AGD Documentation

MetaDefender Core & MetaDefender Kiosk
Evaluation Assurance Level (EAL): EAL4+, augmented with
ALC_DVS.2, ALC_FLR.2, AVA_VAN.5

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MetaDefender Kiosk v4.7.6

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Version history

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1 Introduction

This Security Target (ST) defines the OPSWAT MetaDefender Core & MetaDefender Kiosk Target of Evaluation (TOE) for the purposes of Common Criteria (CC) evaluation.

OPSWAT MetaDefender Kiosk is a cybersecurity solution for protecting your critical network and assets against removable media threats. MetaDefender Core is a backend component that provides centralized file analysis orchestration capabilities. MetaDefender Core is powered by a suite of cybersecurity technologies such as Multiscanning, Deep CDR, Proactive DLP, Adaptive Sandbox and others to detect, analyze and eliminate malware and zero-day attacks. MetaDefender Kiosk is a front-end component that is used as a media scanning workstation.

Table 1 - TOE Reference

TOE Name	MetaDefender Advanced Threat Prevention solution		
TOE Reference	MetaDefender Core v5.14.2 & MetaDefender Kiosk v4.7.6		
TOE Version and Release Date	MetaDefender Core		
	• Version: v5.14.2		
	• Release date: 2025-05-28		
	MetaDefender Kiosk		
	• Version: v4.7.6		
	• Release date: 2025-06-14		

This document was created to fulfil the following assurance requirements of [CC P3]:

- Operational user guidance (AGD_OPE.1)
- Preparative procedures (AGD PRE.1)

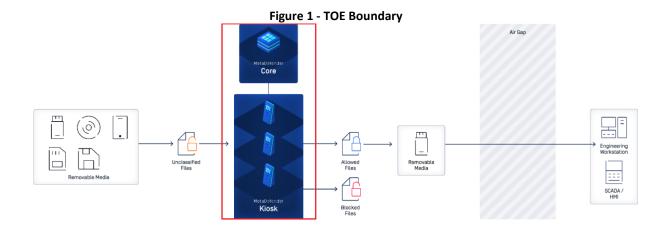
1.1 Purpose

This document provides guidance on the secure installation and secure use of the TOE for the Common Criteria (CC) Evaluation Assurance Level 4 Evaluated Configuration. This should be used as the guiding document for the installation and administration of the TOE in the CC-evaluated configuration. The official MetaDefender Core v5.14.2 & MetaDefender Kiosk v4.7.6 documentation should be referred to and followed only as directed within this document.

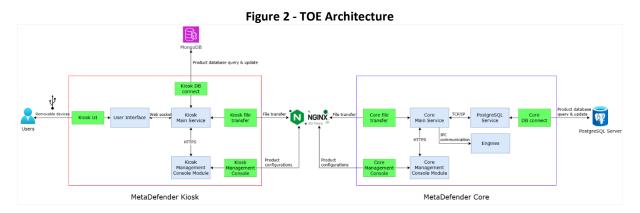
1.2 TOE Configuration

The figure below illustrates the TOE operational environment containing TOE and non-TOE components, that also defines TOE boundary.

TOE in the red box includes two different components (applications): MetaDefender Kiosk and MetaDefender Core (with engines / technologies underneath).



1.3 TOE architecture



The TOE includes the following subsystems and modules:

• MetaDefender Core

- Core Main Service: Service serves as the backend of the system. It acts as the primary interface for receiving requests from clients, as a central point for task distribution, coordinating and assigning jobs to different modules, consolidating results. It receives requests from clients, such as file scans, and determines the appropriate actions to be taken. When a file is submitted for scanning, the Core Main service is responsible for routing the file to the appropriate engines according to the specified workflow rule for analysis.
- PostgreSQL Service: The Core Main Service incorporates a PostgreSQL service as a backend database. This PostgreSQL service is responsible for storing and managing critical data such as scan results, history, statistics, workflow rules and system configurations.
- Engines: A collection of OPSWAT technology modules. The relationship and communication between the Core Main service and Engines is crucial for the system's functionality. These engines are designed to perform analysis, inspection and sanitization of files and data. Some engines focus on a specific aspect of analysis such as malware scanning, behavior analysis, or file type verification. It can detect a wide range of threats such as malware,

- vulnerabilities, and sensitive data. It also can sanitize and prevent possibilities of malicious content.
- Core Management Console Module: This console serves a user-friendly interface for authorized users such as system administrators to monitor and manage MetaDefender Core system. From the console, authorized users can configure system settings, define workflow rules, monitor processing history, check statistics, generate reports and perform various administrative tasks.

• MetaDefender Kiosk

- User Interface: This is a Windows application used to display the user interface.
 It shows the UI for users to interact and scan peripheral devices. When users perform actions from the UI, it calls several APIs through the Kiosk Main Service to retrieve the necessary information and display the results to the user.
- Kiosk Main Service: This is the background service of KIOSK running on Windows. It handles various KIOSK system tasks (authentication, scanning, performing post actions, etc.). It provides protocols for other components to communicate with and returns results for display to the end user.
- Kiosk Management Console Module: This is a webpage for administrators to configure system settings. The console calls APIs to the Kiosk Main Service to load the current configurations. After the administrator makes adjustments, the KIOSK Console calls APIs through the Kiosk Main Service to update the new configurations. The MetaDefender Kiosk Management Console TSFI allows you to manage the MetaDefender Kiosk system through a web browser. The Management Console can be accessed through :8009">https://chetaDefender Kiosksystem>:8009. After an initial, fresh installation, a configuration wizard is displayed to setup the Kiosk Management Console Module.

