

CitizenCredentialRegistry

0x8EF87e0ab34d5088fcBc4cD2E2943eAD9085C344

ABI

```
[{"inputs":[{"internalType":"address","name":"_adminSafe","type":"address"}],"stateMutability":"nonpayable","type":"constructor"}, {"inputs":[],"name":"AccessControlBadConfirmation","type":"error"}, {"inputs":[{"internalType":"address","name":"account","type":"address"}, {"internalType":"bytes32","name":"neededRole","type":"bytes32"}],"name":"AccessControlUnauthorizedAccount","type":"error"}, {"inputs":[],"name":"EnforcedPause","type":"error"}, {"inputs":[],"name":"ExpectedPause","type":"error"}, {"inputs":[],"name":"ReentrancyGuardReentrantCall","type":"error"}, {"anonymous":false,"inputs":[{"indexed":true,"internalType":"uint256","name":"citizenId","type":"uint256"}, {"indexed":true,"internalType":"address","name":"citizenAddress","type":"address"}, {"indexed":false,"internalType":"bytes32","name":"didHash","type":"bytes32"}],"name":"CitizenRegistered","type":"event"}, {"anonymous":false,"inputs":[{"indexed":true,"internalType":"uint256","name":"credentialId","type":"uint256"}, {"indexed":true,"internalType":"uint256","name":"citizenId","type":"uint256"}, {"indexed":false,"internalType":"enum CitizenCredentialRegistry.CredentialType","name":"credentialType","type":"uint8"}, {"indexed":true,"internalType":"address","name":"issuer","type":"address"}],"name":"CredentialIssued","type":"event"}, {"anonymous":false,"inputs":[{"indexed":true,"internalType":"uint256","name":"credentialId","type":"uint256"}, {"indexed":false,"internalType":"enum CitizenCredentialRegistry.CredentialStatus","name":"oldStatus","type":"uint8"}, {"indexed":false,"internalType":"enum CitizenCredentialRegistry.CredentialStatus","name":"newStatus","type":"uint8"}],"name":"CredentialStatusChanged","type":"event"}, {"anonymous":false,"inputs":[{"indexed":false,"internalType":"address","name":"account","type":"address"}],"name":"Paused","type":"event"}, {"anonymous":false,"inputs":[{"indexed":true,"internalType":"bytes32","name":"role","type":"bytes32"}, {"indexed":true,"internalType":"bytes32","name":"previousAdminRole","type":"bytes32"}, {"indexed":true,"internalType":"bytes32","name":"newAdminRole","type":"bytes32"}],"name":"RoleAdminChanged","type":"event"}, {"anonymous":false,"inputs":[{"indexed":true,"internalType":"bytes32","name":"role","type":"bytes32"}, {"indexed":true,"internalType":"address","name":"account","type":"address"}, {"indexed":true,"internalType":"address","name":"sender","type":"address"}],"name":"RoleGranted","type":"event"}, {"anonymous":false,"inputs":[{"indexed":true,"internalType":"bytes32","name":"role","type":"bytes32"}, {"indexed":true,"internalType":"address","name":"account","type":"address"}, {"indexed":true,"internalType":"address","name":"sender","type":"address"}],"name":"RoleRevoked","type":"event"}, {"anonymous":false,"inputs":[{"indexed":true,"internalType":"address","name":"service","type":"address"}, {"indexed":false,"internalType":"bool","name":"authorized","type":"bool"}],"name":"ServiceAuthorized","type":"event"}, {"anonymous":false,"inputs":[{"indexed":false,"internalType":"address","name":"account","type":"address"}],"name":"Unpaused","type":"event"}, {"anonymous":false,"inputs":[{"indexed":true,"internalType":"address","name":"_adminSafe","type":"address"}],"name":"UnpausedByAdmin","type":"event"}]
```

```

    Type":"uint256","name":"requestId","type":"uint256"}, {"indexed":false,"internal
Type":"bool","name":"approved","type":"bool"}], "name":"VerificationCompleted", "
type":"event"}, {"anonymous":false,"inputs":[{"indexed":true,"internalType":"uin
t256","name":"citizenId","type":"uint256"}, {"indexed":false,"internalType":"enu
