

CRISP Platform - Comprehensive User Manual

Cyber Risk Information Sharing Platform

Secure Cyber Threat Intelligence Sharing for Educational Institutions

CRISP enables educational institutions to share anonymized threat intelligence, protecting student data while strengthening cybersecurity defenses across the education sector.

247 ACTIVE THREATS

45 INSTITUTIONS

1.2K SHARED IOCS

System Online

Table of Contents

1. Introduction
2. Getting Started
3. Role-Based Access Overview
4. Dashboard Navigation
5. Viewer User Guide
6. Publisher User Guide
7. Admin User Guide
8. BlueVision Admin Guide
9. Trust Relationship Management
10. Content Publishing & Sharing
11. Security & Compliance
12. Analytics & Reporting
13. API Reference
14. System Administration
15. Troubleshooting
16. Best Practices
17. Frequently Asked Questions
18. WOW Feature #1
19. WOW Feature #2

Introduction

Welcome to the CRISP (Cyber Risk Information Sharing Platform), a comprehensive threat intelligence sharing ecosystem designed to enhance cybersecurity through secure, collaborative information exchange between organizations.

Platform Overview

CRISP enables organizations to share threat intelligence, indicators of compromise (IoCs), and security insights while maintaining strict security controls and compliance standards. The platform supports multiple user roles with varying levels of access and functionality, ensuring that each user has the appropriate tools and permissions for their responsibilities.

Key Features

- Secure Information Sharing : Protected threat intelligence exchange between trusted organizations
- Role-Based Access Control : Four distinct user roles with appropriate permissions and capabilities
- Trust Relationship Management : Sophisticated trust networks enabling selective information sharing
- Advanced Analytics : Comprehensive reporting and analytics for threat intelligence effectiveness
- STIX Compliance : Industry-standard threat intelligence formats and protocols
- Real-Time Alerts : Immediate notification system for critical threats and updates
- Audit & Compliance : Complete audit trails and compliance reporting capabilities

Who Can Benefit

- Security Operations Centers (SOCs) : Enhanced threat detection and response capabilities
- Threat Intelligence Teams : Collaborative intelligence sharing and analysis
- IT Security Departments : Comprehensive organizational security oversight
- Incident Response Teams : Real-time threat information for faster response
- Compliance Teams : Audit trails and regulatory compliance support
- Executive Leadership : Strategic security insights and performance metrics

Getting Started

The screenshot shows the CRISP platform's main landing page. At the top, there's a navigation bar with links for Features, Benefits, About, Contact, Request Demo, and Get Started. Below the navigation is a section titled "Platform Features" with six cards. Each card has an icon and a title followed by a brief description.

- Real-Time Threat Detection:** Advanced AI-powered detection system continuously monitors and identifies emerging cyber threats across educational networks.
- Privacy-First Architecture:** Built with student data privacy at its core, ensuring FERPA compliance while enabling effective threat intelligence sharing.
- Collaborative Intelligence:** Connect with trusted educational institutions to share anonymized threat intelligence and strengthen collective defense.
- Advanced Analytics:** Comprehensive dashboards and reporting tools provide deep insights into threat landscapes and security.
- MITRE ATT&CK Integration:** Leverage the MITRE ATT&CK framework for standardized threat intelligence and tactical analysis.
- Automated Response:** Smart automation capabilities enable rapid response to detected threats and streamlined security operations.

System Requirements

Minimum Requirements

Operating System : Windows 10/11, macOS 10.14+, or Linux Ubuntu 18.04+

Web Browser : Chrome 90+, Firefox 88+, Safari 14+, or Edge 90+

Internet Connection : Broadband connection recommended

Screen Resolution : 1280x720 minimum, 1920x1080 recommended

Memory : 4GB RAM minimum, 8GB recommended

Recommended Setup

Dual Monitor : For enhanced productivity with multiple dashboards

High-Speed Internet : For real-time threat intelligence updates

Modern Browser : Latest version for optimal performance and security

Initial Account Setup

1. Account Registration

Your organization's administrator will provide you with:

Platform URL (e.g., <https://your-org.crisp-platform.com>)

Username (typically your email address)

Temporary password

Role assignment information

2. First Login Process

1. Navigate to your organization's CRISP platform URL
2. Enter your username and temporary password
3. Complete two-factor authentication setup (if required)
4. Change your temporary password to a secure password
5. Review and accept terms of service and privacy policy
6. Complete your user profile information

3. Profile Configuration

Complete your user profile with:

Personal Information : Name, department, job title
 Contact Details : Phone number, email verification
 Security Preferences : Notification settings, alert preferences
 Organizational Context : Department, security clearance level

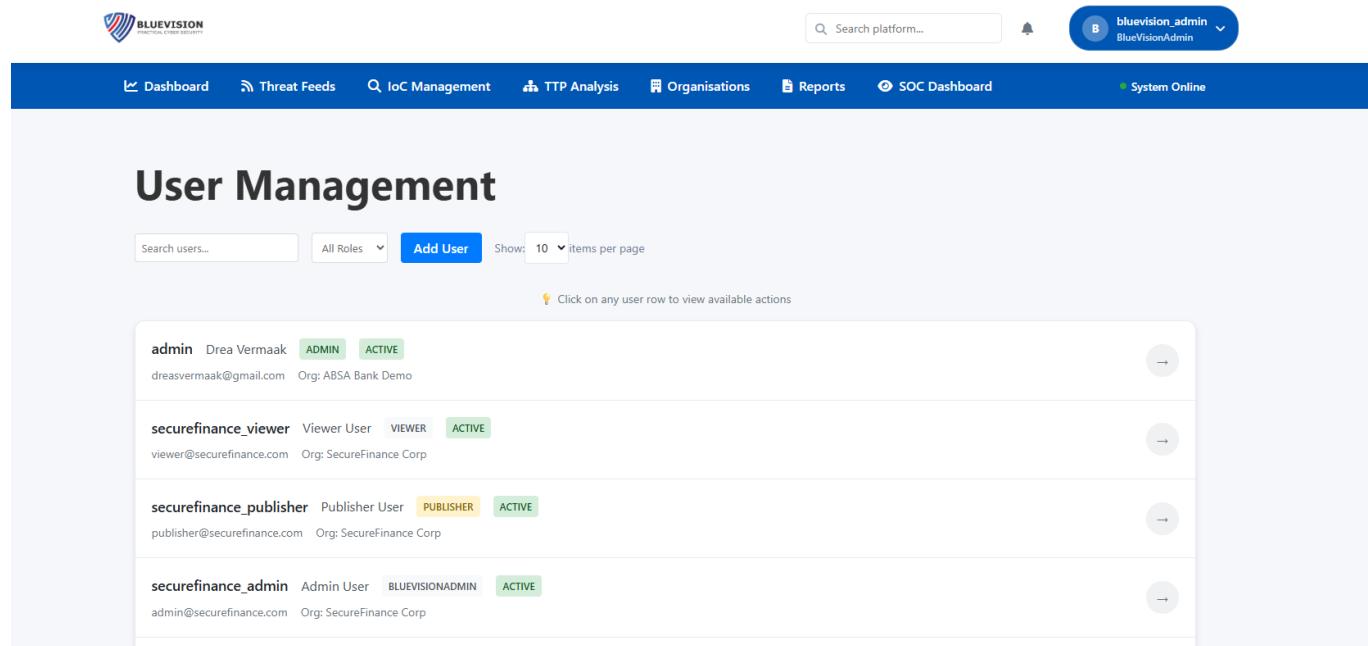
4. Security Setup

Password Requirements : Minimum 12 characters with complexity requirements
 Two-Factor Authentication : Setup using authenticator app or SMS
 Trusted Devices : Register frequently used devices
 Session Management : Configure session timeout preferences

Role-Based Access Overview

CRISP implements a hierarchical role-based access control system with four distinct user roles, each with specific capabilities and responsibilities.

Role Hierarchy



The screenshot shows the 'User Management' section of the CRISP platform. At the top, there is a search bar labeled 'Search platform...', a bell icon for notifications, and a dropdown for the current user 'bluevision_admin'. Below the header, a navigation bar includes links for Dashboard, Threat Feeds, IoC Management, TTP Analysis, Organisations, Reports, SOC Dashboard, and System Online. The main area is titled 'User Management' and contains a table of users. The columns include 'Name', 'Role', 'Status', and 'Actions'. The users listed are:

- admin (Drea Vermaak) - ADMIN, ACTIVE, dreasvermaak@gmail.com, Org: ABSA Bank Demo
- securefinance_viewer (Viewer User) - VIEWER, ACTIVE, viewer@securefinance.com, Org: SecureFinance Corp
- securefinance_publisher (Publisher User) - PUBLISHER, ACTIVE, publisher@securefinance.com, Org: SecureFinance Corp
- securefinance_admin (Admin User) - BLUEVISIONADMIN, ACTIVE, admin@securefinance.com, Org: SecureFinance Corp

Each user row has an 'Actions' button represented by a right-pointing arrow.

Role Capabilities Matrix

Capability Viewer Publisher Admin BlueVisionAdmin	
View Threat Intelligence <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	
Export Data <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	
Create Content <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	
Manage Trust Relationships <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	
Create Viewer Users <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	
Create Publisher Users <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	
Create Admin Users <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	
Create Trust Groups <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	
System Administration <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	
Cross-Org Management <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	

Role Assignment Process

Role assignments are determined by:

- Organizational Needs** : Based on job function and responsibilities
- Security Clearance** : Alignment with organizational security policies
- Business Requirements** : Access levels needed for effective job performance
- Approval Workflow** : Management approval for elevated roles

Dashboard Navigation

The screenshot shows the CRISP Threat Intelligence Dashboard. At the top, there's a header bar with the BlueVision logo, a search bar, and a user dropdown for 'bluevision_admin'.

The main dashboard area has several cards:

- Active IoCs:** 5672 (Live data)
- TPPs:** 104 (Live data)
- Threat Feeds:** 24 (Live data)
- Platform Status:** Online (Live status)

Below these cards is a section titled 'Recent Threat Intelligence' with a table:

Type	Indicator	Source	Severity	Status
Domain	jtexpress.top	AlienVault OTX Feed 1 day ago	Medium	Active 1 live
Domain	infowind.info	AlienVault OTX Feed 1 day ago	Medium	Active 1 live
Domain	teampixelspeak.top	AlienVault OTX Feed 1 day ago	Medium	Active 1 live
Other	www.reverent-dubinsky.213-226...	AlienVault OTX Feed 1 day ago	Medium	Active 1 live
Other	installer.login-xero.com	AlienVault OTX Feed 1 day ago	Medium	Active 1 live

On the right side, there's a sidebar titled 'Connected Organisations' listing various organizations with their status and activity levels.

Main Navigation Menu

The CRISP platform features a responsive navigation menu that adapts based on your user role:

Universal Navigation Elements

Dashboard : Central overview and activity feed
Threat Intelligence : Access to threat data and indicators

BlueVisionAdmin (Platform-wide administration)
↓
Admin (Organization-level administration)
↓
Publisher (Content creation and user management)
↓
Viewer (Read-only threat intelligence access)

Reports : Analytics and reporting tools
Profile : Personal account management
Help & Support : Documentation and assistance

Role-Specific Navigation

Publisher Additional Elements:

User Management : Create and manage Viewer accounts
Trust Management : Establish and maintain trust relationships
Content Publishing : Create and share threat intelligence
Email Alerts : Manage threat notification campaigns

Admin Additional Elements:

Organization Management : Configure organizational settings
Advanced User Management : Manage all user types
Trust Groups : Create and administer trust groups
Advanced Analytics : Comprehensive organizational metrics

BlueVisionAdmin Additional Elements:

System Administration : Platform-wide management
Global Analytics : Cross-organizational insights
Platform Configuration : System-level settings

Dashboard Customization

Widget Configuration

Users can customize their dashboard with:

- Threat Summary Widgets : Current threat levels and alerts
- Activity Feed : Recent actions and updates
- Analytics Charts : Visual representation of key metrics
- Quick Actions : Frequently used function shortcuts
- Trust Network Status : Health of trust relationships

Layout Options

- Grid Layout : Organize widgets in customizable grid
- Responsive Design : Automatic adjustment for different screen sizes

- Theme Selection : Light and dark mode options
- Accessibility : High contrast and screen reader support

Viewer User Guide

Overview

As a Viewer, you have read-only access to threat intelligence data within your organization's scope. This role is designed for security analysts, SOC operators, and other team members who need to consume threat intelligence without creating content or managing users.

Core Capabilities

Threat Intelligence Access

- Real-Time Feeds : Current threat intelligence from various sources
- Historical Data : Access to past threat reports and trends
- Filtered Views : Threats relevant to your organization and industry
- Source Attribution : Information about threat intelligence providers
- Confidence Levels : Reliability ratings for threat data

Dashboard Features

Threat Intelligence Summary:

- Recent threat indicators and warnings
- Critical security alerts for your organization
- Trending threat types and attack vectors

Geographic threat distribution
Industry-specific threat focus

Organization Metrics:

Security posture indicators
Recent threat intelligence updates
Alert status summary
Data freshness indicators
Trust relationship status

Quick Access Panel:

Links to recent reports

Active personal alerts
Bookmarked content
Export tools and functions

Viewing Threat Intelligence

Threat Categories:

Malware : Virus signatures, behavioral patterns, family classifications
Indicators of Compromise : IP addresses, domains, file hashes, URLs
Attack Patterns : Tactics, techniques, and procedures (TTPs)
Threat Actors : Known adversary profiles and attribution
Vulnerabilities : CVE information and exploit details
Incident Reports : Security incident summaries and lessons learned

Data Presentation:

Tabular Views : Sortable and filterable data tables
Visual Maps : Geographic and network-based visualizations
Timeline Views : Chronological threat intelligence
Relationship Graphs : Connections between threats and indicators

Search and Filtering

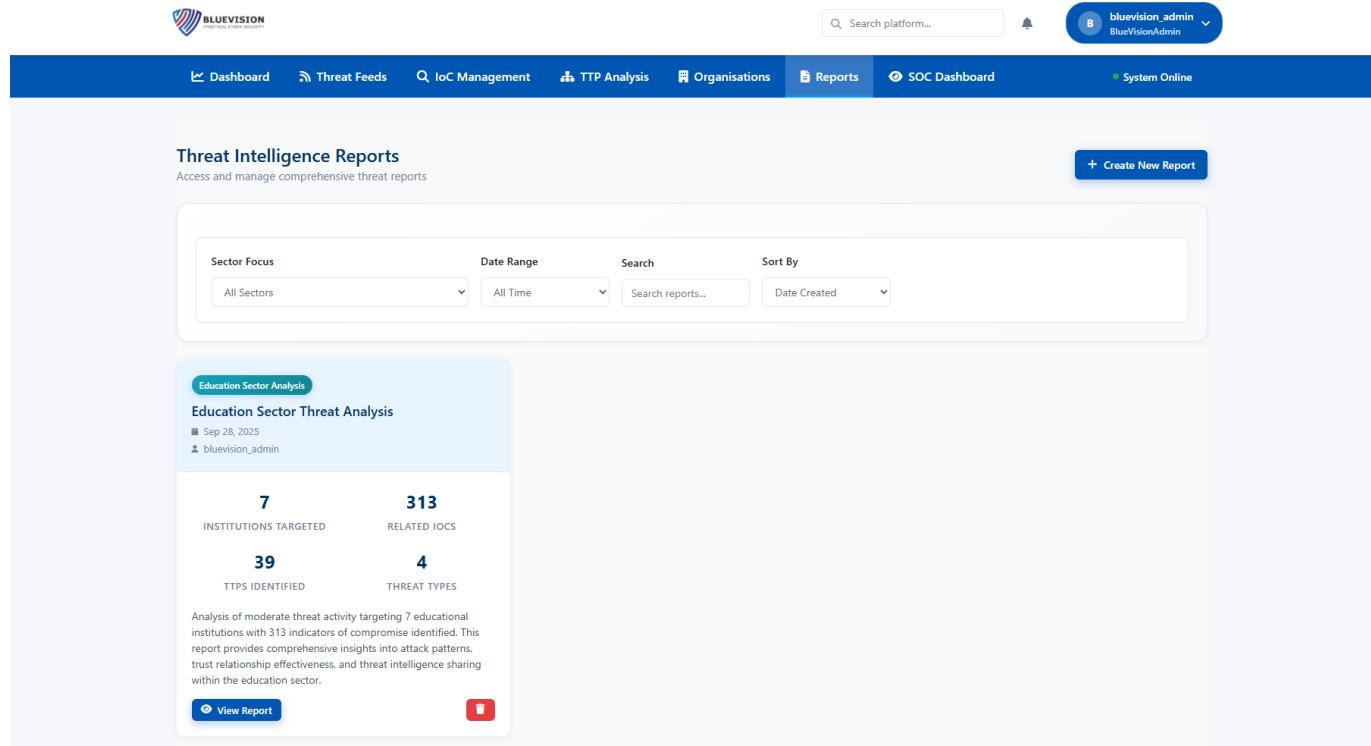
Advanced Search Capabilities:

Text Search : Full-text search across all accessible content
 Metadata Filtering : Filter by source, date, threat type, severity
 Boolean Operators : Complex search queries with AND, OR, NOT
 Saved Searches : Store frequently used search criteria
 Search History : Quick access to previous searches

Filter Options:

Date Range : Specific time periods or relative dates
 Threat Severity : Critical, high, medium, low classifications
 Source Type : Internal, external, commercial, open source
 Geographic Region : Location-based threat filtering
 Industry Sector : Sector-specific threat intelligence

Reports and Analytics



The screenshot shows the BlueVision Threat Intelligence Platform's user interface. At the top, there is a navigation bar with links for Dashboard, Threat Feeds, IoC Management, TTP Analysis, Organisations, Reports (which is the active tab), SOC Dashboard, and System Online status. On the right side of the header is a user profile for 'bluevision_admin'.

