

VIOE - Vulnerability Intelligence & Orchestration Engine

Known Limitations & Assumptions

Document Version: 1.0 **Classification:** Internal / Enterprise Client **Last Updated:** January 2026

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1. Document Purpose

1.1 Purpose

This document transparently communicates VIOE's current limitations, constraints, and the assumptions under which the platform operates. This transparency:

- Prevents false expectations
- Enables informed decision-making
- Supports proper implementation planning
- Identifies areas for future enhancement

1.2 Audience

- Product Owners evaluating capabilities
- Implementation teams planning deployments
- Enterprise customers assessing fit
- Internal teams for roadmap planning

1.3 Commitment

We are committed to continuously improving VIOE. Many limitations listed here are being actively addressed. This document will be updated as limitations are resolved.

2. Technical Limitations

2.1 Data Volume Limits

Limitation	Current Limit	Impact
Bulk import batch size	100 items per operation	Large imports must be batched
Single file upload size	50 MB maximum	Large scan files must be split
Items per page	50 items maximum	Pagination required for large lists
Export row limit	10,000 rows	Large exports require filtering

Workaround: For large data volumes, use API integration with pagination or batch imports into multiple operations.

2.2 Browser Support

Limitation	Current State	Impact
Supported browsers	Chrome, Firefox, Edge (latest 2 versions)	Older browsers may have issues
Mobile browsers	Functional but not optimized	Desktop recommended
Safari	Supported with minor limitations	Some features may differ
Internet Explorer	Not supported	Legacy browser users affected

Recommendation: Use latest Chrome, Firefox, or Edge for optimal experience.

2.3 Real-Time Limitations

Limitation	Description	Impact
Dashboard refresh	Manual or periodic refresh	Not instant real-time
Integration sync	Polling-based, not instant	Delay in external updates
Notification delivery	Near real-time, not guaranteed instant	Slight delays possible

Note: Critical alerts are prioritized but may have seconds of delay.

2.4 Performance Boundaries

Scenario	Expected Performance	Notes
Dashboard load	<3 seconds	With typical data volume
Vulnerability list	<2 seconds	First 50 items
Report generation	<60 seconds	Standard reports
Compliance report	<120 seconds	Full framework report
Large export	Variable	Depends on data volume

Factors affecting performance: Data volume, concurrent users, network conditions.

2.5 API Limitations

Limitation	Current State	Impact
Rate limiting	100 requests/minute	High-volume automations throttled
Payload size	5 MB maximum	Large data must be chunked
Concurrent connections	Per account limit	Excessive parallelism blocked
Webhook retry	3 attempts	Unreliable endpoints may miss events

3. Operational Constraints

3.1 User & Access Constraints

Constraint	Description	Impact
Concurrent sessions	Limited per user	Multiple devices may conflict
Session timeout	30 minutes inactivity	Unsaved work may be lost
Password complexity	Required	Users must meet requirements
Role changes	Immediate effect	May impact active sessions

3.2 Data Management Constraints

Constraint	Description	Impact
No bulk delete	Items deleted individually	Large cleanup is time-consuming
Suppression retroactivity	New rules don't unsuppress existing	Manual review needed
Historical data	Limited editing	Past records mostly read-only
Audit log immutability	Cannot modify audit logs	By design for compliance

3.3 Workflow Constraints

Constraint	Description	Impact
Status transitions	Must follow defined paths	Cannot skip states
Assignment changes	One team at a time	No multi-team assignment
Task dependencies	Not enforced	Manual coordination required
SLA customization	Admin configuration only	Users cannot adjust

3.4 Reporting Constraints

Constraint	Description	Impact
Custom reports	Limited customization	Standard templates only
Scheduled reports	Not available (current)	Manual generation required
Cross-report drill-down	Limited	Some manual navigation
Historical comparison	Limited periods	Long-term trend analysis manual

4. Integration Limitations

4.1 Scanner Integration Limitations

Limitation	Description	Impact
Supported scanners	6 currently supported	Others require file import
API variations	Scanner API differences	Some data may not map
Real-time sync	Polling-based	Delay in new findings
Custom fields	Limited mapping	Some scanner data not imported

Supported Scanners: Snyk, SonarQube, Checkmarx, Qualys, Tenable, Rapid7

Workaround: Other scanners can export to CSV/JSON for file import.

4.2 Jira Integration Limitations

Limitation	Description	Impact
Project types	Standard projects only	Advanced projects may vary
Custom fields	Limited mapping	Some fields not synced
Status mapping	Configuration required	Must match workflow
Attachments	Not synced	Manual attachment needed
Comments	Not synced	Communication separate

Note: Jira Cloud and Server supported; Data Center may have differences.

4.3 Slack Integration Limitations

Limitation	Description	Impact
Message formatting	Standard format only	No customization
Interactive actions	Limited	Some actions open VIOE
Private channels	Requires bot invitation	Manual channel setup
Thread replies	Not supported	All messages to channel

4.4 Directory Integration Limitations

Limitation	Description	Impact
Sync frequency	Periodic, not real-time	Delay in user changes
Nested groups	Limited support	Flat group mapping preferred
Custom attributes	Limited mapping	Standard attributes only
Two-way sync	One-way (from directory)	VIOE changes not written back

5. AI & Automation Limitations

5.1 AI Assignment Limitations

Limitation	Description	Impact
Accuracy ceiling	~85-90% typical accuracy	Some manual review needed
New assets	Lower confidence initially	Learning period required
Ambiguous ownership	May have low confidence	Manual assignment needed
Context limitations	Based on available data	Missing data affects accuracy

Assumption: AI accuracy improves with usage and feedback.

