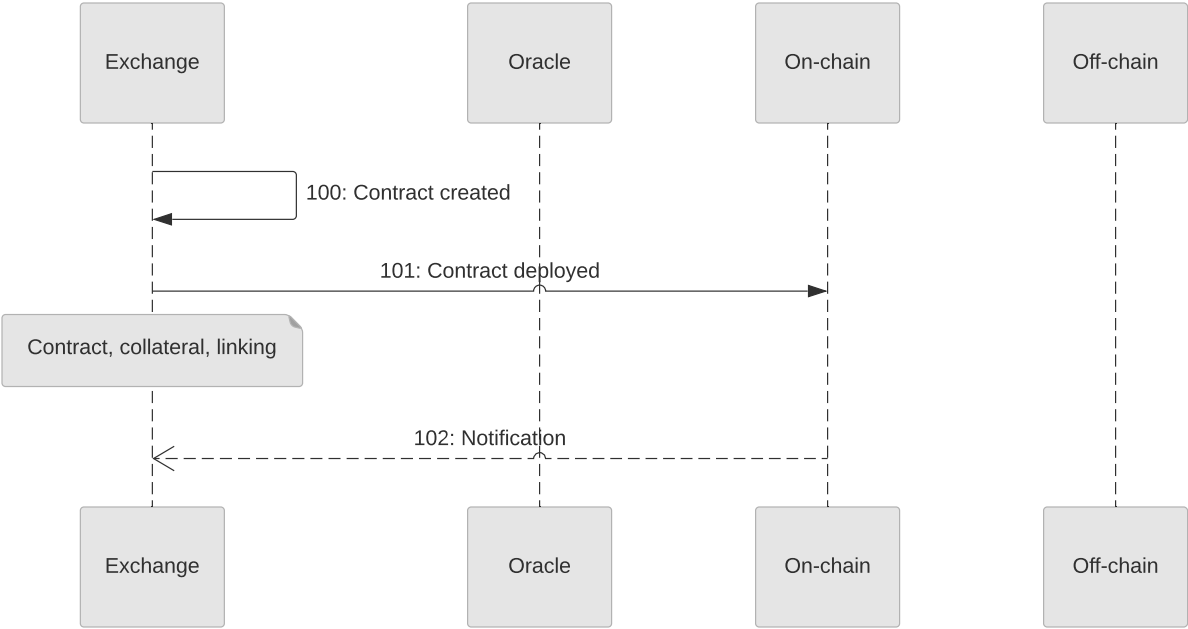# Create Contract

<u>Use Case</u>: The user of the system wants to create a new contract, with specifications that do not exist. The user is the exchange in this case. Other flows will represent the alternatives such as the maker or taker creating contracts.
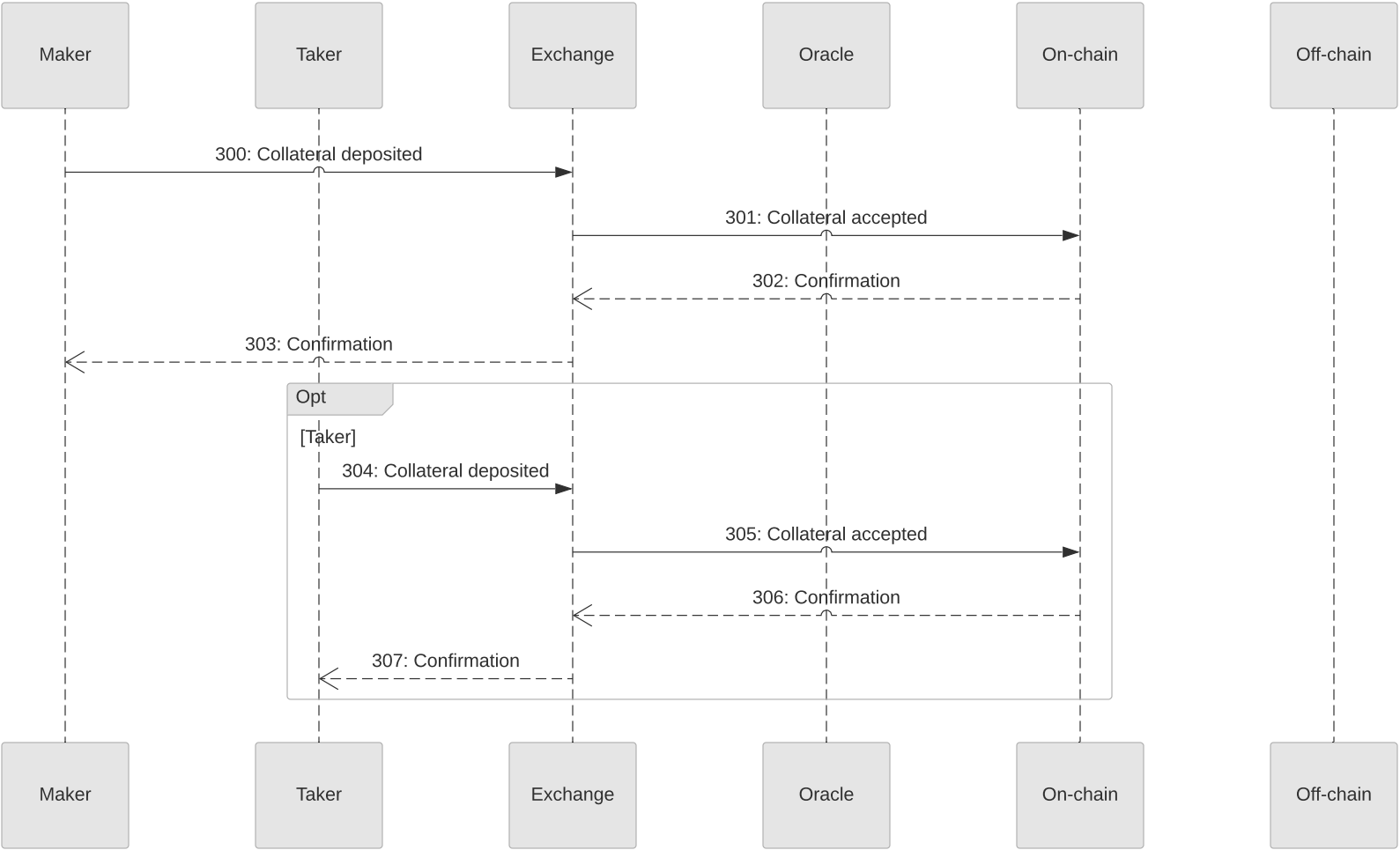<u>Flow Detail</u>: High-level

Exchange	Oracle	On-chain	Off-chain

100: Contract created

101: Contract deployed

Contract, collateral, linking

102: Notification

Exchange	Oracle	On-chain	Off-chain

Collateral

Use Case: A Maker or Taker wants to deposit collateral. Other flows will represent other administrative functions like checking balances and widthdrawing funds.
Flow Detail: High-level

Maker	Taker	Exchange	Oracle	On-chain	Off-chain

300: Collateral deposited (Maker → Exchange)

301: Collateral accepted (Exchange → On-chain)

302: Confirmation (On-chain → Exchange)

303: Confirmation (Exchange → Maker)

Opt

[Taker]

304: Collateral deposited (Taker → Exchange)

305: Collateral accepted (Exchange → On-chain)

306: Confirmation (On-chain → Exchange)

