

# Distributed Transaction Solution & Standard in Microservices

Seata

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# Agenda

01

***What's  
Distributed  
Transaction  
in  
Microservices?***

02

*Where does  
Seata Solution  
Come?*

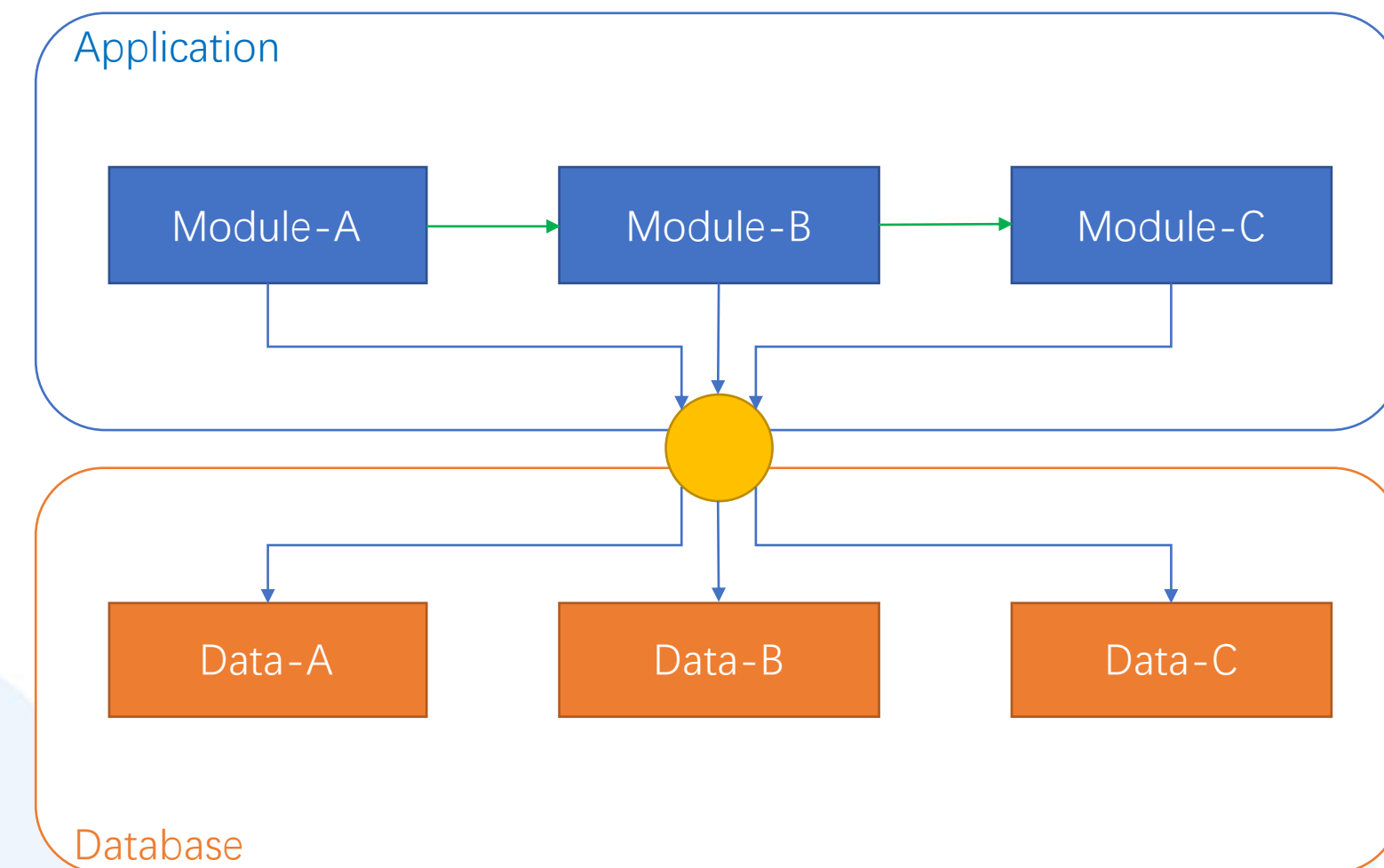
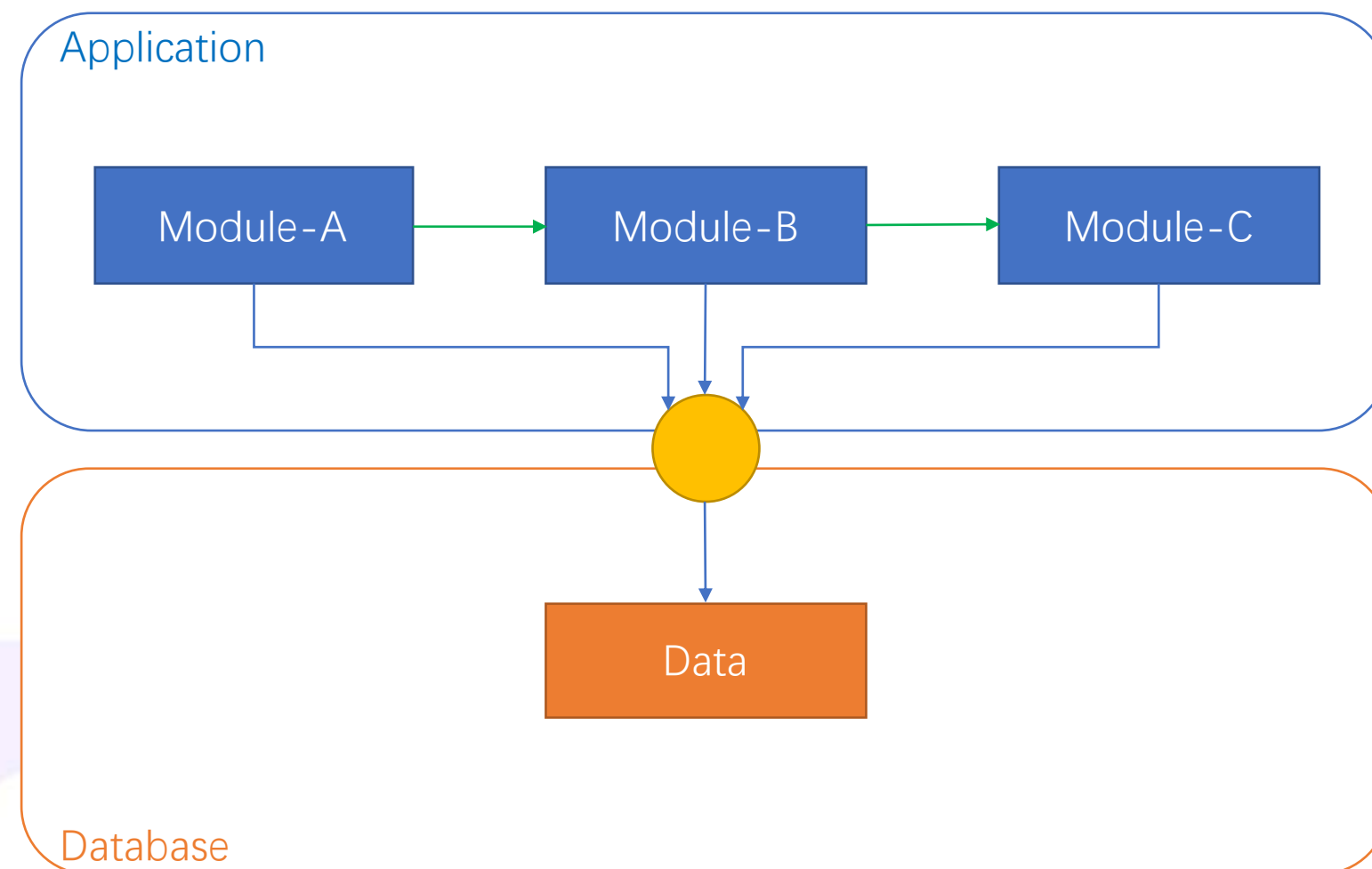
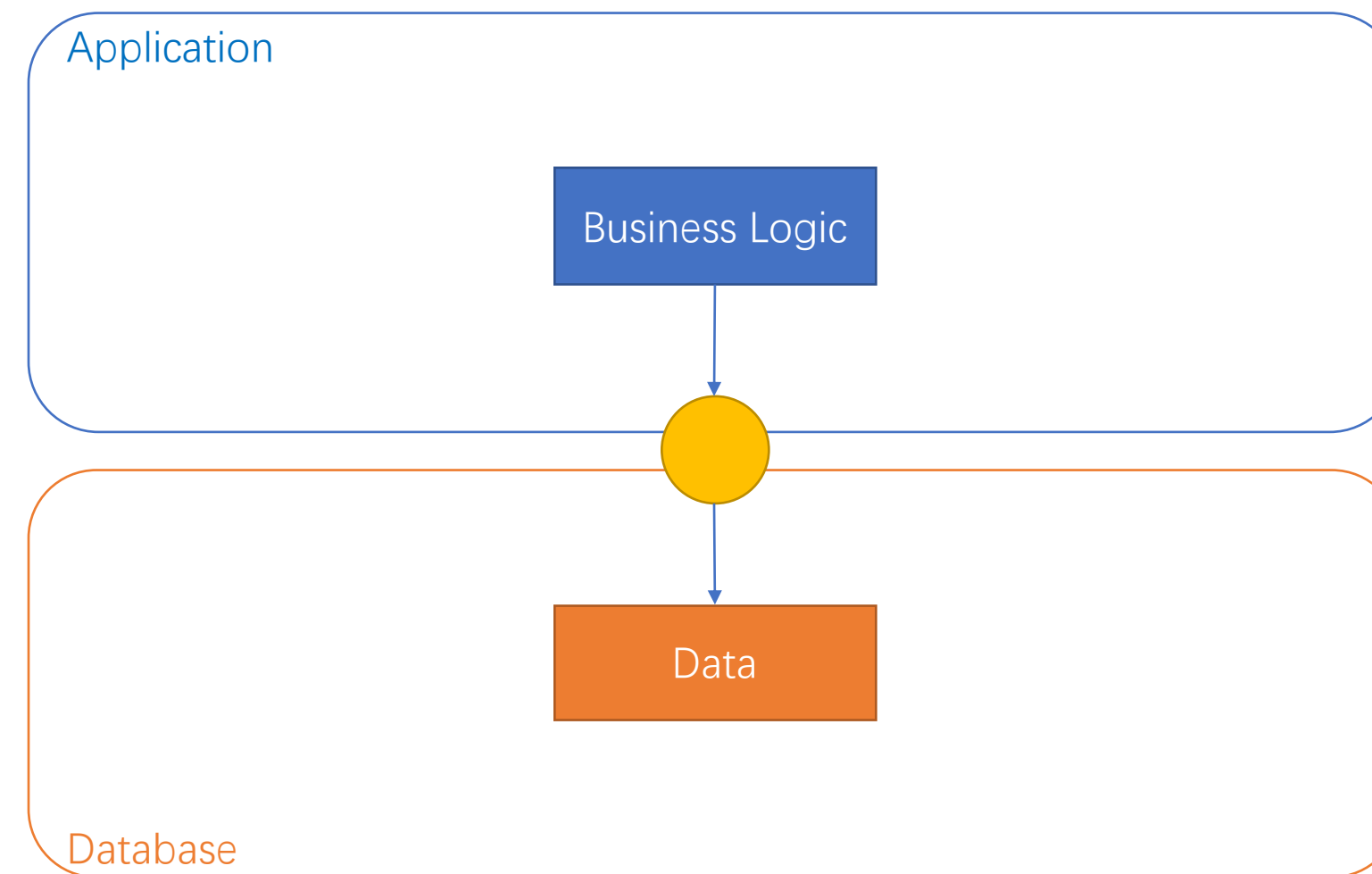
03