5.2 Data Source Limitations

Limitation	Description	Impact
Git history required	For commit-based assignment	New repos have limited data
CODEOWNERS accuracy	Depends on file maintenance	Outdated files affect assignment
Directory completeness	Depends on directory data	Incomplete orgs affect mapping

5.3 Auto-Fix Limitations

Limitation	Description	Impact
Supported vulnerability types	Limited types	Not all vulns have auto-fix
Fix accuracy	Requires human review	Not fully automated
Language support	Common languages only	Niche languages not supported
Context awareness	Limited to file	May miss broader patterns

Important: Auto-fix suggestions must always be reviewed before application.

5.4 Predictive Analysis Limitations

Limitation	Description	Impact
Historical data required	Predictions need history	New deployments limited
Prediction accuracy	Estimates, not guarantees	Use as guidance
Industry specificity	General patterns	May not match your sector
Emerging threats	Novel threats not predicted	Zero-days not foreseeable

6. Compliance Limitations

6.1 Framework Coverage

Limitation	Description	Impact
Supported frameworks	SOC 2, ISO 27001, GDPR, PCI DSS	Others not available
Control mapping	Automated but not exhaustive	May need manual review
Evidence automation	Partial automation	Some evidence manual
Certification scope	Vulnerability management focus	Doesn't cover all controls

Important: VIOE compliance reports support but do not replace formal compliance assessments.

6.2 Compliance Report Limitations

Limitation	Description	Impact
Point-in-time	Snapshot, not continuous	Regular regeneration needed
Scope	Vulnerability-focused	Other controls not covered
Auditor acceptance	Varies by auditor	May need supplementation
Certification	Does not grant certification	Evidence for process only

6.3 Evidence Limitations

Limitation	Description	Impact
Automatic collection	Limited to VIOE data	External evidence manual
Evidence strength	Varies by control	Some controls weak
Format	Standard formats	Custom formats not supported
Retention	Per retention policy	Historical evidence limits

7. Explicit Assumptions

7.1 User Environment Assumptions

Assumption	Description	If Not Met
Modern browser	Chrome/Firefox/Edge latest	Functionality may be limited
Stable network	Reliable internet connection	Operations may fail
Adequate screen	Desktop/laptop display	UI may be suboptimal
JavaScript enabled	Browser JavaScript on	Application will not work

7.2 Data Quality Assumptions

Assumption	Description	If Not Met
Accurate import data	Scanner data is correct	VIOE reflects source errors
Unique identifiers	CVE/asset uniqueness	Duplicates may occur
Consistent naming	Asset names consistent	Matching may fail
Current directory data	Directory is maintained	Assignment accuracy drops

7.3 Organizational Assumptions

Assumption	Description	If Not Met
Defined teams	Teams exist before import	Assignment has no target
Clear ownership	Code ownership exists	AI has less to learn from
Active management	Regular platform use	Data becomes stale
Process adoption	Teams follow workflows	Benefits not realized

7.4 Integration Assumptions

Assumption	Description	If Not Met
API availability	External APIs accessible	Integrations fail
Credential validity	Tokens/keys are valid	Connections rejected
Format compatibility	Standard data formats	Parsing errors occur
Rate limit compliance	Within API limits	Requests throttled

7.5 Security Assumptions

Assumption	Description	If Not Met
Credential security	Users protect passwords	Account compromise risk
Network security	Traffic is not intercepted	Data exposure risk
Access control	Roles properly assigned	Unauthorized access risk
Audit review	Logs are monitored	Issues not detected

8. Boundary Conditions

8.1 Scale Boundaries

Boundary	Recommended Maximum	Notes
Total vulnerabilities	500,000 active	Performance may degrade beyond
Daily imports	50,000 new items	System can handle more with tuning
Concurrent users	200	Per deployment
Teams	100	Practical limit
Assets	10,000	Active assets

8.2 Time Boundaries

Boundary	Limit	Notes
Report date range	2 years	Performance optimization
Trend history	1 year	Dashboard displays
Audit log	3 years	Compliance retention
Resolved vulnerabilities	2 years	After resolution

8.3 Complexity Boundaries

Boundary	Limit	Notes
Filter combinations	Practical limits	Very complex filters may slow
Suppression rules	100 active	More rules = more processing
Simultaneous integrations	All supported	No explicit limit
Webhook endpoints	20	Per event type

9. Future Considerations

9.1 Limitations Under Active Development

Limitation	Status	Expected
Mobile optimization	In development	Future release
Additional scanners	Ongoing expansion	Per demand
Custom reports	Planned	Future release
Scheduled reports	Planned	Future release

9.2 Limitations Requiring Customer Feedback

Limitation	Feedback Needed
Framework support	Which frameworks are priority?
Integration priorities	Which tools are critical?
Feature gaps	What's blocking your workflow?
Scale requirements	What volumes do you anticipate?

9.3 Providing Feedback

To report limitations or request improvements:

- Contact your account manager
- Submit feature requests through support

- Participate in customer advisory programs

9.4 Version Updates

This document will be updated:

- With each major release
- When significant limitations are resolved
- When new limitations are identified
- Based on customer feedback

Document Control

Version	Date	Author	Changes
1.0	January 2026	Documentation Team	Initial release

Transparency about limitations builds trust and enables success.

VIOE - Vulnerability Intelligence & Orchestration Engine *Known Limitations & Assumptions*