

Seata 的过去、现在和未来

Past, Present and Future

季敏 @slievrlly

Seata 开源项目发起人

Agenda

Agenda

01

What's New in Seata 1.0.0

02

Past, Present and Future



Seata 1.0.0

What's New in Seata
1.0.0

Overview



Overview

- [slievrly] (<https://github.com/slievrly>)
- [long187] (<https://github.com/long187>)
- [jsbxxyx] (<https://github.com/jsbxxyx>)
- [181893521] (<https://github.com/181893521>)
- [helloworldde] (<https://github.com/helloworldde>)
- [xingfudeshi] (<https://github.com/xingfudeshi>)
- [zjinlei] (<https://github.com/zjinlei>)
- [CharmingRabbit] (<https://github.com/CharmingRabbit>)
- [objcoding] (<https://github.com/objcoding>)
- [cmonkey] (<https://github.com/cmonkey>)
- [lzf971107] (<https://github.com/lzf971107>)
- [ggndnn] (<https://github.com/ggndnn>)
- [lightClouds917] (<https://github.com/lightClouds917>)
- [ruqinhu] (<https://github.com/ruqinhu>)
- [yuhuangbin] (<https://github.com/yuhuangbin>)
- [anrror] (<https://github.com/anrror>)
- [a364176773] (<https://github.com/a364176773>)
- [caohdgege] (<https://github.com/caohdgege>)
- [contextshuffling] (<https://github.com/contextshuffling>)
- [echooymxq] (<https://github.com/echooymxq>)
- [github-ygy] (<https://github.com/github-ygy>)
- [iapplejohn] (<https://github.com/iapplejohn>)
- [jKill] (<https://github.com/jKill>)
- [Justice-love] (<https://github.com/Justice-love>)
- [lovepoem] (<https://github.com/lovepoem>)
- [niaoshuai] (<https://github.com/niaoshuai>)
- [ph3636] (<https://github.com/ph3636>)
- [wangwei-ying] (<https://github.com/wangwei-ying>)
- [whjjay] (<https://github.com/whjjay>)
- [yangfuhai] (<https://github.com/yangfuhai>)
- [zhongfuhua] (<https://github.com/zhongfuhua>)
- [lizwmaster] (<https://github.com/lizwmaster>)

Feature

- support dynamic config and dynamic disable
- provide a visual graph designer for Seata Saga StateMachine based on GEditor
- add seata-spring-boot-starter
- support gRPC
- support hessian codec for RPC serialization
- stateMachine ServiceTask supports asynchronous execution and support "Retry"
- support use gzip compressor
- support where exist syntax
- fit springcloud-alibaba-seata autoconfig
- support single sending of transaction message
- provide initialization scripts for all configuration centers

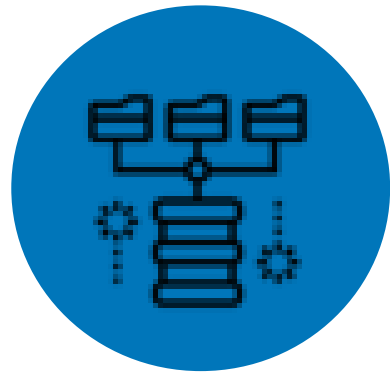
Optimize

- optimize the speed when batch insert or batch update
- flatten Saga nested transactions
- add ops script for Docker-Compose, Kubernetes and Helm
- simplify and groom configuration items (60+ --> 10-)
- one time release lock to reduce server RPC with DB
- add phase one successful reporting switch (50% performance improvement)
- when querying transactions according to the transaction status, the query is spliced once to reduce the number of interactions with the database

Bugfix

- new connection can't be get when connection is not released
- fix when tableName is keyword, the insert operation will get afterImage fail
- fix startup failure when dynamic proxy is turned on and use druid-spring-boot-starter
- fix global status inconsistent when rollback and branch register are concurrent
- fix server restart not recover max sessionId on DB mode
- fix when write the new file throw ClosedChannelException
- fix stateInstance log can't record output parameters
- fix datasource auto proxy for multiple-datasource does not work
- fix a duplicate lock problem in a local transaction
- fix can't use select for update in oracle
- fix insert into ... on duplicate key update ... not work in DB

