

# FIREWALL EJECTOR SEAT v2.0

## Comprehensive User Manual & Technical Documentation

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**N2NHU Labs / MTOR Foundation**

Professional Firewall Migration Solutions

**Version:** 2.0

**Document Date:** October 2025

**License:** Commercial - \$1,000 per MSP

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## Executive Summary

**FIREWALL EJECTOR SEAT v2.0** is a production-grade enterprise migration tool that automates the conversion of SonicWall firewall configurations to WatchGuard CLI format. Built for MSPs, VARs, and IT consultants, it eliminates the traditional 8-16 hour manual migration process, reducing it to minutes while maintaining 95%+ accuracy.

## Key Value Propositions

- **Time Savings:** Reduce migration time from 8-16 hours to 15 minutes
- **Error Elimination:** Automated conversion prevents human transcription errors
- **Production Ready:** Generate deployment-ready WatchGuard configurations
- **Professional Documentation:** Comprehensive reports with confidence ratings
- **Proven Scalability:** Successfully tested on 21,000+ line configurations

## Independent Validation

Third-party technical analysis by Grok AI confirms:

- **8.5/10 technical quality rating**
- **Production-ready status**
- **Strong commercial viability**
- **Enterprise-grade architecture**

# Product Overview

## What FIREWALL EJECTOR SEAT Does

FIREWALL EJECTOR SEAT transforms complex SonicWall configurations into complete, deployment-ready WatchGuard configurations through a sophisticated two-phase processing system:

### Phase 1: Foundation Builder

- Parses and converts zones, interfaces, VPN policies, and access rules
- Creates structured WatchGuard configuration foundation
- Generates comprehensive conversion reports with confidence ratings

### Phase 2: Enhancement Engine

- Adds intelligent NAT policies for connectivity
- Creates detailed service objects and groups
- Enhances access policies with granular controls
- Produces final deployment-ready configuration

## Supported Conversions

**Source:** SonicWall configurations (SonicOS Enhanced 6.5+) **Target:** WatchGuard CLI format (Firebox OS 12.0+)

### Configuration Elements:

- Security zones and zone-based policies
- Network interfaces with IP assignments
- VPN policies (Site-to-Site and Mobile VPN)
- Firewall access rules and policies
- NAT policies (auto-generated)
- Address objects (IPv4/IPv6) and groups
- Service objects and service groups

## Who Should Use This Product

### Primary Markets:

- **Managed Service Providers (MSPs)** handling multiple client migrations
- **Value Added Resellers (VARs)** bundling migrations with hardware sales
- **IT Consulting Firms** specializing in network security

### Secondary Markets:

- **Enterprise IT Departments** planning vendor transitions
- **System Integrators** working on large-scale deployments
- **Network Security Specialists** requiring rapid deployment tools

# Business Case & ROI

## Traditional Migration Costs

### Manual Migration Process:

- Senior Network Engineer: \$150/hour
- Average Migration Time: 12 hours
- Total Labor Cost: \$1,800 per firewall
- Error Rate: 15-20% requiring rework
- Additional Debugging: 4-6 hours average

**Total Cost per Manual Migration:** \$2,400-\$3,000

## FIREWALL EJECTOR SEAT ROI

### Automated Migration Process:

- Tool License: \$1,000 (unlimited migrations)
- Setup Time: 15 minutes
- Validation Time: 30 minutes
- Total Migration Cost: \$112.50 labor + \$1,000 tool

### ROI Calculation:

- **First Migration:** Save \$1,300+ in labor costs
- **Subsequent Migrations:** Save \$1,800+ each
- **Break-even:** First migration
- **10 Migrations:** \$18,000 in labor savings

## Business Impact

### For MSPs:

- **Competitive Advantage:** Bid lower on migration projects
- **Increased Margins:** Reduce delivery costs by 75%
- **Faster Deployments:** Complete migrations in same day
- **Quality Assurance:** Eliminate transcription errors

### For VARs:

- **Value-Added Service:** Bundle with hardware sales
- **Customer Satisfaction:** Faster deployment, fewer issues
- **Differentiation:** Offer automated migration capability

### For Enterprises:

- **Risk Reduction:** Minimize downtime and configuration errors
- **Cost Control:** Predictable migration costs
- **Timeline Compression:** Accelerate vendor transitions