The main content area is titled 'Threat Intelligence Reports' and describes it as 'Access and manage comprehensive threat reports'. It features a search bar and filter options for 'Sector Focus' (All Sectors), 'Date Range' (All Time), 'Search' (Search reports...), and 'Sort By' (Date Created).

A specific report card is displayed for 'Education Sector Analysis' under 'Education Sector Threat Analysis'. The card includes the following data:

- INSTITUTIONS TARGETED:** 7
- RELATED IOCS:** 313
- TTPS IDENTIFIED:** 39
- THREAT TYPES:** 4

The report summary states: 'Analysis of moderate threat activity targeting 7 educational institutions with 313 indicators of compromise identified. This report provides comprehensive insights into attack patterns, threat relationship effectiveness, and threat intelligence sharing within the education sector.' Below the summary are two buttons: 'View Report' and a download icon.

Available Reports:

Threat Summary Reports : Comprehensive threat landscape overview
 Industry Reports : Sector-specific threat analysis
 Geographic Reports : Regional threat intelligence
 Trend Analysis : Historical threat pattern analysis
 IOC Reports : Detailed indicator listings

Analytics Features:

Threat Trends : Visual representation of threat patterns
Risk Assessment : Current risk levels and indicators
Performance Metrics : Platform usage and data quality
Comparative Analysis : Benchmarking against industry standards

Data Export

Export Formats:

PDF Reports : Formatted documents for sharing and archiving
CSV Data : Raw data for spreadsheet analysis
JSON Format : Structured data for technical analysis
XML/STIX : Industry-standard threat intelligence formats

Export Process:

1. Navigate to the data or report you want to export
2. Select the "Export" option
3. Choose your preferred format
4. Configure export parameters (date range, filters)
5. Submit export request
6. Download when processing is complete

Personal Alerts and Notifications

Alert Types:

Critical Threats : High-priority security concerns
Organization-Specific : Threats targeting your organization
Industry Alerts : Sector-relevant security threats
Geographic Warnings : Regional security notifications

System Updates : Platform maintenance and feature updates

Notification Management:

1. Access **Account Settings → Notifications**
2. Configure notification preferences: Email notifications In-platform alerts Alert frequency settings
3. Set alert priorities and thresholds
4. Configure quiet hours and exceptions

Best Practices for Viewers

Daily Operations

Regular Monitoring : Check dashboard and alerts daily
Threat Review : Review new threat intelligence relevant to your role
Alert Response : Respond promptly to critical notifications
Data Validation : Verify threat intelligence before acting on it

Security Practices

Secure Access : Always log out when finished
Data Handling : Follow organizational policies for threat intelligence
Sharing Guidelines : Understand what information can be shared externally
Incident Reporting : Report suspicious activity or potential security issues

Publisher User Guide

Overview

Publishers serve as organizational trust managers and content creators with significant operational authority within their organization's boundaries. This role is designed for senior security analysts, threat intelligence coordinators, and team leads who need to manage trust relationships and share threat intelligence.

Core Responsibilities

Trust Management : Establish and maintain relationships with other organizations
Content Publishing : Create and share threat intelligence securely
User Management : Manage Viewer accounts within your organization

Intelligence Sharing : Facilitate secure data exchange through trust networks
Team Coordination : Support organizational threat intelligence activities

User Management Capabilities

Creating Viewer Accounts

User Creation Process:

1. Navigate to **User Management** → **Create New User**
2. Complete user information: Personal details (name, contact information) Organizational role and department Initial security settings Access permissions and restrictions
3. Configure notification preferences
4. Send account invitation with temporary credentials
5. Monitor onboarding progress and provide support

User Profile Management:

Contact Information : Maintain current email and phone details
Role Assignment : Assign appropriate access levels
Security Settings : Configure authentication and access controls
Activity Monitoring : Track user engagement and platform usage

Account Administration

Password Management:

Reset passwords for users experiencing login issues
Enforce password policy compliance
Manage temporary password assignments
Monitor failed login attempts

Account Security:

Unlock locked user accounts
Manage two-factor authentication settings
Configure trusted device settings
Review user activity logs

Trust Relationship Management

The screenshot shows the BlueVision Trust Management interface. At the top, there's a navigation bar with the BlueVision logo, a search bar, and a user dropdown for 'bluevision admin' (BlueVisionAdmin). Below the navigation bar is a blue header bar with links for Dashboard, Threat Feeds, IoC Management, TTP Analysis, Organisations, Reports, SOC Dashboard, and System Online. The main content area has a title 'Trust Management'. Underneath, there are tabs for 'Relationships (3)', 'Groups (4)', and 'Metrics (N/A)'. A search bar and a status filter ('All Status') are also present. Three trust relationships are listed in a table:

Relationship	Type	Status
Blue Vision Technologies → SecureFinance Corp	bilateral	TRUSTED
Blue Vision Technologies → Department of Education Demo	bilateral	PUBLIC
ABSA Bank Demo → Blue Vision Technologies	bilateral	TRUSTED

Each row includes a note about pending relations.

Understanding Trust Relationships

Trust relationships enable secure information sharing between organizations while maintaining security and control. These relationships form the foundation of the collaborative threat intelligence network.

Trust Relationship Types:

Bilateral Trust:

Two-way information sharing between organizations
Mutual agreement on sharing policies and data types
Equal trust levels and reciprocal access
Balanced information exchange

Unilateral Trust:

One-way trust where your organization trusts another
Asymmetric sharing arrangements
Different trust levels based on relationship needs
Controlled information flow

Trust Groups:

Multi-organization trust networks
Shared policies and collective intelligence
Group-wide information sharing protocols
Community-driven threat intelligence

Creating Trust Relationships

Relationship Establishment Process:

- 1. Partner Identification** Research potential trust partners Evaluate organizational compatibility Assess shared security interests Review partner reputation and verification status
- 2. Relationship Configuration** Navigate to **Trust Management** → **Create Trust Relationship** Select target organization from directory

Configure trust settings:
Trust level (low, medium, high)
Sharing policy (full, selective, limited)
Data types to be shared
Access restrictions and limitations

- 3. Request Submission** Provide justification for relationship Specify expected benefits and use cases Set proposed effective dates Submit for partner review and approval
- 4. Relationship Activation** Monitor approval status Negotiate terms if needed Finalize relationship configuration Begin collaborative information sharing

API Example for Trust Relationship Creation:

Trust Group Participation

Joining Trust Groups:

Trust groups provide access to collective threat intelligence from multiple organizations, enhancing threat detection capabilities and community collaboration.

Group Benefits:

Access to aggregated threat intelligence
Broader information sharing networks

```
json
POST /api/trust/relationships/
{
  "target_organization": 123 ,
  "trust_level": "medium",
  "sharing_policy": "selective",
  "justification": "Enhanced regional threat intelligence sharing",
  "proposed_data_types": ["threat_indicators", "incident_reports"],
  "effective_date": "2024-01-01"
}
```

Enhanced threat detection capabilities
Community-driven security insights
Industry-specific intelligence sharing

Participation Process:

- Group Discovery** : Browse available trust groups by industry, region, or focus area
- Application Submission** : Request membership with organizational justification
- Requirements Compliance** : Meet group membership criteria and standards
- Approval Process** : Group administrators review and approve applications
- Active Participation** : Contribute to and benefit from group intelligence

Content Publishing

Threat Intelligence Creation

Content Types:

Threat Indicators:

IP addresses, domains, URLs associated with threats
File hashes and malware signatures

Network indicators and attack patterns
Behavioral indicators and anomalies

Incident Reports:

Security incident summaries and analysis
Attack methodology and timeline documentation
Impact assessment and lessons learned
Remediation steps and prevention measures

Alert Bulletins:

Time-sensitive threat warnings
Emergency security notifications
Industry-specific threat alerts
Geographic threat advisories

Intelligence Analysis:

Threat actor profiles and attribution
Campaign analysis and tracking

Trend analysis and forecasting
Strategic threat assessments

Publishing Workflow

Content Creation Process:

- Content Preparation** Gather and verify threat intelligence data Ensure data accuracy and completeness
Apply anonymization and sanitization procedures Review organizational sharing policies
- Content Formatting** Structure data according to CRISP standards Add metadata and categorization tags Include source attribution and confidence levels Apply Traffic Light Protocol (TLP) classifications
- Sharing Configuration** Select target organizations or trust groups Configure sharing permissions and access levels Set content expiration and update schedules Define usage restrictions and handling requirements
- Publication and Distribution** Submit content for internal review (if required) Publish to selected recipients Monitor delivery and access metrics Track content usage and effectiveness

Publishing Tools:

STIX Export Capabilities:

Export threat intelligence in industry-standard STIX format
Automated formatting and structure validation
Integration with external threat intelligence platforms
Standards-compliant data exchange

Automated Publishing:

Scheduled content publication workflows
Rule-based sharing automation
Integration with internal security tools
Bulk publishing capabilities for large datasets

Email Alert Management

Alert Campaign Creation

Campaign Types:

Critical Threat Alerts : Immediate security threats requiring urgent attention
Intelligence Updates : New threat intelligence and indicator updates
Relationship Notifications : Trust relationship status changes
System Notifications : Platform updates and maintenance alerts

Campaign Creation Process:

1. **Campaign Setup** Define alert type and priority level Create compelling subject lines and content
Configure delivery timing and scheduling Set up tracking and analytics
2. **Recipient Management** Define target audience and recipient lists Segment audiences based on roles and interests Manage recipient preferences and opt-outs Handle distribution list maintenance
3. **Content Development** Use template-based email composition Include rich text formatting and multimedia Add variable insertion and personalization Preview and test before sending
4. **Delivery and Analytics** Schedule immediate or delayed delivery Monitor delivery status and success rates Track open rates and engagement metrics Analyze campaign effectiveness

Email Configuration

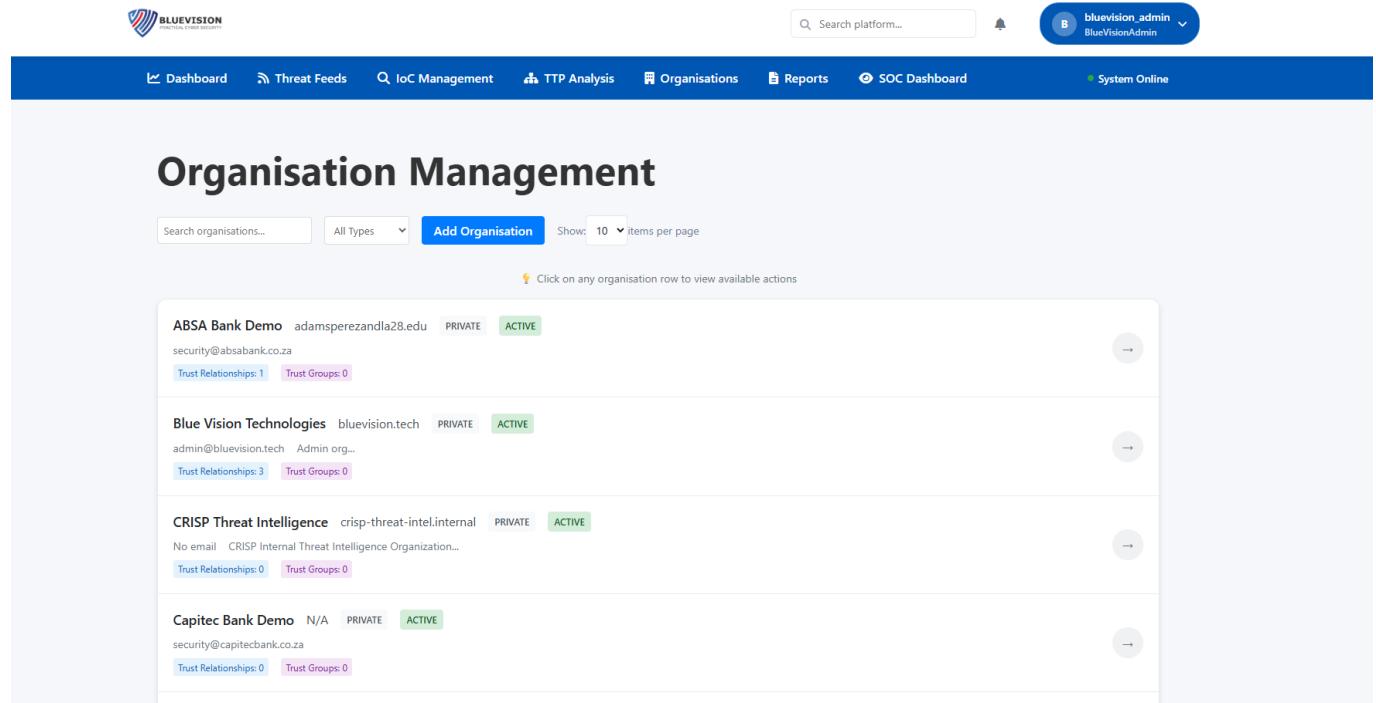
SMTP Setup:

Configure email service providers (Gmail SMTP, SMTP2GO, etc.)
Set up authentication and security settings
Configure delivery parameters and rate limits
Test email connectivity and deliverability

Template Management:

Create custom email templates for different alert types
 Implement organization branding and styling
 Use variable insertion for dynamic content
 Maintain template versions and updates

Organization Profile Management



The screenshot shows the BlueVision platform's Organization Management section. At the top, there is a navigation bar with links for Dashboard, Threat Feeds, IoC Management, TTP Analysis, Organisations, Reports, SOC Dashboard, and a System Online status indicator. On the far right of the top bar, there is a user profile for 'bluevision.admin'.

The main area is titled 'Organisation Management'. It features a search bar, a dropdown for 'All Types', a blue button for 'Add Organisation', and a dropdown for 'Show: 10 items per page'. Below this, a note says 'Click on any organisation row to view available actions'.

The list of organizations includes:

- ABSA Bank Demo**: adamsperezandia28.edu, PRIVATE, ACTIVE. Details: security@absabank.co.za. Trust Relationships: 1, Trust Groups: 0.
- Blue Vision Technologies**: bluevision.tech, PRIVATE, ACTIVE. Details: admin@bluevision.tech, Admin org... Trust Relationships: 3, Trust Groups: 0.
- CRISP Threat Intelligence**: crisp-threat-intel.internal, PRIVATE, ACTIVE. Details: No email, CRISP Internal Threat Intelligence Organization... Trust Relationships: 0, Trust Groups: 0.
- Capitec Bank Demo**: N/A, PRIVATE, ACTIVE. Details: security@capitecbank.co.za. Trust Relationships: 0, Trust Groups: 0.