307: Confirmation (Exchange → Taker)
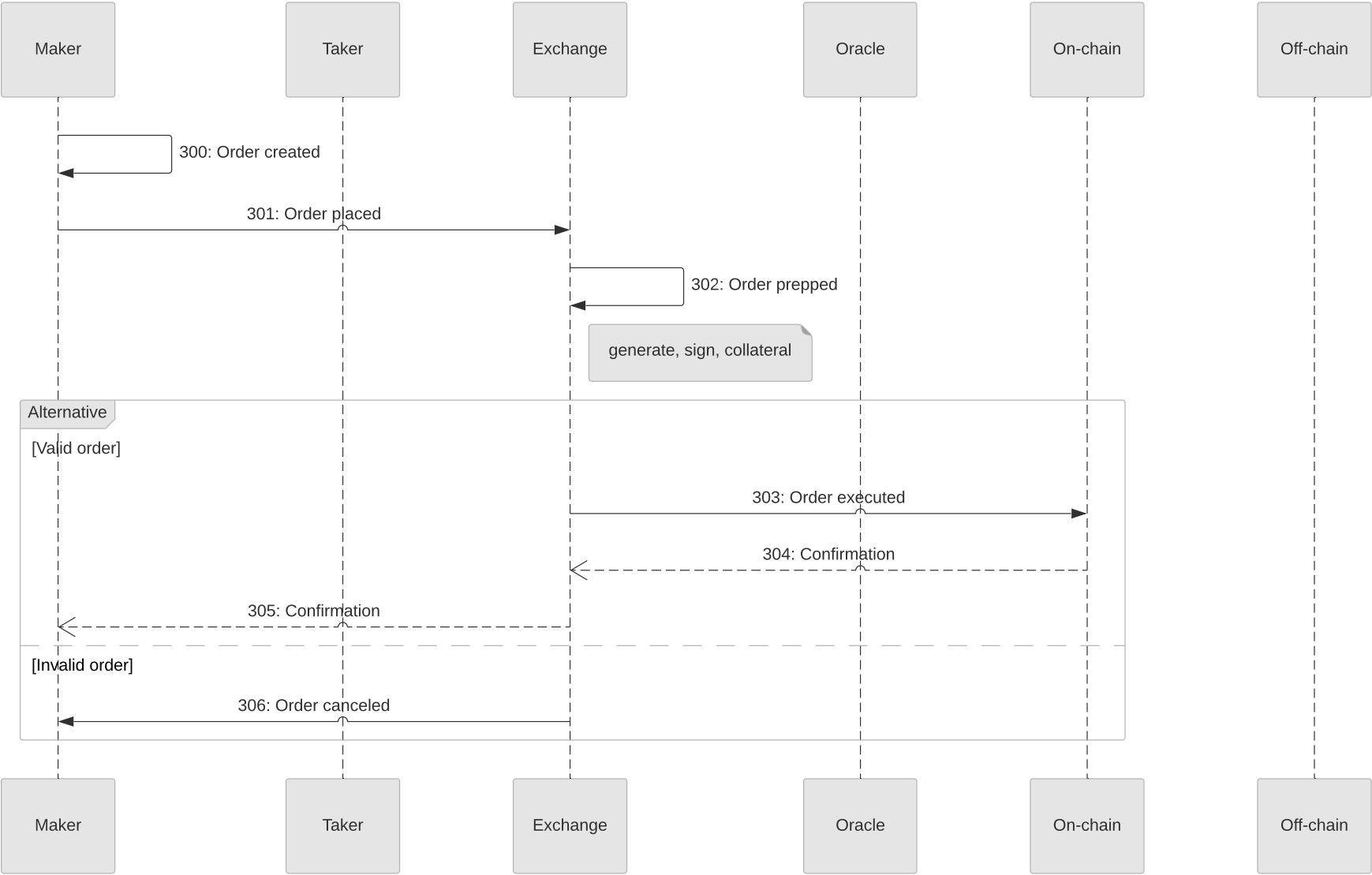
Maker Order

Use Case: A Maker would like to place an order. Other flows will represent the alternatives such as a peer-to-peer transaction.
Flow Detail: High-level

Maker	Taker	Exchange	Oracle	On-chain	Off-chain

300: Order created

301: Order placed

302: Order prepped

generate, sign, collateral

Alternative

[Valid order]

303: Order executed

304: Confirmation

305: Confirmation

[Invalid order]

