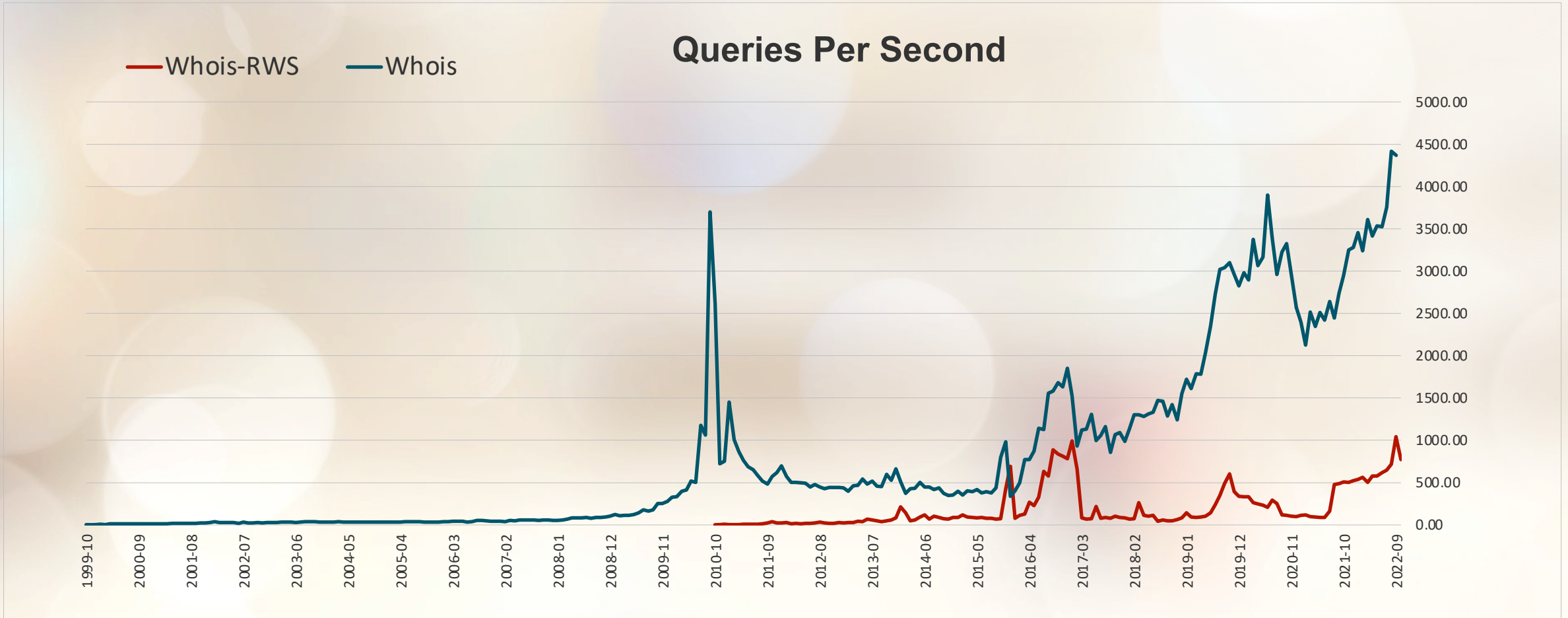
Provisioning Transactions

(A closer look at Templates)





