

Ownerable

+ origOwner: address+ TransferOwnership: event

+ owner(): address+ onlyOwner(): modifier+ isOwner(address): bool

+ transferOwnership(address): void

Roles

- + Role: mapping(address => bool)
- + add(Role, address): void + remove(Role, address): void + has(Role, address): void

CustomerRole

+ CustomerAdded: event + CustomerRemoved: event

+ consumers: Role

+ isConsumer(address): bool+ addConsumer(address): void+ renounceConsumer(address): void+ onlyConsumer: modifier

DistributorRole

+ DistributorAdded: event + DistributorRemoved: event

+ distributors: Role

+ isDistributor(address): bool+ addDistributor(address): void+ renounceDistributor(address): void

+ onlyDistributor: modifier

FarmerRole

+ FarmerAdded: event + FarmerRemoved: event

+ farmers: Role

+ isFarmer(address): bool+ addFarmer(address): void+ renounceFarmer(address): void+ onlyFarmer: modifier

RetailerRole

+ RetailerAdded: event + RetailerRemoved: event

+ retailers: Role

+ isRetailer(address): bool + addRetailer(address): void + renounceRetailer(address): void

+ onlyRetailer: modifier

SupplyChain

+ owner: address + upc: uint

+ sku: uint

+ items: mapping(uint->item)

+ itemsHistory: mapping(uint->string[])

+ state: enum + item: struct

+ kill(): void

+ harvestItem(uint, address, string, string, string, string): void

+ processItem(uint): void + packItem(uint): void + sellItem(uint, uint): void + buyItem(uint): void

+ receiveItem(uint): void

+ shipItem(uint): void

+ purchaseItem(uint): void

fetchItemBufferOne(uint): uint uint address address string string string string

- + fetchItemBufferTwo(uint): uint, uint, uint, string, uint, uint, address, address
 + onlyOwner(): modifier
 + verifyCaller(address): modifier
 + paidEnough(uint): modifier
 + checkValue(uint): modifier
 + harvested(uint): modifier
 + processed(uint): modifier
 + packed(uint): modifier
 + forSale(uint): modifier
 + sold(uint): modifier
 + shipped(uint): modifier
 + received(uint): modifier
 + received(uint): modifier
 + purchased(uint): modifier