m
CitizenCredentialRegistry.VerificationLevel","name":"oldLevel","type":"uint8"},
{"indexed":false,"internalType":"enum
CitizenCredentialRegistry.VerificationLevel","name":"newLevel","type":"uint8"}]
,"name":"VerificationLevelUpdated","type":"event"}, {"anonymous":false,"inputs":
[{"indexed":true,"internalType":"uint256","name":"requestId","type":"uint256"},
{"indexed":true,"internalType":"uint256","name":"citizenId","type":"uint256"}, {
"indexed":false,"internalType":"enum
CitizenCredentialRegistry.VerificationLevel","name":"requestedLevel","type":"ui
nt8"}], "name":"VerificationRequested","type":"event"}, {"inputs":[],"name":"ADMI
N_ROLE","outputs":[{"internalType":"bytes32","name":"","type":"bytes32"}], "stat
eMutability":"view","type":"function"}, {"inputs":[],"name":"DEFAULT_ADMIN_ROLE"
,"outputs":[{"internalType":"bytes32","name":"","type":"bytes32"}], "stateMutabi
lity":"view","type":"function"}, {"inputs":[],"name":"ISSUER_ROLE","outputs":[{"
internalType":"bytes32","name":"","type":"bytes32"}], "stateMutability":"view", "
type":"function"}, {"inputs":[],"name":"VERIFIER_ROLE","outputs":[{"internalType
":"bytes32","name":"","type":"bytes32"}], "stateMutability":"view","type":"funct
ion"}, {"inputs":[{"internalType":"address","name":"","type":"address"}], "name":
"addressToCitizenId","outputs":[{"internalType":"uint256","name":"","type":"uin
t256"}], "stateMutability":"view","type":"function"}, {"inputs":[],"name":"adminS
afe","outputs":[{"internalType":"address","name":"","type":"address"}], "stateMu
tability":"view","type":"function"}, {"inputs":[{"internalType":"address","name
":"service","type":"address"}, {"internalType":"bool","name":"authorized","type":
"bool"}], "name":"authorizeService","outputs":[],"stateMutability":"nonpayable",
"type":"function"}, {"inputs":[{"internalType":"address","name":"","type":"addre
ss"}], "name":"authorizedServices","outputs":[{"internalType":"bool","name":"","
type":"bool"}], "stateMutability":"view","type":"function"}, {"inputs":[{"interna
lType":"uint256","name":"","type":"uint256"}, {"internalType":"uint256","name":
"","type":"uint256"}], "name":"citizenCredentials","outputs":[{"internalType":"ui
nt256","name":"","type":"uint256"}], "stateMutability":"view","type":"function"}
,{"inputs":[{"internalType":"uint256","name":"","type":"uint256"}, {"internalTyp
e":"enum
CitizenCredentialRegistry.CredentialType","name":"","type":"uint8"}, {"internalT
ype":"uint256","name":"","type":"uint256"}], "name":"citizenCredentialsByType", "
outputs":[{"internalType":"uint256","name":"","type":"uint256"}], "stateMutabili
ty":"view","type":"function"}, {"inputs":[{"internalType":"uint256","name":"","t
ype":"uint256"}, {"internalType":"uint256","name":"","type":"uint256"}], "name":
"citizenVerifications","outputs":[{"internalType":"uint256","name":"","type":"ui
nt256"}], "stateMutability":"view","type":"function"}, {"inputs":[{"internalType
":"uint256","name":"","type":"uint256"}], "name":"citizens","outputs":[{"internal
Type":"uint256","name":"citizenId","type":"uint256"}, {"internalType":"address",
"name":"citizenAddress","type":"address"}, {"internalType":"bytes32","name":"did
Hash","type":"bytes32"}, {"internalType":"string","name":"metadataURI","type":"s
tring"}, {"internalType":"enum
CitizenCredentialRegistry.VerificationLevel","name":"verificationLevel","type":

```

```

"uint8"}, {"internalType": "uint256", "name": "registrationDate", "type": "uint256"},