*How does  
Seata work?*

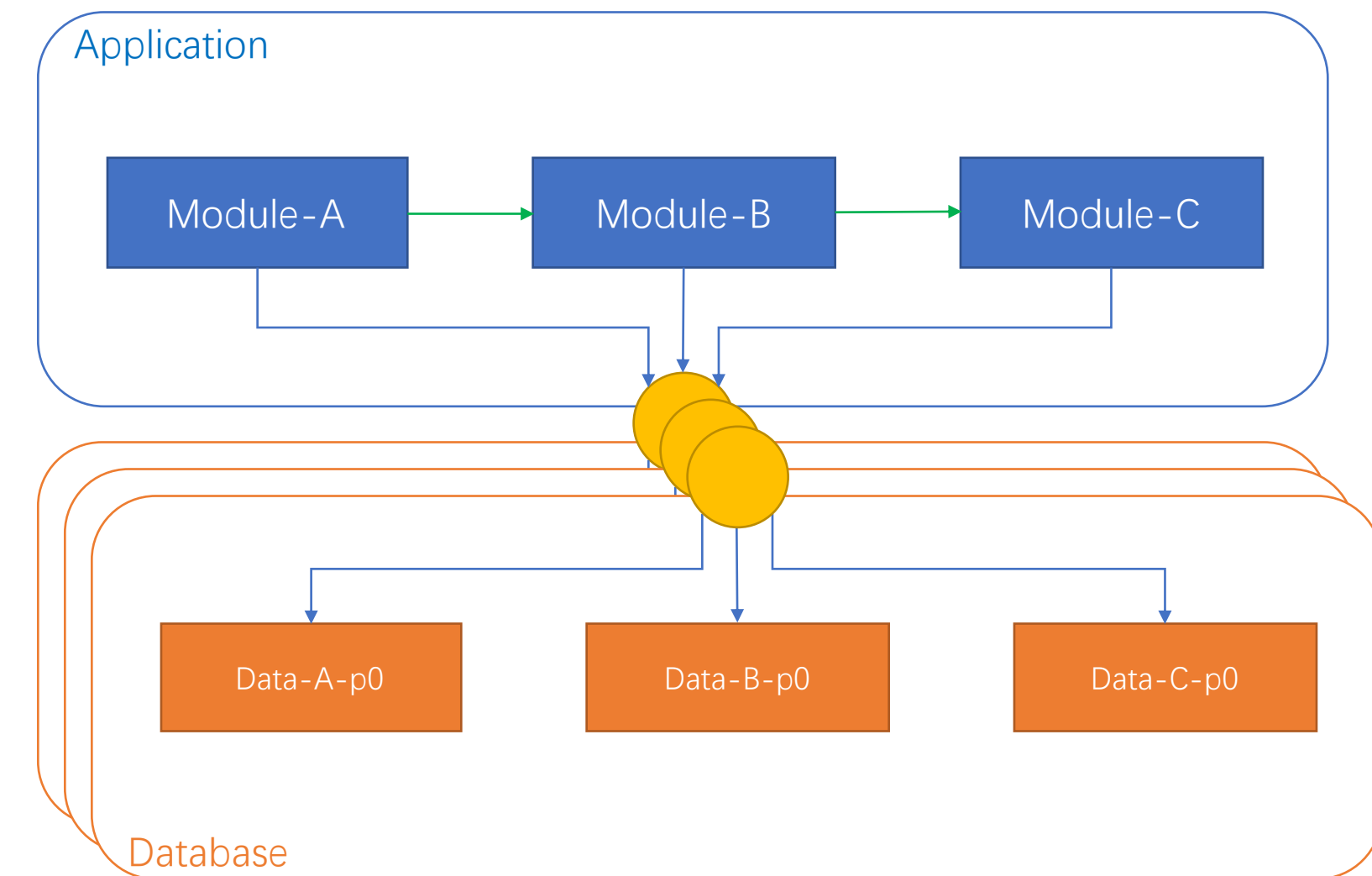
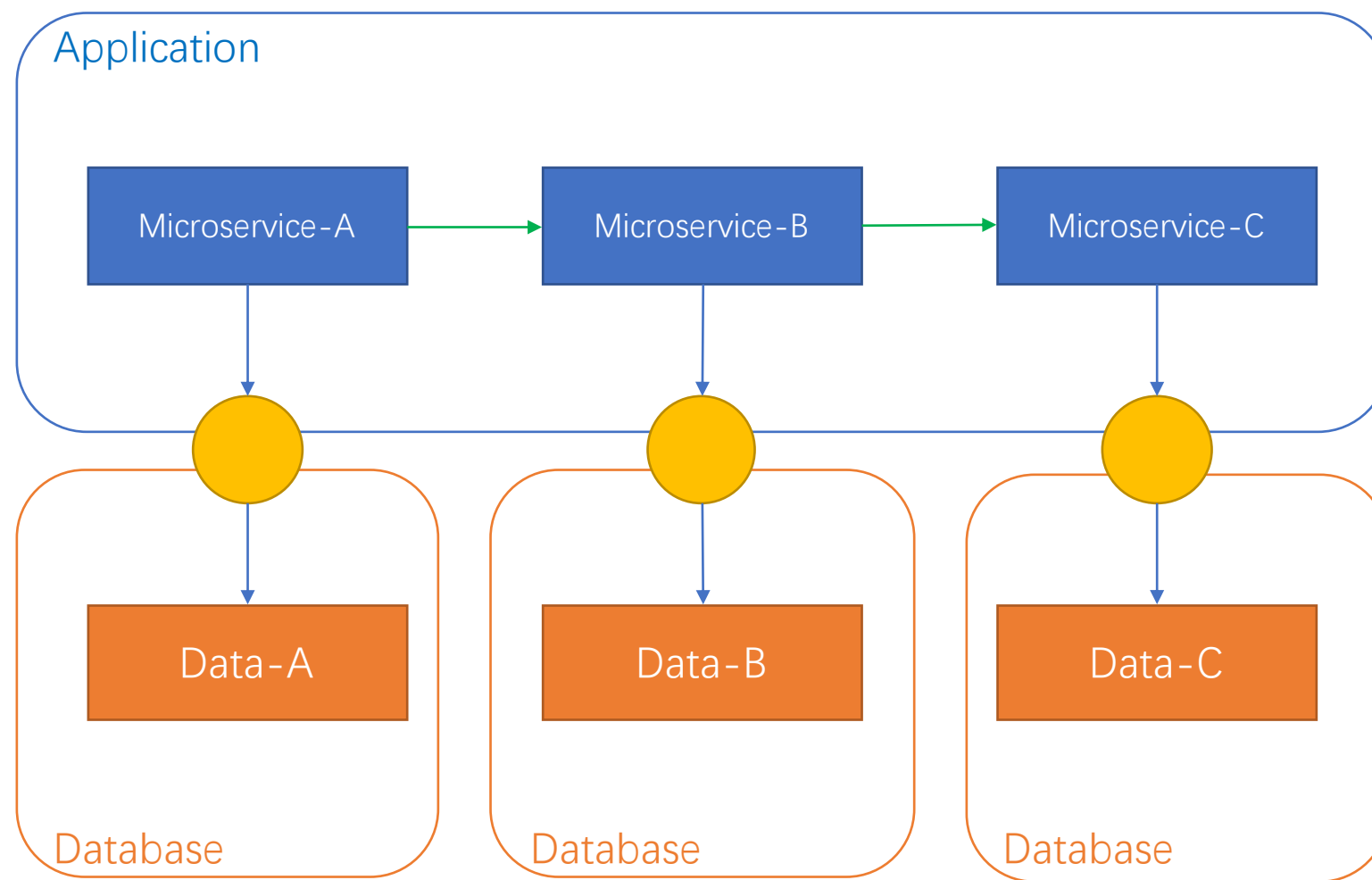
04