# Technical Architecture

## Two-Phase Processing System

### Phase 1: Foundation Builder (fes-136-final.py)



Input: sonicwallconfig.txt (Raw SonicWall configuration)

Processing:

- Advanced parsing engine with error handling
- SQLite database for intelligent mapping
- Zone/interface/VPN/policy conversion
- Confidence scoring system

Output: watchguardconfig.txt (Foundation configuration)

sonicwall\_parsed.json (Structured data)

conversion\_report.txt (Detailed analysis)

### Phase 2: Enhancement Engine (fes\_phase2\_postprocessor.py)



Input: watchguardconfig.txt + sonicwall\_parsed.json

Processing:

- JSON-based data transformation
- Intelligent NAT policy generation
- Service object creation
- Policy enhancement and optimization

Output: watchguardfinal.txt (Complete deployment configuration)

## Key Technical Features

### Advanced Parsing Engine:

- Handles malformed configuration lines
- Skips irrelevant content for performance
- Processes configurations up to 21,000+ lines
- Maintains parsing accuracy above 95%

### Intelligent Mapping System:

- SQLite database for consistent zone mappings
- Confidence scoring for manual review guidance
- Fallback mechanisms for edge cases

- Optimized for SonicWall-to-WatchGuard conversions

## Production-Grade Logging:

- Comprehensive debug logging
- Real-time progress indicators
- Detailed error reporting
- Performance metrics and timing

## Quality Assurance:

- Pre-flight configuration analysis
  - Post-conversion validation
  - Confidence ratings for all conversions
  - Manual review flagging for low-confidence items
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# Features & Capabilities

## Core Migration Features

### Zone Conversion

- Maps SonicWall security zones to WatchGuard equivalents
- Preserves security policies and zone relationships
- Confidence ratings: 85-100% for standard zones
- Supports custom zone configurations

### Interface Management

- Converts physical interface assignments
- Preserves IP addressing and VLAN configurations
- Maps interface security zones correctly
- Handles complex interface configurations (portshield, etc.)

### VPN Policy Migration

- Site-to-Site VPN tunnels with all parameters
- Mobile VPN configurations with client settings
- IKE and IPSec proposal mappings
- Encryption algorithm preservation (with security warnings)

### Firewall Policy Conversion

- Access rules with source/destination mappings
- Service object references and groups
- Action mappings (allow/deny/log)
- Policy ordering preservation

### NAT Policy Generation

- Automatic NAT policy creation for connectivity
- Dynamic NAT for LAN-to-WAN traffic
- Interface-based NAT method selection
- Logging configuration for troubleshooting

## **Object Management**

- IPv4/IPv6 address objects and groups
- Service objects and service groups
- Alias creation for policy references
- Group membership preservation

## **Advanced Features**

### **Confidence Scoring System**

- Algorithmic confidence ratings for all conversions
- Manual review flagging for items below 85%
- Detailed reasoning for confidence scores
- Validation recommendations

### **Error Handling & Recovery**

- Graceful handling of malformed configurations
- Fallback parsing for unusual syntax
- Comprehensive error logging
- Recovery suggestions for failed conversions

### **Performance Optimization**

- Efficient processing of large configurations
- Memory-optimized parsing algorithms
- Progress tracking for long operations
- Scalable architecture for enterprise use

### **Reporting & Documentation**

- Detailed conversion reports with statistics
- Before/after configuration comparisons
- Manual review checklists
- Deployment validation guides

## **Quality Assurance Features**

### **Pre-Flight Analysis**

- Configuration validation before conversion
- Component counting and verification
- Syntax checking and error identification
- Compatibility assessment

### **Post-Conversion Validation**

- Output syntax verification
- Logical consistency checking
- Security policy validation
- Deployment readiness assessment

### **Professional Documentation**

- Comprehensive configuration comments

- Deployment instructions
  - Security recommendations
  - Troubleshooting guidance
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# System Requirements

## Hardware Requirements

### Minimum Specifications:

- CPU: Dual-core 2.0 GHz processor
- RAM: 4 GB available memory
- Storage: 1 GB free disk space
- Network: Standard Ethernet connectivity

### Recommended Specifications:

- CPU: Quad-core 3.0 GHz processor
- RAM: 8 GB available memory
- Storage: 10 GB free disk space (for logging and backups)
- Network: Gigabit Ethernet

## Software Requirements

### Operating Systems:

- Windows 10/11 Professional or Enterprise
- Windows Server 2019/2022
- Linux (Ubuntu 20.04+, CentOS 8+, RHEL 8+)
- macOS 11.0+ (Big Sur or later)

### Python Environment:

- Python 3.8 or later
- SQLite3 (typically included with Python)
- Standard library modules (json, argparse, pathlib, etc.)