{"internalType": "uint256", "name": "lastUpdateDate", "type": "uint256"}, {"internalType": "bool", "name": "isActive", "type": "bool"}], "stateMutability": "view", "type": "function"}, {"inputs": [{"internalType": "uint256", "name": "", "type": "uint256"}], "name": "credentials", "outputs": [{"internalType": "uint256", "name": "credentialId", "type": "uint256"}, {"internalType": "uint256", "name": "citizenId", "type": "uint256"}, {"internalType": "enum
CitizenCredentialRegistry.CredentialType", "name": "credentialType", "type": "uint8
"}, {"internalType": "address", "name": "issuer", "type": "address"}, {"internalType": "bytes32", "name": "credentialHash", "type": "bytes32"}, {"internalType": "string", "name": "metadataURI", "type": "string"}, {"internalType": "uint256", "name": "issueDate", "type": "uint256"}, {"internalType": "uint256", "name": "expirationDate", "type": "uint256"}, {"internalType": "enum
CitizenCredentialRegistry.CredentialStatus", "name": "status", "type": "uint8"}], "stateMutability": "view", "type": "function"}, {"inputs": [{"internalType": "uint256", "name": "citizenId", "type": "uint256"}], "name": "deactivateCitizen", "outputs": [], "stateMutability": "nonpayable", "type": "function"}, {"inputs": [{"internalType": "uint256", "name": "citizenId", "type": "uint256"}], "name": "getCitizen", "outputs": [{"components": [{"internalType": "uint256", "name": "citizenId", "type": "uint256"}, {"internalType": "address", "name": "citizenAddress", "type": "address"}, {"internalType": "bytes32", "name": "didHash", "type": "bytes32"}, {"internalType": "string", "name": "metadataURI", "type": "string"}, {"internalType": "enum
CitizenCredentialRegistry.VerificationLevel", "name": "verificationLevel", "type": "uint8"}, {"internalType": "uint256", "name": "registrationDate", "type": "uint256"}, {"internalType": "uint256", "name": "lastUpdateDate", "type": "uint256"}, {"internalType": "bool", "name": "isActive", "type": "bool"}], "internalType": "struct
CitizenCredentialRegistry.Citizen", "name": "", "type": "tuple"}], "stateMutability": "view", "type": "function"}, {"inputs": [{"internalType": "uint256", "name": "citizenId", "type": "uint256"}], "name": "getCitizenCredentials", "outputs": [{"internalType": "uint256[]", "name": "", "type": "uint256[]"}], "stateMutability": "view", "type": "function"}, {"inputs": [{"internalType": "uint256", "name": "citizenId", "type": "uint256"}], "name": "getCitizenVerificationLevel", "outputs": [{"internalType": "enum
CitizenCredentialRegistry.VerificationLevel", "name": "", "type": "uint8"}], "stateMutability": "view", "type": "function"}, {"inputs": [{"internalType": "uint256", "name": "citizenId", "type": "uint256"}], "name": "getCitizenVerifications", "outputs": [{"internalType": "uint256[]", "name": "", "type": "uint256[]"}], "stateMutability": "view", "type": "function"}, {"inputs": [{"internalType": "uint256", "name": "credentialId", "type": "uint256"}], "name": "getCredential", "outputs": [{"components": [{"internalType": "uint256", "name": "credentialId", "type": "uint256"}, {"internalType": "uint256", "name": "citizenId", "type": "uint256"}, {"internalType": "enum
CitizenCredentialRegistry.CredentialType", "name": "credentialType", "type": "uint8
"}, {"internalType": "address", "name": "issuer", "type": "address"}, {"internalType": "bytes32", "name": "credentialHash", "type": "bytes32"}, {"internalType": "string", "name": "metadataURI", "type": "string"}, {"internalType": "uint256", "name": "issueDate", "type": "uint256"}, {"internalType": "uint256", "name": "expirationDate", "type": "uint256"}, {"internalType": "enum
CitizenCredentialRegistry.CredentialStatus", "name": "status", "type": "uint8"}], "internalType": "struct
CitizenCredentialRegistry.Credential", "name": "", "type": "tuple"}], "stateMutability":

```

```

