# Playnance Game Token (USDP)

# **Playnance Game Token Specification**

#### Overview

The Playnance Game Token is a stable digital currency pegged to the US Dollar, specifically designed to facilitate seamless transactions within the Playnance chain ecosystem. Merging the foundational attributes of the native PBG gas token with tailored functionalities suitable for a stablecoin, the USD token introduces a taxation mechanism alongside a whitelist feature to optimize transactional flexibility and efficiency.

#### **Token Details:**

Token Name: Playnance USD

Token Symbol: USDP

 Decimals: 2, enabling transactions and balances to closely mirror conventional fiat currency handling.

• Blockchain: Playnance (ChainID: 1829)

### **Key Features:**

## Stability:

 Pegging: USDP is pegged to the US Dollar and backed by a diverse treasury of fiat and cryptocurrencies, providing a stable and reliable token value.

#### **Taxation:**

- **Initial Tax Rate:** Introduced at a 0% rate to promote early adoption and use, with the capability for future adjustments to support ecosystem health.
- Maximum Tax Rate: Limited to a 1% maximum, enabling the token owner to modify the tax rate within this boundary to maintain transactional equity and predictability.
- **Tax Wallet:** A specific wallet designated for collecting tax revenue, whose address is settable and modifiable by the token owner.

#### Whitelist Mechanism:

- **Tax Exemptions:** Certain addresses may be whitelisted to exempt them from transaction taxes, allowing identified accounts to conduct tax-free transactions.
- Management Authority: The token owner has exclusive rights to add or remove addresses from the whitelist, controlling tax exemption status.

#### **Core Functionalities:**

## Minting and Burning:

- Minting: The contract allows the token owner to mint new USDP tokens to designated addresses
  as needed for supply regulation in line with treasury assets and ecosystem demands. For
  technical implementation, refer to OpenZeppelin's mint function documentation.
- **Burning:** The token owner is also equipped to reduce the circulating token supply through burning, aiding in value stability and treasury balance adjustments.
  - The ability of the token owner to burn tokens is a critical feature aimed at maintaining the security and integrity of the Playnance chain. By selectively removing tokens from circulation, the token owner can address and neutralize threats or malicious activities that might compromise the network's operation. This includes but is not limited to, penalizing bad actors who attempt to spam the network with frivolous or malicious transactions.
  - Beyond security concerns, the burning mechanism plays a vital role in regulating the token's supply. In scenarios where the market dynamics or treasury reserves necessitate adjustments to the circulating supply of USDP tokens, the token owner can utilize the burning functionality to make precise, controlled reductions. This capability is crucial for maintaining the peg of the USDP token to the US Dollar, ensuring its stability as a trusted medium of exchange on the Playnance chain.

For technical implementation, refer to OpenZeppelin's <u>ERC20Burnable documentation</u>.

## Pause and Unpause:

Emergency Mechanisms: For addressing urgent security or network events, the token owner can
pause and later unpause token transactions, leveraging the <a href="ERC20Pausable extension"><u>ERC20Pausable extension</u></a> for this
capability.

## **Taxation and Whitelist Management:**

- **Adjustable Taxation:** The smart contract includes functionality for the token owner to modify the transaction tax rate within predetermined limits.
- Whitelist Operations: The contract also enables the administration of the no-tax whitelist, allowing selected addresses to transact without incurring taxes.

#### **Token Recovery:**

• **Asset Retrieval:** A provision allows the token owner to recover non-USDP assets mistakenly sent to the contract, ensuring protection against accidental token loss.

## **Governance and Operational Integrity:**

The governance and operational integrity of the Playnance USDP token are foundational to its design and implementation on the Playnance chain. Through strategic features such as burning for security, spam prevention, supply management, coupled with the careful administration of whitelists and taxation, the governance model ensures the ecosystem remains secure, stable, and aligned with user interests. This governance approach not only enhances the token's utility and appeal but also fosters a transparent, efficient, and inclusive blockchain environment.

## **Smart Contract Audit**

| Playnance is within the top | 10 audited smart | contracts by Certil | k. You can view | the audit report here, |
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| with the PDF version to be  | determined.      |                     |                 |                        |