*Think about  
Standard of  
Distributed  
Transaction*

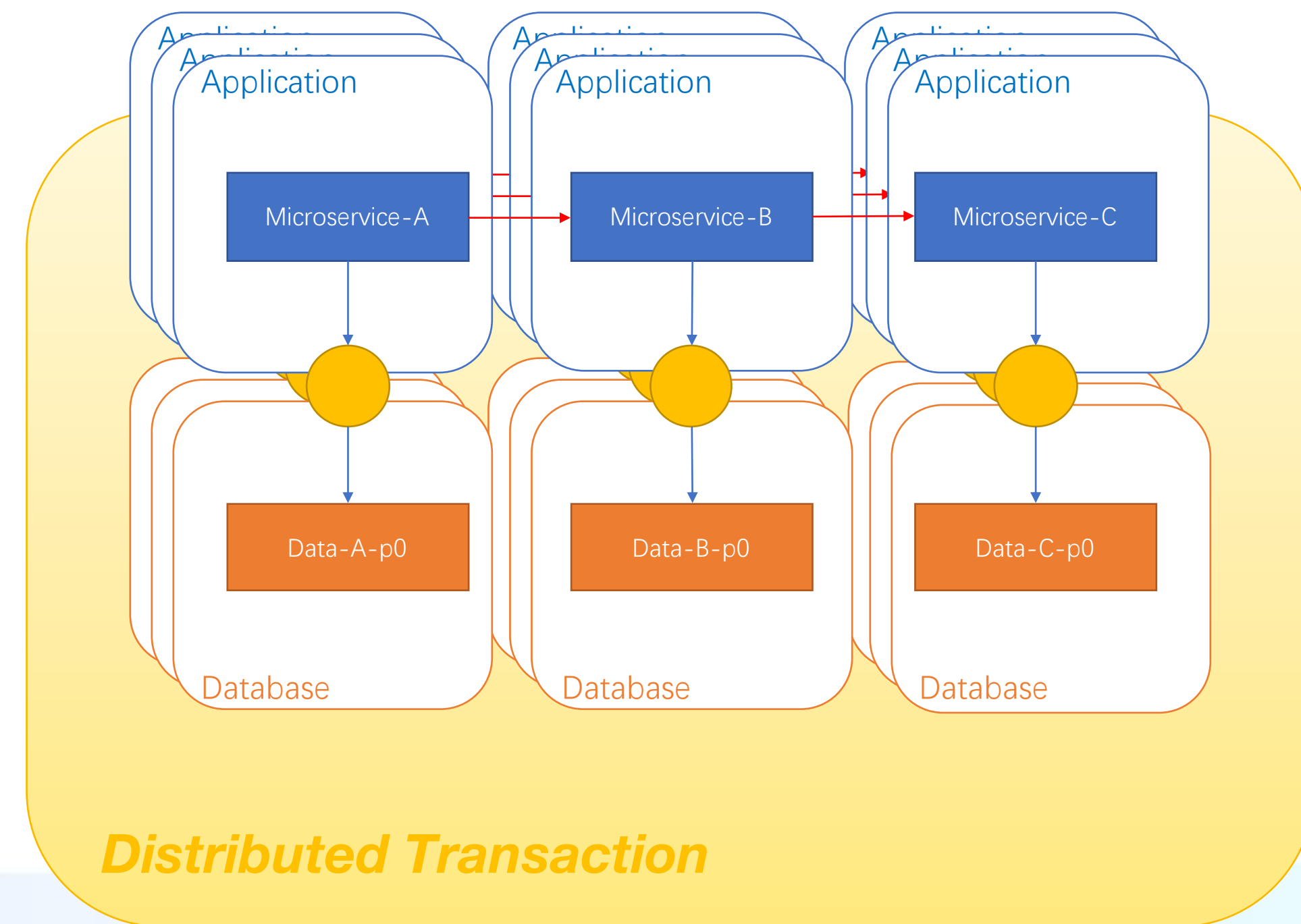
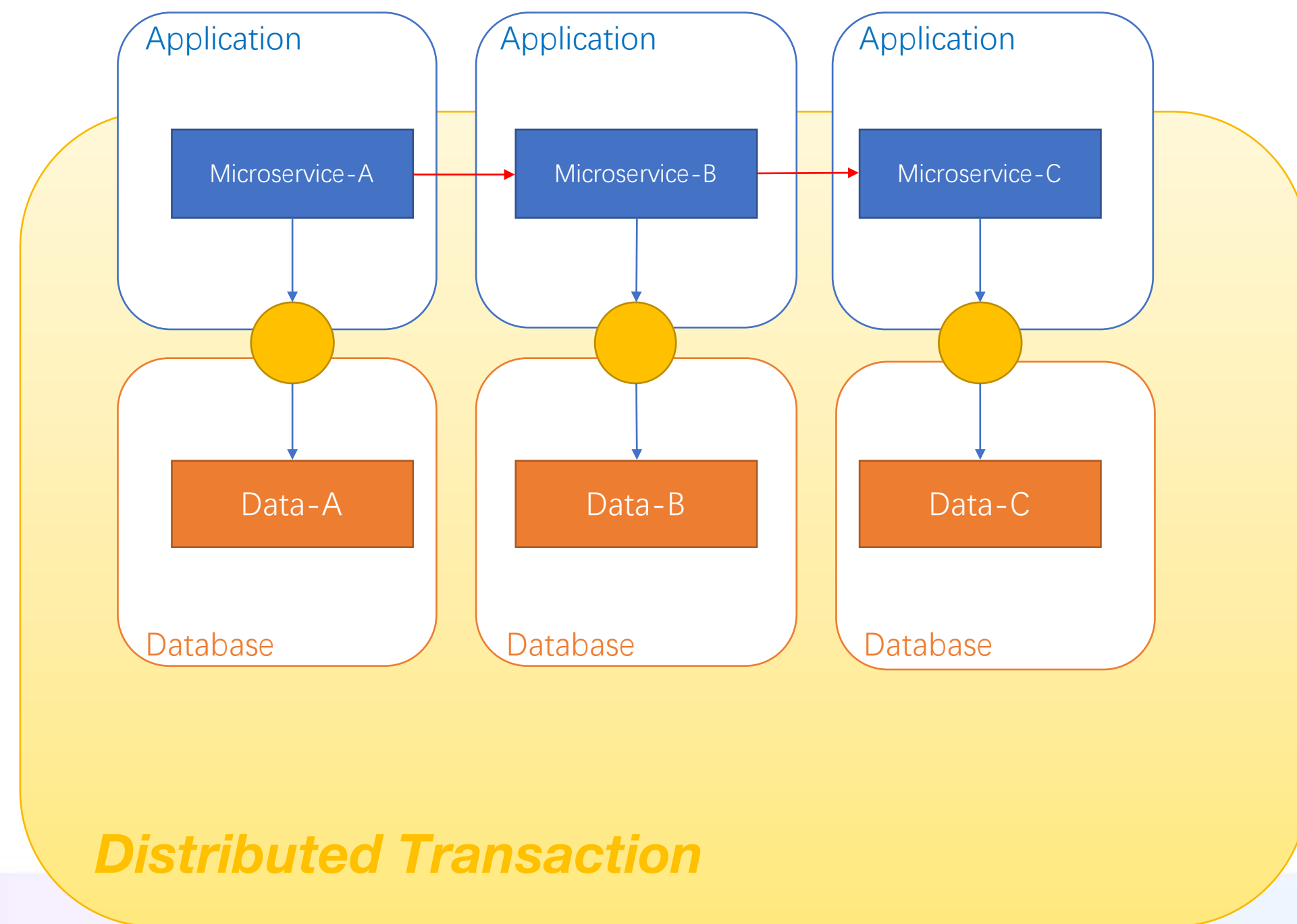
# Business Logic & Data



# Data Slice



# Microservices



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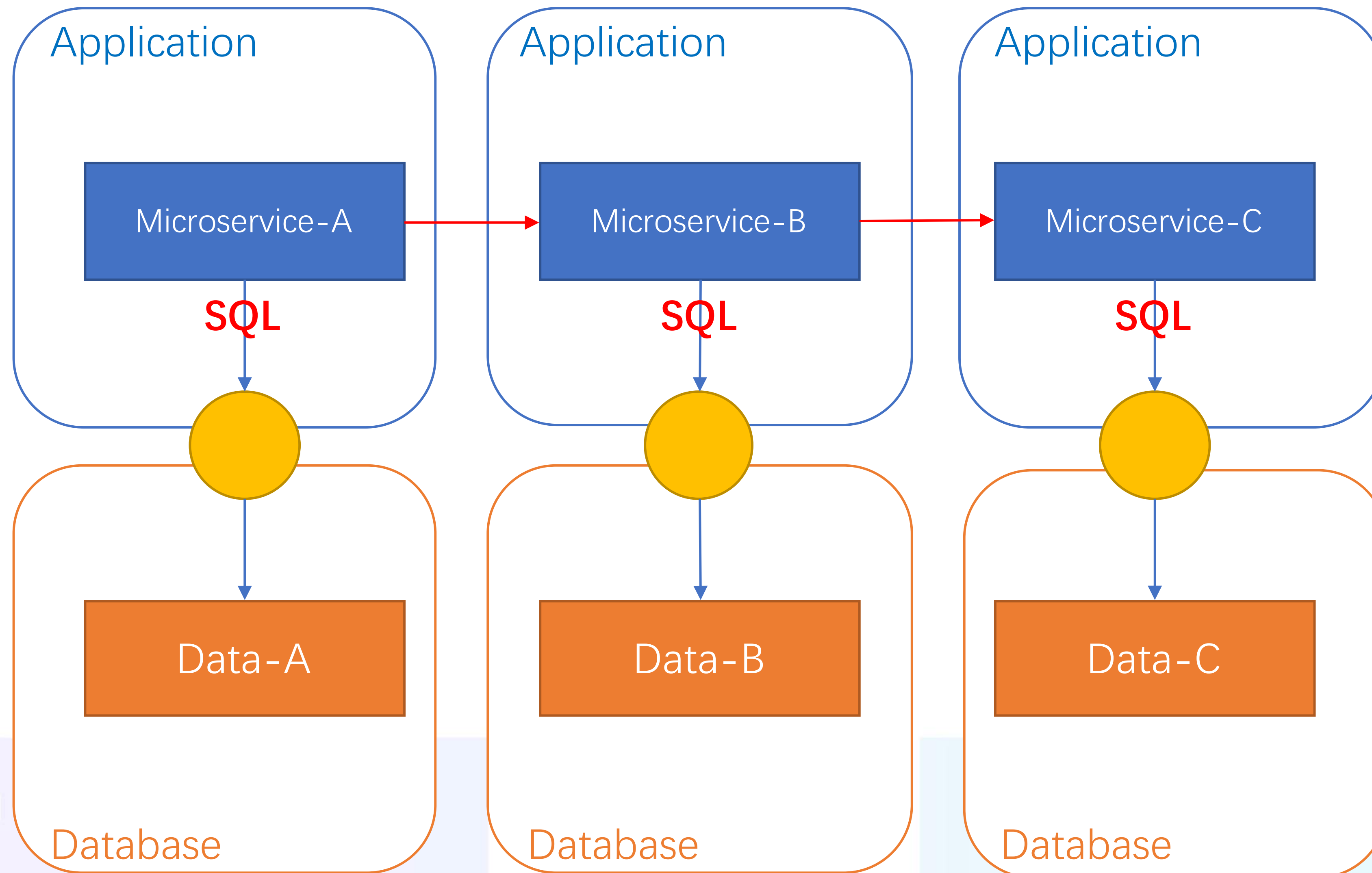


# Requirements

- *Hight Performance*
- *Strong Consistency*
- *Easy & No intrusion*
- **A***CID: Who is the most important?*