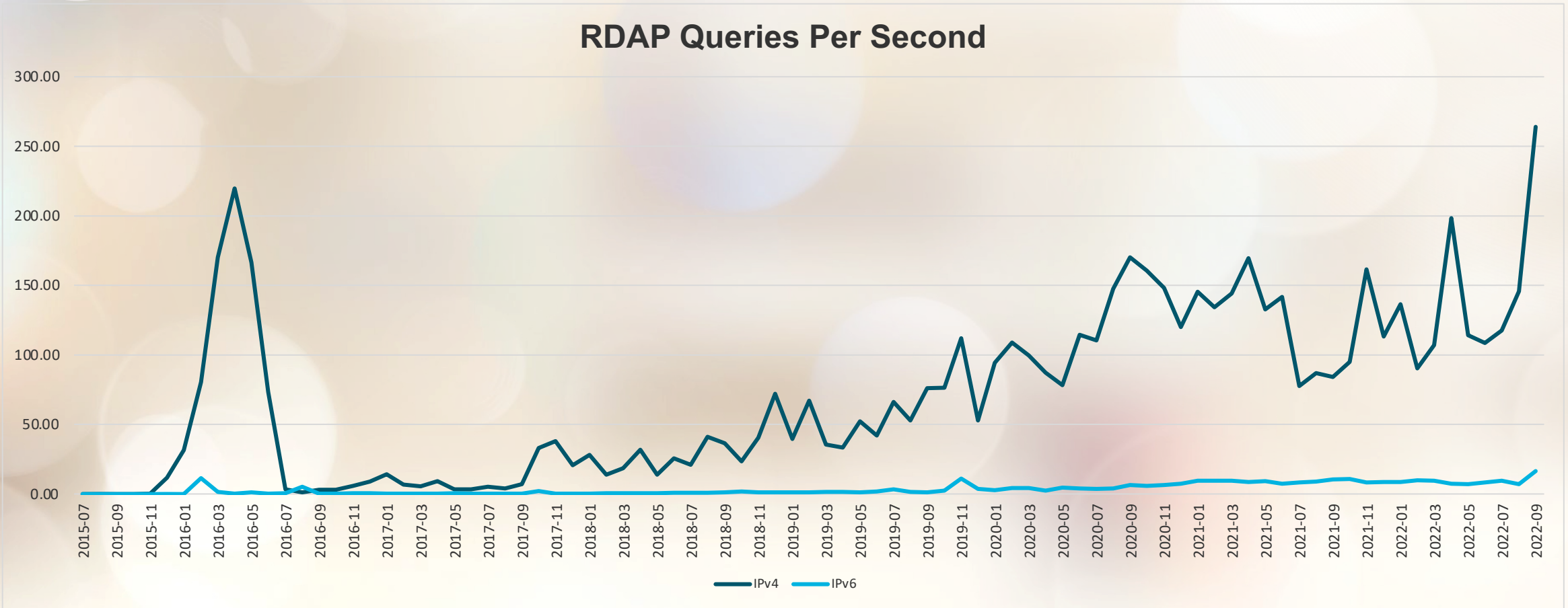
Whois and Whois-RWS





Registration Data Access Protocol (RDAP)

RDAP Queries Per Second

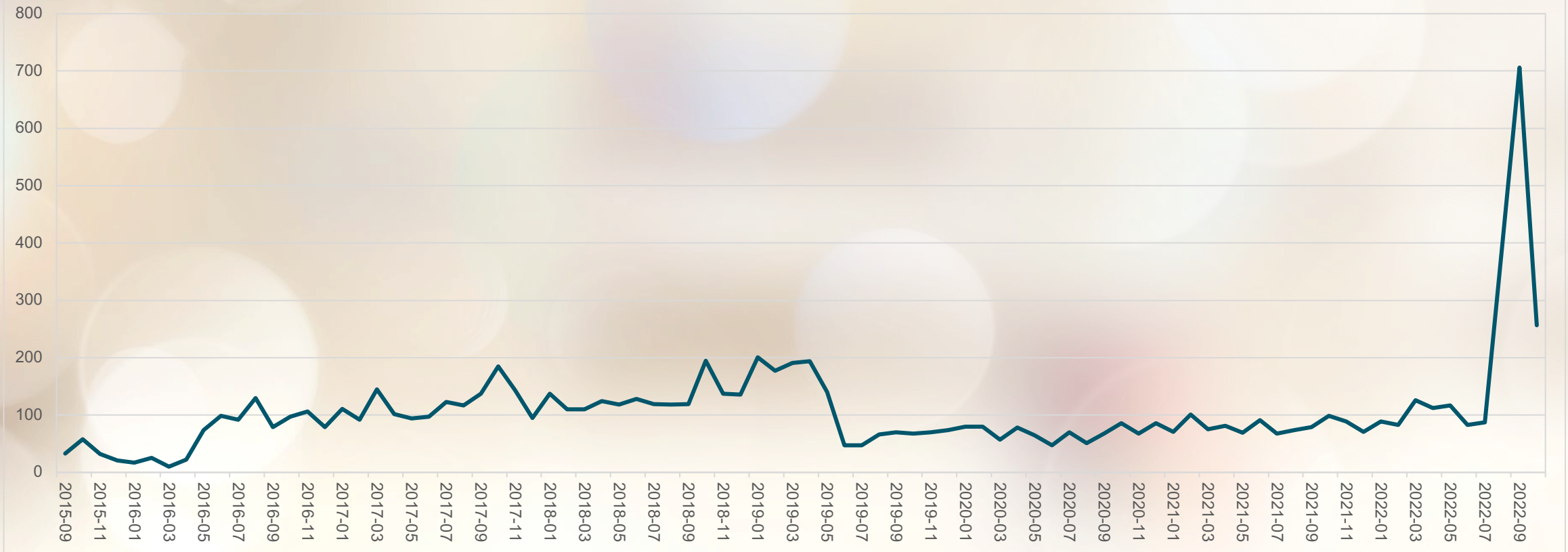




2FA Adoption

- Pre-SMS Deployment: 6,618 2FA users
- Today: 7,811 2FA users

2FA Enrollments





Releases since ARIN 49

- Billing enhancements
 - Internal reporting
 - Premier Service Plan billing
- New ARIN Election system integration
- Listing resources covered under RSA and LRSA
- Two-factor authentication enhancements
 - SMS & Voice
- Large focus on SOC 2 Type 1 audit
- Reduction of technical debt



Improvements since ARIN 49

End-of-life box replacements (continual slow pace of replacement)

Preparation of rolling out new hardware for Public Facing Services (PFS) sites

Third-party security audit completed



Challenges

Directory Services (ARIN 48)

- Periodic high loads
- Evidence of companies evading limits using large "botnets" to get whois data
- Contacted ISPs and the FBI



Brute force login attacks (ARIN 49)

- Periodic incidents
- Automated production of audit logs, reports, and suspect accounts are sent to ARIN's Registration Services Department



SOC 2 audit preparation (ARIN 50)

- Policy development
- Lots of process checking and evidence collection



What's Next

- New third-party payment processor
- Secure routing enhancements
 - Secure routing dashboard for IRR and RPKI
 - New scalable method of updating our repositories
- 2FA enhancements
 - Adding FIDO2
- Technical debt
 - Continue to replace libraries that are end of life
- PFS site improvements
 - Install a re-engineered hardware solution for our public-facing sites
- Ongoing support for SOC 2 compliance
- Support for multi-site logging and monitoring

Any Questions



Thank You