



## **Protocol Baobao**

### **Smart Contract Audit Report**

**Document Info**

<b>Project Name</b>	Baobao
<b>Project Website</b>	<a href="https://blockbao.io/">https://blockbao.io/</a>
<b>Audit Period</b>	15.02.2024 - 18.02.2024
<b>Audit Result</b>	Passed
<b>Report Prepared By</b>	Roy Zhang
<b>Changelog</b>	18.02.2024 - Release Report

**Audit Scope**

<b>Project Repo</b>	<a href="https://github.com/*PRIVATEREPO*/redPacket">https://github.com/*PRIVATEREPO*/redPacket</a>
<b>Audit Commit</b>	64344c94981721ecd37c3adf4b4f03a1b3d64a0d
<div><div>redPacket</div><div>InscriptionRedPacket.sol @</div><div>RedPacket.sol</div><div>RedPacketStorage.sol</div></div>	



### Summary

Protocol Baobao Baobao is an early Telegram web3 ecosystem that aims to redefine crypto promotion by offering a comprehensive crypto red packet tool. With Baobao, users can effortlessly send a variety of crypto red packets on Telegram, including cross-chain inscription tokens and NFTs, without any gas fees. The platform allows for easy distribution of red packets in Telegram chats, amplifying their reach and user interaction. Additionally, red packets can serve as a powerful community booster, enhancing interactions and involvement after token launches. Baobao also offers direct in-app trading of cryptocurrencies within Telegram, eliminating the need for external applications or extensions. Users can further customize the red packets by implementing specific criteria to restrict access and claim only by designated token holders. Overall, Baobao aims to revolutionize crypto promotion and create a fun and engaging experience for users.

After our inspection and auditing according to industry standards, we found NO CRITICAL, HIGH, MEDIUM risk problems. There are two LOW risk issues that need special attention in future operations. Please refer to the summary below and see the Audit Details for implementation details. The contract for this protocol is kept minimal and free from any major security issues.

#	Finding	Risk Level	Comments from Project Team
R1	Uncheck “audience” in JWT which can cause phishing problems.	Low	Risk Accepted. Unused Code.
R2	Leakage of the owner's private key could lead to funds lost.	Low	Risk Accepted. Additional measures will be taken to protect the private key

**Audit Detail**

ID:	R1	File:	RedPacket.sol	Risk:	Low
Finding:	Inconsistency between comment and implementation				
<div>//RedPacket.sol: Line 10</div> <div>function createNormalPacket(uint256 amount, uint16 nums, address room) external {     require(nums &lt;= 10000, "nums must be bwt 1,10000"); }</div> <div>//ElessarLabs: The uint16 includes 0, but the require check doesn't check 0, which may lead to unintentional behavior.</div>					

ID:	R2	File:	InscriptionRedPacket.sol	Risk:	Low
Finding:	Leakage of the owner's private key could lead to funds lost.				
<pre>//InscriptionRedPacket.sol: Line 104 function rescue(address token) external onlyOwner {     if (token == address(0)) {         Address.sendValue(payable(owner()), address(this).balance);     } else {         IERC20Metadata(token).safeTransfer(owner(), IERC20Metadata(token).balanceOf(address(this)));     } }</pre> <p><b>//ElessarLabs: If hackers gain control on the owner’s private key, they can easily loot funds from the project.</b></p>					



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