What's Seata



Seata: Simple Extensible Autonomous Transaction Architecture

微服务架构下，易用、高效的分布式事务解决方案



技术积累

内部产品：TXC、XTS

商业化产品：GTS、DTS



愿景

像使用本地事务一样使用分布式事务，提供一站式的分布式事务解决方案

What's Seata

1 支持各微服务框架

目前已支持 Dubbo、Spring Cloud、Sofa-RPC、Motan 和 gRPC 等RPC框架，其他框架持续集成中

2 AT自动补偿模式

提供无侵入自动补偿的事务模式，目前已支持 MySQL、Oracle 的自动补偿模式、PostgreSQL、H2 开发中

3 TCC模式

支持用户使用TCC灵活扩展事务

4 Saga模式

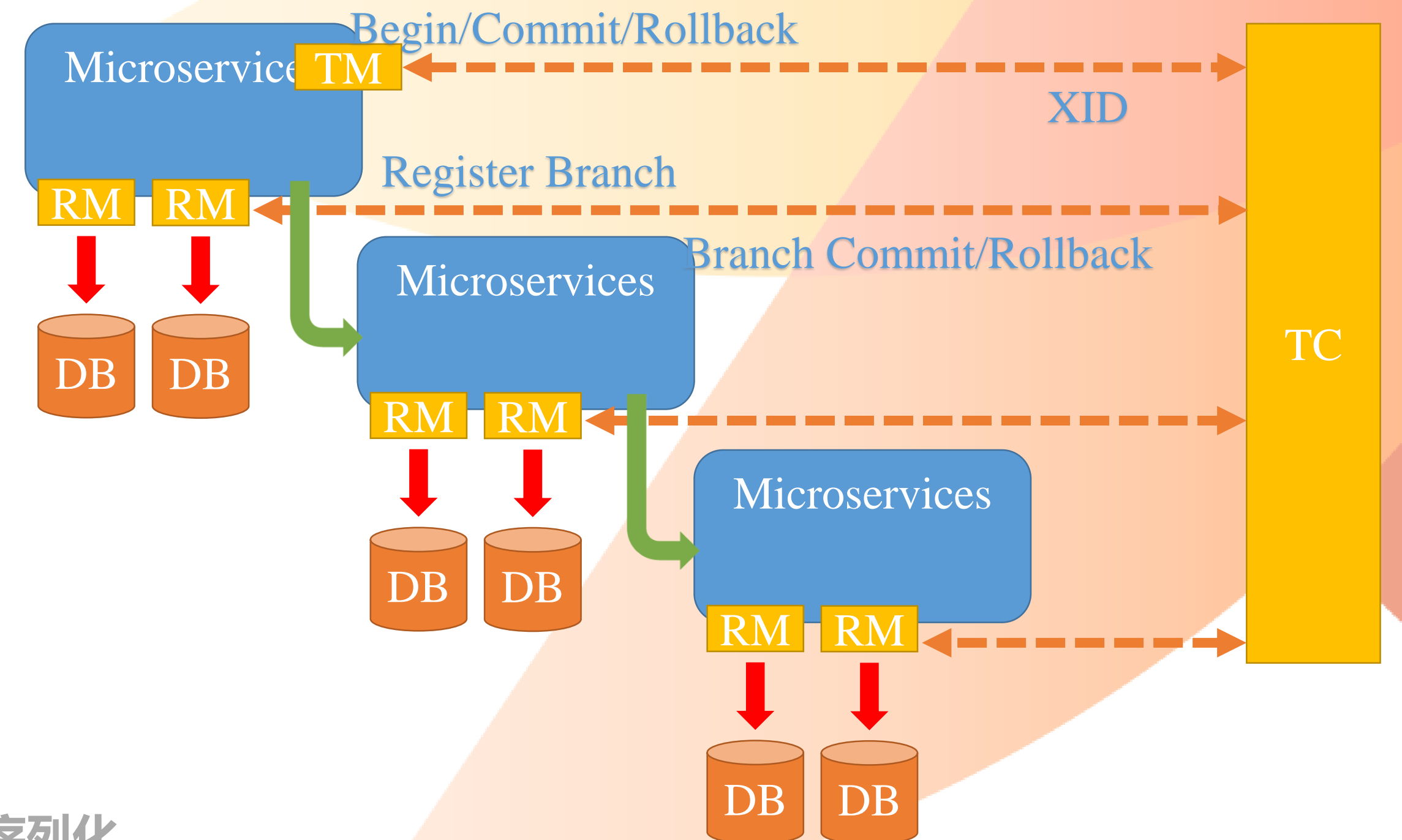
提供长事务和服务编排解决方案

5 高可用

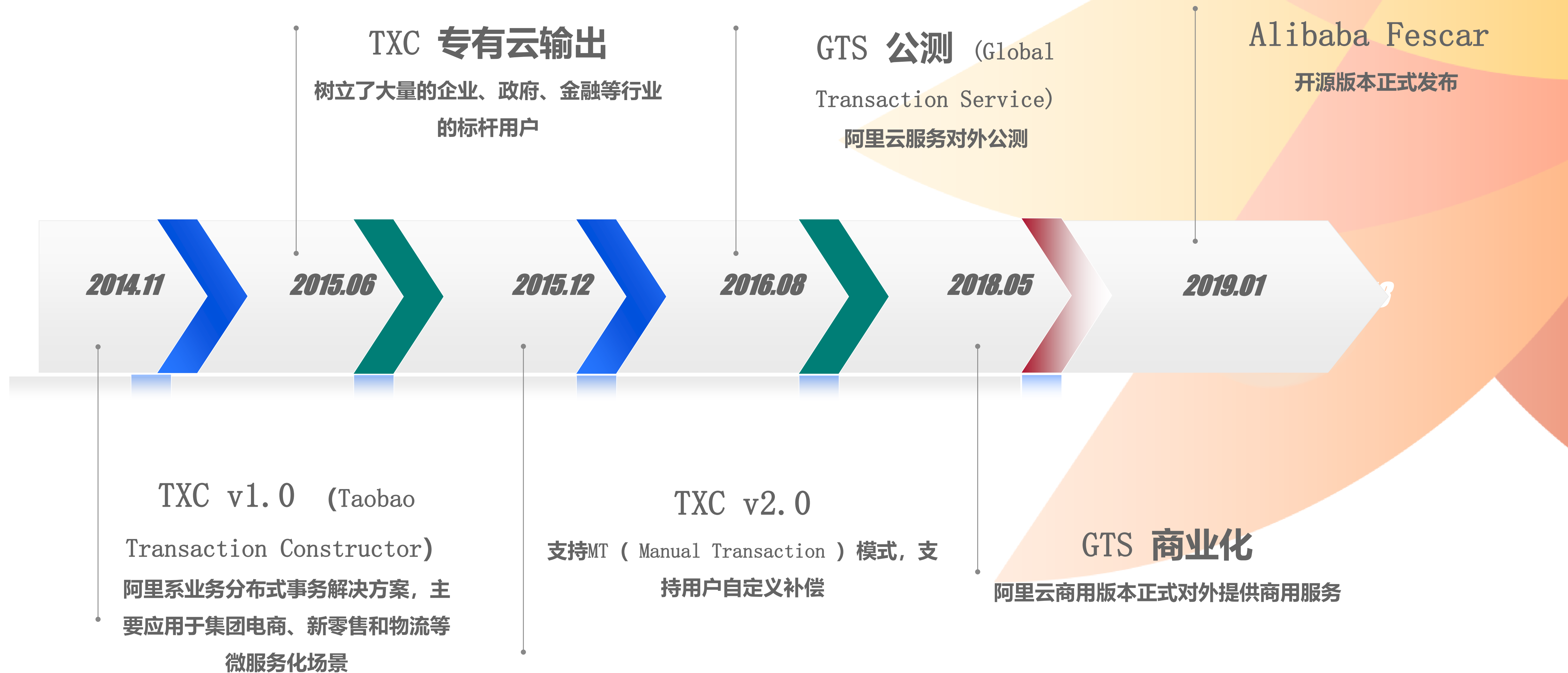
