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# **MiniFW-AI for Financial Institutions**

**Presentation  
JUNE 2025**



**Since 2013**



# MiniFW-AI for Financial Institutions

- **Sector-Specific AI Firewall**
- **Powered by ARCHANGEL 2.0**
- **Developed by Sydeco**



# What is MiniFW-AI?

- AI firewall embedded in ARCHANGEL 2.0 (IA2 Bis level)
- Observes encrypted/unencrypted traffic
- Applies ML models to identify threats
- Adjusts policies dynamically and in real-time




# MiniFW-AI – 2025 Upgraded Features

- Now powered by L3 AI Engine (MLP-based)
  - Encrypted Threat Detection  
(JA3 Fingerprinting, YARA, SNI Analysis)
  - IoT Device Profiling for anomaly detection
  - Bandwidth Abuse Alerts with live flow scoring
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- Sector-specific dashboard and Zero Trust Enforcement
  - MAC-locked secure .deb installers for verified devices only
  - Full offline operation with ARCHANGEL 2.0 integration



# Key Functions in Financial Networks

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- Detects fraud patterns, bot behavior, suspicious transfers
  - Flags crypto activities, foreign logins, abnormal bursts
  - Applies risk scores to all financial flows



# Benefits for Financial Institutions

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- A background graphic of a network diagram with various sized blue nodes connected by thin lines, spanning across the middle of the slide.
- Prevents fraud, abuse, and regulatory breaches
  - Secures customer data and transaction integrity
  - Strengthens trust and reputation through proactive defense



## How It Enhances ARCHANGEL 2.0

- Adds financial-specific risk analysis to traffic flows
- Blocks suspicious activity before damage occurs
- Integrates AI scoring into Zero Trust enforcement
- Real-time decision making with regulatory reporting support



## Why It Matters

- Financial systems are prime targets for cybercrime
- A single breach can cause massive losses and fines
- MiniFW-AI defends with precision, speed, and intelligence



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