ty":"view","type":"function"}, {"inputs": [{"internalType":"bytes32","name":"role",
"type":"bytes32"}], "name":"getRoleAdmin", "outputs": [{"internalType":"bytes32",
"name":"","type":"bytes32"}], "stateMutability":"view", "type":"function"}, {"inp
uts": [{"internalType":"uint256","name":"requestId","type":"uint256"}], "name":"g
etVerificationRequest", "outputs": [{"components": [{"internalType":"uint256","nam
e":"requestId","type":"uint256"}, {"internalType":"uint256","name":"citizenId","
type":"uint256"}, {"internalType":"enum
CitizenCredentialRegistry.VerificationLevel","name":"requestedLevel","type":"ui
nt8"}, {"internalType":"address","name":"verifier","type":"address"}, {"internalT
ype":"uint256","name":"requestDate","type":"uint256"}, {"internalType":"uint256"
,"name":"completionDate","type":"uint256"}, {"internalType":"bool","name":"appro
ved","type":"bool"}, {"internalType":"bool","name":"completed","type":"bool"}], "
internalType":"struct
CitizenCredentialRegistry.VerificationRequest", "name":"","type":"tuple"}], "stat
eMutability":"view", "type":"function"}, {"inputs": [{"internalType":"bytes32","na
me":"role","type":"bytes32"}, {"internalType":"address","name":"account","type":
"address"}], "name":"grantRole", "outputs": [], "stateMutability":"nonpayable", "typ
e":"function"}, {"inputs": [{"internalType":"uint256","name":"citizenId","type":"
uint256"}, {"internalType":"enum
CitizenCredentialRegistry.CredentialType","name":"credentialType","type":"uint8
"}], "name":"hasCredentialType", "outputs": [{"internalType":"bool","name":"","typ
e":"bool"}], "stateMutability":"view", "type":"function"}, {"inputs": [{"internalTy
pe":"bytes32","name":"role","type":"bytes32"}, {"internalType":"address","name":
"account","type":"address"}], "name":"hasRole", "outputs": [{"internalType":"bool"
,"name":"","type":"bool"}], "stateMutability":"view", "type":"function"}, {"inputs
": [{"internalType":"uint256","name":"credentialId","type":"uint256"}], "name":"i
sCredentialValid", "outputs": [{"internalType":"bool","name":"","type":"bool"}], "
stateMutability":"view", "type":"function"}, {"inputs": [{"internalType":"uint256"
,"name":"citizenId","type":"uint256"}, {"internalType":"enum
CitizenCredentialRegistry.CredentialType","name":"credentialType","type":"uint8
"}, {"internalType":"bytes32","name":"credentialHash","type":"bytes32"}, {"intern
alType":"string","name":"metadataURI","type":"string"}, {"internalType":"uint256"
,"name":"validityPeriod","type":"uint256"}], "name":"issueCredential", "outputs"
: [{"internalType":"uint256","name":"","type":"uint256"}], "stateMutability":"non
payable", "type":"function"}, {"inputs": [{"internalType":"uint256","name":"citize
nId","type":"uint256"}, {"internalType":"enum
CitizenCredentialRegistry.VerificationLevel","name":"minimumLevel","type":"uint
8"}], "name":"meetsVerificationLevel", "outputs": [{"internalType":"bool","name":
","type":"bool"}], "stateMutability":"view", "type":"function"}, {"inputs": [], "na
me":"pause", "outputs": [], "stateMutability":"nonpayable", "type":"function"}, {"inp
uts": [], "name":"paused", "outputs": [{"internalType":"bool","name":"","type":"boo
l"}], "stateMutability":"view", "type":"function"}, {"inputs": [{"internalType":"ui
nt256","name":"requestId","type":"uint256"}, {"internalType":"bool","name":"appr
oved","type":"bool"}], "name":"processVerification", "outputs": [], "stateMutabilit
y":"nonpayable", "type":"function"}, {"inputs": [{"internalType":"bytes32","name":
"didHash","type":"bytes32"}, {"internalType":"string","name":"metadataURI","type
":"string"}], "name":"registerCitizen", "outputs": [{"internalType":"uint256","nam
