

**IT SECURITY IS
OUR MAIN
CONCERN**

MiniFW-AI for Government Agencies

**Presentation
JUNE 2025**



Since 2013



MiniFW-AI for Government Agencies

- **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 the Government Environment

- **Detects foreign DNS queries and unusual external communication**
- **Blocks unauthorized cloud uploads and data leaks**
- **Enforces strict segmentation between departments**



Benefits for Government Agencies

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- Preserves national data sovereignty
 - Blocks espionage and infiltration attempts
 - Controls and monitors internal data movement



How It Enhances ARCHANGEL 2.0

- Adds AI-based behavior detection
- Applies sector-optimized security logic
- Reinforces segmentation and zero-trust policies
- Offers real-time analytics and policy enforcement



Why It Matters

- Government systems face constant cyber threats
- Data leaks can harm national interests
- MiniFW-AI enables smart, adaptive, and autonomous defense

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