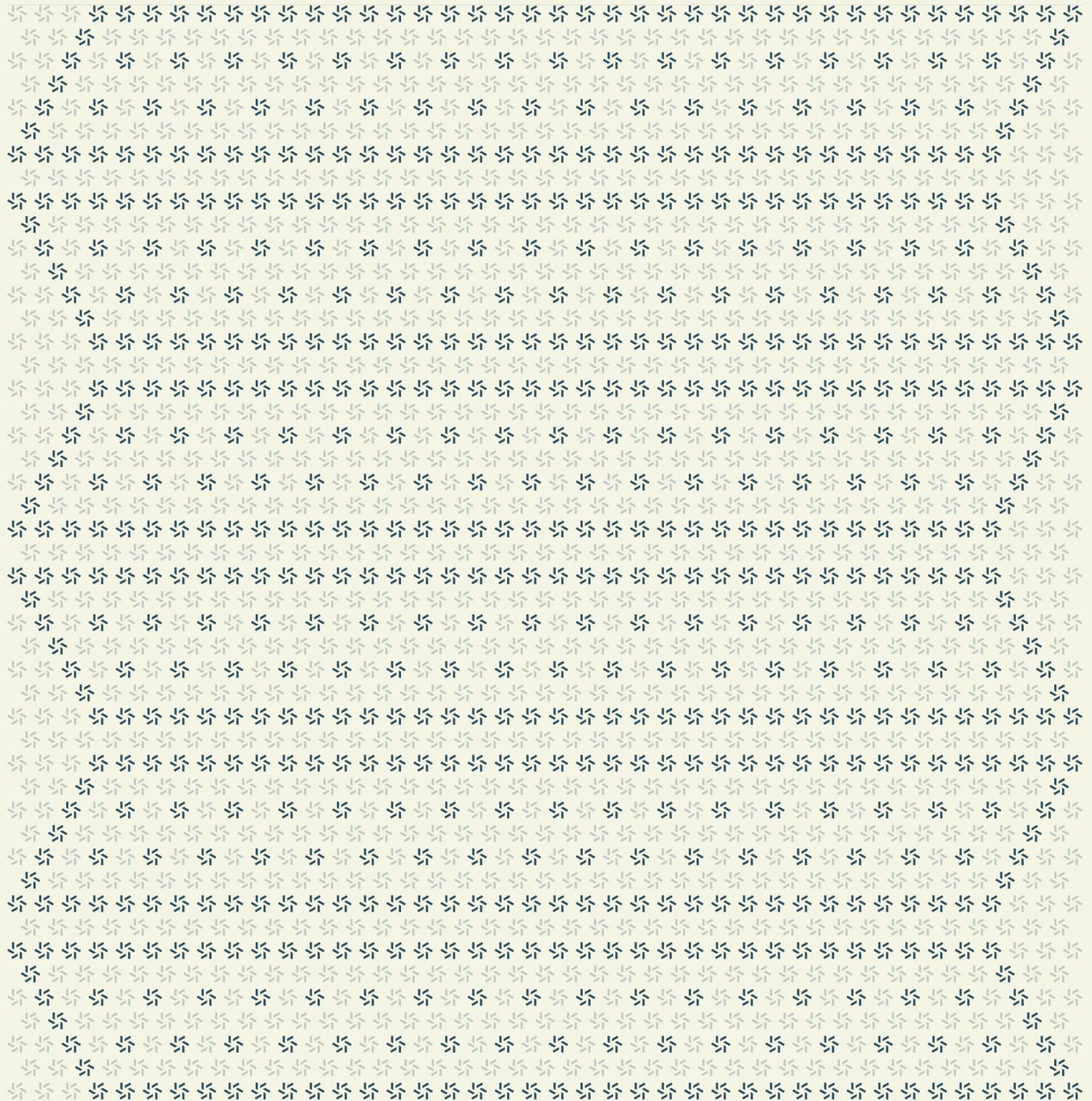


December 17, 2025

# Solana Examples

## Solana Program Patch Review



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## About Zellic

Zellic is a vulnerability research firm with deep expertise in blockchain security. We specialize in EVM, Move (Aptos and Sui), and Solana as well as Cairo, NEAR, and Cosmos. We review L1s and L2s, cross-chain protocols, wallets and applied cryptography, zero-knowledge circuits, web applications, and more.

Prior to Zellic, we founded the [#1 CTF \(competitive hacking\) team](#) worldwide in 2020, 2021, and 2023. Our engineers bring a rich set of skills and backgrounds, including cryptography, web security, mobile security, low-level exploitation, and finance. Our background in traditional information security and competitive hacking has enabled us to consistently discover hidden vulnerabilities and develop novel security research, earning us the reputation as the go-to security firm for teams whose rate of innovation outpaces the existing security landscape.

For more on Zellic's ongoing security research initiatives, check out our website [zellic.io](https://zellic.io) and follow [@zellic\\_io](https://twitter.com/zellic_io) on Twitter. If you are interested in partnering with Zellic, contact us at [hello@zellic.io](mailto:hello@zellic.io).



## 1. Introduction

We were asked to review a minor patch to Solana Examples on December 17th, which updated the versions for the Anchor Framework, Solana, oapp and utils dependencies as well as the Rust toolchain version on December 8th, 2025.

### 1.1. Scope

The engagement involved a review of the following targets:

#### Solana Examples Programs

Type	Solana
Platform	Solana
Target	Only the changes within the below commit
Repository	<a href="https://github.com/LayerZero-Labs/devtools">https://github.com/LayerZero-Labs/devtools</a> ↗
Version	7ef51d7648b4baef045e96c605a9ba5c616ee7
Programs	examples/oapp-solana/ examples/oft-solana/ examples/lzapp-migration/

## Contact Information

The following project manager was associated with the engagement:

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### 1.2. Disclaimer

This assessment does not provide any warranties about finding all possible issues within its scope; in other words, the evaluation results do not guarantee the absence of any subsequent issues. Zellic, of course, also cannot make guarantees about any code added to the project after the version reviewed during our assessment. Furthermore, because a single assessment can never be considered comprehensive, we always recommend multiple independent assessments paired with a bug bounty program.

For each finding, Zellic provides a recommended solution. All code samples in these recommendations are intended to convey how an issue may be resolved (i.e., the idea), but they may not be tested or functional code. These recommendations are not exhaustive, and we encourage our partners to consider them as a starting point for further discussion. We are happy to provide additional guidance and advice as needed.

Finally, the contents of this assessment report are for informational purposes only; do not construe any information in this report as legal, tax, investment, or financial advice. Nothing contained in this report constitutes a solicitation or endorsement of a project by Zellic.

## 2. Patch Review

This section reviews the provided patch commit.

The patch bumps Anchor version requirement from 0.29.0 to 0.31.1. The Changelog of all versions after 0.29.0 does not mention any security issue; therefore, this dependency bump should not affect the security of the example programs, and programs based on the example program template before the dependency bump do not require to be updated.

However, the newer Anchor versions have introduced several new features, fixes, and quality of life improvements, including better stability and compatibility with newer Solana/Anza versions, therefore bumping the version of the Anchor dependency is a change that makes sense.

The Anchor dependency version bump required bumping the version of other dependencies, including the rust version and Solana CLI version. These changes are also not a source of security concern. Developer documentation contained in the repository has also been updated accordingly.

The patch also updates the `oapp` and `utils` dependencies to the latest audited versions, which have been updated to support the newer Anchor version.