

```
// [Consumer] - Channel create

function createChannel(
    uint256 __deposit,
    uint256 __itemSerial) public returns(uint256){
    uint256 __channelSerial = channelSerial++;
    require(registeredItemMetaData[__itemSerial].isRegistered == true);
    require(registeredItemMetaData[__itemSerial].itemPrice == __deposit);

    // deposit
    deposit(msg.sender, __deposit);

    registeredChannel[__channelSerial].publisher    =
    registeredItemMetaData[__itemSerial].publisher;
    registeredChannel[__channelSerial].consumer = msg.sender;
    registeredChannel[__channelSerial].deposit = __deposit;
    registeredChannel[__channelSerial].duration = duration;
    registeredChannel[__channelSerial].CreateTime = now;
    registeredChannel[__channelSerial].ItemSerial = __itemSerial;
    registeredChannel[__channelSerial].state = 0;
    registeredChannel[__channelSerial].isRegistered = true;

    return __channelSerial;
}
```