e":"","type":"uint256"}], "stateMutability":"nonpayable", "type":"function"}, {"in
puts": [{"internalType":"bytes32","name":"role","type":"bytes32"}, {"internalType

```

```

    "address", "name": "callerConfirmation", "type": "address"}], "name": "renounceRole",
    "outputs": [], "stateMutability": "nonpayable", "type": "function"}, {"inputs": [{"internalType": "uint256", "name": "citizenId", "type": "uint256"}, {"internalType": "enum
CitizenCredentialRegistry.VerificationLevel", "name": "requestedLevel", "type": "uint8"}], "name": "requestVerification", "outputs": [{"internalType": "uint256", "name": "", "type": "uint256"}], "stateMutability": "nonpayable", "type": "function"}, {"inputs": [{"internalType": "bytes32", "name": "role", "type": "bytes32"}, {"internalType": "address", "name": "account", "type": "address"}], "name": "revokeRole", "outputs": [], "stateMutability": "nonpayable", "type": "function"}, {"inputs": [{"internalType": "uint256", "name": "citizenId", "type": "uint256"}, {"internalType": "enum
CitizenCredentialRegistry.VerificationLevel", "name": "newLevel", "type": "uint8"}], "name": "setVerificationLevel", "outputs": [], "stateMutability": "nonpayable", "type": "function"}, {"inputs": [{"internalType": "bytes4", "name": "interfaceId", "type": "bytes4"}], "name": "supportsInterface", "outputs": [{"internalType": "bool", "name": "", "type": "bool"}], "stateMutability": "view", "type": "function"}, {"inputs": [], "name": "totalCitizens", "outputs": [{"internalType": "uint256", "name": "", "type": "uint256"}], "stateMutability": "view", "type": "function"}, {"inputs": [], "name": "totalCredentials", "outputs": [{"internalType": "uint256", "name": "", "type": "uint256"}], "stateMutability": "view", "type": "function"}, {"inputs": [], "name": "unpause", "outputs": [], "stateMutability": "nonpayable", "type": "function"}, {"inputs": [{"internalType": "uint256", "name": "citizenId", "type": "uint256"}, {"internalType": "string", "name": "newMetadataURI", "type": "string"}], "name": "updateCitizenMetadata", "outputs": [], "stateMutability": "nonpayable", "type": "function"}, {"inputs": [{"internalType": "uint256", "name": "credentialId", "type": "uint256"}, {"internalType": "enum
CitizenCredentialRegistry.CredentialStatus", "name": "newStatus", "type": "uint8"}], "name": "updateCredentialStatus", "outputs": [], "stateMutability": "nonpayable", "type": "function"}, {"inputs": [{"internalType": "bytes32", "name": "", "type": "bytes32"}], "name": "usedDIDHashes", "outputs": [{"internalType": "bool", "name": "", "type": "bool"}], "stateMutability": "view", "type": "function"}, {"inputs": [{"internalType": "uint256", "name": "", "type": "uint256"}], "name": "verificationRequests", "outputs": [{"internalType": "uint256", "name": "requestId", "type": "uint256"}, {"internalType": "uint256", "name": "citizenId", "type": "uint256"}, {"internalType": "enum
CitizenCredentialRegistry.VerificationLevel", "name": "requestedLevel", "type": "uint8"}, {"internalType": "address", "name": "verifier", "type": "address"}, {"internalType": "uint256", "name": "requestDate", "type": "uint256"}, {"internalType": "uint256", "name": "completionDate", "type": "uint256"}, {"internalType": "bool", "name": "approved", "type": "bool"}, {"internalType": "bool", "name": "completed", "type": "bool"}], "stateMutability": "view", "type": "function"}, {"inputs": [{"internalType": "uint256", "name": "credentialId", "type": "uint256"}, {"internalType": "bytes32", "name": "providedHash", "type": "bytes32"}], "name": "verifyCredentialHash", "outputs": [{"internalType": "bool", "name": "", "type": "bool"}], "stateMutability": "view", "type": "function"}]}

```