支持基于数据库存储的集群模式，水平扩展能力强

6 高可扩展性

支持各类配置中心、注册中心、序列化、存储、协议序列化、负载均衡 等SPI扩展



History



History

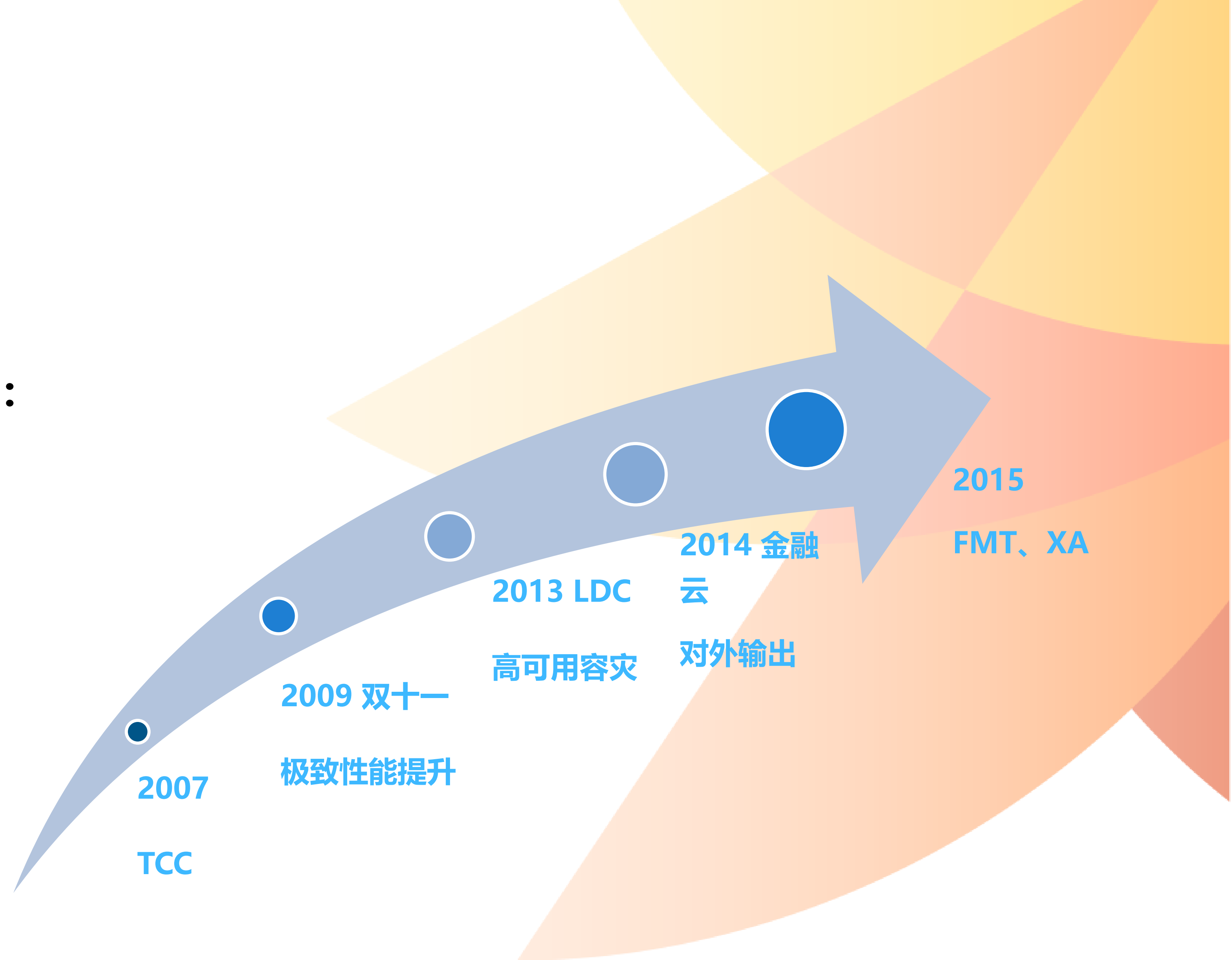
❖ 三种模式，丰富的应用场景：

- TCC模式
- FMT模式
- XA模式

❖ 极致性能提升

❖ 高可用容灾

❖ 无侵入解决方案



Present

多次蝉联GitHub Java月活跃排行榜第一

13238

STARS