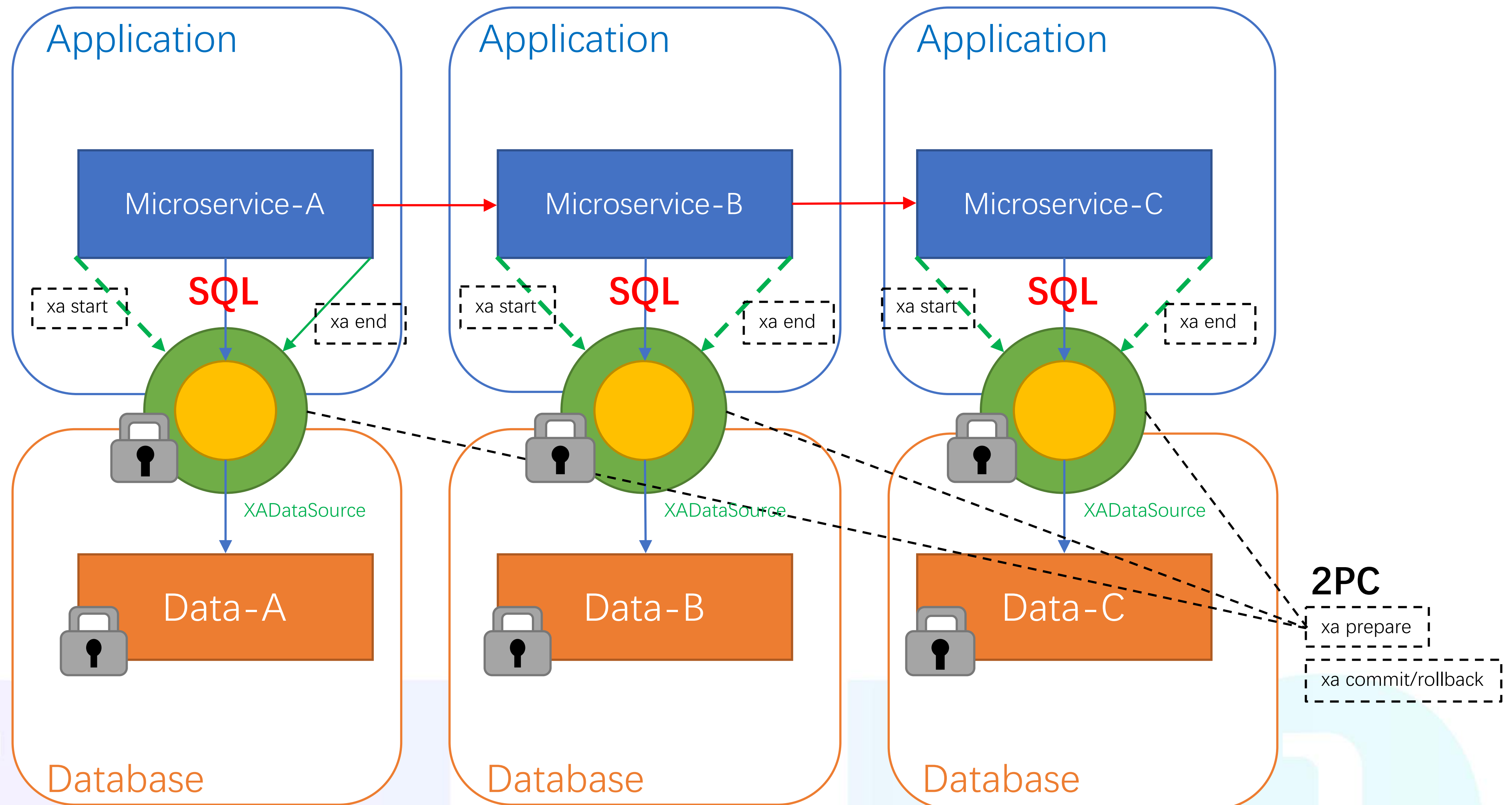


# Why NOT XA?

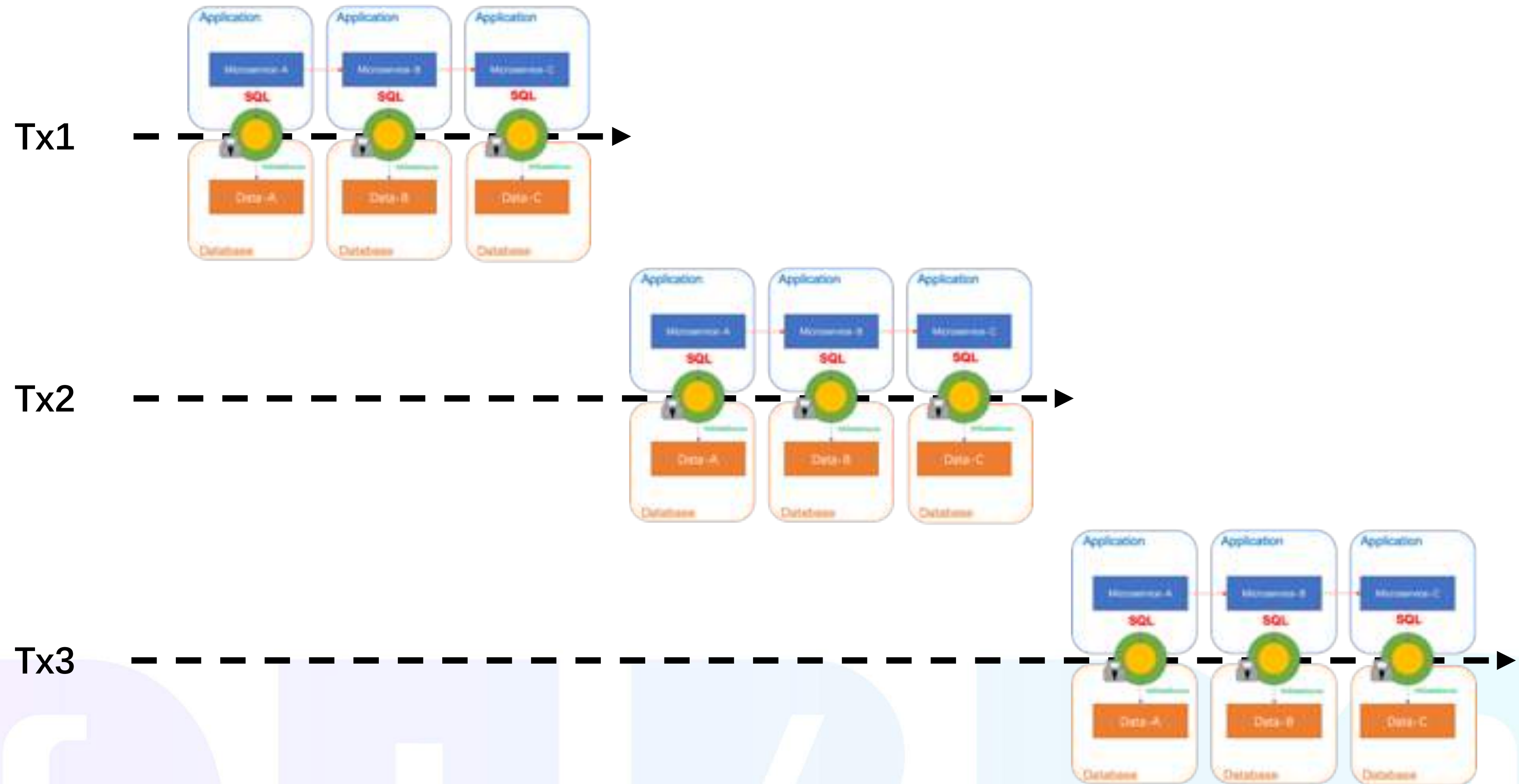




# Why NOT XA?



# Connection Limit



# Can we? ...

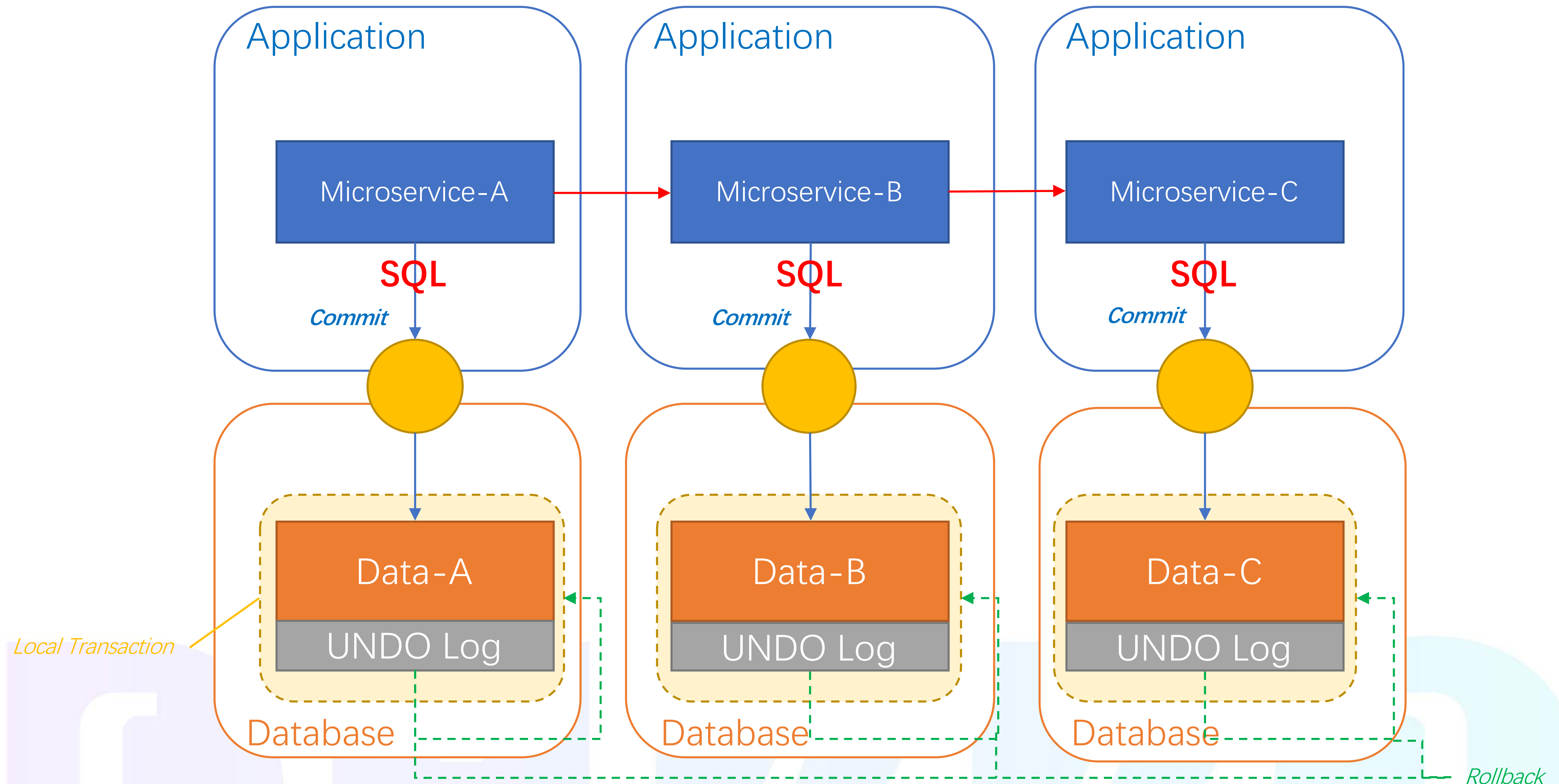




# Throughput



# Compensate on UNDO Log



