Report Smart Contract Factory

Register Report
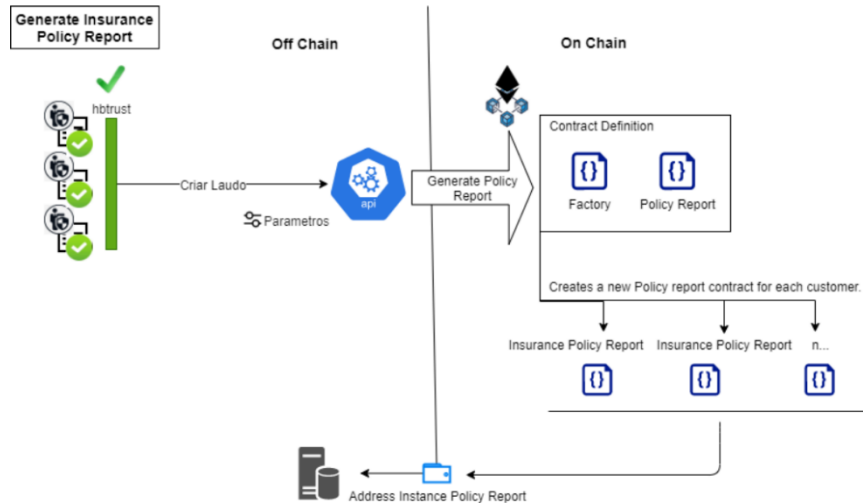
Smart Contract

Self destroy	Yes	only Owner
Pausable	Yes	only Admin
Factory	Yes	Generate Policy Report Instances

Roles and Functions
- *Admin role* is allowed to:
  - Add Admin
  - Remove Admin
  - Pause / Unpause
  - add Insurance Company
  - remove Insurance Company
- *Insurance Company role is allowed to*:
  - Generate Policy Report
  - All Consults Policy Report

Policy Report Parameters

```
{
  "privateKey": "string",
  "insuranceCompany": [
    "string"
  ],
  "occurrenceData": {
    "claimNumber": "string",
    "dateOcurrence": "2020-04-28",
    "timeOcurrence": "2020-04-28T15:35:47.928Z",
```

```
    "placeOcurrence": "string",
    "policeReport": "string",
    "protocolPoliceReport": "string",
    "conductorGuiltyOccurrence": "string",
    "ocurrenceDescription": "string",
    "victims": "string",
    "damageVictims": "string",
    "damageVehicle": "string"
  },
  "assistanceData": {
    "cnpjCpf": "string",
    "nameComplete": "string"
  },
  "technicalReport": {
    "reportNumber": "string",
    "reportStatus": "string",
    "damageComponents": [
      "string"
    ]
  },
  "manPower": "string",
  "technicalAdvice": "string"
}
```

Functions

Factory

● To generate a report and make a consultation you need to be an Insurance Company

Function	Parameters	Description
Generate Policy Report	All of the above parameters	Creates the smart report contract and returns the transaction hash.
Consult Insurance Company Policies Report	Address Insurance Company	Returns all insurance reports

Policy Report

● To check or change the status you need to be an insurance company

Update Status Report	Address Policy Report smart contract New status = `status`	Changes the value of the status of the report
Consult Report Insurance Company	Address Policy Report smart contract `onlyInsuranceCompany`	Returns all parameters of the insurance company `address[] memory insuranceCompanyWallets`
Consul tReport Ocurrence Data	Address Policy Report smart contract `onlyInsuranceCompany`	Returns all parameters of the occurrence. `string memory claimNumber,uint256 dateOcurrence,uint256 timeOcurrence,string memory placeOcurrence,string memory policeReport,string memory protocolPoliceReport,string memory`

		`conductorGuiltyOccurrence,string memory ocurrenceDescription,string memory victims,string memory damageVictims,string memory damageVehicle`
Consult Report Assistance Data	Address Policy Report smart contract `onlyInsuranceCompany`	Returns all assistance parameters `string memory cnpjCpf,string memory nameComplete`
Consult Report Techinical Report	Address Policy Report smart contract `onlyInsuranceCompany`	Returns all parameters of the technical report `string memory reportNumber,string memory reportStatus,string[] memory damageComponents`
Consult Policy Report	Address Policy Report smart contract `onlyInsuranceCompany`	Returns all parameters of the report. `string memory manpower,string memory technicalAdvice`

Access

Add Admin	Address	Adds an address as admin of the factory contract and returns the transaction hash.
Remove Admin	Address	Removes an admin role address from the factory contract and returns the transaction hash.
Is Admin	Address	Checks whether the address is admin of the factory contract, returns true / false
add Insurance Company	Address	Adds an address to the factory contract's role mutual and returns the transaction hash.
remove Insurance Company	Address	Removes an address to role mutual from the factory contract and returns the transaction hash.
Is Insurance Company	Address	Checks if the address is an insurance company from the factory contract, returns true / false