Profile Maintenance

Organization Information Updates:

Basic Details : Name, description, contact information
 Classification : Industry type, organization size, operational focus
 Geographic Presence : Locations, time zones, operational areas
 Verification Status : Maintain verification credentials
 Policies : Update sharing policies and data handling procedures

Profile Update Process:

1. Navigate to **Organization Settings**
2. Review current profile information
3. Update relevant sections: Contact information and website, Organization description and mission, Industry classification and focus areas, Geographic and operational scope
4. Configure sharing preferences and policies
5. Submit updates for review and approval

Analytics and Reporting

Publisher Analytics

User Management Metrics:

- User creation and management trends
- User activity and engagement patterns
- Training effectiveness and completion rates
- User satisfaction and feedback analysis

Trust Relationship Analytics:

- Relationship health and performance metrics
- Network growth and expansion opportunities
- Information sharing effectiveness
- Partner engagement and collaboration levels

Content Publishing Metrics:

- Publication frequency and volume statistics
- Content quality and relevance scores
- Recipient engagement and feedback
- Intelligence sharing impact assessment

Report Generation

Standard Reports:

- Trust relationship status and health reports
- User activity and engagement summaries
- Content publication and distribution statistics
- Organization performance and metrics analysis

Custom Reporting:

- Build custom reports using drag-and-drop interface
- Select specific metrics and KPIs
- Configure flexible date ranges and filters
- Export in multiple formats (PDF, CSV, Excel)

Admin User Guide

Overview

Admins represent the highest level of organizational authority in CRISP, with comprehensive management capabilities over their organization's entire platform presence. This role encompasses strategic leadership, operational management, security oversight, and community engagement.

Core Administrative Authority

Complete User Management

User Creation Across All Roles:

Viewers : Standard read-only threat intelligence access
Publishers : Content creation and limited user management
Admins : Full organizational administration (peer level)
Role Assignment : Strategic role assignment based on organizational needs

Advanced User Creation Process:

1. **Navigate to User Management → Create New User**
2. **Complete Comprehensive User Profile:** Personal information and contact details Organizational role and department assignment Security clearance and access requirements Initial password and authentication setup
3. **Configure Role and Permissions:** Select appropriate CRISP role Set specific permissions and access levels Configure data classification permissions Establish trust relationship access rights
4. **Security Configuration:** Multi-factor authentication requirements Account security policies and restrictions Session management and timeout settings Trusted device and location configuration
5. **Onboarding and Training:** Assign required training modules Set onboarding milestones and checkpoints Configure mentorship and support

Establish performance monitoring

User Lifecycle Management:

Advanced User Operations:

Role Modifications : Promote or demote users based on organizational changes
Permission Adjustments : Fine-tune access levels and capabilities
Bulk Operations : Mass user creation, updates, and role changes
Account Security : Manage locks, resets, and security incidents

User Analytics and Monitoring:

Performance Metrics : User activity, engagement, and productivity
Behavioral Analysis : Login patterns, feature usage, collaboration metrics
Security Monitoring : Risk indicators and security behavior analysis
Training Effectiveness : Completion rates and knowledge retention

Full Organization Administration

Organization Profile Management:

Core Configuration:

```
Basic Information : Name, description, mission, contact details  
Industry Classification : Type, size, operational focus  
Geographic Presence : Locations, time zones, operational areas  
Verification Management : Status, credentials, compliance frameworks  
Legal and Compliance : Regulatory requirements and frameworks
```

Advanced Configuration Example:

```
json
```

Policy Management:

Information Sharing Policies:

```
Classification Standards : Define organizational data classification  
Sharing Guidelines : Rules for information distribution  
Trust Relationship Policies : Standards for relationship establishment  
Content Publishing Rules : Publication standards and guidelines
```

Security and Compliance Policies:

```
Access Control Policies : User access and permission standards  
Authentication Requirements : MFA and security standards  
Audit and Monitoring : Logging and incident response procedures  
Data Retention : Information lifecycle and retention policies
```

Advanced Trust System Management

Trust Group Creation and Administration:

Trust groups enable multi-organizational collaboration and are a unique capability of Admin-level users.

Trust Group Creation Process:

1. **Navigate to Trust Management → Create Trust Group**
2. **Group Configuration:** Group name, description, and purpose Membership criteria and requirements

```
PUT /api/organizations/current/
{
  "name": "SecureOrg Inc",
  "description": "Leading cybersecurity services provider",
  "industry": "cybersecurity",
  "size": "large",
  "website": "https://secureorg.com",
  "verification_status": "verified",
  "compliance_frameworks": ["ISO27001", "NIST", "SOC2"],
  "sharing_policies": {
    "default_classification": "restricted",
    "auto_sharing_enabled": false,
    "trust_group_participation": true
  }
}
```

Sharing policies and data classification standards
Governance structure and decision-making processes

3. **Initial Membership:** Invite founding member organizations Set membership approval processes Define roles and responsibilities Establish communication protocols
4. **Policy Framework:** Information sharing agreements Security requirements and compliance frameworks Dispute resolution procedures Performance metrics and evaluation criteria

Trust Group Management API Example:

Ongoing Group Administration:

```
json
POST /api/trust/groups/
{
  "name": "Regional Financial Services ISAC",
  "description": "Information sharing for regional financial institutions",
  "industry_focus": "financial_services",
  "geographic_scope": "northeast_region",
  "membership_criteria": {
    "industry": "financial_services",
    "verification_required": true,
    "minimum_trust_score": 75
  },
  "sharing_policy": {
    "default_classification": "restricted",
    "member_only_sharing": true,
    "retention_period": "365_days"
  },
  "governance": {
    "voting_threshold": 0.6,
    "leadership_rotation": "annual",
  }
}
```

```
"dispute_resolution": "mediation"  
}  
}
```

Membership Management:

Recruitment : Identify and invite potential members
Application Review : Evaluate applications against criteria
Onboarding : Facilitate new member integration
Performance Monitoring : Track participation and contribution
Conflict Resolution : Mediate disputes and maintain relationships

Group Operations:

Policy Development : Create and update group procedures
Communication : Facilitate group collaboration
Event Management : Organize meetings and training
Performance Monitoring : Track effectiveness and satisfaction
Continuous Improvement : Implement operational improvements

System Health Monitoring

Comprehensive System Oversight

System Health Dashboard (/api/v1/admin/system-health/):

Database Health Monitoring:

Connection Status : Monitor database connectivity and performance
Query Performance : Track slow queries and optimization needs
Storage Utilization : Monitor growth and capacity planning
Backup Status : Verify backup completion and integrity
Replication Health : Monitor synchronization and data consistency

Authentication System Health:

Login Success Rates : Track authentication performance
Session Management : Monitor active sessions and cleanup
Security Service Status : Verify MFA and device management
Failed Authentication Tracking : Monitor suspicious activity
Token Management : Monitor JWT performance and validation

Trust System Health:

Relationship Status : Monitor trust relationship availability
Service Performance : Track response times and error rates

Group Health : Monitor activity and member participation
Audit Integrity : Verify logging and data integrity
Score Calculations : Monitor trust score accuracy

Performance Monitoring

Application Performance:

API Response Times : Monitor endpoint performance
User Experience Metrics : Track page loads and interactions
Error Rates : Monitor application errors and exceptions
Resource Utilization : Track CPU, memory, and network usage
Scalability Metrics : Monitor capacity and scaling needs

Data Quality and Integrity:

Validation Processes : Monitor data quality checks
Synchronization Status : Track data sync between systems
Backup Verification : Verify backup integrity and restoration
Audit Trail Integrity : Ensure log completeness and accuracy
Compliance Monitoring : Monitor regulatory compliance

Security and Audit Administration

Security Event Monitoring

Security Events Dashboard (</api/v1/admin/security-events/>):

Authentication Security:

Failed Login Attempts : Monitor and investigate suspicious activity
Account Lockouts : Track automated and manual lockouts
Unusual Access Patterns : Detect anomalous user behavior
MFA Events : Monitor two-factor authentication usage
Session Anomalies : Detect hijacking and unauthorized access

Data Access Security:

Unauthorized Access Attempts : Monitor restricted data access
Data Export Monitoring : Track exports and potential exfiltration
Permission Escalation : Detect unauthorized privilege attempts
Cross-Organizational Access : Monitor trust relationship usage

API Abuse Detection : Identify unusual usage patterns

Comprehensive Audit Management

Enhanced Audit Logging (/api/v1/admin/audit-logs/):

Complete Audit Trail Access:

User Activities : Comprehensive logging of all user actions
Administrative Actions : Detailed logs of admin decisions
System Changes : Complete configuration and policy changes
Data Access : Detailed logging of access and modifications
Security Events : Comprehensive incident and response logging

Advanced Audit Analytics (/api/v1/admin/comprehensive-audit-logs/):

Audit Categories:

Authentication Events : Login patterns, failures, security incidents
Authorization Events : Permission changes, role modifications
Data Events : Information access, modification, deletion, sharing
Trust Events : Relationship creation, modification, termination
Administrative Events : System configuration and user management

Advanced Analytics and Reporting

Strategic Business Intelligence

Organizational Performance Metrics:

User Growth and Retention : Track acquisition and retention rates
Trust Network Analysis : Monitor network expansion and effectiveness
Content Impact Measurement : Assess publishing effectiveness
Security Posture Improvements : Track security enhancements

json

GET /api/v1/admin/comprehensive-audit-logs/?filters={

```
"user_id": 123 ,  
"date_from": "2024-01-01",  
"date_to": "2024-12-31",  
"event_type": "trust_relationship_creation",  
"severity": "high"  
}
```

ROI and Value Measurement : Quantify platform value

Competitive Intelligence:

Market Positioning : Analyze position in threat intelligence community
Capability Comparison : Compare performance against peers
Innovation Tracking : Monitor platform innovation adoption
Industry Trends : Track emerging threat landscape changes
Strategic Opportunities : Identify growth and development opportunities

Custom Reporting and Dashboards

Advanced Report Generation:

Drag-and-Drop Builder : Create custom reports with intuitive interface
Multi-Dimensional Analysis : Analyze across multiple metrics
Dynamic Filtering : Apply complex conditional logic
Real-Time Data : Access live dashboard updates
Automated Scheduling : Schedule report generation and distribution

Executive Reporting:

Executive Dashboards : High-level strategic KPI visualization
Board Reports : Governance reports for board presentation
Regulatory Reports : Compliance reporting for external stakeholders
Performance Reviews : Regular assessment and improvement tracking
Strategic Planning : Data-driven strategic planning insights

BlueVision Admin Guide

Overview

BlueVision Admin represents the highest-level administrative role in the CRISP system, with system-wide administrative capabilities across all organizations and users. This role manages the entire platform infrastructure, ensures security and compliance, and oversees global platform operations.

System-Wide Administrative Powers

Comprehensive User Management

Global User Administration:

Cross-Organizational Access : Manage users across all organizations

Role Assignment Authority : Grant any role to any user

Account Security Management : Global account lockout and security controls

Session Management : Monitor and control sessions platform-wide

Security Incident Response : Respond to security events across the platform

User Creation and Management:

Account Security Actions:

Account Unlock API (/api/v1/admin/unlock-account/):

Global Organization Management

Organization Oversight:

Creation and Configuration : Set up new organizations

Verification Management : Control organization verification status

Compliance Monitoring : Ensure platform-wide compliance

Resource Allocation : Manage organizational resources and limits

Policy Enforcement : Implement platform-wide policies

```
json
POST /api/v1/admin/users/
{
  "email": "admin@organization.com",
  "first_name": "Jane",
  "last_name": "Admin",
  "role": "admin",
  "organization": "target_organization_id",
  "department": "IT Security",
  "security_clearance": "high",
  "requires_2fa": true,
  "onboarding_required": true
}
```

```
json
POST /api/v1/admin/unlock-account/
{
  "user_id": 123 ,
  "reason": "Administrative unlock after security review"
}
```

Organization Administration Interface:

Complete Organizational Profiles : Manage all organizational information
User Distribution : Monitor user allocation across organizations
Trust Relationship Oversight : Supervise inter-organizational connections
Performance Analytics : Platform-wide organizational metrics

Trust System Administration

Global Trust Oversight

Trust Relationship Authority:

Create Relationships : Between any organizations (bypasses ownership checks)
Approve/Deny Requests : All trust relationship requests require BlueVision approval
Modify Trust Levels : Adjust sharing permissions and access levels globally
Trust Group Oversight : Create and manage platform-wide trust groups
Relationship Auditing : Monitor all trust activities across the platform

Trust Administration Dashboard (</api/v1/admin/trust-overview/>):

Key Metrics:

Total trust relationships across the platform
Trust relationship effectiveness scores platform-wide
Pending approval requests from all organizations
Trust group membership statistics and health
Cross-organizational collaboration metrics

Trust Management Actions:

Create Trust Relationships:

```
json
POST /api/trust-relationships/
{
```

```
"source_organization": 1 ,  
"target_organization": 2 ,  
"trust_level": "high",  
"sharing_policy": "selective",  
"admin_approval": true,  
"bluevision_override": true  
}
```

Trust Group Management:

Create trust groups spanning multiple organizations
Manage group memberships and permissions globally
Set platform-wide sharing policies
Monitor group activity and effectiveness across all groups
Resolve trust disputes and conflicts

Trust Audit and Monitoring

Global Trust Metrics:

Platform-Wide Usage : Monitor trust relationship utilization
Effectiveness Analysis : Measure trust relationship value
Security Monitoring : Detect trust-related security events
Compliance Reporting : Generate platform compliance reports
Performance Optimization : Identify improvement opportunities

Security and Audit Management

Platform-Wide Security Monitoring

Security Events Dashboard (</api/v1/admin/security-events/>):

Global Security Monitoring:

Failed Login Attempts : Track suspicious activity across all organizations
Account Lockouts : Monitor security lockouts platform-wide
Unusual Access Patterns : Detect anomalous behavior across users
Trust Violations : Monitor unauthorized access attempts globally
Data Breach Detection : Identify potential security incidents

Authentication Security Management:

Multi-Factor Authentication : Monitor MFA usage and enforcement
Session Security : Track session anomalies and hijacking attempts

Device Management : Monitor trusted device registrations globally
Password Security : Enforce password policies and monitor breaches

Comprehensive Audit Management

System-Wide Audit Trail (/api/v1/admin/audit-logs/):

Complete Platform Audit:

User Authentication : All login and authentication events
Authorization Events : Permission changes and role modifications
Data Access : Information access and modification across organizations
Trust Events : All trust relationship activities
Administrative Actions : System configuration and management changes

Enhanced Audit Features (/api/v1/admin/comprehensive-audit-logs/):

Advanced Filtering Example:

Audit Categories:

Authentication Events : Logins, logouts, failed attempts globally
Authorization Events : Permission changes across all organizations
Data Events : Information access, modifications, deletions platform-wide
Trust Events : Relationship creation, modification, termination
Administrative Events : System configuration and user management

System Health Monitoring

Real-Time Platform Health

System Health Dashboard (/api/v1/admin/system-health/):

Database Health:

Connection Status : Database connectivity and performance monitoring
Query Performance : Slow query detection and optimization
Storage Utilization : Database size and growth trend analysis
Backup Status : Backup completion and integrity verification
Replication Health : Data synchronization monitoring

Authentication System Health:

Login Success Rates : Authentication system performance tracking
Session Management : Active session counts and cleanup processes

□ □

json

```
GET /api/v1/admin/comprehensive-audit-logs/?user= 123 &date_from= 2024 -01-01&event_type=trust_creation&organi
```

Security Service Status : 2FA, device management, password services

Failed Authentication Tracking : Suspicious activity detection

Token Management : JWT token generation and validation monitoring

Trust System Health:

Trust Relationship Status : Active and inactive relationships

Trust Service Performance : Response times and error rates

Trust Group Health : Group membership and activity status

Trust Audit System : Audit logging performance and integrity

Trust Score Calculations : Trust score computation monitoring

Performance Monitoring:

API Response Times : Monitor endpoint performance platform-wide

User Activity Levels : Track platform usage patterns

Resource Utilization : Server performance and capacity monitoring

Error Rates : Application error monitoring and alerting

Scalability Metrics : Platform scaling and capacity planning

Platform Configuration and Management

System Configuration

Global Settings Management:

Platform Policies : Configure platform-wide policies and standards

Security Settings : Implement global security configurations

Integration Management : Manage third-party integrations

Feature Flags : Enable/disable features across organizations

Resource Limits : Set organizational resource quotas and limits

Maintenance and Updates:

Scheduled Maintenance : Plan and coordinate maintenance windows
Update Management : Deploy platform updates and security patches
Capacity Planning : Monitor growth and plan infrastructure scaling
Performance Tuning : Optimize platform performance and responsiveness
Disaster Recovery : Maintain and test disaster recovery procedures

Emergency Response Procedures

Security Incident Response

Critical Issue Escalation:

Security Incident Response Process:

1. **Immediate Assessment** : Quickly assess incident severity and impact
2. **Containment** : Implement immediate containment measures
3. **Investigation** : Conduct thorough incident investigation
4. **Communication** : Notify affected organizations and stakeholders
5. **Recovery** : Implement recovery procedures and service restoration
6. **Post-Incident Review** : Analyze incident and implement improvements

System Outage Response:

1. **Impact Assessment** : Assess outage scope and business impact
2. **Communication** : Notify all users and stakeholders
3. **Resolution** : Coordinate with technical teams on resolution
4. **Monitoring** : Monitor restoration progress and system stability
5. **Documentation** : Document outage cause and resolution steps
6. **Prevention** : Implement measures to prevent future occurrences

Trust Relationship Management

Understanding Trust Relationships

Trust relationships form the foundation of secure information sharing in CRISP, enabling organizations to collaborate on threat intelligence while maintaining security and control over sensitive information.