### Dependencies:

- No external Python packages required
- All dependencies included in standard Python installation
- Portable deployment option available

## Network Access Requirements

### Firewall Access:

- Source SonicWall: SSH/HTTPS access for configuration export
- Target WatchGuard: SSH/HTTPS access for configuration import
- Management workstation: File transfer capabilities

### Internet Connectivity (Optional):

- Software updates and patches

- Technical support access
  - Documentation downloads
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# Installation Guide

## Standard Installation

### Step 1: Download Software Package



firewall-ejector-seat-v2.0.zip

```
|   └── fes-136-final.py (Phase 1 processor)
|   └── fes_phase2_postprocessor.py (Phase 2 processor)
|   └── fes_phase2a_objects.py (Object parser module)
|   └── README.txt
|   └── LICENSE.txt
|   └── examples/
|       └── sample_sonicwall_config.txt
|       └── sample_output.txt
```

### Step 2: Extract and Verify



bash

```
# Extract package
unzip firewall-ejector-seat-v2.0.zip
cd firewall-ejector-seat-v2.0
```

```
# Verify Python installation
python --version
# Should return Python 3.8 or later
```

```
# Test installation
python fes-136-final.py --help
```

### Step 3: License Activation

- Contact N2NHU Labs for license key
- No activation server required - honor system licensing
- Enterprise licenses include support entitlements

## Portable Installation

### USB/Network Drive Deployment:

- Copy entire package to portable media
- No registry entries or system modifications
- Runs directly from any location
- Ideal for consultant laptop deployments

### Docker Container (Enterprise Option):

- Pre-configured container image available
- Includes all dependencies and tools
- Scalable deployment for large organizations
- Contact support for container access

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# Operation Manual

## Basic Operation Workflow

### Phase 1: Foundation Conversion

#### 1. Prepare SonicWall Configuration



```
# Export configuration from SonicWall  
# Save as 'sonicwallconfig.txt' in working directory
```

#### 2. Run Phase 1 Conversion



```
python fes-136-final.py --debug both
```

#### 3. Review Output Files



Generated Files:

- watchguardconfig.txt (Foundation configuration)
- sonicwall\_parsed.json (Structured data)
- conversion\_report.txt (Analysis report)
- debug.log (Detailed processing log)

## Phase 2: Enhancement Processing

### 1. Run Phase 2 Post-Processor



```
python fes_phase2_postprocessor.py --debug
```

### 2. Review Final Output



Generated Files:

- watchguardfinal.txt (Complete deployment configuration)

## Command Line Options

### Phase 1 Options (fes-136-final.py)



```

# Basic conversion
python fes-136-final.py

# Custom input/output files
python fes-136-final.py --input custom_config.txt --output custom_output.txt

# Debug options
python fes-136-final.py --debug console  # Console output only
python fes-136-final.py --debug file    # File logging only
python fes-136-final.py --debug both   # Console + file logging
python fes-136-final.py --debug off    # Minimal output

# SSLVPN zone override
python fes-136-final.py --ssvpn-zone vpn # Map SSLVPN to VPN zone

```

## Phase 2 Options (fes\_phase2\_postprocessor.py)



```

# Basic post-processing
python fes_phase2_postprocessor.py

# Custom file locations
python fes_phase2_postprocessor.py --foundation custom.Foundation.txt
python fes_phase2_postprocessor.py --sonicwall-json custom_parsed.json
python fes_phase2_postprocessor.py --output final_custom.txt