3373

FORKS

128

Contributors



快速迭代

自2019.1 开源以来，11个多月的时间累积发行25个版本



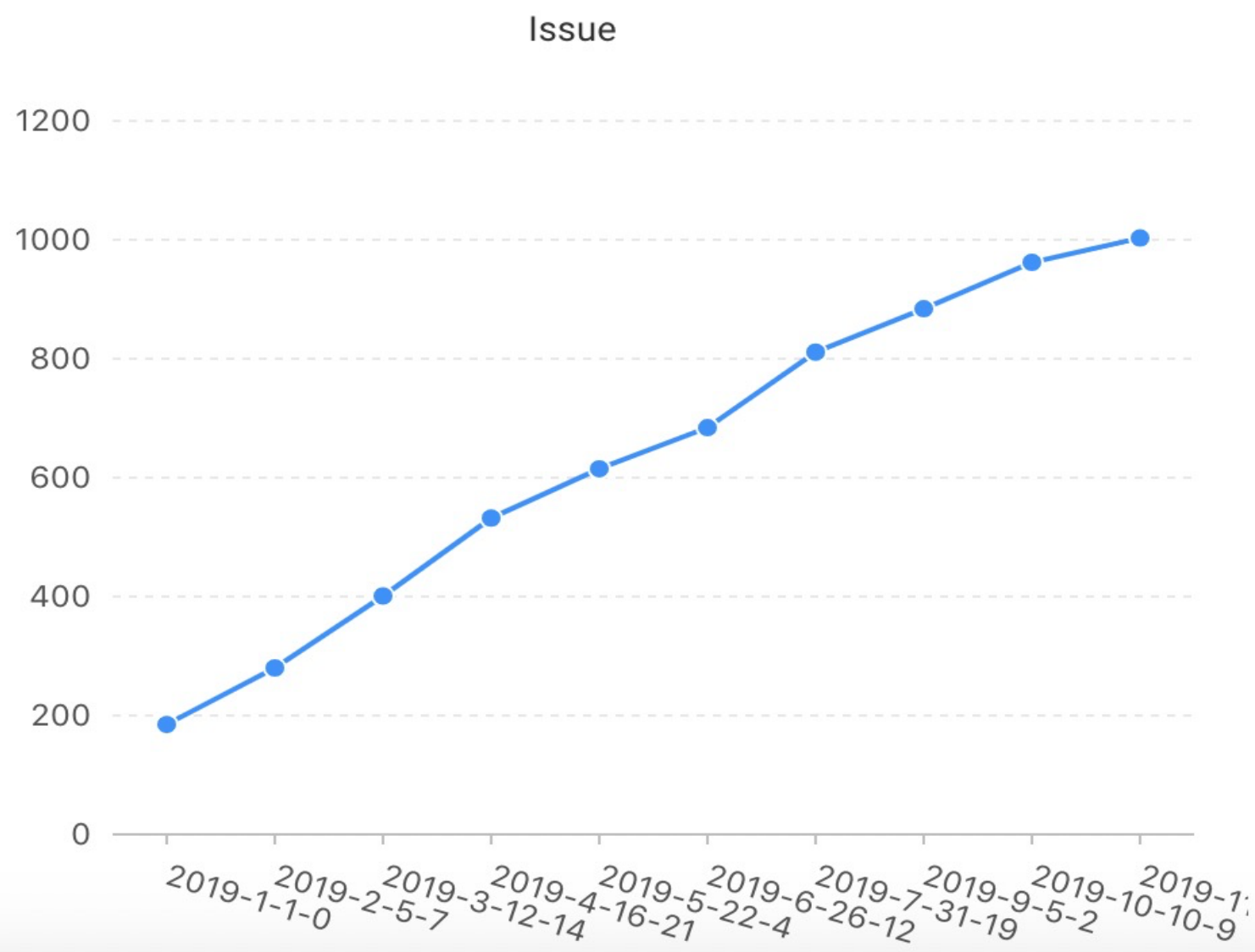
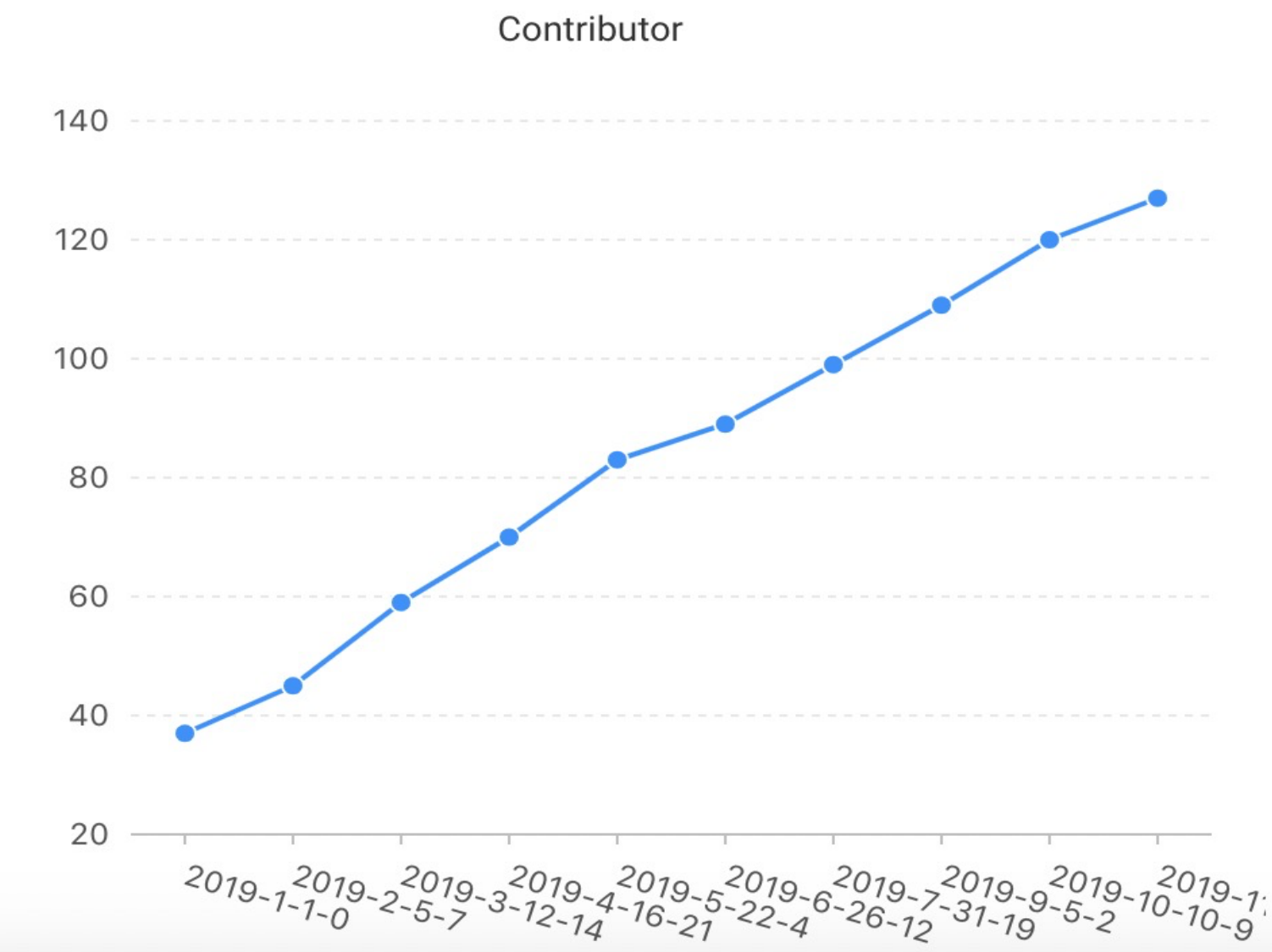
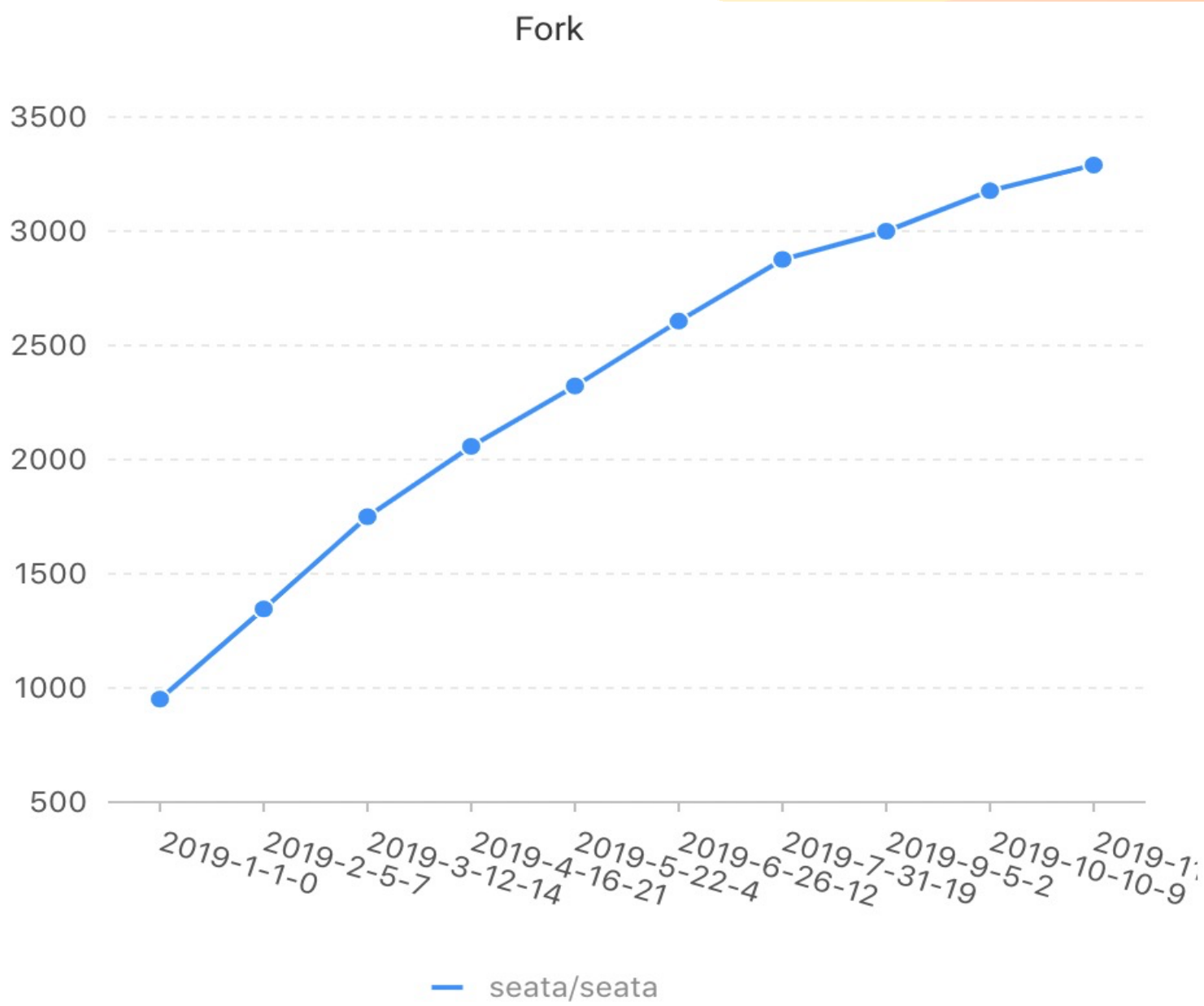
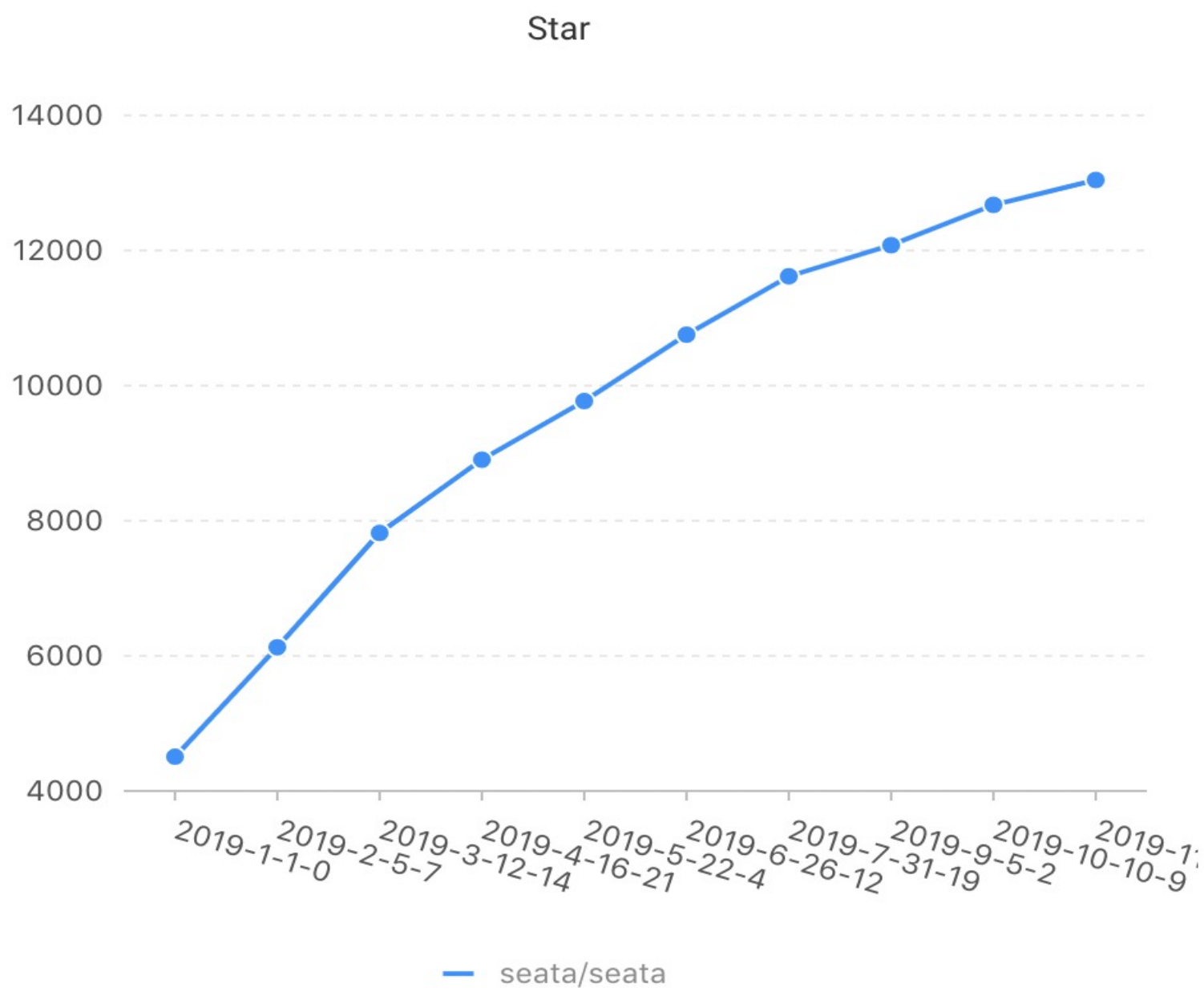
Seata 生态

