

# TransactionBlockKind

The kind of transaction block, either a programmable transaction or a system transaction.

```
union TransactionBlockKind = ConsensusCommitPrologueTransaction |  
GenesisTransaction | ChangeEpochTransaction | ProgrammableTransactionBlock |  
AuthenticatorStateUpdateTransaction | RandomnessStateUpdateTransaction |  
EndOfEpochTransaction
```

## Possible types

### TransactionBlockKind.ConsensusCommitPrologueTransaction

**object**

System transaction that runs at the beginning of a checkpoint, and is responsible for setting the current value of the clock, based on the timestamp from consensus.

### TransactionBlockKind.GenesisTransaction

**object**

System transaction that initializes the network and writes the initial set of objects on-chain.

### TransactionBlockKind.ChangeEpochTransaction

**object**

A system transaction that updates epoch information on-chain (increments the current epoch). Executed by the system once per epoch, without using gas. Epoch change transactions cannot be submitted by users, because validators will refuse to sign them.

This transaction kind is deprecated in favour of `EndOfEpochTransaction`.

### TransactionBlockKind.ProgrammableTransactionBlock

**object**

A user transaction that allows the interleaving of native commands (like transfer, split coins, merge coins, etc) and move calls, executed atomically.

### TransactionBlockKind.AuthenticatorStateUpdateTransaction

**n**

**object**

System transaction for updating the on-chain state used by zkLogin.

## TransactionBlockKind.RandomnessStateUpdateTransaction

object

System transaction to update the source of on-chain randomness.

## TransactionBlockKind.EndOfEpochTransaction

object

System transaction that supersedes `ChangeEpochTransaction` as the new way to run transactions at the end of an epoch. Behaves similarly to `ChangeEpochTransaction` but can accommodate other optional transactions to run at the end of the epoch.

## Member Of

`TransactionBlock`

object

[Edit this page](#)



© 2025 SUI FOUNDATION | DOCUMENTATION DISTRIBUTED UNDER CC BY 4.0