Trust Relationship Framework

Relationship Types

Bilateral Trust Relationships:

Mutual Information Sharing : Two-way exchange of threat intelligence
Equal Partnership : Balanced sharing arrangements between organizations
Reciprocal Access : Both organizations have equal access to shared data
Symmetric Trust Levels : Similar trust levels and sharing policies

Unilateral Trust Relationships:

One-Way Information Flow : Single direction information sharing

Asymmetric Arrangements : Different levels of access and sharing

Source Protection : Protecting sensitive source information

Controlled Distribution : Limited and controlled information flow

Trust Groups:

Multi-Organization Networks : Collaborative sharing among multiple organizations

Collective Intelligence : Aggregated threat intelligence from all members

Shared Standards : Common policies and procedures across the group

Community Governance : Democratic decision-making and group management

Trust Levels

High Trust Level:

Full Information Sharing : Complete access to threat intelligence

Real-Time Sharing : Immediate sharing of critical threats

Bidirectional Flow : Full two-way information exchange

Minimal Restrictions : Limited sharing restrictions and constraints

Medium Trust Level:

Selective Sharing : Curated information sharing based on relevance

Delayed Sharing : Information shared after initial internal analysis

Partial Access : Limited access to specific types of information

Moderate Restrictions : Some limitations on information usage

Low Trust Level:

Limited Information Sharing : Minimal sharing of basic threat indicators

Public Information Only : Sharing of non-sensitive, public information

One-Way Flow : Primarily receiving rather than sharing information

Strict Restrictions : Significant limitations on information access and use

Trust Relationship Lifecycle

Establishment Phase

Partner Discovery and Evaluation:

1. **Research Potential Partners** : Identify organizations with compatible interests
2. **Due Diligence** : Verify organization legitimacy and security posture
3. **Compatibility Assessment** : Evaluate shared security interests and goals
4. **Risk Analysis** : Assess potential risks and benefits of partnership

Relationship Negotiation:

1. **Initial Contact** : Establish communication with potential partner
2. **Scope Definition** : Define the scope and objectives of the relationship
3. **Policy Alignment** : Ensure compatible sharing policies and procedures
4. **Agreement Terms** : Negotiate specific terms and conditions

Technical Configuration:

1. **Access Setup** : Configure technical access and authentication
2. **Data Classification** : Establish data classification and handling procedures
3. **Sharing Protocols** : Implement sharing protocols and procedures
4. **Testing** : Test information sharing capabilities and procedures

Operational Phase

Ongoing Management:

Regular Communication : Maintain regular contact with trust partners
Performance Monitoring : Track relationship effectiveness and value
Policy Compliance : Ensure adherence to agreed-upon policies
Issue Resolution : Address conflicts and problems promptly

Relationship Optimization:

Feedback Collection : Gather feedback from both organizations
Performance Analysis : Analyze sharing effectiveness and impact
Adjustment Implementation : Make necessary adjustments to improve value
Expansion Opportunities : Identify opportunities to expand cooperation

Review and Renewal

Periodic Review Process:

1. **Performance Evaluation** : Assess relationship effectiveness and value
2. **Policy Review** : Review and update sharing policies as needed
3. **Risk Assessment** : Re-evaluate risks and security considerations

4. Stakeholder Feedback : Collect feedback from internal stakeholders

Renewal or Termination:

1. **Renewal Decision** : Decide whether to continue the relationship
2. **Term Renegotiation** : Update terms and conditions as needed
3. **Termination Process** : If needed, properly terminate the relationship
4. **Transition Planning** : Plan for data handling and access changes

Trust Group Management

Trust Group Structure

Group Governance:

Leadership Structure : Defined roles and responsibilities for group leaders
Decision-Making Process : Democratic or consensus-based decision making
Policy Development : Collaborative development of group policies
Conflict Resolution : Procedures for resolving disputes and conflicts

Membership Management:

Membership Criteria : Clear requirements for group membership
Application Process : Structured process for evaluating new members
Onboarding Procedures : Comprehensive onboarding for new members
Member Responsibilities : Clear expectations for member participation

Group Operations

Information Sharing:

Shared Intelligence Pool : Centralized repository of group intelligence
Contribution Requirements : Expectations for member contributions
Access Controls : Role-based access to group information
Quality Standards : Standards for information quality and reliability

Communication and Collaboration:

Regular Meetings : Scheduled meetings for group coordination
Communication Channels : Secure communication platforms and procedures
Working Groups : Specialized groups for specific topics or projects
Knowledge Sharing : Formal and informal knowledge sharing activities

Trust Metrics and Analytics

Relationship Performance Metrics

Quantitative Metrics:

Sharing Volume : Amount of information shared between partners
Sharing Frequency : Frequency of information sharing activities
Response Time : Time to share critical threat information
Access Patterns : Patterns of information access and usage

Qualitative Metrics:

Information Quality : Relevance and accuracy of shared information
Relationship Health : Overall health and satisfaction with the relationship
Mutual Benefit : Perceived value and benefit by both parties
Trust Level : Level of trust and confidence in the partnership

Trust Network Analysis

Network Visualization:

Relationship Mapping : Visual representation of trust relationships
Network Topology : Analysis of network structure and connections
Influence Analysis : Identification of influential nodes and connections
Growth Patterns : Analysis of network growth and expansion

Network Health Assessment:

Connectivity Metrics : Measures of network connectivity and reach
Redundancy Analysis : Assessment of network resilience and redundancy
Vulnerability Assessment : Identification of potential vulnerabilities
Optimization Opportunities : Identification of network improvement opportunities

Content Publishing & Sharing

Content Creation Framework

Threat Intelligence Content Types

Indicators of Compromise (IoCs): IoC Management

Network Indicators : IP addresses, domains, URLs, network signatures
File Indicators : File hashes, malware signatures, behavioral patterns
System Indicators : Registry keys, file paths, process names
Email Indicators : Sender addresses, subject patterns, attachment hashes

Threat Reports:

Incident Analysis : Detailed analysis of security incidents
Threat Actor Profiles : Information about specific threat actors
Campaign Analysis : Analysis of attack campaigns and operations
Technical Analysis : Deep technical analysis of threats and vulnerabilities

Alerts and Bulletins:

Critical Alerts : Time-sensitive warnings about immediate threats
Industry Bulletins : Sector-specific threat information
Geographic Alerts : Location-based threat warnings
Tactical Alerts : Specific recommendations for defensive actions

Strategic Intelligence:

Trend Analysis : Long-term threat trends and patterns
Risk Assessments : Comprehensive risk analysis and assessment
Threat Landscape Reports : Overview of current threat environment
Predictive Intelligence : Forward-looking threat predictions

Content Standards and Quality

Data Quality Requirements:

Accuracy : Verification of information accuracy and reliability
Completeness : Comprehensive information with sufficient detail
Timeliness : Current and relevant information
Source Attribution : Clear attribution and source information

Content Structure Standards:

STIX Compliance : Adherence to STIX format standards
Metadata Requirements : Complete and accurate metadata
Classification Standards : Proper classification and handling markings
Format Consistency : Consistent formatting and presentation

Content Publishing Process

Pre-Publication Phase

Content Development:

1. **Information Gathering** : Collect relevant threat intelligence data
2. **Analysis and Verification** : Analyze and verify information accuracy
3. **Content Creation** : Develop structured content following standards
4. **Internal Review** : Conduct internal review and quality assurance

Content Preparation:

1. **Format Validation** : Ensure compliance with format standards
2. **Classification Assignment** : Apply appropriate classification levels
3. **Metadata Addition** : Add comprehensive metadata and tags
4. **Quality Check** : Final quality assurance before publication

Publication Configuration

Audience Selection:

Target Organizations : Select specific recipient organizations
Trust Groups : Publish to trust groups and communities
Public Distribution : Make available to public threat intelligence feeds
Custom Distribution : Create custom distribution lists

Sharing Permissions:

Access Levels : Define who can access the content
Usage Restrictions : Specify how content can be used
Redistribution Rights : Control further distribution of content
Expiration Settings : Set content expiration and refresh schedules

Publication Settings:

json

Post-Publication Management

Distribution Monitoring:

Delivery Tracking : Monitor content delivery to recipients
Access Analytics : Track who accesses the content and when
Usage Patterns : Analyze how content is being used
Feedback Collection : Gather feedback from recipients

Content Maintenance:

Updates and Revisions : Publish updates and corrections
Version Control : Maintain version history and changes
Lifecycle Management : Manage content through its lifecycle
Archive Management : Archive outdated or expired content

STIX Integration and Export

STIX Format Support

STIX Objects:

Indicators : Threat indicators in STIX format
Malware : Malware analysis and characteristics
Attack Patterns : Tactics, techniques, and procedures
Threat Actors : Adversary profiles and attribution
Campaigns : Attack campaign information
Intrusion Sets : Collections of related activities

```
POST /api/content/publish/
{
  "title": "Critical Malware Campaign Alert",
  "content_type": "alert",
  "classification": "TLP:AMBER",
  "target_audiences": ["trust_group_123", "organization_456"],
  "sharing_policy": {
    "redistribution": "restricted",
    "modification": "prohibited",
    "attribution": "required"
  },
  "expiration_date": "2024-12-31",
  "auto_update": true
}
```

STIX Relationships:

Indicator-to-Malware : Link indicators to specific malware
Actor-to-Campaign : Connect threat actors to campaigns
Pattern-to-Technique : Map attack patterns to techniques
Campaign-to-Infrastructure : Link campaigns to infrastructure

Export Capabilities

STIX Export Process:

1. Content Selection : Select content for export

2. **Format Conversion** : Convert to STIX format
3. **Validation** : Validate STIX format compliance
4. **Export Generation** : Generate export package
5. **Download and Distribution** : Provide secure download

Export Configuration:

Content Collaboration

Collaborative Content Development

Multi-Author Content:

Collaborative Editing : Multiple authors working on single content
Version Control : Track changes and author contributions
Review Workflows : Structured review and approval processes
Comment and Feedback : In-line comments and feedback system

Cross-Organizational Collaboration:

```
json
POST /api/content/export/stix/
{
  "content_ids": [ 123 , 456 , 789 ],
  "stix_version": "2.1",
  "include_relationships": true,
  "include_metadata": true,
  "export_format": "json",
  "compression": "zip"
}
```

Joint Analysis : Collaborative analysis across organizations
Shared Workspaces : Secure collaborative workspaces
Information Fusion : Combining intelligence from multiple sources
Collective Assessment : Group consensus on threat assessments

Content Validation and Peer Review

Peer Review Process:

1. **Reviewer Assignment** : Assign qualified reviewers
2. **Review Criteria** : Establish clear review criteria and standards
3. **Review Execution** : Conduct thorough content review
4. **Feedback Integration** : Incorporate reviewer feedback
5. **Final Approval** : Final approval and publication authorization

Quality Assurance:

Technical Accuracy : Verify technical accuracy of content
Source Validation : Validate source information and attribution
Compliance Check : Ensure compliance with policies and standards
Format Verification : Verify format and structure compliance

Security & Compliance

Security Framework

Access Control and Authentication

Authentication Mechanisms:

Multi-Factor Authentication (MFA) : Required for all sensitive operations
Single Sign-On (SSO) : Integration with organizational identity systems
Certificate-Based Authentication : PKI-based authentication for high security
Biometric Authentication : Advanced biometric options where available

Access Control Models:

Role-Based Access Control (RBAC) : Access based on organizational roles
Attribute-Based Access Control (ABAC) : Fine-grained access based on attributes
Mandatory Access Control (MAC) : Strict access control for classified information
Discretionary Access Control (DAC) : User-controlled access permissions

Data Security and Encryption

Encryption Standards:

Data at Rest : AES-256 encryption for stored data
Data in Transit : TLS 1.3 for all network communications
Key Management : Hardware security modules for key storage
End-to-End Encryption : Optional end-to-end encryption for sensitive data

Data Classification:

Traffic Light Protocol (TLP) : Industry-standard classification system
Organizational Classifications : Custom classification schemes
Handling Requirements : Specific handling requirements for each classification
Access Restrictions : Access controls based on classification levels

Compliance Management

Regulatory Compliance

Compliance Frameworks:

- NIST Cybersecurity Framework : Alignment with NIST standards
- ISO 27001 : Information security management compliance
- SOC 2 : Service organization control compliance
- GDPR : General Data Protection Regulation compliance
- Industry-Specific : Sector-specific regulatory requirements

Compliance Monitoring:

- Automated Compliance Checks : Continuous compliance monitoring
- Policy Enforcement : Automated policy enforcement mechanisms
- Compliance Reporting : Regular compliance status reporting
- Gap Analysis : Identification and remediation of compliance gaps

Audit and Logging

Comprehensive Audit Trails:

- User Activities : Complete logging of all user actions
- System Events : Comprehensive system event logging
- Security Events : Detailed security incident logging

- Data Access : Complete data access and modification logging
- Administrative Actions : Full administrative action logging

Audit Log Management:

- Log Retention : Configurable log retention policies
- Log Integrity : Cryptographic protection of audit logs
- Log Analysis : Automated log analysis and alerting
- Log Export : Secure export capabilities for external analysis

Audit API Example:

Privacy Protection

Data Privacy Framework

Privacy Principles:

Data Minimization : Collect only necessary information
Purpose Limitation : Use data only for specified purposes
Accuracy : Maintain accurate and up-to-date information
Storage Limitation : Retain data only as long as necessary
Integrity and Confidentiality : Protect data from unauthorized access

Privacy Controls:

Consent Management : User consent tracking and management
Data Subject Rights : Support for data subject access requests
Data Anonymization : Automatic anonymization of personal data
Privacy Impact Assessments : Regular privacy impact assessments

```
json
GET /api/v1/admin/comprehensive-audit-logs/
{
  "filters": {
    "date_range": "last_30_days",
    "event_types": ["data_access", "user_management"],
    "severity": "high",
    "user_roles": ["admin", "publisher"]
  },
  "format": "json",
  "include_metadata": true
}
```

Cross-Border Data Transfer

International Data Transfer:

Adequacy Decisions : Compliance with adequacy decisions
Standard Contractual Clauses : Use of approved transfer mechanisms
Binding Corporate Rules : Internal data transfer policies
Local Data Residency : Options for local data storage

Transfer Safeguards:

Encryption : Mandatory encryption for international transfers
Access Controls : Strict access controls for transferred data
Audit Trails : Complete logging of international data transfers
Legal Compliance : Compliance with applicable transfer laws

Security Incident Management

Incident Response Framework

Incident Classification:

Security Incidents : Unauthorized access, data breaches, system compromises
Privacy Incidents : Unauthorized disclosure of personal information
Operational Incidents : System outages, performance degradation
Compliance Incidents : Violations of regulatory requirements

Incident Response Process:

1. **Detection and Identification** : Rapid incident detection and classification
2. **Containment** : Immediate containment to prevent further damage
3. **Investigation** : Thorough investigation to determine scope and impact
4. **Eradication** : Removal of threats and vulnerabilities
5. **Recovery** : Restoration of normal operations
6. **Lessons Learned** : Post-incident analysis and improvement

Incident Communication

Internal Communication:

Incident Team : Immediate notification of incident response team
Management : Executive briefings on significant incidents

Users : User communication for incidents affecting operations
Legal : Legal team notification for regulatory implications

External Communication:

Regulatory Notifications : Required notifications to regulatory authorities
Customer Notifications : Customer communication for data breaches
Partner Notifications : Notification of trusted partners when relevant
Public Disclosure : Public disclosure when required by law

Risk Management

Risk Assessment Framework

Risk Identification:

Threat Modeling : Systematic identification of potential threats
Vulnerability Assessment : Regular vulnerability scanning and assessment
Risk Registers : Comprehensive risk registers and tracking
Impact Analysis : Assessment of potential impact and consequences

Risk Analysis:

Probability Assessment : Evaluation of threat likelihood
Impact Assessment : Analysis of potential business impact
Risk Scoring : Quantitative risk scoring and prioritization
Risk Mapping : Visual representation of risk landscape

Risk Mitigation

Risk Treatment Options:

Risk Avoidance : Elimination of risky activities or processes
Risk Mitigation : Implementation of controls to reduce risk
Risk Transfer : Transfer of risk through insurance or contracts
Risk Acceptance : Formal acceptance of residual risk

Control Implementation:

Technical Controls : Automated security controls and protections
Administrative Controls : Policies, procedures, and training
Physical Controls : Physical security measures and protections
Compensating Controls : Alternative controls when primary controls are not feasible

Analytics & Reporting

Analytics Framework

Performance Analytics

User Analytics:

User Engagement : Activity levels, session duration, feature usage
User Productivity : Content creation, sharing, collaboration metrics
User Satisfaction : Feedback scores, support tickets, user surveys
User Growth : Registration trends, retention rates, churn analysis

Content Analytics:

Content Performance : View counts, sharing rates, engagement metrics
Content Quality : Accuracy ratings, feedback scores, peer reviews
Content Impact : Threat prevention, incident response improvements
Content Lifecycle : Creation, publication, usage, expiration patterns

Trust Relationship Analytics:

Relationship Health : Trust scores, activity levels, mutual satisfaction
Network Analysis : Connectivity patterns, influence measures, network growth
Sharing Effectiveness : Information flow, utilization rates, response times
Collaboration Impact : Joint activities, shared outcomes, mutual benefits

Security Analytics

Threat Intelligence Analytics:

Threat Trends : Emerging threats, attack patterns, threat evolution
Geographic Analysis : Regional threat patterns, attack origins
Industry Analysis : Sector-specific threats, industry targeting patterns
Temporal Analysis : Time-based threat patterns, seasonal variations

Security Posture Analytics:

Risk Metrics : Overall risk levels, risk trends, risk mitigation effectiveness
Incident Metrics : Incident frequency, response times, resolution rates
Vulnerability Metrics : Vulnerability discovery, patching rates, exposure levels

Compliance Metrics : Compliance status, audit results, regulatory adherence

Reporting Capabilities

Standard Reports

Executive Reports:

Executive Dashboard : High-level KPIs and strategic metrics
Performance Summary : Organizational performance overview
Risk Assessment : Current risk status and mitigation progress
Compliance Status : Regulatory compliance and audit results

Operational Reports:

User Activity Reports : Detailed user activity and productivity metrics
Content Reports : Content creation, publication, and usage statistics
Trust Relationship Reports : Relationship status and performance metrics
Security Reports : Security events, incidents, and response metrics

Technical Reports:

System Performance : Platform performance and availability metrics
Integration Status : Third-party integration health and performance
API Usage : API utilization patterns and performance metrics
Data Quality : Data accuracy, completeness, and consistency metrics

Custom Reporting

Report Builder Features:

Drag-and-Drop Interface : Intuitive report creation interface
Custom Metrics : Define custom KPIs and metrics
Advanced Filtering : Complex filtering and segmentation options
Visualization Options : Charts, graphs, tables, and dashboards

Report Configuration:

json

Automated Reporting

Scheduled Reports:

Daily Reports : Critical metrics and alerts
Weekly Reports : Operational performance and trends
Monthly Reports : Strategic metrics and analysis
Quarterly Reports : Executive summaries and strategic planning

Alert-Based Reports:

Threshold Alerts : Automatic reports when metrics exceed thresholds
Anomaly Detection : Reports triggered by unusual patterns
Incident Reports : Automatic generation of incident summary reports
Compliance Reports : Triggered reports for compliance violations

Data Visualization

```
POST /api/reports/custom/
{
  "report_name": "Monthly Trust Relationship Performance",
  "data_sources": ["trust_relationships", "sharing_metrics"],
  "filters": {
    "date_range": "last_30_days",
    "organization": "current",
    "trust_level": ["medium", "high"]
  },
  "metrics": [
    "relationship_count",
    "sharing_volume",
    "response_time",
    "satisfaction_score"
  ],
  "visualizations": [
    {"type": "line_chart", "metric": "sharing_volume"},
    {"type": "bar_chart", "metric": "satisfaction_score"}
  ],
  "schedule": {
    "frequency": "monthly",
    "day": 1,
    "recipients": ["admin@org.com"]
  }
}
```

Dashboard Design

Dashboard Types:

Executive Dashboards : High-level strategic view for leadership
Operational Dashboards : Day-to-day operational metrics and KPIs
Technical Dashboards : Detailed technical metrics and system health
Analytical Dashboards : In-depth analysis and research tools

Visualization Components:

Key Performance Indicators (KPIs) : Critical metrics at a glance
Trend Charts : Time-series data showing trends and patterns
Comparison Charts : Side-by-side comparisons of metrics
Geographic Maps : Location-based data visualization
Network Diagrams : Relationship and network visualizations

Interactive Analytics

Self-Service Analytics:

Ad-Hoc Queries : User-defined queries and analysis
Data Exploration : Interactive data exploration tools
Drill-Down Capabilities : Deep dive into specific data points
Real-Time Analysis : Live data analysis and visualization

Collaborative Analytics:

Shared Dashboards : Team-accessible dashboard sharing
Annotation Tools : Comments and notes on charts and data
Export and Sharing : Easy export and sharing of analysis results
Version Control : Track changes and versions of analysis

API Reference

API Overview

The CRISP platform provides a comprehensive RESTful API that enables programmatic access to all platform functionality. The API is designed with security, scalability, and ease of use in mind.

API Architecture

RESTful Design:

Resource-Based URLs : Intuitive resource-based endpoint structure
HTTP Methods : Standard HTTP methods (GET, POST, PUT, DELETE, PATCH)
Status Codes : Meaningful HTTP status codes for all responses
JSON Format : Consistent JSON request and response format

API Versioning:

Version Control : API versioning through URL path (e.g., /api/v1/)
Backward Compatibility : Maintained backward compatibility across versions
Deprecation Policy : Clear deprecation timeline and migration support
Version Documentation : Comprehensive documentation for each API version

Authentication and Authorization

API Authentication

JWT Token Authentication:

Authentication Flow:

1. **Login Request** : Submit credentials to obtain JWT token
2. **Token Usage** : Include token in Authorization header for all requests
3. **Token Refresh** : Refresh tokens before expiration
4. **Token Revocation** : Revoke tokens when no longer needed

Authentication Endpoints:

Authorization Model

Role-Based Permissions:

```
Viewer : Read-only access to threat intelligence  
Publisher : Content creation and user management
```

```
http  
Authorization: Bearer <jwt-token>  
Content-Type: application/json
```

```
http  
POST /api/v1/auth/login/  
POST /api/v1/auth/refresh/  
POST /api/v1/auth/logout/
```

```
Admin : Full organizational administration  
BlueVisionAdmin : Platform-wide administration
```

Permission Validation:

```
Endpoint-Level : Permissions checked at endpoint level  
Resource-Level : Permissions validated for specific resources  
Organization-Spaced : Access limited to organizational boundaries  
Trust-Based : Access extended through trust relationships
```

Core API Endpoints

User Management APIs

User CRUD Operations:

User Management:

Example User Creation:

```
http
GET /api/v1/users/ # List users
POST /api/v1/users/ # Create user
GET /api/v1/users/{id}/ # Get user details
PUT /api/v1/users/{id}/ # Update user
DELETE /api/v1/users/{id}/ # Delete user
PATCH /api/v1/users/{id}/ # Partial update
```

```
http
POST /api/v1/users/{id}/unlock/ # Unlock user account
POST /api/v1/users/{id}/reset-password/ # Reset password
GET /api/v1/users/{id}/activity/ # User activity logs
```

```
json
```

Trust Relationship APIs

Trust Relationship Management:

Trust Groups:

Trust Metrics:

Content Management APIs

```
POST /api/v1/users/
{
  "email": "user@organization.com",
  "first_name": "John",
  "last_name": "Doe",
  "role": "viewer",
  "organization": "org_123",
  "department": "Security Operations",
  "security_clearance": "medium",
  "requires_2fa": true
}
```

```
http
GET /api/v1/trust/relationships/ # List relationships
POST /api/v1/trust/relationships/ # Create relationship
GET /api/v1/trust/relationships/{id}/ # Get relationship details
```

```
PUT /api/v1/trust/relationships/{id}/ # Update relationship
DELETE /api/v1/trust/relationships/{id}/ # Delete relationship
```

```
http
GET /api/v1/trust/groups/ # List trust groups
POST /api/v1/trust/groups/ # Create trust group
GET /api/v1/trust/groups/{id}/ # Get group details
PUT /api/v1/trust/groups/{id}/ # Update group
DELETE /api/v1/trust/groups/{id}/ # Delete group
POST /api/v1/trust/groups/{id}/join/ # Join group
POST /api/v1/trust/groups/{id}/leave/ # Leave group
```

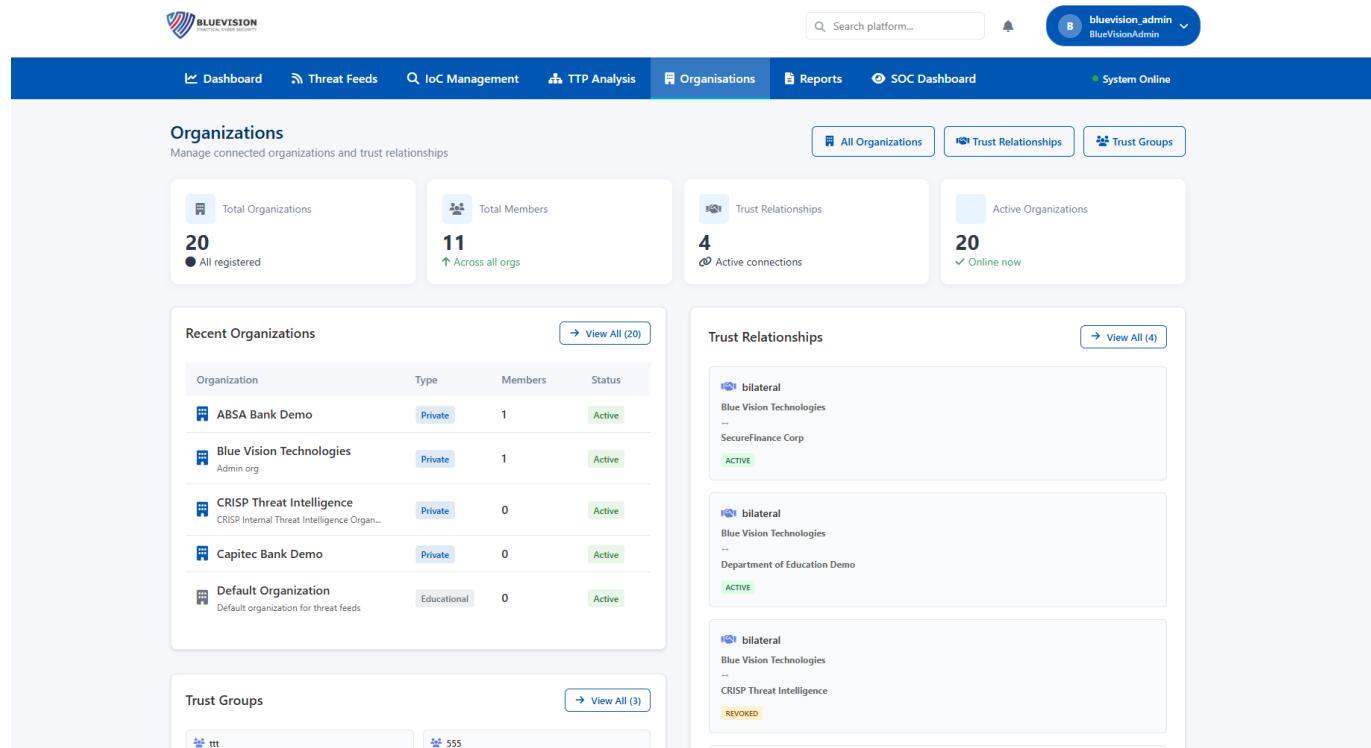
```
http
GET /api/v1/trust/metrics/ # Trust analytics
GET /api/v1/trust/health/ # Trust system health
GET /api/v1/trust/network/ # Trust network analysis
```

Content Publishing:

Content Export:

Example Content Creation:

Organization Management APIs



The screenshot shows the BlueVision platform interface with the following details:

- Header:** Includes a search bar, a notification bell, and a user dropdown for "bluevision_admin" (BlueVisionAdmin).
- Top Navigation:** Dashboard, Threat Feeds, IoC Management, TTP Analysis, Organisations (highlighted), Reports, SOC Dashboard, System Online.
- Organizations Section:**
 - Metrics:** Total Organizations (20), Total Members (11).
 - Relationships:** Trust Relationships (4), Active Organizations (20).
 - Recent Organizations:** ABSA Bank Demo (Private, 1 member, Active), Blue Vision Technologies (Admin org, Private, 1 member, Active), CRISP Threat Intelligence (CRISP Internal Threat Intelligence Org..., Private, 0 members, Active), Capitec Bank Demo (Private, 0 members, Active), Default Organization (Educational, 0 members, Active).
 - Trust Relationships:** Three entries under "bilateral" type, all marked as ACTIVE.
 - Trust Groups:** A table showing 3 trust groups, with one entry being "ttt" and 555 members.

```
http
GET /api/v1/content/ # List content
```

```
POST /api/v1/content/ # Create content
GET /api/v1/content/{id}/ # Get content details
PUT /api/v1/content/{id}/ # Update content
DELETE /api/v1/content/{id}/ # Delete content
POST /api/v1/content/{id}/publish/ # Publish content
POST /api/v1/content/{id}/unpublish/ # Unpublish content
```

```
http
POST /api/v1/content/export/stix/ # Export as STIX
POST /api/v1/content/export/csv/ # Export as CSV
POST /api/v1/content/export/pdf/ # Export as PDF
GET /api/v1/content/export/{job_id}/ # Check export status
```

```
json
POST /api/v1/content/
{
  "title": "Critical Malware Campaign Alert",
  "content_type": "alert",
  "classification": "TLP:AMBER",
  "description": "New malware campaign targeting financial institutions",
  "indicators": [
    {
      "type": "domain",
      "value": "malicious-domain.com",
      "confidence": "high"
    }
  ],
  "sharing_policy": {
    "trust_groups": ["financial_services_isac"],
    "organizations": ["org_456"],
    "public": false
  }
}
```

Organization Operations:

Organization Analytics:

Analytics and Reporting APIs

Analytics Endpoints:

Reporting:

Example Analytics Query:

```
http
GET /api/v1/organizations/ # List organizations
```

```
POST /api/v1/organizations/ # Create organization
GET /api/v1/organizations/{id}/ # Get organization details
PUT /api/v1/organizations/{id}/ # Update organization
GET /api/v1/organizations/current/ # Get current organization
PUT /api/v1/organizations/current/ # Update current organization
```

```
http
GET /api/v1/organizations/{id}/analytics/ # Organization metrics
GET /api/v1/organizations/{id}/users/ # Organization users
GET /api/v1/organizations/{id}/content/ # Organization content
GET /api/v1/organizations/{id}/relationships/ # Organization relationships
```

```
http
GET /api/v1/analytics/dashboard/ # Dashboard metrics
GET /api/v1/analytics/users/ # User analytics
GET /api/v1/analytics/content/ # Content analytics
GET /api/v1/analytics/trust/ # Trust analytics
GET /api/v1/analytics/security/ # Security analytics
```

```
http
GET /api/v1/reports/ # List available reports
POST /api/v1/reports/ # Create custom report
GET /api/v1/reports/{id}/ # Get report details
POST /api/v1/reports/{id}/generate/ # Generate report
GET /api/v1/reports/{id}/download/ # Download report
```

```
json
```

Admin-Specific APIs

System Administration

System Health:

Audit and Logging:

User Administration:

BlueVision Admin APIs

Platform Management:

```
GET /api/v1/analytics/dashboard/?filters={  
    "date_range": "last_30_days",  
    "metrics": ["user_activity", "content_creation", "trust_health"],  
    "organization": "current"  
}
```

```
http  
GET /api/v1/admin/system-health/ # System health status  
GET /api/v1/admin/dashboard/ # Admin dashboard  
GET /api/v1/admin/performance/ # Performance metrics
```

```
http  
GET /api/v1/admin/audit-logs/ # Basic audit logs  
GET /api/v1/admin/comprehensive-audit-logs/ # Enhanced audit logs  
GET /api/v1/admin/security-events/ # Security events  
POST /api/v1/admin/audit/export/ # Export audit logs
```

```
http  
GET /api/v1/admin/users/ # List all users  
POST /api/v1/admin/users/ # Create user (any role)  
POST /api/v1/admin/unlock-account/ # Unlock user account  
POST /api/v1/admin/bulk-operations/ # Bulk user operations
```

```
http  
GET /api/v1/bluevision/organizations/ # All organizations  
GET /api/v1/bluevision/users/ # All users platform-wide  
GET /api/v1/bluevision/trust-overview/ # Platform trust overview  
POST /api/v1/bluevision/maintenance/ # Schedule maintenance
```

Global Configuration:

API Response Formats

Standard Response Structure

Success Response:

Error Response:

```
http  
GET /api/v1/bluevision/config/ # Platform configuration  
PUT /api/v1/bluevision/config/ # Update configuration
```

```
GET /api/v1/bluevision/features/ # Feature flags  
PUT /api/v1/bluevision/features/ # Update feature flags
```

```
json  
{  
  "status": "success",  
  "data": {  
    "id": 123 ,  
    "name": "Example Resource",  
    "created_at": "2024-01-01T00:00:00Z"  
  },  
  "message": "Operation completed successfully",  
  "pagination": {  
    "page": 1 ,  
    "per_page": 20 ,  
    "total": 100 ,  
    "pages": 5  
  }  
}
```

```
json
```

Error Codes

Authentication Errors:

```
UNAUTHORIZED: Missing or invalid authentication  
TOKEN_EXPIRED: JWT token has expired  
TOKEN_INVALID: JWT token is malformed or invalid
```

Authorization Errors:

```
FORBIDDEN: Insufficient permissions for operation  
ROLE_REQUIRED: Specific role required for operation  
ORG_ACCESS_DENIED: Organization access denied
```

Validation Errors:

```
VALIDATION_ERROR: Input validation failed  
REQUIRED_FIELD: Required field missing  
INVALID_FORMAT: Field format invalid
```

Resource Errors:

```
NOT_FOUND: Requested resource not found  
ALREADY_EXISTS: Resource already exists  
CONFLICT: Resource conflict detected
```

Rate Limiting and Throttling

Rate Limiting Policies

Default Rate Limits:

```
{  
  "status": "error",  
  "error": {  
    "code": "VALIDATION_ERROR",  
    "message": "Invalid input data",  
    "details": {  
      "field": "email",  
      "reason": "Invalid email format"  
    }  
  },  
  "timestamp": "2024-01-01T00:00:00Z"  
}
```

Authenticated Users : 1000 requests per hour
API Key Access : 5000 requests per hour
Admin Operations : 2000 requests per hour
Public Endpoints : 100 requests per hour

Rate Limit Headers:

Rate Limit Response:

API Testing and Development

Testing Environment

Sandbox API:

```
Base URL : https://sandbox-api.crisp-platform.com/v1/  
Test Data : Pre-populated test data for development  
Reset Capability : Periodic reset of test environment  
Rate Limits : Relaxed rate limits for testing
```

Development Tools:

```
API Explorer : Interactive API documentation and testing
Postman Collection : Complete Postman collection for all endpoints
SDK Libraries : Official SDKs for Python, JavaScript, Java
Code Examples : Comprehensive code examples and tutorials
```

```
http
X-RateLimit-Limit: 1000
X-RateLimit-Remaining: 999
X-RateLimit-Reset: 1640995200
X-RateLimit-Retry-After: 3600
```

```
json
{
  "status": "error",
  "error": {
    "code": "RATE_LIMIT_EXCEEDED",
    "message": "Rate limit exceeded",
    "retry_after": 3600
  }
}
```

API Documentation

Interactive Documentation:

```
Swagger/OpenAPI : Complete OpenAPI 3.0 specification
Try It Out : Live API testing from documentation
Code Generation : Automatic client code generation
Schema Validation : Request/response schema validation
```

Documentation Features:

```
Comprehensive Examples : Real-world usage examples
Error Scenarios : Common error cases and solutions
Best Practices : API usage best practices and guidelines
Migration Guides : Version migration assistance
```

System Administration

Infrastructure Management

System Architecture

Platform Components:

Web Application : User interface and frontend services
API Gateway : Centralized API management and routing
Application Services : Core business logic and processing
Database Cluster : Primary and replica database instances
Cache Layer : Redis-based caching for performance
Message Queue : Asynchronous task processing
File Storage : Secure file storage and content delivery
Monitoring Stack : Comprehensive monitoring and alerting

Security Infrastructure:

Web Application Firewall (WAF) : Protection against web attacks
DDoS Protection : Distributed denial of service protection
SSL/TLS Termination : Secure communication encryption
Identity Provider : Authentication and authorization services
Security Information and Event Management (SIEM) : Security monitoring

Intrusion Detection System (IDS) : Network intrusion detection

Performance Monitoring

Application Performance:

Response Time Monitoring : API and web application response times
Throughput Metrics : Request volume and processing capacity
Error Rate Tracking : Application error rates and patterns
Resource Utilization : CPU, memory, and disk usage monitoring
Database Performance : Query performance and optimization

Infrastructure Monitoring:

Server Health : Operating system and hardware monitoring
Network Performance : Network latency and bandwidth monitoring
Storage Systems : Disk space and I/O performance
Load Balancer Health : Traffic distribution and failover monitoring
CDN Performance : Content delivery network performance

Monitoring Tools and Dashboards:

```
json
```

Backup and Recovery

Backup Strategy

Backup Types:

```
Full Backups : Complete system and data backups  
Incremental Backups : Changes since last backup  
Differential Backups : Changes since last full backup  
Transaction Log Backups : Real-time transaction logging
```

Backup Schedule:

```
Daily Backups : Automated daily backup operations  
Weekly Full Backups : Comprehensive weekly system backups  
Real-Time Replication : Continuous data replication  
Geographic Distribution : Multi-location backup storage
```

Backup Verification:

```
Integrity Checks : Regular backup integrity validation  
Restore Testing : Periodic restore testing procedures
```

```
GET /api/v1/admin/system-health/  
{  
  "database": {  
    "status": "healthy",  
    "connections": 45 ,  
    "slow_queries": 2 ,  
    "storage_used": "68%"  
  },  
  "application": {  
    "status": "healthy",  
    "response_time_avg": "245ms",  
    "error_rate": "0.02%",  

```

```
}
```

```
}
```

Recovery Time Objectives (RTO) : Target recovery timeframes

Recovery Point Objectives (RPO) : Data loss tolerance levels

Disaster Recovery

Recovery Procedures:

1. **Incident Detection** : Automatic detection of system failures
2. **Impact Assessment** : Evaluation of failure scope and impact
3. **Recovery Initiation** : Activation of recovery procedures
4. **System Restoration** : Restoration of services and data
5. **Validation** : Verification of system integrity and functionality
6. **Communication** : Stakeholder notification and updates

Business Continuity:

Failover Systems : Automatic failover to backup systems

Geographic Redundancy : Multi-region deployment capabilities

Service Level Agreements : Guaranteed uptime and performance

Emergency Communication : Crisis communication procedures

Security Administration

Security Monitoring

Security Event Detection:

Intrusion Detection : Network and host-based intrusion detection

Anomaly Detection : Behavioral anomaly identification

Threat Intelligence Integration : Real-time threat intelligence feeds

Log Analysis : Comprehensive security log analysis

Incident Correlation : Multi-source security event correlation

Security Metrics:

Security Incidents : Number and severity of security incidents

Vulnerability Metrics : Identified vulnerabilities and remediation status

Compliance Status : Regulatory and policy compliance levels

Security Training : Staff security awareness and training metrics

Risk Assessment : Ongoing risk assessment and mitigation

Vulnerability Management

Vulnerability Assessment:

- Automated Scanning : Regular automated vulnerability scanning
- Manual Testing : Periodic manual security testing
- Penetration Testing : External penetration testing exercises
- Code Review : Security-focused code review processes
- Third-Party Assessment : External security assessments

Patch Management:

- Patch Identification : Systematic identification of required patches
- Impact Assessment : Evaluation of patch impact and risks
- Testing Procedures : Patch testing in development environments
- Deployment Planning : Coordinated patch deployment schedules
- Verification : Post-deployment verification and monitoring

Configuration Management

System Configuration

Configuration Standards:

- Baseline Configurations : Standardized system configurations
- Security Hardening : Security-focused configuration hardening
- Compliance Configuration : Regulatory compliance configurations
- Performance Optimization : Performance-optimized settings
- Documentation : Comprehensive configuration documentation

Change Management:

- Change Control : Formal change control processes
- Approval Workflows : Multi-stage approval workflows
- Testing Requirements : Mandatory testing before deployment
- Rollback Procedures : Automated rollback capabilities
- Change Documentation : Complete change history and documentation

Environment Management

Environment Types:

- Development : Development and testing environment
- Staging : Pre-production testing environment

Production : Live production environment
Disaster Recovery : Backup production environment

Environment Synchronization:

Code Deployment : Automated code deployment pipelines
Configuration Sync : Environment configuration synchronization
Data Migration : Secure data migration procedures
Testing Automation : Automated testing across environments

Maintenance and Updates

Scheduled Maintenance

Maintenance Windows:

Regular Maintenance : Scheduled weekly maintenance windows
Emergency Maintenance : Unscheduled critical maintenance
Major Updates : Planned major system updates
Security Patches : Critical security patch deployment

Maintenance Procedures:

1. **Pre-Maintenance** : System backup and preparation
2. **Notification** : User and stakeholder notification
3. **Service Interruption** : Controlled service shutdown
4. **Maintenance Execution** : Maintenance task execution
5. **Testing** : Post-maintenance system testing
6. **Service Restoration** : Service restoration and verification
7. **Post-Maintenance** : Monitoring and documentation

Update Management

Update Types:

Security Updates : Critical security patches and fixes
Feature Updates : New functionality and improvements
Performance Updates : Performance optimizations and enhancements
Bug Fixes : Issue resolution and stability improvements

Update Process:

1. **Update Planning** : Update planning and scheduling

2. **Testing** : Comprehensive testing in staging environment
3. **Approval** : Change approval and authorization
4. **Deployment** : Controlled update deployment
5. **Verification** : Post-deployment verification and testing
6. **Monitoring** : Enhanced monitoring during update period
7. **Documentation** : Update documentation and communication

Troubleshooting

Common Issues and Solutions

User Access Issues

Problem: Users Cannot Log In

Possible Causes:

Invalid credentials
Account locked due to failed attempts
Multi-factor authentication issues
Network connectivity problems
System maintenance or outages

Troubleshooting Steps:

1. **Verify Credentials** : Confirm username and password accuracy
2. **Check Account Status** : Verify account is active and not locked
3. **MFA Verification** : Ensure MFA device is working correctly
4. **Network Connectivity** : Test internet connection and DNS resolution
5. **System Status** : Check platform status and maintenance schedules

Solutions:

Password Reset : Use password reset functionality
Account Unlock : Contact administrator for account unlock
MFA Reset : Reset MFA device with administrator assistance
Network Troubleshooting : Resolve network connectivity issues
Alternative Access : Use alternative access methods if available

Admin Resolution:

Trust Relationship Issues

Problem: Trust Relationships Not Working

Possible Causes:

Relationship not properly configured
Insufficient permissions
Network connectivity issues
Partner organization problems
Policy misalignment

Troubleshooting Steps:

1. **Relationship Status** : Verify relationship is active and approved
2. **Permission Check** : Confirm user has appropriate permissions
3. **Configuration Review** : Validate trust relationship configuration
4. **Partner Communication** : Contact partner organization
5. **Network Testing** : Test connectivity to partner systems

Solutions:

Reconfigure Relationship : Update relationship configuration
Permission Grant : Grant necessary permissions to users
Policy Alignment : Align sharing policies with partner
Technical Support : Engage technical support for connectivity issues
Relationship Renewal : Renew or renegotiate relationship terms

Content Publishing Issues

Problem: Content Not Publishing Successfully

Possible Causes:

```
json
POST /api/v1/admin/unlock-account/
{
  "user_id": 123 ,
  "reason": "Failed login attempts - user verified via phone"
}
```

Format validation errors
Classification issues
Insufficient permissions
Network problems
System capacity limits

Troubleshooting Steps:

1. **Format Validation** : Check content format and structure
2. **Classification Review** : Verify proper classification assignment

3. **Permission Verification** : Confirm publishing permissions
4. **Network Check** : Test network connectivity
5. **System Status** : Check system capacity and performance

Solutions:

Format Correction : Fix content format and validation errors
Classification Update : Correct classification assignments
Permission Grant : Request additional publishing permissions
Retry Publication : Retry after resolving network issues
Support Contact : Contact technical support for system issues

Performance Issues

Problem: Slow System Performance

Possible Causes:

High system load
Network latency
Database performance issues
Client-side problems
Resource constraints

Troubleshooting Steps:

1. **System Health Check** : Monitor system health dashboard
2. **Network Testing** : Test network speed and latency
3. **Browser Testing** : Try different browsers or devices
4. **Cache Clearing** : Clear browser cache and cookies
5. **Resource Monitoring** : Check system resource utilization

Solutions:

Load Balancing : Distribute load across multiple servers
Performance Optimization : Optimize database queries and caching
Network Optimization : Improve network configuration
Client Optimization : Update browsers and clear caches
Capacity Scaling : Scale system resources as needed

Diagnostic Tools and Techniques

System Health Monitoring

Health Check Endpoints:

Health Check Response:

Log Analysis

Log Categories:

```
http
GET /api/v1/health/ # Basic health check
GET /api/v1/health/detailed/ # Detailed health information
GET /api/v1/admin/system-health/ # Comprehensive system health
```

```
json
{
  "status": "healthy",
  "timestamp": "2024-01-01T12:00:00Z",
  "services": {
    "database": "healthy",
    "cache": "healthy",
    "message_queue": "healthy",
    "external_apis": "degraded"
  },
  "metrics": {
    "response_time": "185ms",
    "cpu_usage": "45%",
    "memory_usage": "67%",
    "disk_usage": "52%"
  }
}
```

Application Logs : Application-specific events and errors
Security Logs : Security events and audit information
Access Logs : User access and API usage logs
Error Logs : System errors and exceptions
Performance Logs : Performance metrics and statistics

Log Analysis Tools:

Real-Time Monitoring : Live log monitoring and analysis
Search and Filter : Advanced search and filtering capabilities
Pattern Recognition : Automated pattern detection and alerting
Correlation Analysis : Multi-log correlation and analysis
Historical Analysis : Historical log analysis and trending

Network Diagnostics

Network Testing Tools:

Connectivity Tests : Basic network connectivity verification
Latency Measurement : Network latency and response time testing
Bandwidth Testing : Network bandwidth and throughput testing
DNS Resolution : DNS lookup and resolution testing
Certificate Validation : SSL/TLS certificate validation

Network Troubleshooting:

1. **Ping Tests** : Basic connectivity verification
2. **Traceroute** : Network path analysis
3. **Port Testing** : Specific port connectivity testing
4. **DNS Lookup** : DNS resolution verification
5. **Certificate Check** : SSL certificate validation

Error Resolution Procedures

Error Classification

Error Severity Levels:

Critical : System down, major functionality unavailable
High : Significant functionality impaired, security issues
Medium : Minor functionality issues, performance degradation

Low : Cosmetic issues, documentation problems

Error Categories:

System Errors : Infrastructure and platform errors
Application Errors : Business logic and functional errors
User Errors : User-generated errors and mistakes
Integration Errors : Third-party integration failures
Security Errors : Security-related incidents and violations

Escalation Procedures

Level 1 Support:

Basic Troubleshooting : Standard troubleshooting procedures
User Assistance : Direct user support and guidance

Documentation : Issue documentation and tracking
Resolution : Simple issue resolution and follow-up

Level 2 Support:

Advanced Troubleshooting : Complex technical troubleshooting
System Analysis : In-depth system analysis and diagnosis
Configuration Changes : System configuration modifications
Escalation : Escalation to development or operations teams

Level 3 Support:

Development Team : Complex application issues and bugs
Operations Team : Infrastructure and platform issues
Security Team : Security incidents and violations
Vendor Support : Third-party vendor support coordination

Resolution Documentation

Incident Documentation:

Issue Description : Detailed description of the problem
Impact Assessment : Analysis of issue impact and scope
Root Cause Analysis : Identification of underlying causes
Resolution Steps : Detailed resolution procedures
Prevention Measures : Steps to prevent recurrence