Docker、Kubernetes、Helm

Seata-go-server、 Seata-go-client

Samples、Workshop、Benchmark、 [Seata.github.io](https://seata.github.io)

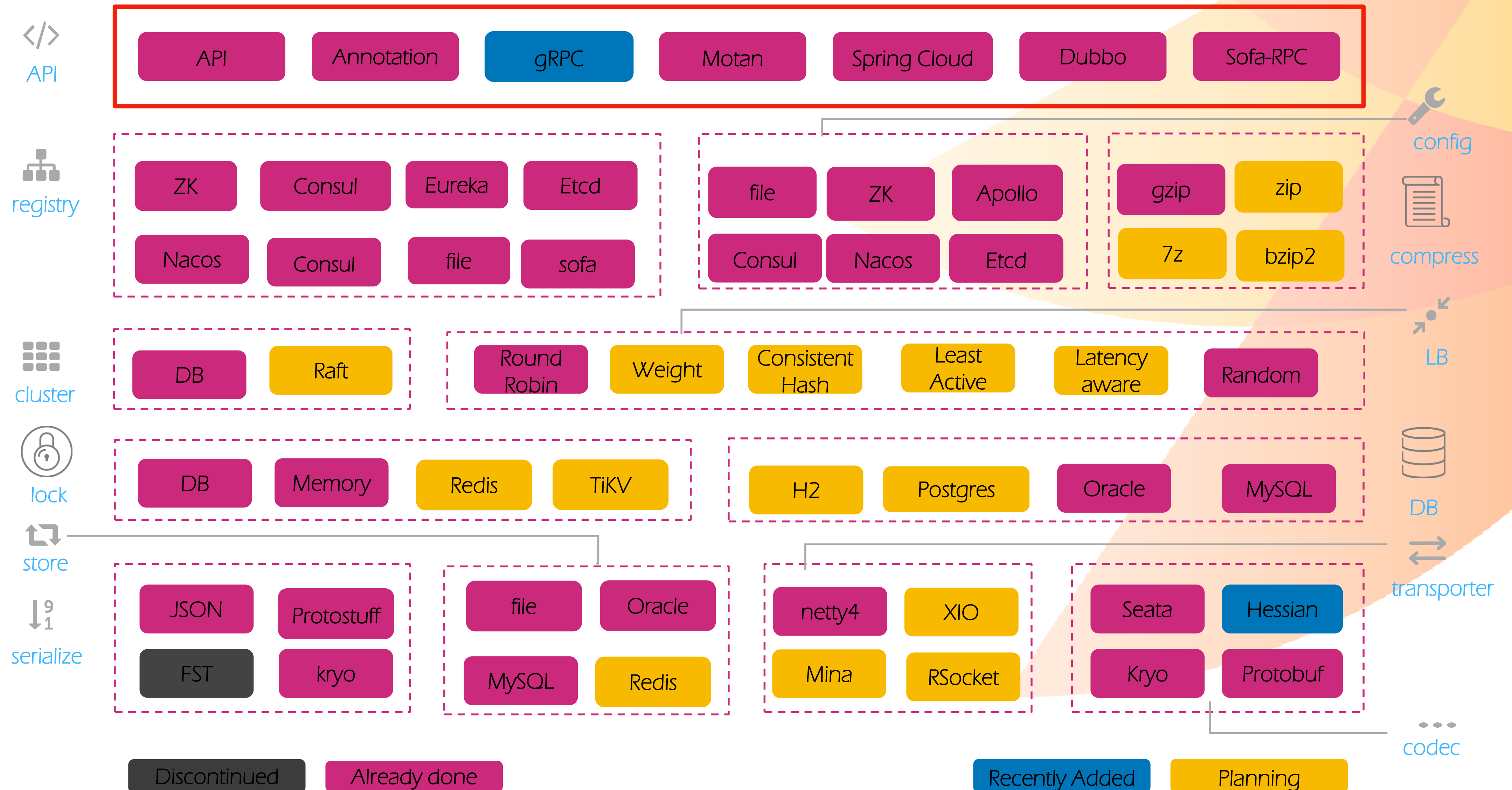
Present



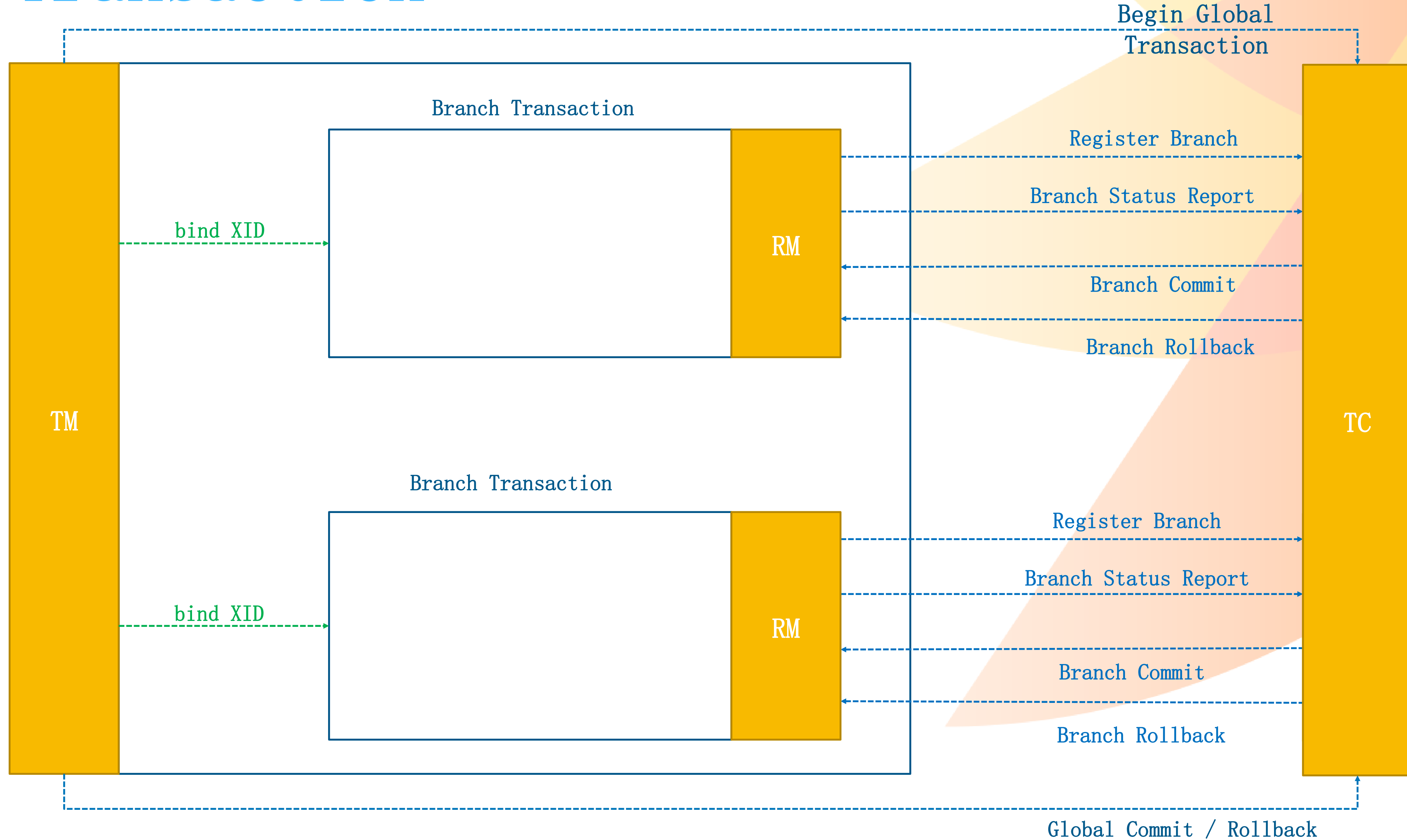
