

- + total_bundelld: uint = 0
- + increment bundelld: uint = 0
- + Add_Bundle(_supplier_key: address payable, _bundleld: uint indexed, _bundles_number: uint, _product_name: string memory, _product_name: uint)
- + Del_Bundle(_supplier_key:string, lot_id: uit)
- + Buy_Bundle(_client_key: address payable, _Id: uint, _bundles_to_send: uint)
- + Change_BundleState(_certifier_key: address payable, _bundles: object<_uniqueLotId: uint, _state: string>)
- + Submit_takeOver_Bundle(_bundle_id: uint, _delivery_key: address payable, _bundleState: string) + Delivery_takeOver_Bundle(_lot_id: uint)

- + event addedEvent (_bundleld: uint _bundleld)
 + event boughtEvent (_singleld: uint, _new_owner: address payable)
 + event submitTakeOverEvent(_singleld: uint, _delivery_key: address payable)
- + event validateTakeOverEvent(_singleId: uint, _delivery_key: address payable)