306: Order canceled

Maker	Taker	Exchange	Oracle	On-chain	Off-chain

Taker Order

Use Case: A Taker would like to fill an order. Other flows will represent the alternatives such as a peer-to-peer transaction.
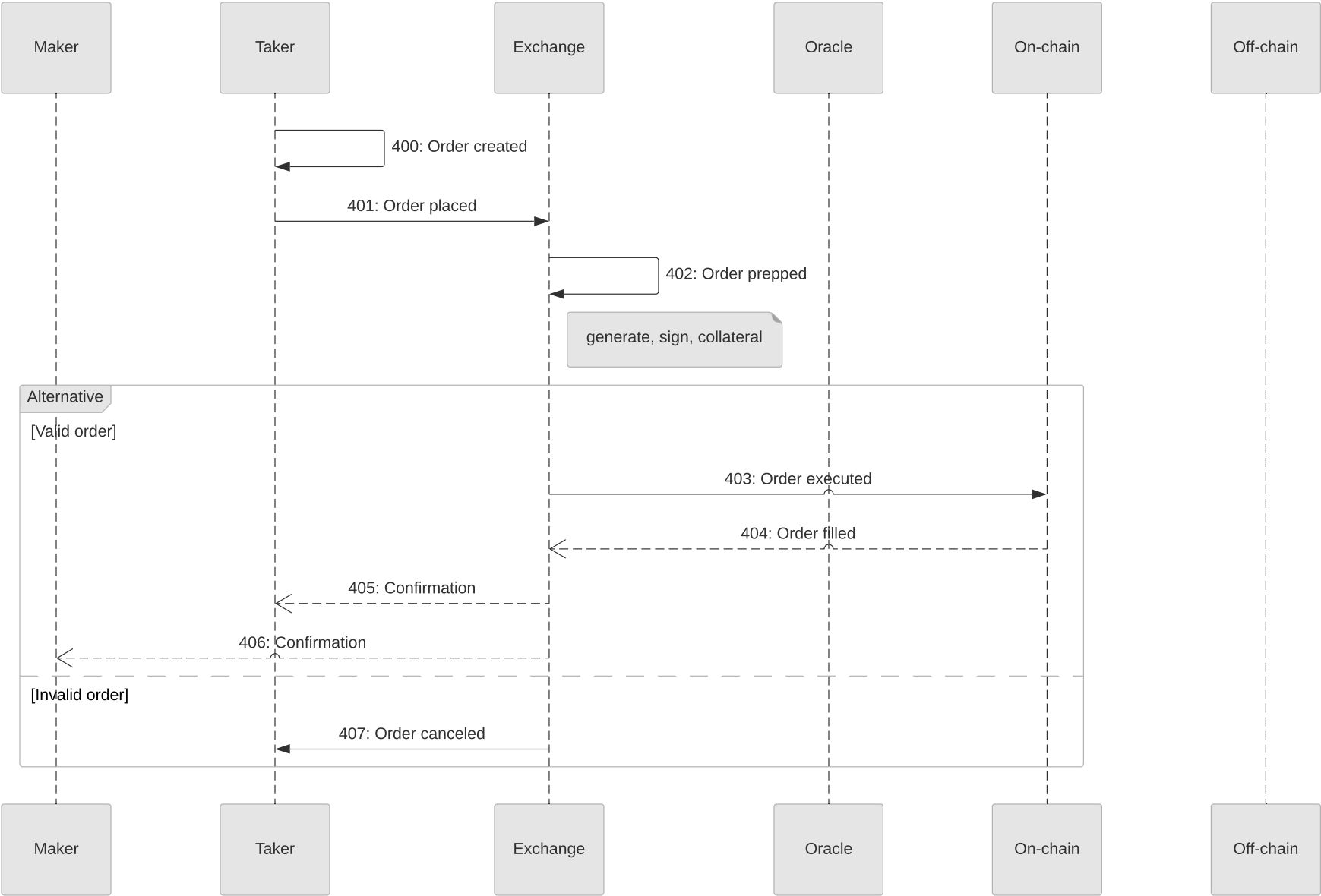Flow Detail: High-level

Maker	Taker	Exchange	Oracle	On-chain	Off-chain

400: Order created

401: Order placed

402: Order prepped

generate, sign, collateral

Alternative

[Valid order]

403: Order executed

404: Order filled

405: Confirmation

406: Confirmation

[Invalid order]

407: Order canceled

Settlement

<u>Use Case</u>: Settlement of trades: at expiration, termination, breaches, or cancellations. This is a listing of cases and each needs to be built out.
<u>Flow Detail</u>: High-level

Maker	Taker	Exchange	Oracle	On-chain	Off-chain

Alternative

[At expiration]

500: Settlement notification

501: Settlement notification

[Maker termination]

502: Initiate closing order

[Taker termination]

503: Initiate closing order

[Floor breached]

504: Breach notification

505: Breach notification

[Ceiling breached]

506: Breach notification

507: Breach notification

[Cancellation]

508: Cancel order

509: Cancellation notification

Maker	Taker	Exchange	Oracle	On-chain	Off-chain