Present



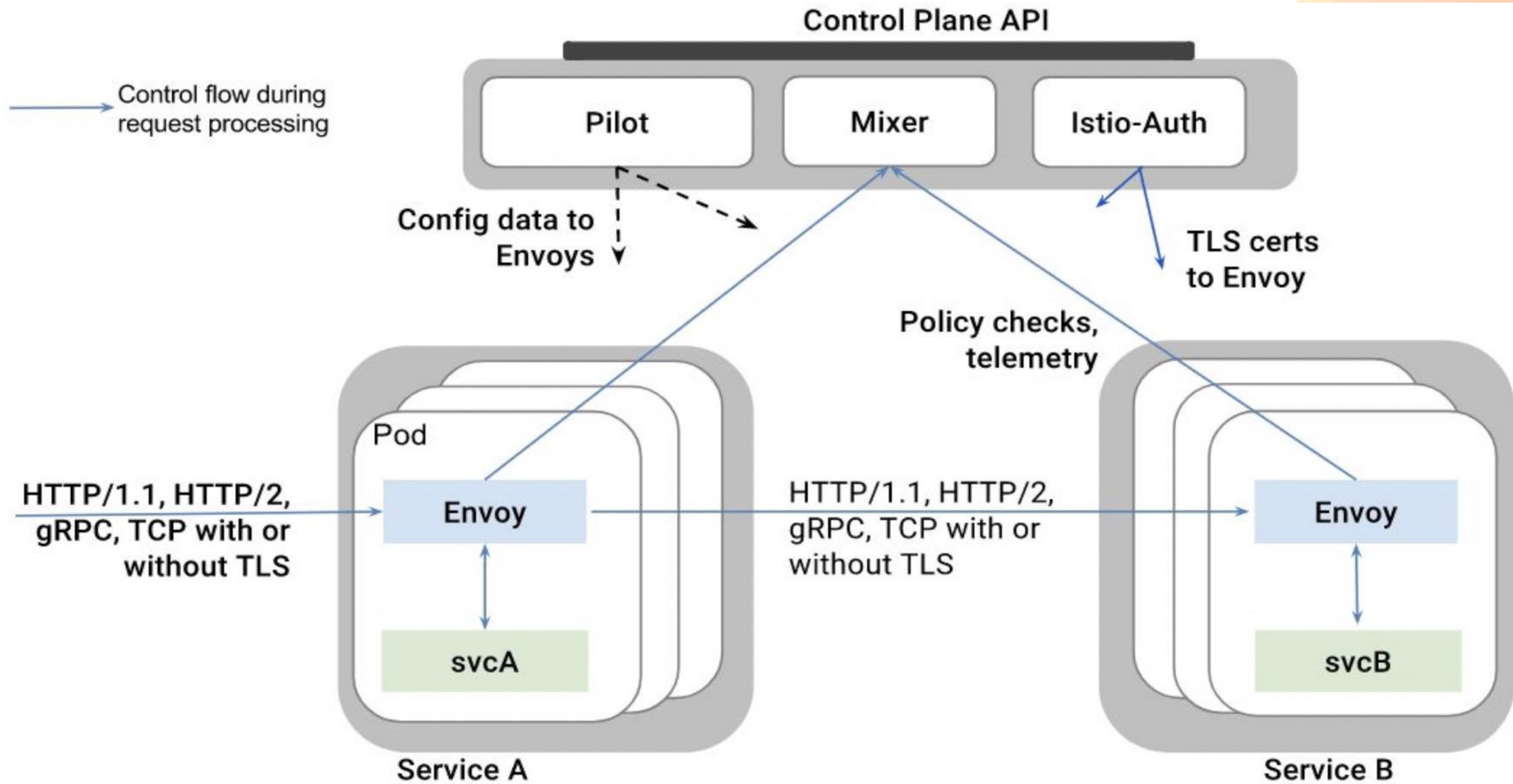
Future



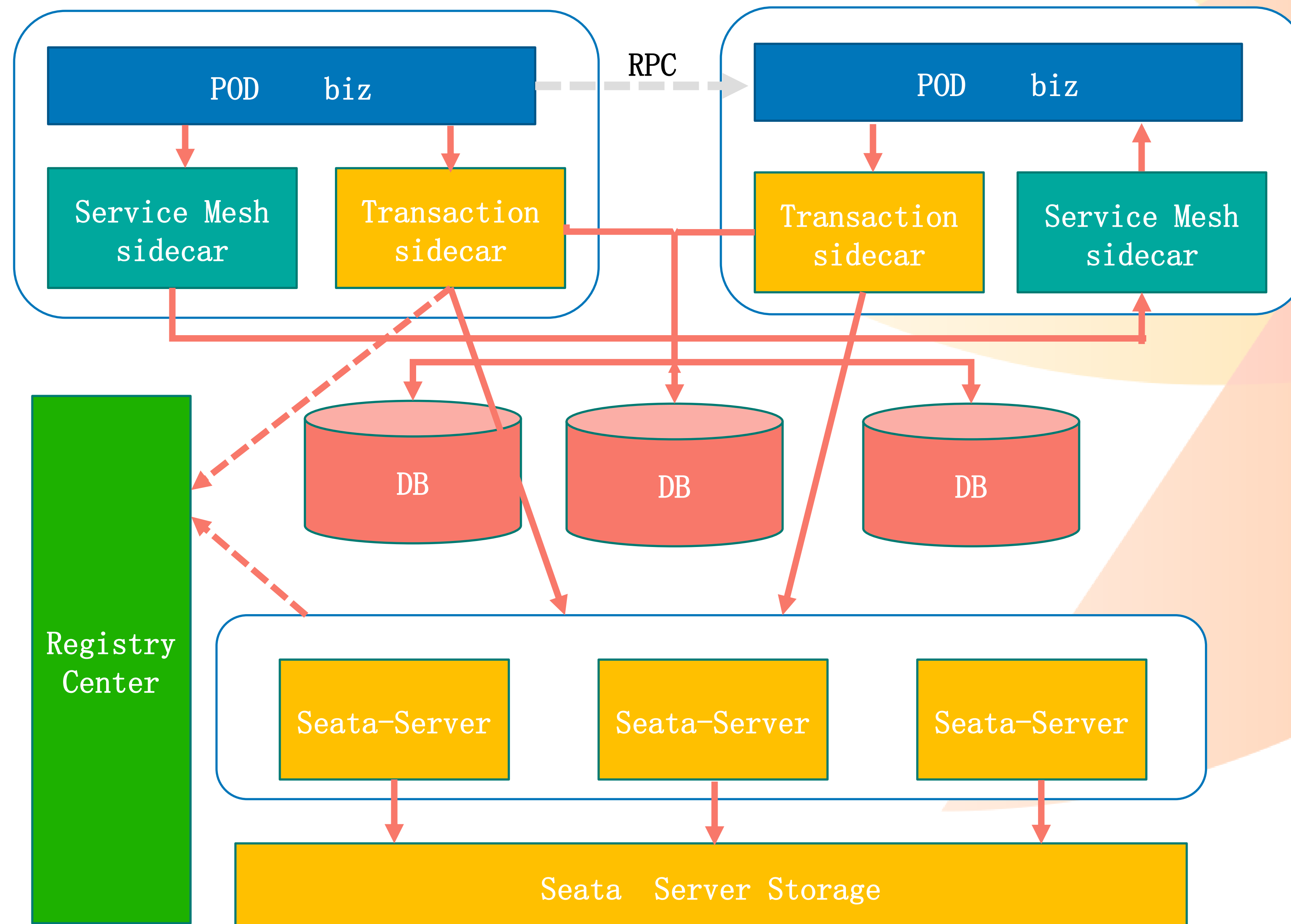
Open Transaction



Cloud Native



Transaction Mesh



Contact

钉钉群



微信群



QQ群



个人微信



Email: dev-seata@googlegroups.com

Website: <http://seata.io/zh-cn/>

Thanks everyone

感谢所有参与
社区贡献的所有Contributor

感谢给予我们
支持的开源兄弟社区

感谢陪伴我们的
天使客户

感谢运营团队
对于社区的支持

感谢 Seata
Committer团队
持续的付出

感谢老板在开源
上的支持

Thank You