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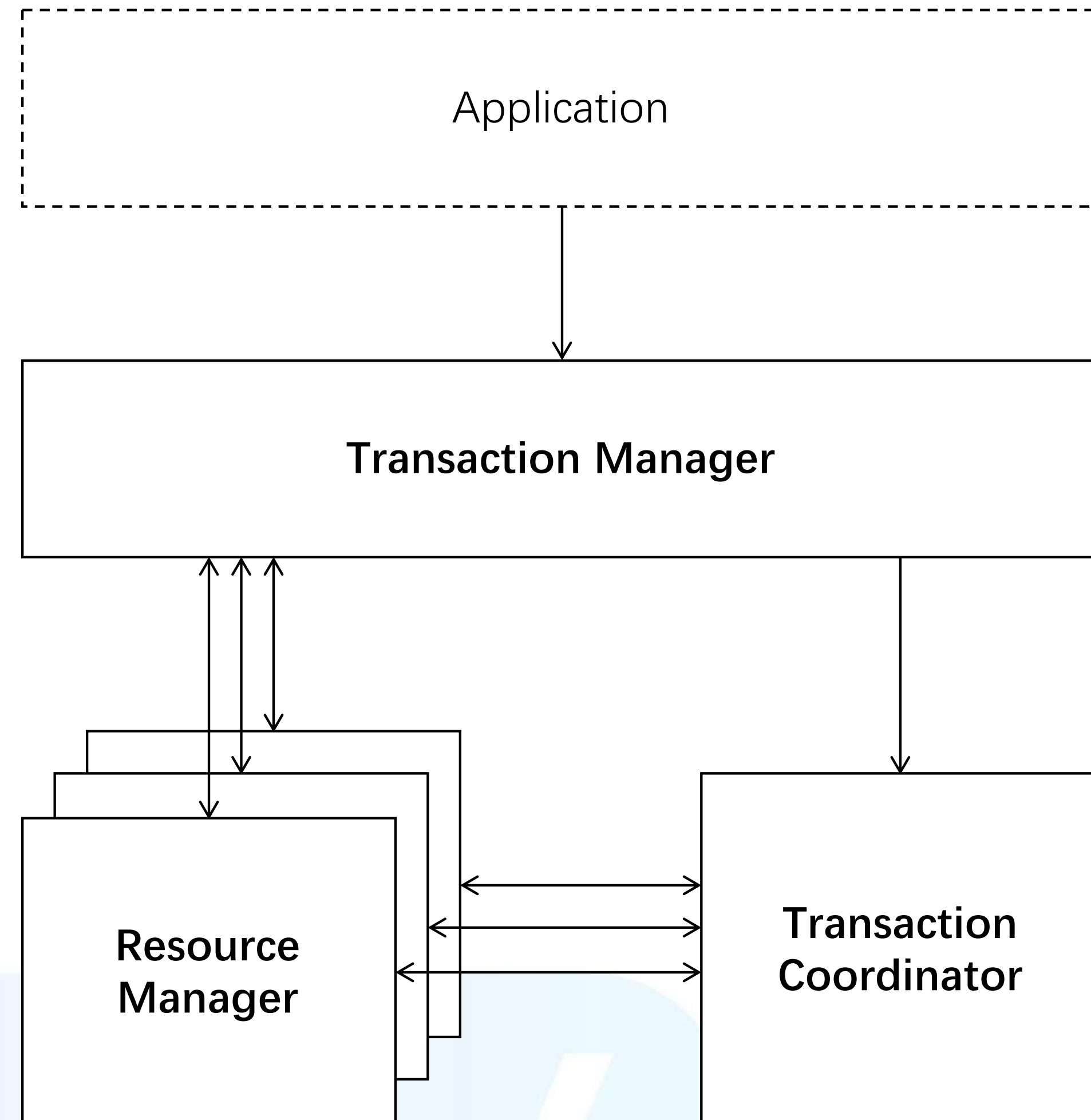


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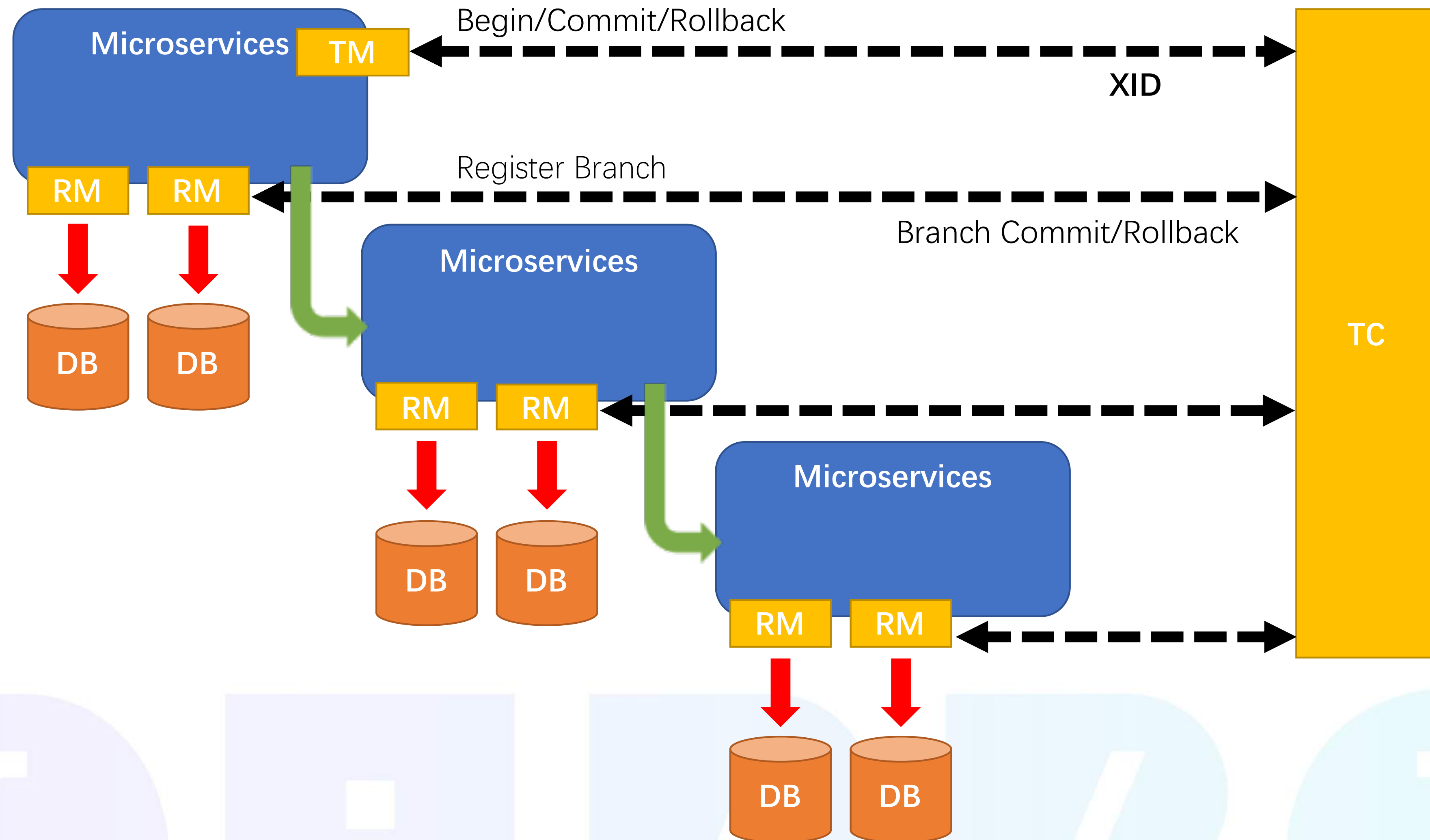


# Model

- ◆ Transaction Coordinator (TC)
- ◆ Transaction Manager (TM)
- ◆ Resource Manager (RM)

