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[Your Name]

[Your Title]

[Your Company]

[Street Address, City, State ZIP]

May 25, 2026

[Opposing Counsel Name]

[Firm Name]

[Address]

**Re: U.S. Patent No. 12414002 — Response to Assertion of Infringement**

Dear Counsel,

We acknowledge receipt of your correspondence asserting infringement of U.S. Patent No. 12414002 (the "12414002 Patent"). After preliminary review, we have substantial concerns about the validity, enforceability, and scope of the asserted claims, summarized below. We reserve all rights and defenses.

## **1. Subject Patent — Summary**

US Patent 12414002: Low Latency Wireless Messaging

Title: Low latency wireless messaging

Assignee: Spectranet Technologies LLC

Inventors: Jeffrey C. Adams

Filing Date: November 22, 2022 (for application US17/992,410)

Issue Date: September 09, 2025

Abstract:

The patent describes technology for wireless transmission of messages to remote receiving devices. This involves receiving a message, determining transmission parameters, and transmitting the message according to those parameters. The technology also includes encoding the message to reduce latency and is designed for transmission via the ionosphere or other atmospheric layers using Medium Frequency (MF), High Frequency (HF), or...

## **2. Validity Concerns under 35 U.S.C. § 102 — Prior Art**

We have identified prior-art references that, in our preliminary view, anticipate one or more asserted claims of the 12414002 Patent:

The USPTO database confirms the existence of US patent 12414002, titled "Low latency

wireless messaging" (publication number US12414002B1).

Here's an analysis of the most relevant prior art cited against US patent 12414002, focusing on the patent citations provided in the full patent text. For each reference, a brief description and potential anticipation under 35 U.S.C. § 102 are provided. The analysis specifically looks for overlap with the independent claims (Claims 1, 15, and 18) of US12414002, which generally cover methods and devices for low-latency ionospheric HF transmission of encoded messages, especially for financial transactions.

Most Relevant Prior Art for US Patent 12414002:

1. US5426513A: Prioritized image transmission system and method

Full Citation: US5426513A

Publication Date: June 20, 1995 (Filed: June 16, 1989)

Brief Description: This patent describes a system for transmitting images, where higher priority image data is transmitted at a higher data rate than lower priority data. It focuses on efficiently transmitting data based on priority rather than...

### **3. Obviousness under 35 U.S.C. § 103**

Independent of § 102, we believe the asserted claims are obvious in view of combinations of prior art that a person having ordinary skill in the art would have been motivated to combine:

Obviousness Analysis (35 U.S.C. § 103) for US Patent 12414002

This analysis identifies potential combinations of prior art references that could render the claims of US Patent 12414002 obvious to a person having ordinary skill in the art (POSA).

Obviousness under 35 U.S.C. § 103 requires showing that the differences between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious to a POSA before the effective filing date of the claimed invention. The motivation to combine references often stems from recognized needs or problems, known methods for combining elements, or design choices and market demands.

The claimed invention focuses on low-latency wireless messaging, particularly in the HF band utilizing ionospheric propagation, with an emphasis on encoding messages to reduce latency and selecting transmission parameters based on estimated propagation latency and channel bandwidth.

Overview of Key Claims:

- Claim 1 (Method for Transmission): Receiving a message, encoding it to reduce latency, and transmitting the encoded...

### **4. Litigation History of the Patent**

Public records reflect that the 12414002 Patent has been the subject of the following litigation, which informs our view of the asserted claims and your client's enforcement posture:

- SpectraNet Technologies LLC v. Optiver Holding B.V. — 1:26-cv-05857 · Illinois Northern District Court · filed 2026-05-20 · active
- SpectraNet Technologies LLC v. IMC-Chicago, LLC et al. — 1:26-cv-05838 · Illinois Northern District Court · filed 2026-05-19 · active
- SpectraNet Technologies LLC v. Raft Technologies Ltd et al. — 1:26-cv-05870 · Illinois Northern District Court · filed 2026-05-20 · active

## 5. Request

In light of the foregoing, we request that your client (i) provide a detailed claim chart identifying each accused product or service and mapping every limitation of each asserted claim, (ii) identify any prior art known to your client, including any references cited during prosecution or reexamination, and (iii) substantiate the basis for any damages or licensing demand. We are prepared to discuss the matter further once we have received and reviewed the foregoing.

Sincerely,

[Your Name]

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