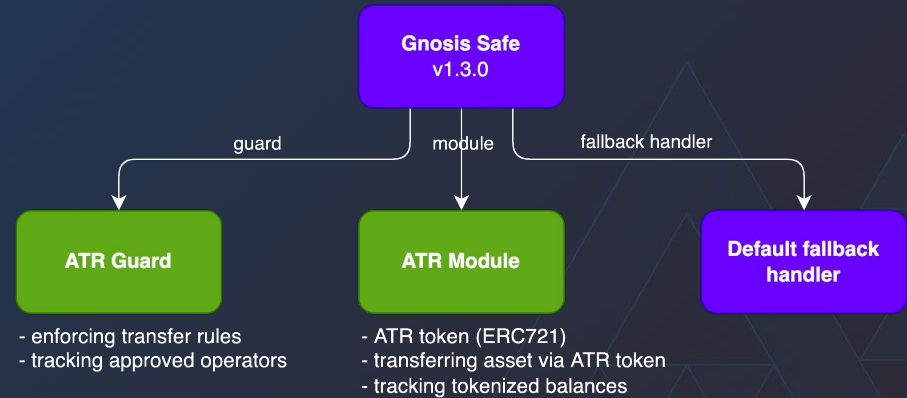


Requirements


- Has to act as a normal contract wallet
 - Call arbitrary calladata on any address
 - **transfer, approve, asset utility, etc.**
- Enable tokenizing assets transfer rights (ATR)
 - Fungible, non-fungible, and semi-fungible assets
 - Enable ATR token holder to transfer asset from owners wallet
 - Prevent owner without an ATR token to transfer / burn its assets
 - **Block transfer / burn calls**
 - **Block approval calls**

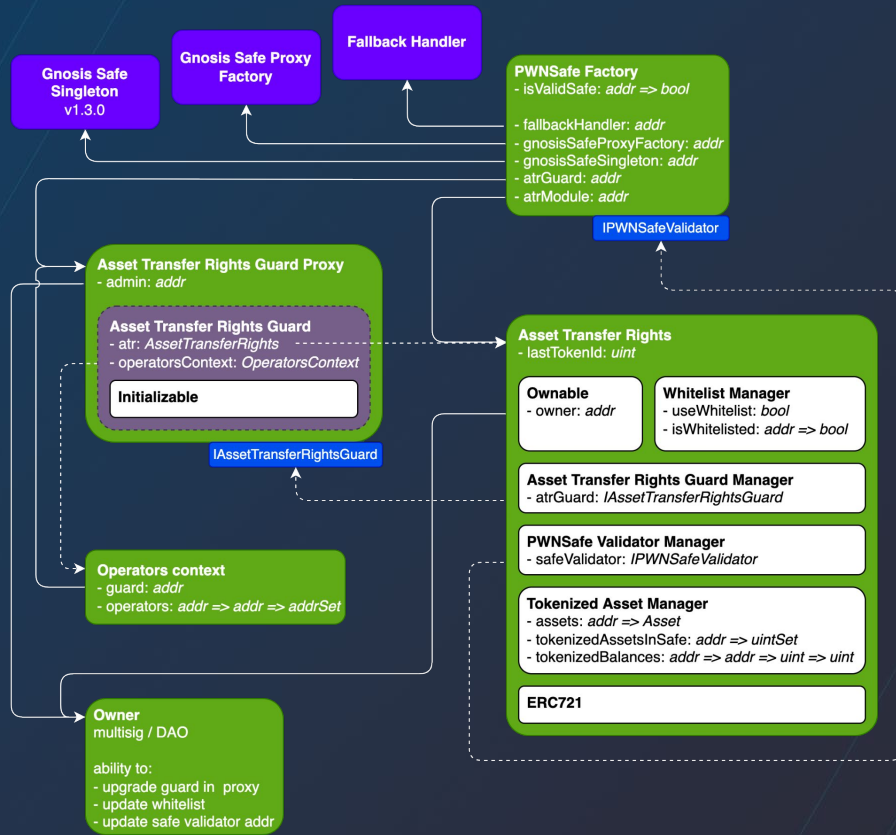
Wallet design

- (Gnosis) Safe multisig contract wallet
 - Guard
 - checks before and after transaction
 - Module
 - enable to initiate transaction without owners approval



Approval issues while minting ATR token

- Check that collection hasn't approved address before minting ATR token
- 4 types of approval
 - ERC20 - approve(amount)
 - ERC721 - approve(id) + setApprovalForAll(address)
 - ERC1155 - setApprovalForAll(address)
- Only ERC721 - approve(id) has a getter function for approved address
-  All approve calls are done through wallet
 - -> wallet can track them





Thank you!

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