

Pool Initialization

Pools can be initialized for a given pair by using callpath index 0:

...

```
Copy userCmd(1, abi.encode( 71, // Fixed initPool subcode base, // address quote, // address poolIdx, // uint256 price // uint128 )
```

...

In addition to the fixed initPool command sub-code (71), the following parameters are passed to initialize a pool:

- base - The address of the base token or virtual token
- quote - The address of the quote token or virtual token
- poolIdx - The arbitrary index of the pool type the user is swapping on.
- price - The initial price in the pool. Represented as Q64.64 square root (see [Type Conventions](#) for description of how to represent prices)
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Initializing a pool will require a permanent commitment of a small amount of base and quote tokens (based on the `setnewPoolLiquidity` in the `CrocSwapDex` contract). Pool initialization will always try funding based on the user's surplus collateral. If insufficient will try to collect tokens directly.

Therefore user must either fund their surplus collateral, approve ERC20 tokens, or send sufficient quantity in `msg.value` of the call. (See [Token Transfers](#) for more information on these mechanics.)

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