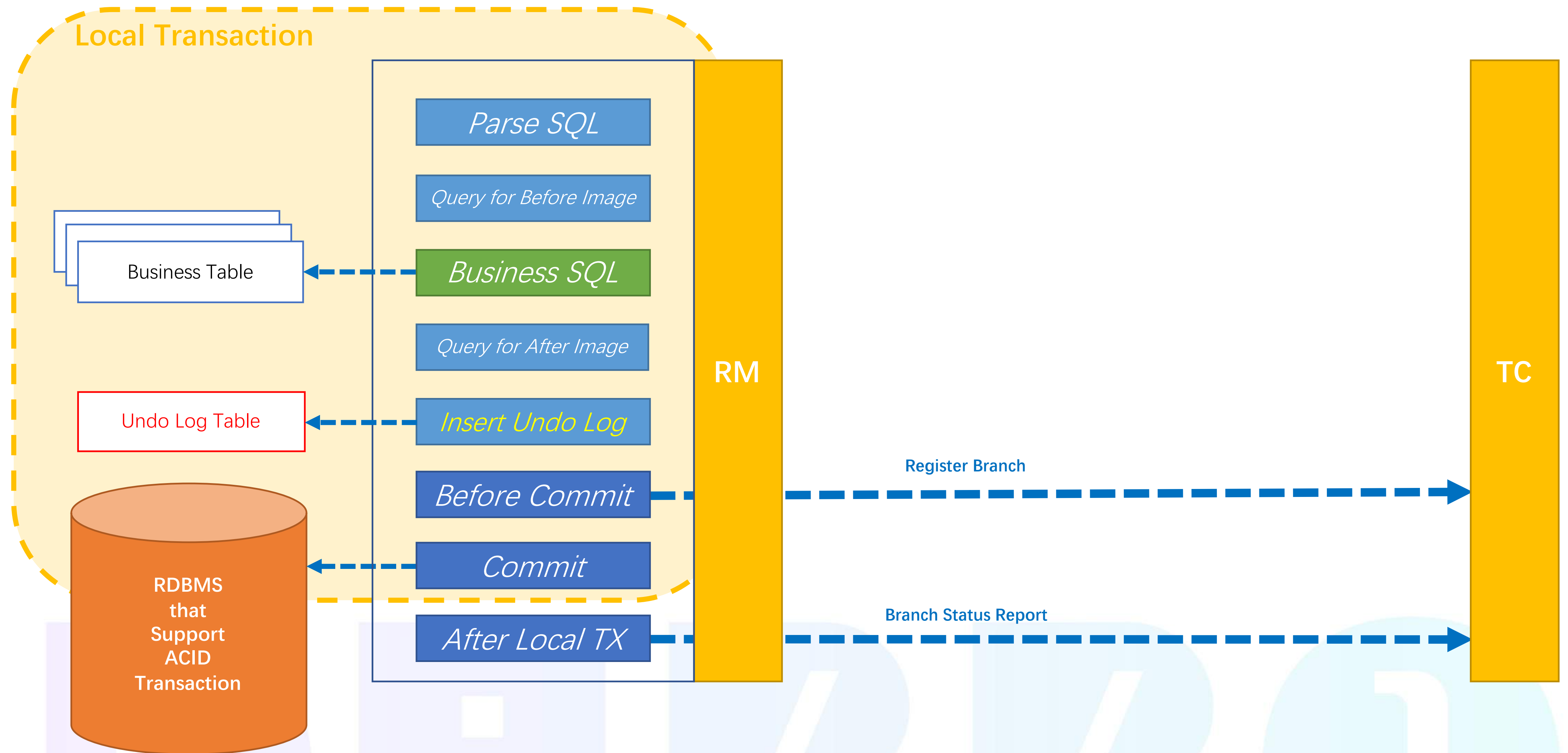


# Architecture

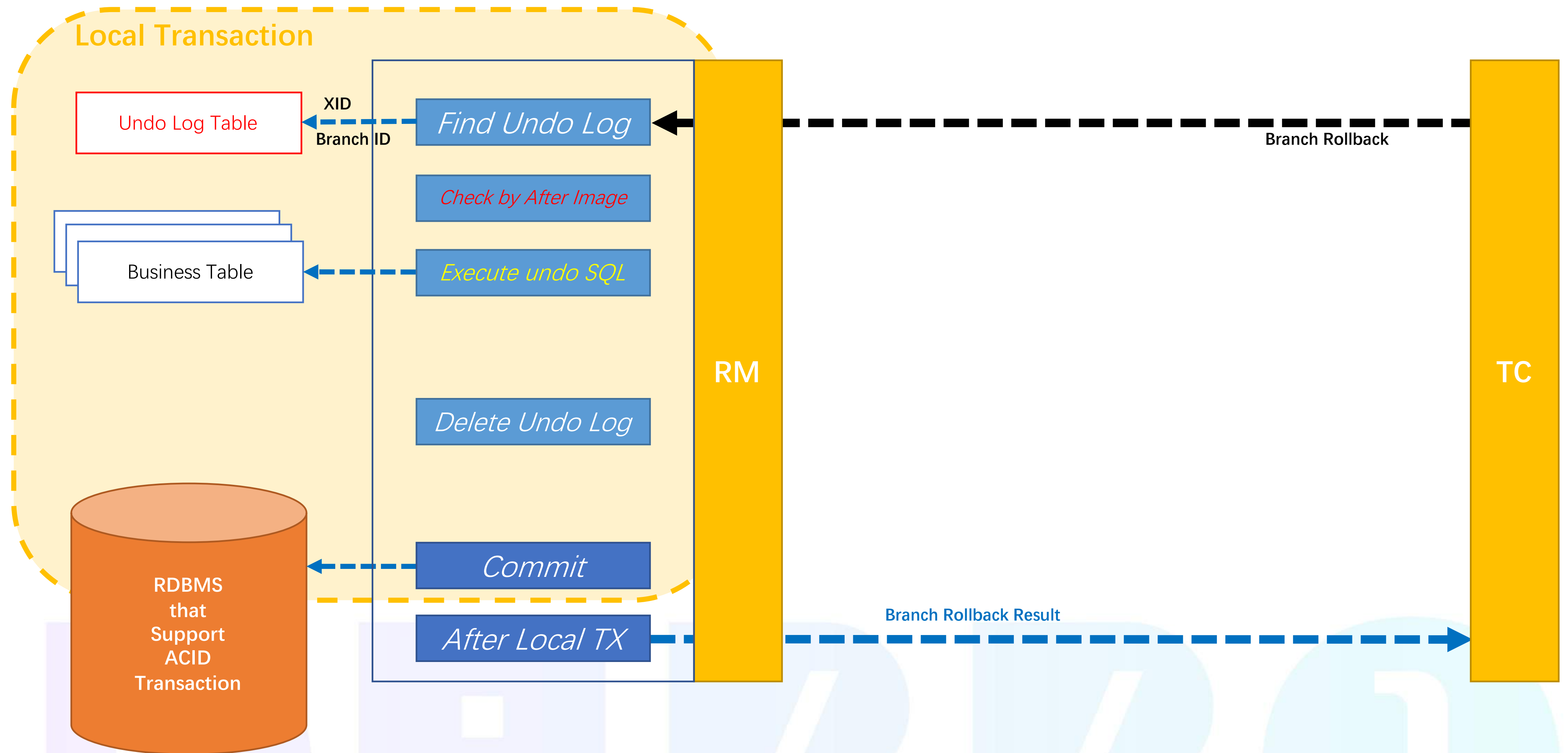




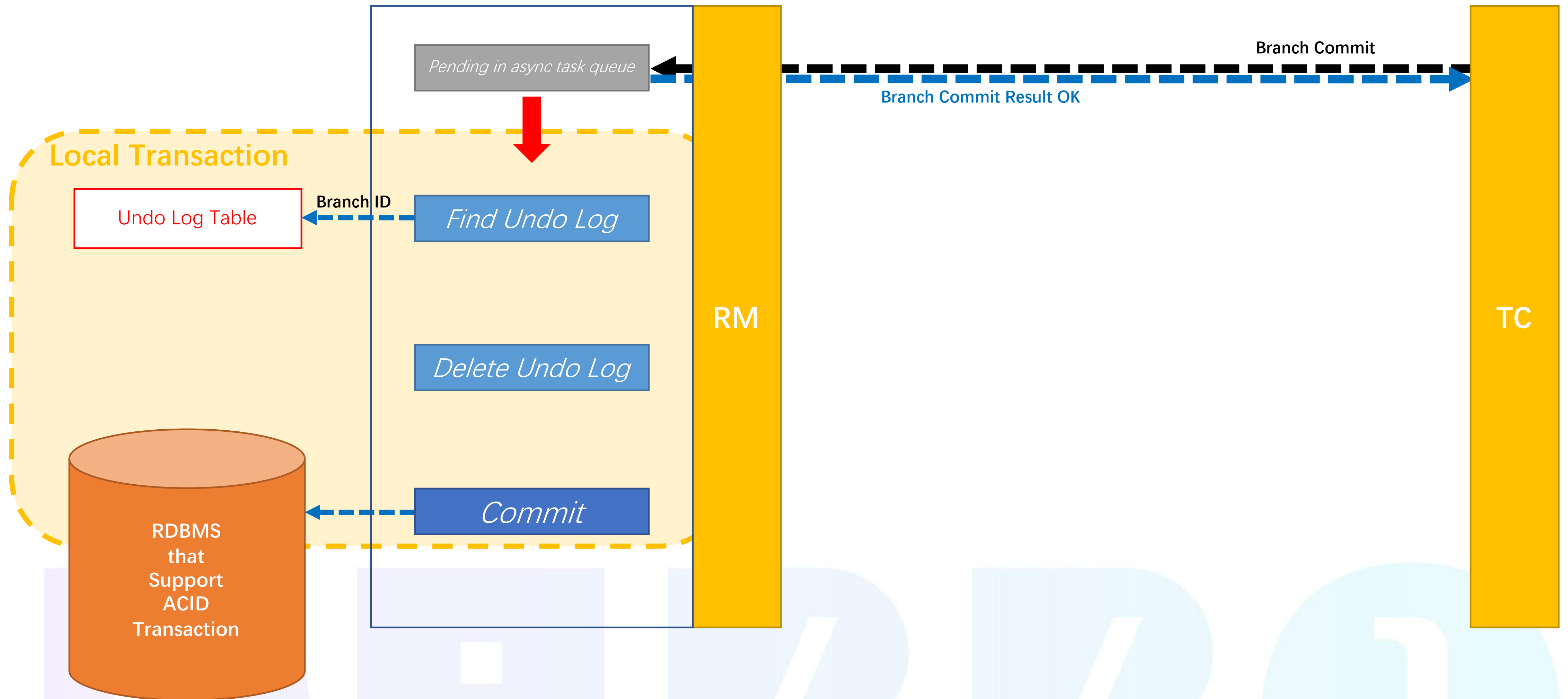
# Seata-AT: Phase 1



# Seata-AT: Phase 2 Rollback



# Seata-AT: Phase 2 Commit



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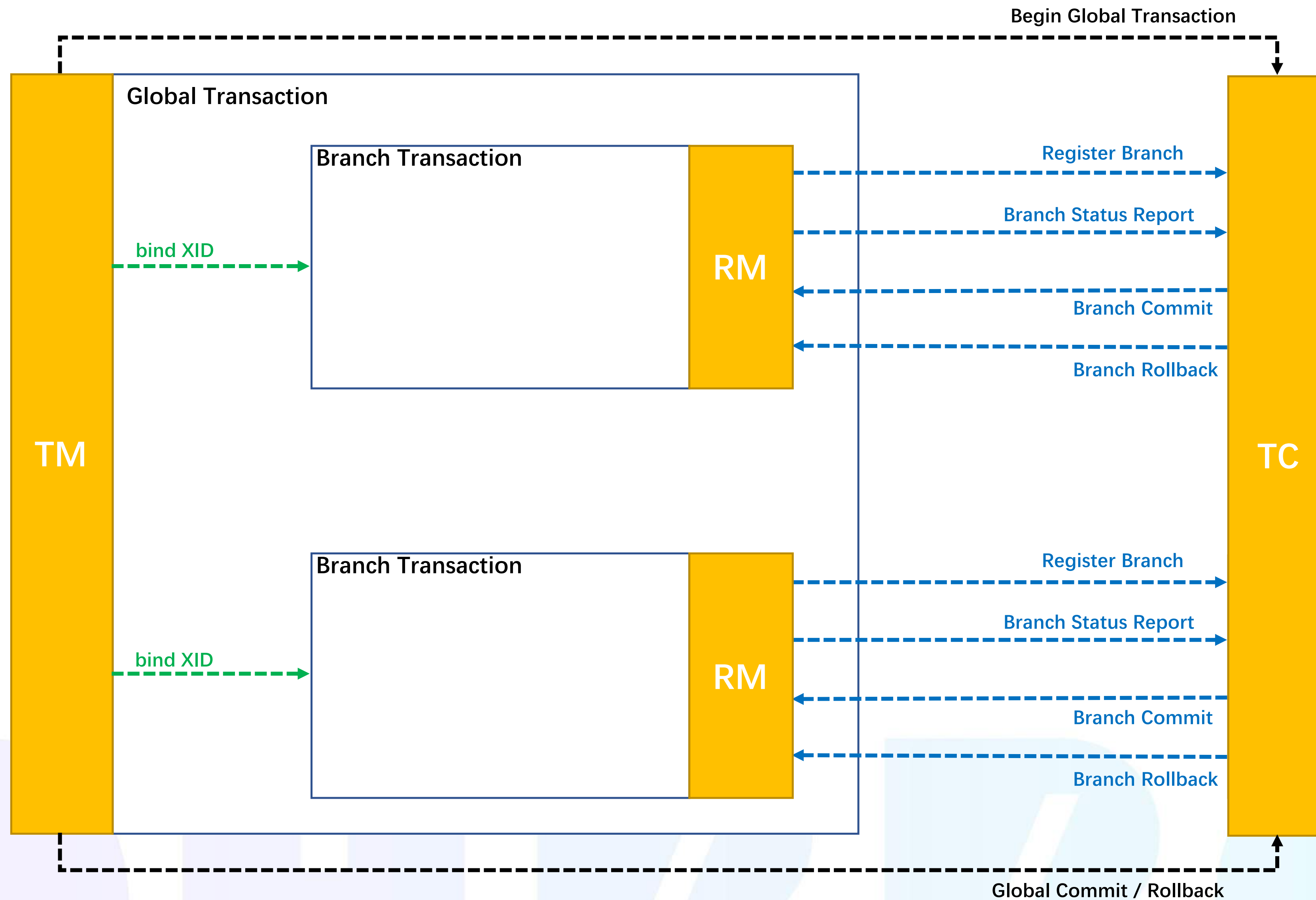
04