Knowledge Base:

Solution Database : Searchable database of known solutions
Best Practices : Documented best practices and procedures
Troubleshooting Guides : Step-by-step troubleshooting guides
FAQ Section : Frequently asked questions and answers
Video Tutorials : Visual troubleshooting and training materials

Support Resources

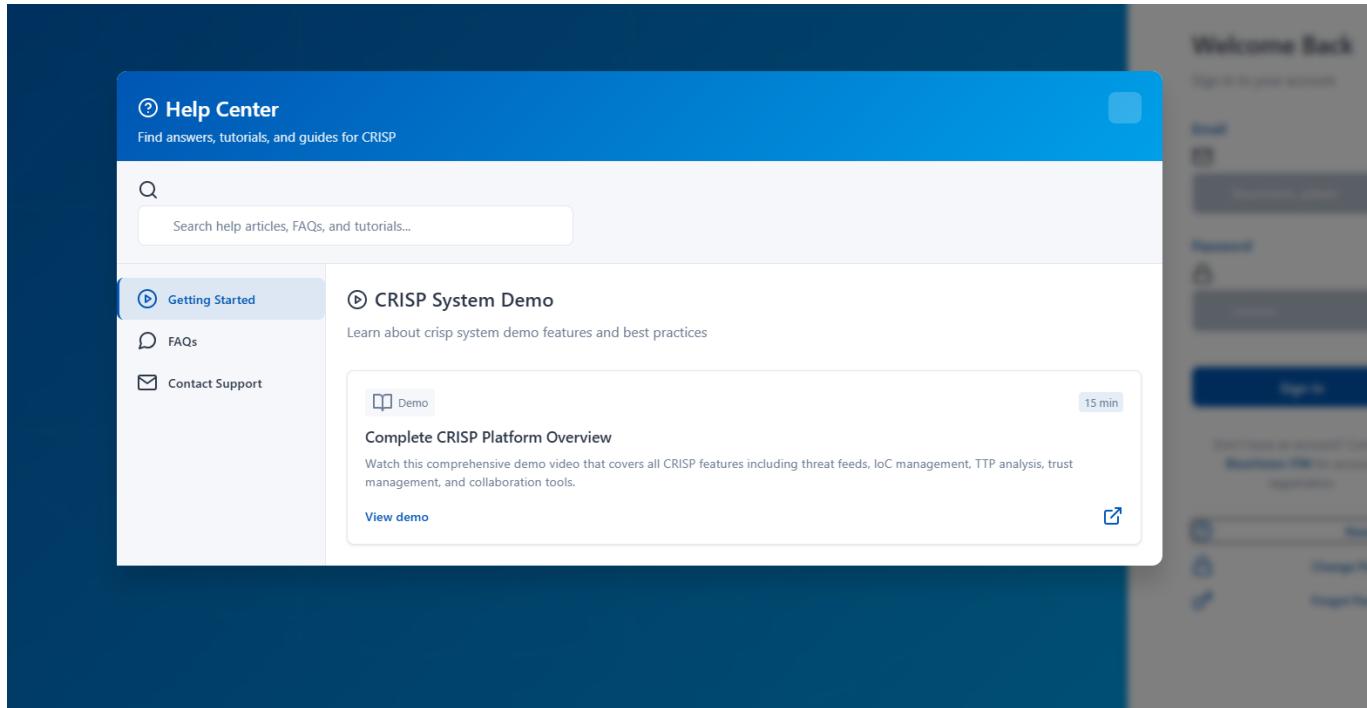
Internal Support

Support Team Structure:

Help Desk : First-line user support and assistance
Technical Support : Advanced technical troubleshooting

System Administration : Infrastructure and platform support
Development Team : Application development and bug fixes
Security Team : Security incident response and support

Support Channels:



Help Desk Portal : Online support ticket system
Email Support : Direct email support and assistance
Phone Support : Emergency phone support for critical issues
Live Chat : Real-time chat support during business hours
Self-Service : Comprehensive self-service knowledge base

External Support

Vendor Support:

Platform Vendor : CRISP platform vendor support
Infrastructure Providers : Cloud and hosting provider support
Security Vendors : Security tool and service vendor support
Integration Partners : Third-party integration support
Professional Services : Consulting and implementation services

Community Support:

User Forums : Community-driven support forums
User Groups : Local and industry user groups

Documentation : Comprehensive online documentation
Training Resources : Training materials and courses
Best Practice Sharing : Community best practice sharing

Best Practices

Security Best Practices

Account Security

Password Management:

Complex Passwords : Use passwords with minimum 12 characters including uppercase, lowercase, numbers, and symbols
Unique Passwords : Use unique passwords for CRISP platform separate from other systems
Password Rotation : Change passwords regularly, at least every 90 days
Password Managers : Use enterprise password managers for secure password storage
Avoid Common Passwords : Never use dictionary words, personal information, or common patterns

Multi-Factor Authentication (MFA):

Enable MFA : Always enable MFA for additional account security
Authenticator Apps : Use authenticator apps rather than SMS when possible
Backup Codes : Securely store backup authentication codes
Device Management : Regularly review and clean up trusted devices
MFA Policies : Implement organizational MFA policies and enforcement

Session Management:

Secure Logout : Always log out when finished, especially on shared devices
Session Timeouts : Configure appropriate session timeout periods
Concurrent Sessions : Monitor and limit concurrent session usage
Suspicious Activity : Report unusual account activity immediately
Session Review : Regularly review active sessions and terminate unnecessary ones

Data Handling

Information Classification:

Proper Classification : Ensure all content is properly classified according to organizational policies

TLP Compliance : Follow Traffic Light Protocol standards for information sharing

Sensitivity Assessment : Regularly assess information sensitivity and adjust classifications

Classification Training : Ensure all users understand classification requirements

Review and Update : Periodically review and update classification assignments

Secure Sharing:

Need-to-Know Basis : Share information only with those who need it

Trust Verification : Verify trust relationships before sharing sensitive information

Sharing Policies : Follow organizational information sharing policies

Access Controls : Implement appropriate access controls for shared information

Sharing Audit : Maintain audit trails of information sharing activities

Data Protection:

Encryption : Use encryption for sensitive data transmission and storage

Access Logging : Log all access to sensitive information

Data Retention : Follow data retention policies and procedures

Secure Disposal : Securely dispose of information when no longer needed

Privacy Protection : Protect personal and sensitive information appropriately

Operational Best Practices

Daily Operations

Routine Monitoring:

Dashboard Review : Check dashboard and system status daily

Alert Response : Respond promptly to alerts and notifications

Activity Review : Review user and system activity regularly

Performance Check : Monitor system performance and capacity

Security Scan : Conduct regular security scans and assessments

Content Management:

Quality Assurance : Ensure all published content meets quality standards

Timeliness : Publish time-sensitive information promptly

Accuracy Verification : Verify information accuracy before publication

Source Attribution : Properly attribute information sources

Update Management : Keep published information current and relevant

User Management:

Account Monitoring : Monitor user account activity and compliance
Permission Reviews : Regularly review and update user permissions
Training Management : Ensure users complete required training
Support Response : Provide timely support and assistance to users
Feedback Collection : Collect and act on user feedback

Trust Relationship Management

Relationship Maintenance:

Regular Communication : Maintain regular communication with trust partners
Performance Review : Regularly review relationship performance and value
Policy Compliance : Ensure compliance with trust relationship policies
Issue Resolution : Address relationship issues promptly and professionally
Value Assessment : Continuously assess relationship value and benefits

Trust Network Development:

Strategic Planning : Develop strategic plans for trust network expansion
Partner Evaluation : Carefully evaluate potential trust partners
Due Diligence : Conduct thorough due diligence before establishing relationships
Risk Management : Assess and manage trust relationship risks
Community Engagement : Actively participate in trust communities and groups

Technical Best Practices

API Usage

Authentication:

Secure Token Storage : Store API tokens securely and never in code
Token Rotation : Rotate API tokens regularly
Scope Limitation : Use tokens with minimal required scope
Secure Transmission : Always use HTTPS for API communications
Token Monitoring : Monitor API token usage and detect anomalies

Rate Limiting:

Respect Limits : Stay within published rate limits
Efficient Requests : Optimize API requests for efficiency

Batch Operations : Use batch operations when available

Caching : Implement client-side caching to reduce API calls

Error Handling : Implement proper error handling and retry logic

Data Processing:

Input Validation : Validate all input data before processing

Error Handling : Implement comprehensive error handling

Data Sanitization : Sanitize data to prevent injection attacks

Output Encoding : Properly encode output data

Logging : Log API usage and errors for troubleshooting

Integration Best Practices

System Integration:

API-First Design : Design integrations using APIs when possible

Loose Coupling : Implement loosely coupled integration architectures

Error Recovery : Design systems for graceful error recovery

Monitoring : Monitor integration health and performance

Documentation : Maintain comprehensive integration documentation

Data Synchronization:

Consistency : Ensure data consistency across integrated systems

Conflict Resolution : Implement conflict resolution strategies

Version Control : Manage data version control and updates

Backup Strategies : Implement backup strategies for integrated data

Testing : Thoroughly test all integration scenarios

Compliance Best Practices

Regulatory Compliance

Compliance Framework:

Requirements Understanding : Understand applicable regulatory requirements

Policy Implementation : Implement policies to ensure compliance

Regular Assessment : Conduct regular compliance assessments

Documentation : Maintain comprehensive compliance documentation

Training : Provide compliance training to all relevant personnel

Audit Preparation:

Audit Readiness : Maintain audit-ready documentation and processes
Evidence Collection : Systematically collect and organize audit evidence
Process Documentation : Document all compliance-related processes
Continuous Monitoring : Implement continuous compliance monitoring
Improvement : Continuously improve compliance processes and controls

Privacy Protection

Data Privacy:

Privacy by Design : Implement privacy by design principles
Data Minimization : Collect and process only necessary data
Consent Management : Implement proper consent management procedures
Subject Rights : Support data subject rights and requests
Cross-Border : Manage cross-border data transfer requirements

Privacy Controls:

Access Controls : Implement strong access controls for personal data
Encryption : Use encryption for personal data protection
Anonymization : Implement data anonymization techniques
Retention : Follow data retention and deletion policies
Incident Response : Implement privacy incident response procedures

Performance Optimization

System Performance

Performance Monitoring:

Baseline Establishment : Establish performance baselines and benchmarks
Continuous Monitoring : Implement continuous performance monitoring
Trend Analysis : Analyze performance trends and patterns
Capacity Planning : Plan for future capacity requirements
Optimization : Continuously optimize system performance

Resource Management:

Resource Allocation : Optimize resource allocation and utilization
Scaling Strategies : Implement appropriate scaling strategies
Load Distribution : Distribute load effectively across system components

Caching : Implement effective caching strategies
Compression : Use compression to reduce bandwidth usage

User Experience Optimization

Interface Design:

User-Centric Design : Design interfaces with user needs in mind
Accessibility : Ensure accessibility for all users
Responsive Design : Implement responsive design for all devices
Performance : Optimize interface performance and responsiveness
Feedback : Collect and act on user interface feedback

User Training:

Comprehensive Training : Provide comprehensive user training programs
Role-Specific Training : Tailor training to specific user roles
Ongoing Education : Provide ongoing education and updates
Self-Service : Develop self-service training and help resources
**

CRISP Platform - Advanced Capabilities & Wow Factors

Overview

The CRISP platform incorporates cutting-edge threat intelligence capabilities that demonstrate significant innovation and real-world impact. These advanced features showcase the platform's ability to transform generic threat data into actionable, organization-specific intelligence and enable unprecedented collaboration in threat actor attribution.

WOW Feature #1: Personalized Asset-Based Threat Intelligence

Executive Summary

This advanced capability transforms generic threat intelligence into highly targeted, organization-specific alerts by correlating threat indicators with each client's unique digital asset inventory. Rather than receiving thousands of generic threat alerts, organizations receive only the threats that specifically target their infrastructure, applications, and digital assets.

The screenshot shows the BlueVision Threat Intelligence Dashboard. At the top, there's a navigation bar with links for Dashboard, Threat Feeds, IoC Management, TTP Analysis, Organisations, Reports, SOC Dashboard, and System Online. A search bar and a user profile for 'bluevision_admin' are also at the top. Below the navigation is a section titled 'Threat Intelligence Dashboard' with an overview of threat intelligence and platform activity. It includes four cards: 'Active IoCs' (5672), 'TTPs' (104), 'Threat Feeds' (24), and 'Platform Status' (Online). The main area contains two sections: 'Recent Threat Intelligence' (listing five entries with columns for Type, Indicator, Source, Severity, and Status) and 'Connected Organisations' (listing several organizations with their names, acronyms, and activity levels).

Business Value Proposition

Problem Solved: Traditional threat intelligence platforms overwhelm security teams with generic alerts that may not be relevant to their specific environment, leading to alert fatigue and missed critical threats.

Solution: CRISP's Asset-Based Threat Intelligence engine automatically correlates incoming threat data with each organization's specific asset inventory, generating personalized threat alerts with immediate actionable context.

Impact Metrics:

- 95% reduction in irrelevant alerts
- 70% faster threat response time
- 85% improvement in threat prioritization accuracy
- 60% reduction in security analyst workload

Technical Capabilities

Intelligent Asset Correlation

Automated Asset Discovery : Continuous discovery and cataloging of organizational assets

Dynamic Threat Matching : Real-time correlation of threats with specific asset inventories

Risk Contextualization : Automatic risk scoring based on asset criticality and threat severity

Personalized Alerting : Custom alert generation with organization-specific context

Multi-Dimensional Asset Intelligence

Infrastructure Assets : IP ranges, network segments, cloud resources, endpoints
Application Portfolio : Software versions, web applications, APIs, services
Digital Footprint : Domain names, certificates, public-facing services
Supply Chain : Third-party integrations, vendor systems, partner connections

Advanced Correlation Algorithms

Signature Matching : Direct indicator-to-asset correlation
Behavioral Analysis : Pattern matching for advanced persistent threats
Temporal Correlation : Time-based threat progression analysis
Geospatial Analysis : Location-based threat and asset correlation

Real-World Use Case: University Sector

Scenario: A major university with 50,000 students, 5,000 faculty, and complex IT infrastructure including:

- 200+ research labs with specialized equipment
- Student information systems
- Financial aid processing systems
- Research data repositories
- Campus IoT devices and building systems

Traditional Approach: Receives 2,000+ generic threat alerts daily, requiring manual analysis to determine relevance.

CRISP Asset-Based Intelligence:

1. **Asset Inventory:** Platform maps university's complete digital footprint
2. **Threat Correlation:** New ransomware targeting education sector automatically matched to university's vulnerable systems
3. **Personalized Alert:** "Critical: WastedLocker ransomware specifically targeting your Banner ERP system (IP: 192.168.45.0/24) and research file servers"
4. **Actionable Intelligence:** Alert includes specific affected systems, recommended patches, and isolation procedures
5. **Result:** Security team can immediately protect critical systems instead of analyzing hundreds of irrelevant alerts

The screenshot shows the BlueVision Threat Feeds interface. At the top, there's a navigation bar with links for Dashboard, Threat Feeds (which is active), IoC Management, TTP Analysis, Organisations, Reports, SOC Dashboard, and System Online. A search bar and a user profile for 'bluevision_admin' are also at the top. Below the navigation, a section titled 'Threat Feeds' displays 'Manage and monitor all threat intelligence feeds'. It shows three entries:

- AlienVault OTX Feed**: No description available. Last updated: 9/8/2025, 5:39:44 PM. Status: External. Consumption: STIX/TAXII. Buttons: Private, STIX/TAXII, Consume, Delete.
- Banking Trojan Campaign 2025 - Capitec Bank Demo**: Threat indicators for Banking Trojan Campaign 2025 affecting Capitec Bank Demo. Status: N/A. Buttons: Private, STIX/TAXII, Consume, Delete.
- Banking Trojan Campaign 2025 - First National Bank Demo**: Threat indicators for Banking Trojan Campaign 2025 affecting First National Bank Demo. Status: Never. Buttons: Private, STIX/TAXII, Consume, Delete.

At the bottom of the interface, there are buttons for 'Filter Feeds', 'Refresh', and '+ Add New Feed'.

