SEATA

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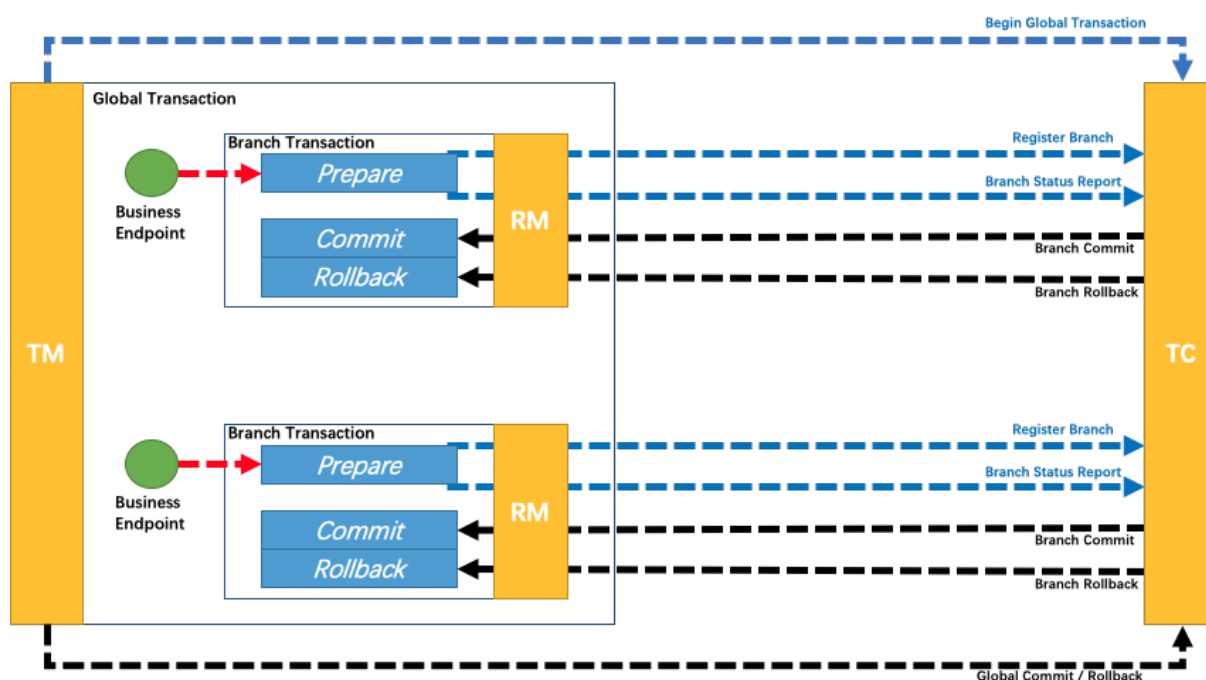
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Seata TCC Mode

Review the description in the overview: A distributed global transaction, the whole is a two-phase commit model. The global transaction is composed of several branch transactions. The branch transaction must meet the requirements of the two-phase commit model, that is, each branch transaction must have its own:

- One-stage prepare behavior
- Two-phase commit or rollback behavior

According to the two-phase behavior mode, we divide branch transactions into Automatic (Branch) Transaction Mode and TCC (Branch) Transaction Mode.

The AT mode (Reference Link TBD) is based on a relational database that supports local ACID transactions:

- One-stage prepare behavior: In local transactions, business data updates and corresponding rollback log records are submitted together.
- Two-phase commit behavior: Immediately completed successfully, automatically asynchronously clean up the rollback log.
- Two-phase rollback behavior: Through the rollback log, automatically generates compensation operations to complete data rollback.

Correspondingly, the TCC mode does not rely on transaction support of the underlying data resources:

- One-stage prepare behavior: Call the custom prepare logic.
- Two-phase commit behavior: Call custom commit logic.

Two-phase rollback behavior: Call the custom rollback logic.

The so-called TCC mode refers to the support of putting customized's branch transactions into the management of global transactions.

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Vision

Seata is an Alibaba open source distributed transaction solution that delivers high performance and easy to use distributed transaction services under a microservices architecture.

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