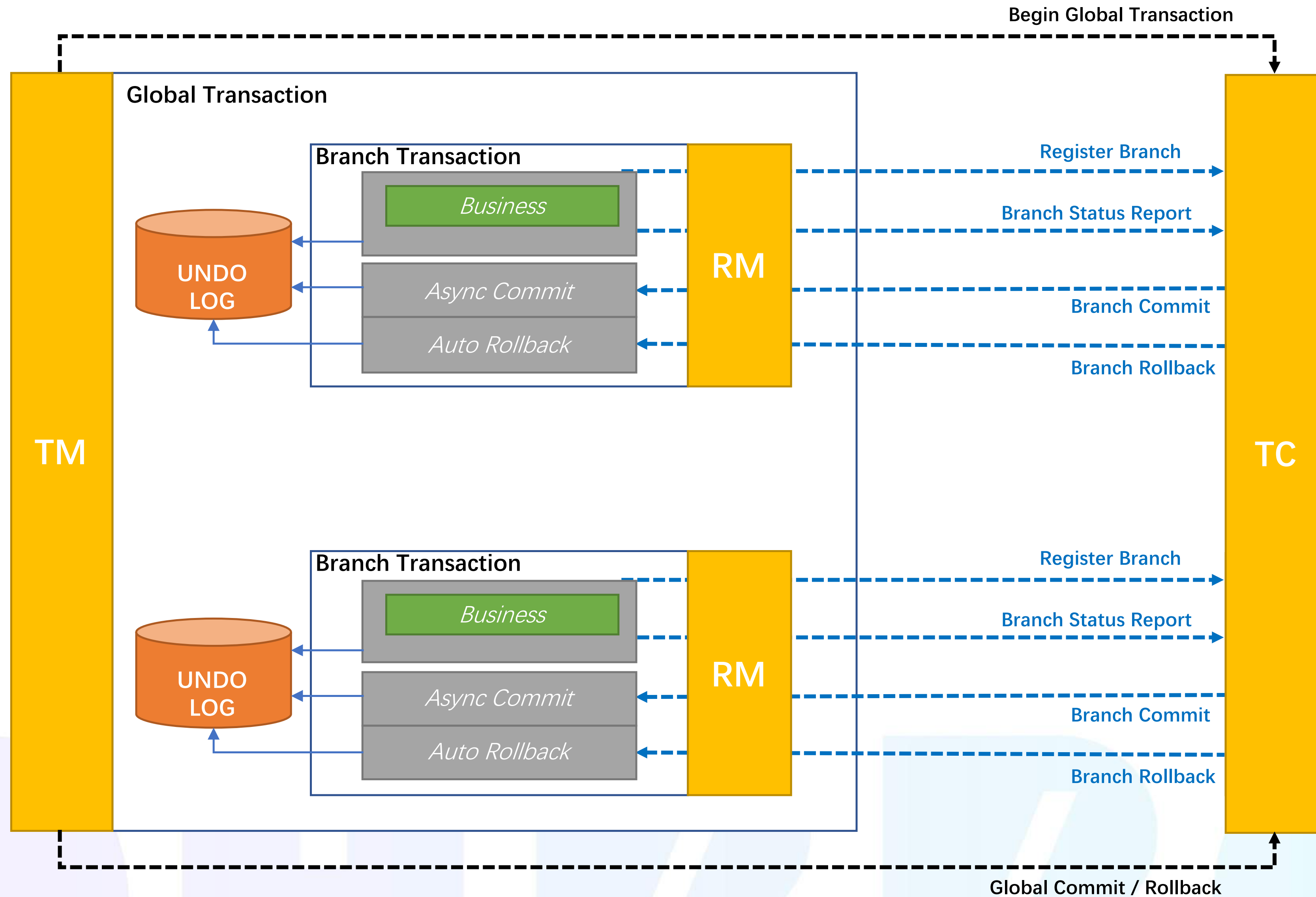
***Think about  
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Distributed  
Transaction***