```

```

# Debug mode
python fes_phase2_postprocessor.py --debug

```

## Configuration File Preparation

### SonicWall Export Process:

1. Access SonicWall Management Interface
  - Connect via HTTPS to SonicWall IP
  - Login with administrative credentials
2. Export Configuration
  - Navigate: System > Settings > Backup Settings
  - Select: "Backup Settings"
  - Choose: "Current Settings" export
  - Download configuration file

### 3. Prepare for Conversion

- Rename file to `sonicwallconfig.txt`
- Place in FIREWALL EJECTOR SEAT directory
- Verify file is readable (not corrupted)

### File Size Considerations:

- Small configs (< 5,000 lines): Process in seconds
- Medium configs (5,000-15,000 lines): Process in under 1 minute
- Large configs (15,000+ lines): Process in 1-3 minutes
- Enterprise configs (20,000+ lines): Tested successfully

## Output File Analysis

### **conversion\_report.txt**



Key Metrics:

- Total lines processed
- Components converted (zones, interfaces, VPNs, rules)
- Confidence ratings
- Manual review items
- Processing time and performance

### **watchguardconfig.txt (Phase 1 Output)**



Contents:

- Zone definitions with security settings
- Interface configurations with IP assignments
- VPN policies with encryption parameters
- Basic access rules
- Address and service objects
- Professional comments and documentation

### **watchguardfinal.txt (Phase 2 Output)**



Complete Configuration:

- All Phase 1 content enhanced
- NAT policies for connectivity
- Detailed service objects
- Enhanced access policies
- Deployment-ready CLI commands

## Quality Validation Process

### Pre-Deployment Checklist:

- 1. Review Conversion Report**
  - Check confidence ratings (target: 85%+)
  - Address manual review items
  - Verify component counts match expectations
- 2. Validate Critical Configurations**
  - Zone mappings align with security requirements
  - Interface assignments match network topology
  - VPN settings preserve connectivity requirements
  - NAT policies enable required traffic flows
- 3. Security Policy Review**
  - Access rules maintain intended restrictions
  - Service objects match application requirements
  - Logging configurations meet compliance needs
  - Security zones preserve trust boundaries
- 4. Test Deployment**
  - Deploy in lab environment first
  - Verify connectivity for critical services
  - Test VPN functionality if applicable
  - Validate logging and monitoring

## Configuration Examples

### Example 1: Small Office Migration

**Source Configuration:** SonicWall TZ 370

- 3 interfaces (LAN, WAN, DMZ)
- 1 Site-to-Site VPN
- 15 access rules
- Basic NAT for internet access

### Conversion Results:



Processing time: 12 seconds

Components converted:

- Zones: 3 (100% confidence)
- Interfaces: 3 (95% confidence)
- VPN Policies: 1 (90% confidence)
- Access Rules: 15 (95% confidence)
- NAT Policies: 2 (auto-generated)

**Deployment:** Direct paste into WatchGuard CLI - no manual modifications required.

## Example 2: Medium Enterprise Migration

**Source Configuration:** SonicWall NSA 2700

- 6 interfaces with VLANs
- 3 Site-to-Site VPNs
- 2 Mobile VPN policies
- 45 access rules
- Complex address/service objects

**Conversion Results:**



Processing time: 2 minutes 15 seconds

Components converted:

- Zones: 6 (85-100% confidence)
- Interfaces: 8 (90% confidence)
- VPN Policies: 5 (85-95% confidence)
- Access Rules: 45 (90% confidence)
- Address Objects: 23 (95% confidence)
- Service Groups: 12 (90% confidence)

**Manual Review Required:** 3 items (low-confidence zone mappings) **Deployment:** 15 minutes of validation + direct deployment

## Example 3: Large Enterprise Migration

**Source Configuration:** SonicWall NSA 6700 (21,159 lines)

- Complex multi-zone architecture
- 15+ VPN tunnels
- 100+ access rules
- Extensive object libraries
- Multiple interface types

## Conversion Results:



Processing time: 4 minutes 32 seconds

Components converted:

- Zones: 7 (85-100% confidence)
- Interfaces: 12 (90% confidence)
- VPN Policies: 18 (85-95% confidence)
- Access Rules: 127 (90% confidence)
- Address Objects: 89 (95% confidence)
- Service Groups: 34 (85% confidence)

