PWN Safe = Gnosis safe + ATR guard + ATR module + default fallback handler

Gnosis Safe Singleton
v1.3.0

Gnosis Safe Proxy Factory

Fallback Handler

PWNSafe Factory
- isValidSafe: *addr => bool*

- fallbackHandler: *addr*
- gnosisSafeProxyFactory: *addr*
- gnosisSafeSingleton: *addr*
- atrGuard: *addr*
- atrModule: *addr*

IPWNSafeValidator

💡 on safe deployment:
set module + guard + fallback handler

Legend
- Gnosis safe components
- Immutable components
- Upgradable components
- Interfaces
- Abstract contracts

Asset Transfer Rights Guard Proxy
- admin: *addr*

Asset Transfer Rights Guard
- atr: *AssetTransferRights*
- operatorsContext: *OperatorsContext*

Initializable

IAssetTransferRightsGuard

Operators context
- guard: *addr*
- operators: *addr => addr => addrSet*

Owner
multisig / DAO

ability to:
- upgrade guard in proxy
- update whitelist
- update safe validator addr

Asset Transfer Rights
- lastTokenId: *uint*

Ownable
- owner: *addr*

Whitelist Manager
- useWhitelist: *bool*
- isWhitelisted: *addr => bool*

Asset Transfer Rights Guard Manager
- atrGuard: *IAssetTransferRightsGuard*

PWNSafe Validator Manager
- safeValidator: *IPWNSafeValidator*

Tokenized Asset Manager
- assets: *addr => Asset*
- tokenizedAssetsInSafe: *addr => uintSet*
- tokenizedBalances: *addr => addr => uint => uint*

ERC721