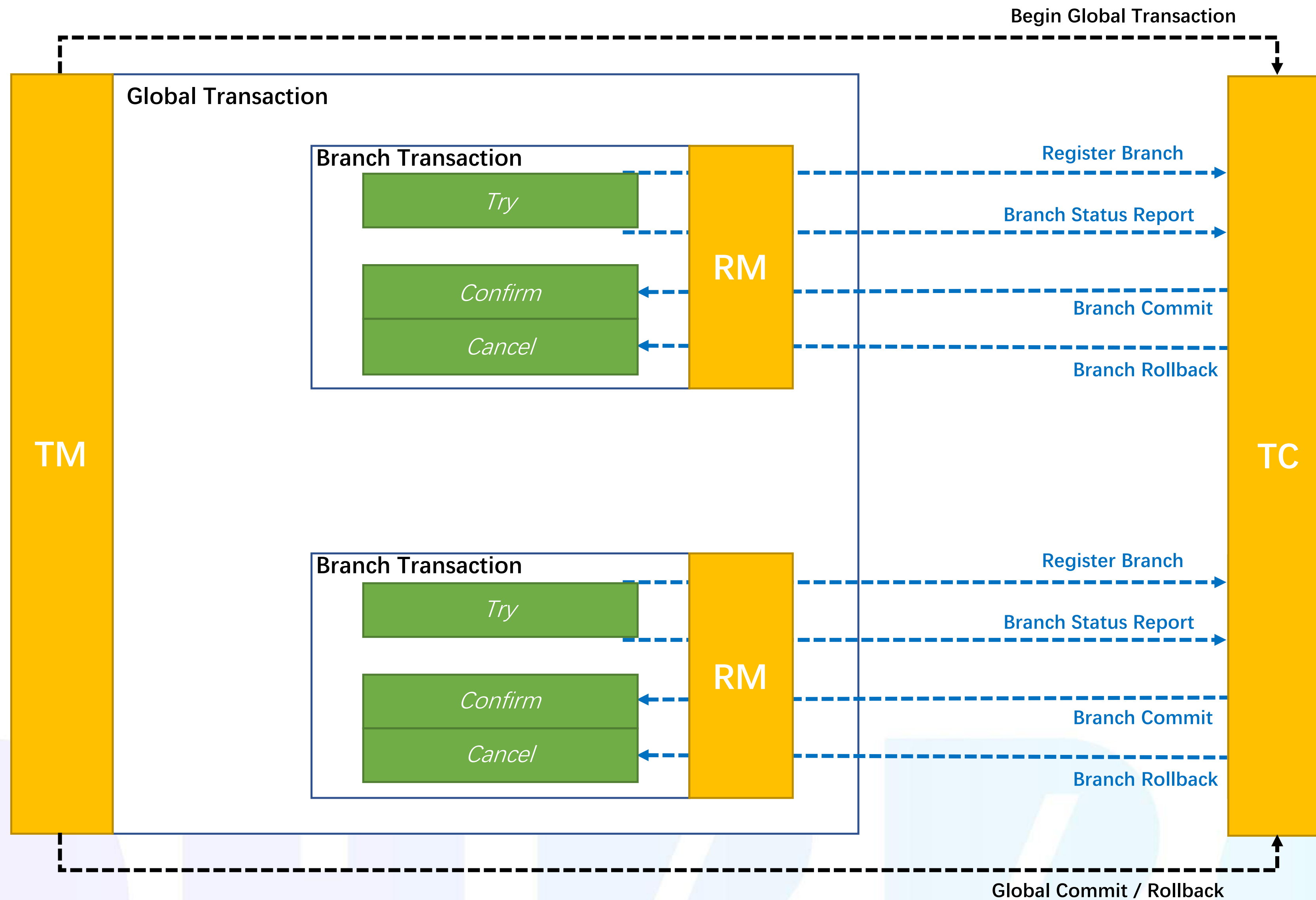
# Distributed Transaction



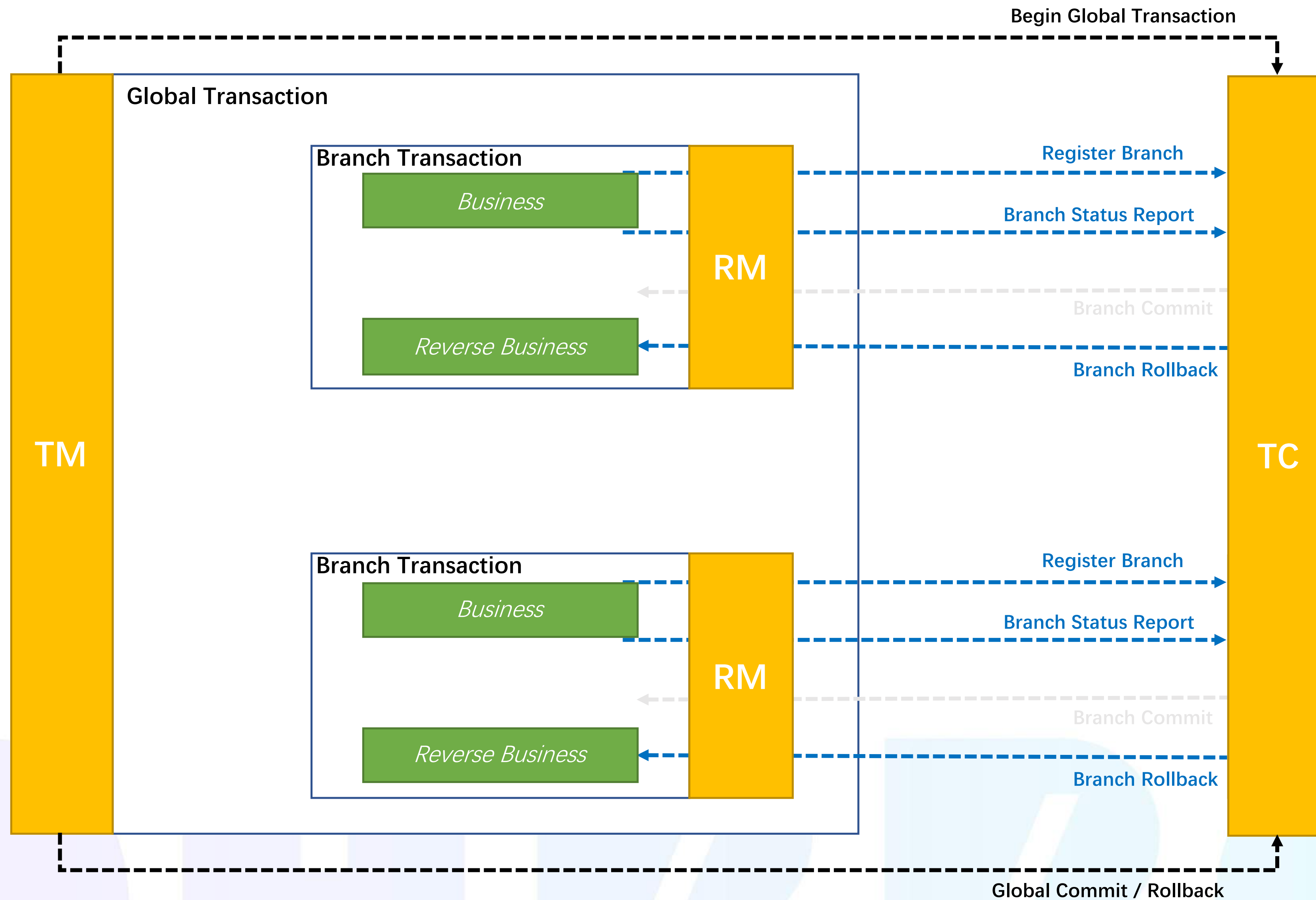
# AT Mode



# TCC Mode

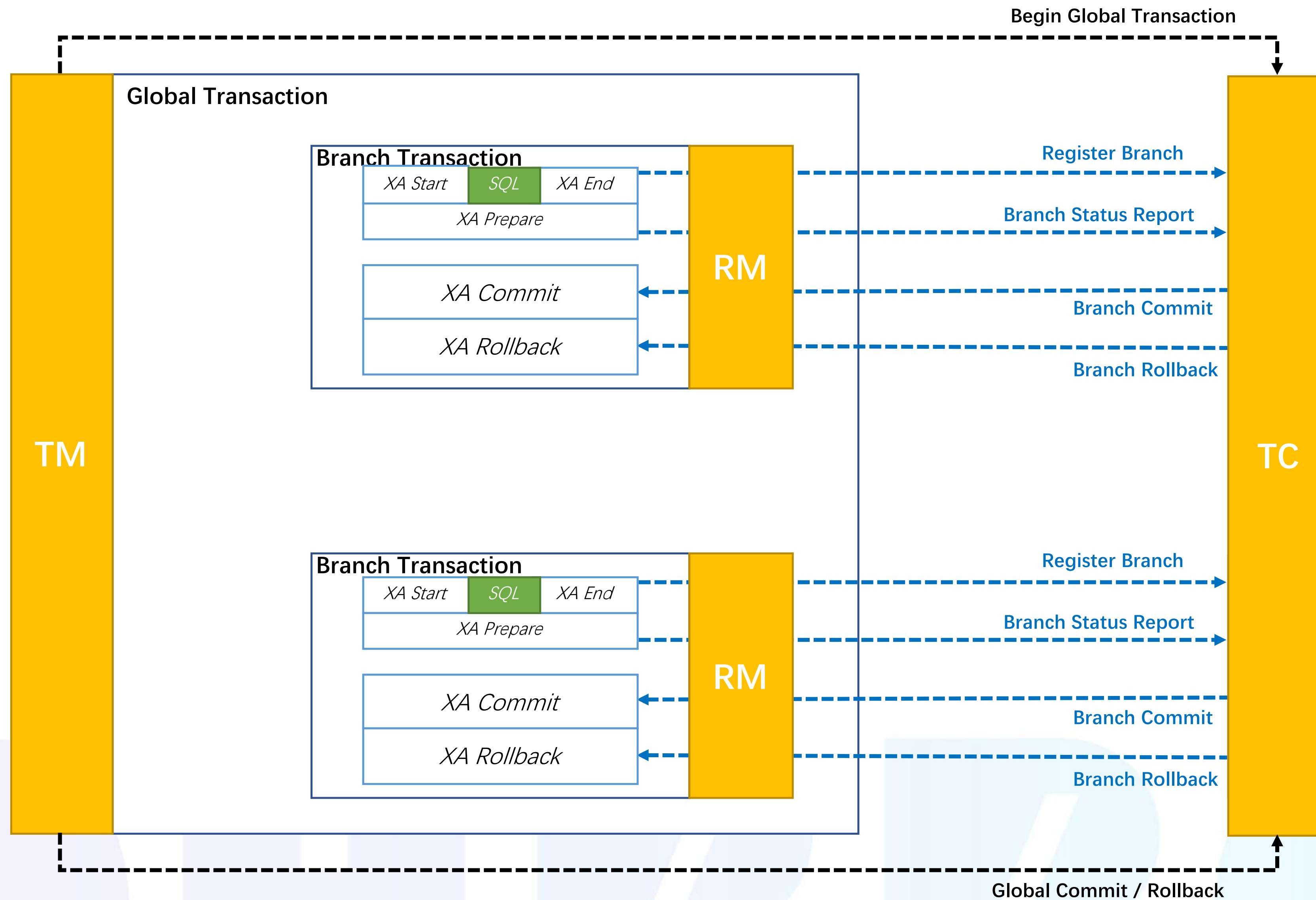


# Saga Mode

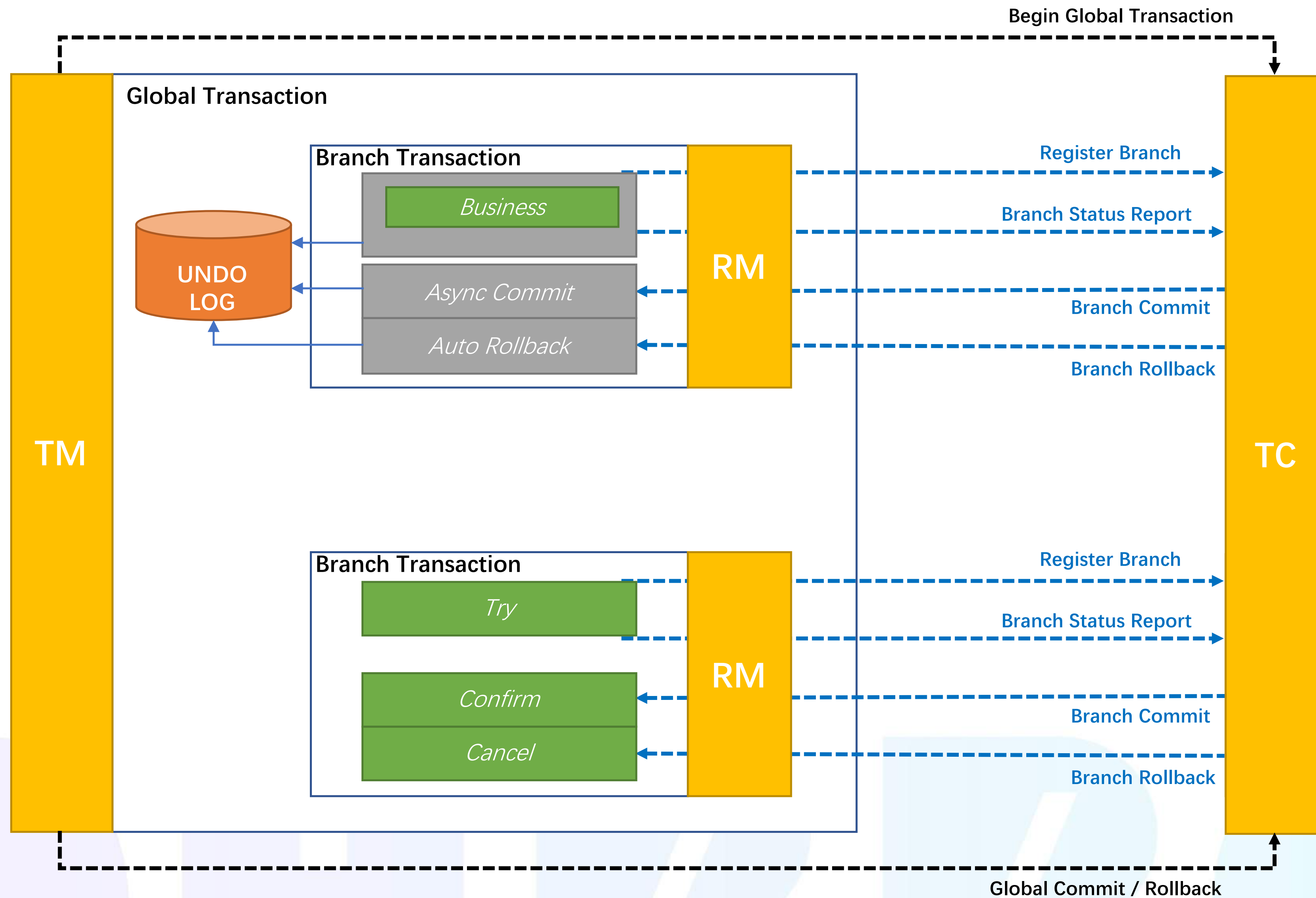




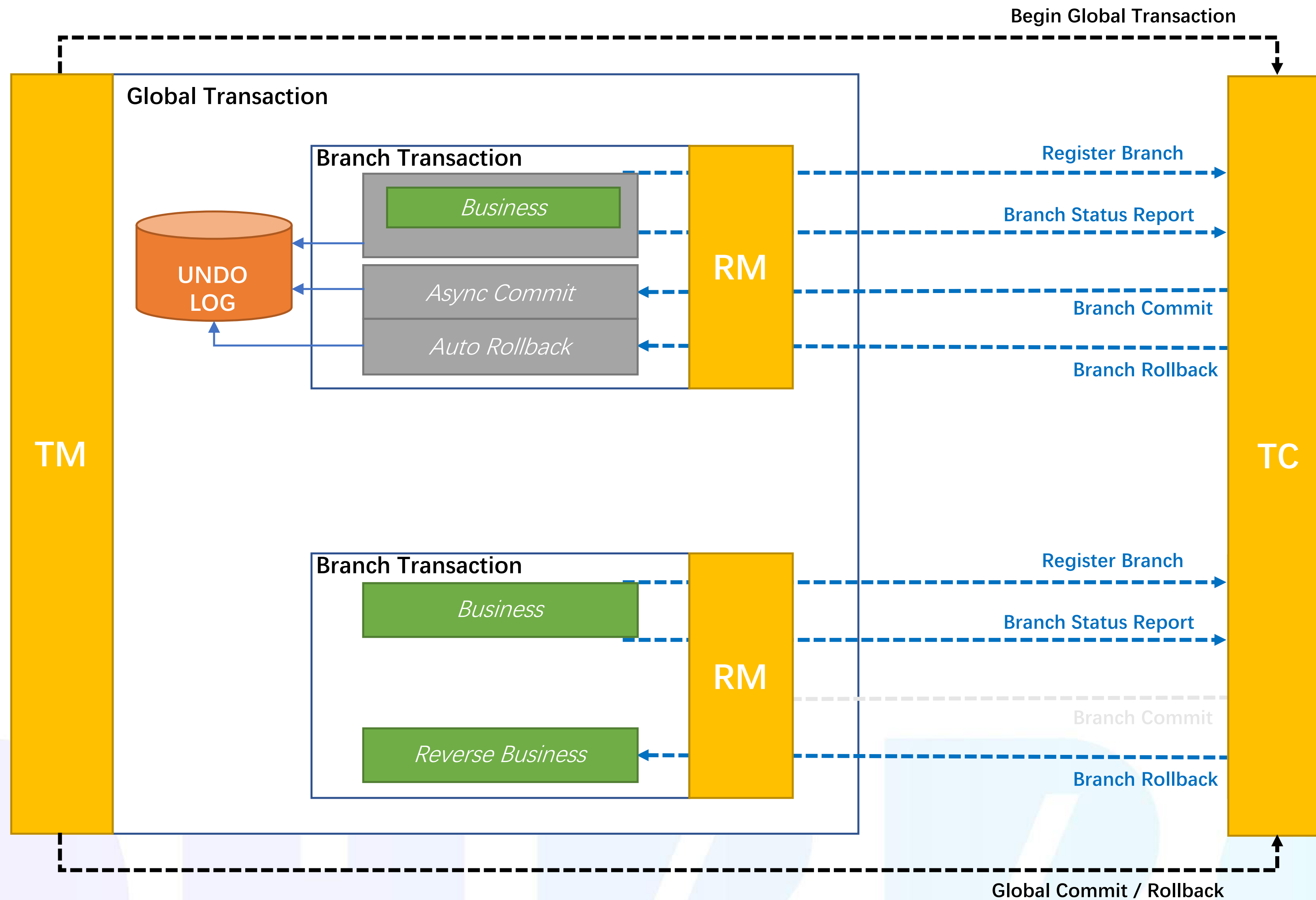
# Even XA



# Hybrid AT & TCC



# Hybrid AT & Saga





# Thank you !

01010101



# 第五届 中间件性能挑战赛

挑战双11零点流量洪峰

阿里云



扫描二维码立即参赛  
邀请新人参赛还有惊喜奖品