**Independent Validation:** 8.5/10 technical quality rating (Grok AI analysis) **Production Status:** "PASTE AND DEPLOY" - fully ready for enterprise deployment

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## Troubleshooting Guide

### Common Issues and Solutions

**Issue:** "Input file not found"



Solution:

1. Verify sonicwallconfig.txt exists in current directory
2. Check file permissions (readable)
3. Use --input flag to specify alternate location
4. Ensure filename spelling is correct

**Issue:** "Parsing errors during conversion"



Diagnosis:

- Check debug.log for specific error messages
- Verify SonicWall configuration export completed successfully
- Look for unusual characters or truncated lines

Solution:

1. Re-export SonicWall configuration
2. Verify file encoding (UTF-8 recommended)
3. Use --debug both for detailed analysis
4. Contact support with debug.log if issues persist

**Issue:** "Low confidence ratings"



Analysis:

- Review conversion\_report.txt for specific items
- Check if SonicWall configuration uses non-standard settings
- Verify zone/interface naming conventions

Solution:

1. Review flagged items in manual review section
2. Adjust zone mappings if necessary
3. Validate interface assignments match network topology
4. Consider custom zone override options

**Issue:** "Missing NAT policies"



Diagnosis:

- Phase 1 may not detect implicit NAT requirements
- Phase 2 should automatically generate necessary NAT policies

Solution:

1. Ensure Phase 2 post-processor runs successfully
2. Check sonicwall\_parsed.json for access rule data
3. Verify LAN-to-WAN and WLAN-to-WAN rules exist
4. Manually add NAT policies if specific requirements exist

**Issue:** "VPN configuration incomplete"



Analysis:

- VPN policies may use non-standard encryption
- Client settings might require manual configuration

Solution:

1. Review VPN policy comments in output
2. Verify encryption algorithms are supported
3. Check pre-shared keys are properly converted
4. Validate client authentication settings
5. Test VPN connectivity in lab environment

## Performance Optimization

**Large Configuration Processing:**

- Use SSD storage for faster file I/O
- Ensure adequate RAM (8GB+ recommended)
- Close unnecessary applications during conversion
- Use --debug file to reduce console overhead

**Memory Usage Optimization:**

- Process one configuration at a time
- Clear temporary files between conversions
- Monitor system resources during processing
- Use 64-bit Python for very large configurations

## Logging and Diagnostics

**Debug Log Analysis:**



## Log Levels:

- INFO: Normal processing information
- DEBUG: Detailed parsing and conversion steps
- WARNING: Non-critical issues requiring attention
- ERROR: Critical failures requiring intervention

## Performance Metrics:

- Processing time per phase
- Memory usage statistics
- Conversion success rates
- Component-level processing time

## Support Escalation

### When to Contact Support:

- Parsing failures on valid SonicWall configurations
- Systematic low confidence ratings
- Performance issues with standard hardware
- Technical questions about complex conversions

### Support Package Preparation:

1. Original SonicWall configuration file
2. All output files (config, report, log)
3. System specifications and Python version
4. Description of unexpected behavior
5. Business impact and timeline requirements

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## Best Practices

### Pre-Migration Planning

#### Configuration Assessment:

- Document current SonicWall setup
- Identify critical services and dependencies
- Plan maintenance windows for migration
- Prepare rollback procedures

#### Testing Strategy:

- Lab environment setup and validation
- Critical service connectivity testing
- VPN functionality verification
- Security policy validation

## **Stakeholder Communication:**

- Notify users of planned migration
- Document expected service interruptions
- Prepare support contacts for issues
- Plan post-migration validation steps

## **Migration Execution**

### **Preparation Phase:**

1. Export SonicWall configuration during low-traffic period
2. Verify configuration export completeness
3. Run FIREWALL EJECTOR SEAT conversion
4. Review conversion report thoroughly
5. Address all manual review items

### **Deployment Phase:**

1. Schedule maintenance window
2. Backup current WatchGuard configuration
3. Deploy converted configuration
4. Verify basic connectivity
5. Test critical services systematically

### **Validation Phase:**

1. Confirm all interfaces are operational
2. Verify VPN tunnel establishment
3. Test firewall rule functionality
4. Validate NAT policy operation
5. Confirm logging and monitoring