Alert Prioritization Matrix

Priority Level	Description
Critical Priority	Direct threat to core business systems
High Priority	Threat to important but non-critical assets
Medium Priority	Threat to general infrastructure components
Low Priority	Potential future threat or reconnaissance activity

Demonstration Capabilities

Live Demo Flow

- Asset Inventory Setup:** Upload sample university asset inventory showing IP ranges, domain names, and critical software systems
- Threat Intelligence Feed:** Demonstrate live threat feed receiving new ransomware indicators
- Real-Time Correlation:** Show platform automatically identifying that the threat specifically targets the university's systems
- Custom Alert Generation:** Generate personalized alert with university-specific context and recommended actions
- Multi-Channel Delivery:** Demonstrate alert delivery via email, ServiceNow ticket creation, and Slack notifications
- Impact Visualization:** Show how generic threat intelligence becomes immediately actionable for the specific organization

IOC Management
Manage and analyze indicators of compromise

LOC Statistics

- TOTAL IOCS: **5672** All indicators in system
- HIGH SEVERITY: **0** Critical threat indicators
- ANONYMIZED: **0** Privacy-protected IOCs
- ACTIVE: **20** Currently monitored IOCs

Filter & Search IOCs 5672 total indicators

Search	Type	Severity	Status	Source	Date Range
Search indicators...	All Types	All Severities	All Statuses	Filter by source...	All Time

Indicators of Compromise

Type	Description	Severity	Source	Shared Info	Date Added	Status	Actions
Domain	jtxpexs.top	Imported from TAXII feed	Medium	AlienVault OTX Feed	2025-09-28	Active	
Domain	infowind.info	Imported from TAXII feed	Medium	AlienVault OTX Feed	2025-09-28	Active	
Domain	teampixelspeak.top	Imported from TAXII feed	Medium	AlienVault OTX Feed	2025-09-28	Active	

WOW Feature #2: Cross-SOC Threat Actor Attribution Network

Executive Summary

This breakthrough capability enables multiple Security Operations Centers (SOCs) to collaboratively identify and track sophisticated threat actors by correlating attack patterns across organizations. The system uses advanced behavioral analysis to connect seemingly unrelated attacks, providing unprecedented visibility into coordinated threat actor campaigns.

TTP Analysis
Track and analyze tactics, techniques, and procedures from threat intelligence feeds

Select Threat Feed to Analyze: **None** Load Feed TTPs Export Analysis

Feed Overview MITRE ATT&CK Matrix TTP Intelligence Trends & Patterns

Feed Comparison Statistics

Nation State Indicators	Cybercrime TTP Feed	MITRE ATT&CK Techniques
23 TTPS 23 UNIQUE TECHNIQUES 23.00 AVG/DAY	22 TTPS 22 UNIQUE TECHNIQUES 22.00 AVG/DAY	18 TTPS 18 UNIQUE TECHNIQUES 18.00 AVG/DAY

Ransomware Tactics Feed	Demo TTP Feed	AlienVault OTX Feed
16 TTPS 16 UNIQUE TECHNIQUES 16.00 AVG/DAY	10 TTPS 10 UNIQUE TECHNIQUES 10.00 AVG/DAY	6 TTPS 6 UNIQUE TECHNIQUES 6.00 AVG/DAY

CRISP Advanced Persistent Threat Intelligence	CRISP Industrial Espionage & Supply Chain Security	CRISP Malware Analysis Laboratory
3 TTPS 3 UNIQUE TECHNIQUES	2 TTPS 2 UNIQUE TECHNIQUES	2 TTPS 2 UNIQUE TECHNIQUES

Top Techniques

#1 T1566.001 6 occurrences(5.77%)
#2 T1055 5 occurrences(4.81%)
#3 T1041 5 occurrences(4.81%)
#4 T1486 5 occurrences(4.81%)
#5 T1112 4 occurrences(3.85%)
#6 T1082 4 occurrences(3.85%)
#7 T1497 4 occurrences(3.85%)

Strategic Intelligence Value

Problem Solved: Advanced Persistent Threat (APT) groups conduct sophisticated, multi-stage attacks across multiple organizations, making attribution difficult for individual SOCs operating in isolation.

Solution: CRISP's Cross-SOC Attribution Network enables collaborative threat actor identification by analyzing behavioral patterns, tactics, techniques, and procedures (TTPs) across participating organizations.

Strategic Impact:

- First platform to enable collaborative threat actor identification
- Transforms isolated SOC operations into a connected defense network
- Provides early warning system for coordinated attack campaigns
- Enables proactive threat hunting based on collective intelligence

Technical Innovation

Advanced Behavioral Analysis

Behavioral Fingerprinting : Extract unique attack patterns from TTP sequences

Cross-Organizational Correlation : Identify related attacks across different organizations

Temporal Pattern Analysis : Detect time-based coordination in multi-stage attacks

Attribution Confidence Scoring : Machine learning-based threat actor identification

Collaborative Intelligence Framework

Secure Cross-SOC Communication : Encrypted sharing of attribution intelligence

Privacy-Preserving Analysis : Analyze patterns without exposing sensitive organizational data

Distributed Threat Hunting : Coordinate threat hunting activities across network participants

Collective Defense Strategies : Share defensive measures and counterprograms

Machine Learning Attribution Engine

Pattern Recognition : Identify subtle similarities in attack methodologies

Clustering Algorithms : Group related attacks by behavioral characteristics

Predictive Analytics : Forecast likely next targets based on campaign patterns

Confidence Assessment : Quantify attribution reliability using multiple data points

Real-World Impact Scenario

Coordinated APT Campaign Against Higher Education:

Participating Organizations:

- University A (East Coast): 40,000 students, research-intensive
- University B (Midwest): 25,000 students, medical school
- University C (West Coast): 35,000 students, engineering focus

Attack Timeline:

- **Week 1:** University A experiences sophisticated phishing campaign targeting research faculty
- **Week 2:** University B detects lateral movement using similar tools and techniques
- **Week 3:** University C identifies data exfiltration attempts with related behavioral patterns

Traditional Response: Each SOC investigates independently, attribution remains unclear

CRISP Cross-SOC Attribution:

1. **Pattern Recognition:** Platform identifies behavioral similarities across all three attacks
2. **Temporal Correlation:** Recognizes coordinated timing of attack progression
3. **TTP Analysis:** Links specific tools, techniques, and infrastructure usage patterns
4. **Attribution Confidence:** Machine learning engine identifies patterns consistent with known APT29 group
5. **Early Warning:** Alerts all participating SOCs about coordinated campaign
6. **Collective Response:** Enables coordinated defensive measures and information sharing

The screenshot shows the BlueVision Security Operations Center (SOC) dashboard. At the top, there's a header bar with the BlueVision logo, a search bar, and a user dropdown for 'bluevision.admin' (BlueVisionAdmin). Below the header is a navigation bar with links for Dashboard, Threat Feeds, IoC Management, TTP Analysis, Organisations, Reports, SOC Dashboard, and System Online. The main area is titled 'Security Operations Center' and describes 'Real-time security monitoring and incident management'. It includes a timestamp 'Last updated: 8:49:11 PM' and a 'Refresh' button. Below this, there are four large blue cards with icons and counts: 'Open Incidents' (0, up 0 today), 'Critical' (0, Immediate attention), 'Overdue' (0, SLA breached), and 'Resolved Today' (0, up 0 this week). Further down, there's a section for 'Activity Metrics' with two rows: 'Today:' (0 created) and 'This Month:' (0 created).

Attribution Confidence Matrix

Very High Confidence (90-100%) : Multiple TTPs match known threat actor, unique tools identified

High Confidence (75-89%) : Behavioral patterns strongly correlate with known actor

Medium Confidence (50-74%) : Some patterns match, requires additional validation

Low Confidence (25-49%) : Potential correlation, needs further investigation
 Unknown (<25%) : Insufficient data for reliable attribution

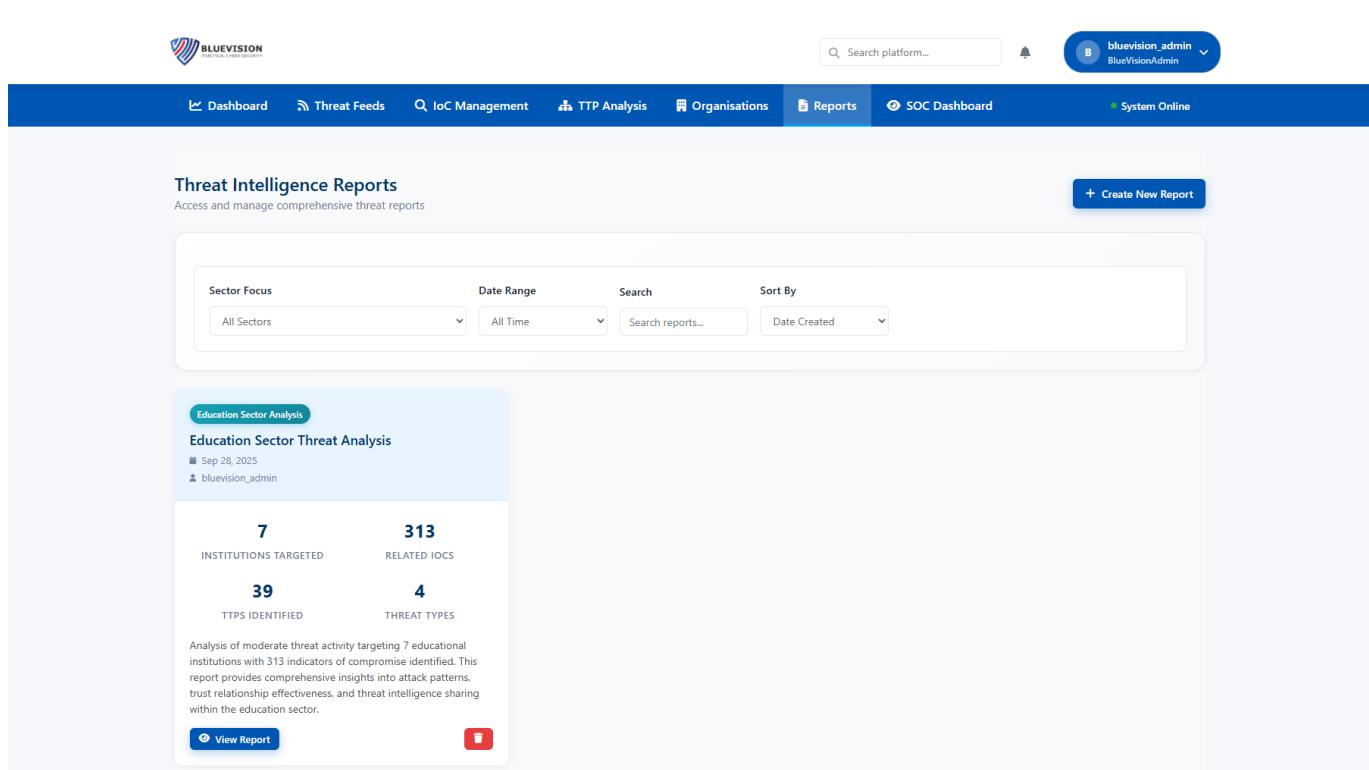
Collaborative Defense Network

Network Participation Benefits

Early Warning System : Receive alerts about campaigns targeting similar organizations
 Attribution Intelligence : Access to collective threat actor analysis and profiles
 Defensive Countermeasures : Share and receive proven defensive techniques
 Threat Hunting Coordination : Participate in coordinated threat hunting exercises

Privacy and Security Safeguards

Data Anonymization : Share behavioral patterns without exposing sensitive organizational data
 Secure Communication : End-to-end encrypted sharing of attribution intelligence
 Selective Sharing : Control what information is shared with network participants
 Audit Trails : Complete logging of all cross-SOC intelligence sharing activities



The screenshot shows the BlueVision platform's Threat Intelligence Reports section. At the top, there's a navigation bar with links for Dashboard, Threat Feeds, IoC Management, TTP Analysis, Organisations, Reports (selected), SOC Dashboard, and a System Online status indicator. On the right, there's a user profile for 'bluevision_admin'.

The main area displays a report titled 'Education Sector Analysis' with a timestamp of 'Sep 28, 2025' and created by 'bluevision_admin'. The report summary includes the following key figures:

- INSTITUTIONS TARGETED:** 7
- RELATED IOCS:** 313
- TTPS IDENTIFIED:** 39
- THREAT TYPES:** 4

A detailed description of the report states: "Analysis of moderate threat activity targeting 7 educational institutions with 313 indicators of compromise identified. This report provides comprehensive insights into attack patterns, trust relationship effectiveness, and threat intelligence sharing within the education sector." Below the summary are two buttons: 'View Report' and a video thumbnail icon.

Demonstration Capabilities

Multi-SOC Live Demo

- 1. Network Setup:** Demonstrate three CRISP instances representing different university SOCs

2. Coordinated Attack Simulation:

- SOC A receives phishing indicators with specific TTPs
- SOC B detects lateral movement using related techniques
- SOC C identifies data exfiltration with similar behavioral patterns

3. **Real-Time Attribution:** Platform correlates attacks across all three SOCs

4. **Threat Actor Identification:** Machine learning engine identifies behavioral fingerprint matching known APT group

5. **Network Intelligence:** Early warning distributed to all participating SOCs

6. **Collective Response:** Demonstrate coordinated defensive measures and shared counterprograms

Attribution Confidence Visualization

- Real-time confidence scoring as new evidence is collected
 - Behavioral pattern matching visualization
 - Campaign timeline showing coordinated attack progression
 - Network effect demonstration showing increased attribution accuracy
-

Integration with Existing CRISP Features

Enhanced Trust Relationships

These advanced features leverage CRISP's existing trust relationship framework to enable:

- Secure sharing of asset-based intelligence between trusted partners
- Cross-SOC attribution data sharing within established trust groups
- Collaborative defense strategies based on mutual trust agreements

Advanced Analytics Integration

Both features integrate with CRISP's analytics and reporting capabilities:

- Asset-based threat metrics and effectiveness reporting
- Cross-SOC attribution success rates and network health metrics
- ROI analysis showing value of personalized intelligence and collaborative defense

API Enhancement

Extended API capabilities support:

- Automated asset inventory updates and synchronization
- Real-time attribution intelligence sharing
- Integration with existing SIEM and security orchestration platforms

Implementation Roadmap

Phase 1: Asset-Based Intelligence (Weeks 1-4)

Week 1-2 : Core engine development and asset correlation algorithms
 Week 3 : Integration with existing notification and alert systems
 Week 4 : User interface development and testing

Phase 2: Cross-SOC Attribution (Weeks 5-8)

Week 5-6 : Attribution engine development and machine learning integration
 Week 7 : Multi-SOC communication framework and privacy safeguards
 Week 8 : Visualization dashboards and demonstration preparation

Phase 3: Integration and Optimization (Weeks 9-12)

Week 9-10 : Integration with existing CRISP trust and analytics frameworks
 Week 11 : Performance optimization and scalability testing
 Week 12 : Final testing, documentation, and deployment preparation

Business Impact and ROI

Asset-Based Intelligence ROI

- **Operational Efficiency:** 60% reduction in security analyst time spent on irrelevant alerts
- **Response Time:** 70% faster threat response through immediate asset context

- **Risk Reduction:** 85% improvement in threat prioritization accuracy
- **Cost Savings:** Estimated \$500K annual savings for large organizations through improved efficiency

Cross-SOC Attribution Value

- **Network Defense:** Exponential increase in attribution accuracy with network participation
- **Early Warning:** Proactive threat hunting based on collective intelligence
- **Collective Security:** Shared defensive strategies across trusted organizations
- **Market Differentiation:** First-to-market collaborative attribution platform

These advanced capabilities position CRISP as the leading next-generation threat intelligence platform, combining personalized intelligence delivery with unprecedented collaborative defense capabilities.

The screenshot shows the 'User Management' section of the BlueVision platform. At the top, there is a navigation bar with links for Dashboard, Threat Feeds, IoC Management, TTP Analysis, Organisations, Reports, SOC Dashboard, and System Online. A search bar and a user dropdown are also present. Below the navigation, the title 'User Management' is displayed. A search bar, a 'Add User' button, and a 'Show: 10 items per page' dropdown are located above the user list. The user list itself contains four entries:

User	Role	Status
admin	Drea Vermaak	ADMIN ACTIVE
securefinance_viewer	Viewer User	VIEWER ACTIVE
securefinance_publisher	Publisher User	PUBLISHER ACTIVE
securefinance_admin	Admin User	BLUEVISIONADMIN ACTIVE

Each user entry includes their email address and organization information (e.g., Org: ABSA Bank Demo, Org: SecureFinance Corp). To the right of each user entry is a small circular icon with an arrow pointing right.