## **Post-Migration Operations**

### **Security Validation:**

- Review firewall logs for policy violations
- Verify access control enforcement
- Test security service functionality
- Validate compliance requirements

### **Performance Monitoring:**

- Monitor system resource utilization
- Check network throughput and latency
- Verify logging system capacity
- Assess user experience feedback

### **Documentation Updates:**

- Update network diagrams and documentation
- Record configuration changes and customizations
- Document troubleshooting procedures
- Maintain change management records

# **Advanced Configuration Optimization**

## **Security Enhancements:**

- Upgrade VPN encryption algorithms (3DES → AES-256)
- Implement granular service objects (replace "Any" services)
- Enable advanced threat protection features
- Configure compliance logging requirements

## **Performance Tuning:**

- Optimize firewall rule ordering
- Implement traffic shaping policies
- Configure appropriate logging levels
- Enable hardware acceleration features

## **Operational Excellence:**

- Set up automated backup procedures
- Implement configuration change management
- Establish monitoring and alerting
- Create disaster recovery procedures

# **Quality Assurance Procedures**

## **Conversion Validation:**

- Compare source and target configurations
- Verify critical policy preservation
- Test edge case scenarios
- Validate security posture maintenance

## **Acceptance Testing:**

- User acceptance testing for critical services
- Performance benchmark comparisons
- Security assessment validation
- Compliance requirement verification

## **Continuous Improvement:**

- Document lessons learned
- Identify optimization opportunities
- Update migration procedures
- Enhance testing methodologies

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# **Support & Contact**

## **Technical Support**

### **N2NHU Labs / MTOR Foundation Support**

**Business Hours Support:** Monday-Friday, 9:00 AM - 5:00 PM EST

- Email: [support@n2nhulabs.com](mailto:support@n2nhulabs.com)
- Phone: Available with enterprise license
- Response Time: 4 hours for critical issues

**24/7 Emergency Support:** Enterprise license holders only

- Critical production issues
- Migration failure recovery
- Security incident support

## Documentation and Resources

**Online Resources:**

- Product documentation portal
- Video tutorials and walkthroughs
- Best practices guides
- Technical white papers

**Community Support:**

- User forums and discussions
- Knowledge base articles
- Configuration examples library
- Troubleshooting guides

**Training and Certification:**

- Migration specialist certification
- Advanced configuration workshops
- Custom training programs
- Professional services consulting

## Sales and Licensing

**Sales Contact:**

- Email: [sales@n2nhulabs.com](mailto:sales@n2nhulabs.com)
- Phone: Business hours, EST
- Web: Professional consultation scheduling

**Licensing Options:**

- MSP License: \$1,000 (unlimited migrations)
- Enterprise License: \$5,000 (unlimited, includes support)
- Annual Support: \$200/year (updates and patches)

**Volume Discounts:**

- 10+ licenses: 15% discount
- 25+ licenses: 25% discount
- 50+ licenses: Contact for custom pricing

## Professional Services

**Migration Consulting:**

- Complex configuration analysis
- Custom requirement implementation
- Migration project management
- Post-deployment optimization

#### **Custom Development:**

- Additional vendor support (Fortinet, Cisco)
- Bidirectional conversion capabilities
- Integration with management platforms
- Custom reporting and analytics

#### **Training Services:**

- On-site migration workshops
- Technical team certification
- Best practices implementation
- Operational excellence consulting

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## **Conclusion**

**FIREWALL EJECTOR SEAT v2.0** represents the industry's most advanced solution for SonicWall-to-WatchGuard firewall migrations. With proven enterprise scalability, production-grade reliability, and comprehensive automation, it transforms the traditional labor-intensive migration process into a streamlined, professional operation.

#### **Key Success Factors:**

- **Proven Technology:** Successfully tested on 21,000+ line configurations
- **Professional Quality:** 8.5/10 technical rating from independent analysis
- **Business Impact:** \$1,800+ savings per migration with improved quality
- **Enterprise Ready:** Production deployment capability with comprehensive support

#### **Get Started Today:**

- Download evaluation version
- Schedule live demonstration
- Contact sales for enterprise licensing
- Join the community of migration professionals

**Transform your firewall migration business with FIREWALL EJECTOR SEAT v2.0 - where automation meets excellence.**

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