Table 2 - Subsystems, modules, TSFIs

Subsystem	Module	TSFI	Functions	TSF
MetaDefender	Core Main Service	Core file	File transfer	File Threat Analysis
Core		transfer		Protected
				Communication
				Security
				Management
	PostgreSQL	Core DB connect	Database	File Threat Analysis
	Service		Connect	User
				Authentication
	Engines	-	File Analysis	File Threat Analysis
	Core	Core	File Processing	File Threat Analysis
	Management	Management		Protected
	Console Module	Console		Communication
				User
				Authentication
				Security
				Management
			Dashboard	Protected
				Communication

				User
				Authentication
				Security
				Management
			History	Protected
			Thistory	Communication
				User
				Authentication
				Security
				Management
			Workflow	Protected
			Management	Communication
			Widilagement	User
				Authentication
				Security
				Management
			Inventory	Protected
			inventory	Communication
				User
				Authentication
				Security
				Management
			User	Protected
			Management	Communication
			Widnagement	User
				Authentication
				Security
				Management
				Key generation and
				destruction
			General Settings	Protected
				Communication
				User
				Authentication
				Security
				Management
				Key generation and
				destruction
			Licensing	Protected
				Communication
				User
				Authentication
				Security
				Management
MetaDefender	User Interface	KIOSK UI	Application UI	User
Kiosk				Authentication
				Protected
				Communication
	Kiosk Main	Kiosk file	File discover and	Protected
	Service	transfer	transfer	Communication
	•	•	•	•

	Kiosk DB	Database	Protected
	connect	Connect	Communication
			Security
			Management
Kiosk	Kiosk	Dashboard	Protected
Management	Management		Communication
Console Module	Console		User
			Authentication
			Security
			Management
		Configuration	Protected
			Communication
			User
			Authentication
			Security
			Management
		Workflow	Protected
			Communication
			User
			Authentication
			Security
			Management
		Session Logs	Protected
			Communication
			User
			Authentication
			Security
			Management

There are non-TOE components which are not affect the TOE security listed in [ST] section 1.3.4 Non-TOE Software/Firmware/Hardware from which the following are shown in this figure:

- NGINX
- MongoDB
- PostgreSQL Server

2 Operational User's Guide

The user guidance describes for each user role the security functionality and interfaces provided by the TSF, provides instructions and guidelines for the secure use of the TOE, addresses secure procedures for all modes of operation, facilitates prevention and detection of insecure TOE states, whether it is misleading or unreasonable.

2.1 Functions, privileges, and appropriate warnings

2.1.1 Product functions

- Use with Vault Server
- Email password recovery
- Custom scanners

- Yara rule sources
- Cloud based scanning by 3rd party malware engines
- Sending files to MetaDefender Cloud
- Decryption / unlock of password protected files
- Kiosk visitor management

2.1.2 MetaDefender Core functions

- **File transfer**: This function receives file transferred from Kiosk for scanning and provide results.
- **Database Connect**: This function enables connections to the database and queries the necessary information to display on other components.
- **File Analysis**: This function analyzes and processes files with Engines, then provides detailed results.
- File Processing: This feature likely involves scanning, analyzing, and processing files for malware, security threats, vulnerabilities, or sensitive data. It includes functionalities such as file upload, scanning, threat detection, sanitization, file type verification, and reporting.
- **Dashboard**: This function displays results, detected threats, metrics, statistics, and insights regarding file scans, security status, and system health. It provides users with a visual overview of the system's operation, executive report and security posture.
- History: The processing history maintains a log of file processing activities, scan results, user actions, module update and configuration events. It enables users to track the history of file scans, threats, incidents, and changes made within the system for auditing purposes.
- Workflow Management: This facilitates the configuration of modules, detection policy, blocklist and allowlist. It allows users to define rules for processing files and customize workflows to suit specific requirements.
- **Inventory**: This feature offers a repository of information about all modules, certificates, post actions, external scanners, list of hashes for blocklist and allowlist.
- **User Management**: This involves the administration of user accounts, user directories, roles, permissions, and access controls. It includes functionalities for user authentication, authorization, and user group management customization.
- General Settings: These consist of many different settings such as Module Update, Data Retention, Network, Security, Session, Health Check that users can adjust to customize the system according to their needs.
- **Licensing**: This provides an activation feature and outlines the rights of users regarding the usage, modules, and expiry date of customer's purchase.

Table 3 - MetaDefender Core Roles and available functions

Role	TSFI Function		Warning	
Administrator	Core file	File transfer	- Both body data and download link were	
S	transfer		given.	
			- Callback URL is invalid.	

			- File upload rejected due to insuf	ficient
			disk space	
			- Missing Content-Length header.	
			- File is empty.	
			- Local file scan feature is disabled	d.
			- Failed to request scan. File size	exceeded
			the maximum size permitted by	your
			configuration.	
			- Failed to request scan. Try again	later.
			- File not found, invalid path or ac	cess.
			- License is expired	
			- No available rule is present for s	canning.
			- Server is too busy. Try again late	er.
Administrator	Core DB	Database	- There's a problem when connec	ting to
s	connect	Connect	the database. Please contact yo	ur
			administrator.	
Administrator	Core	File Processing	- You are not authorized to use ar	ny scan
s	Management		configuration. Contact your syst	em
	Console		administrator.	
			- The selected file is empty.	
			- No file selected	
			- File selected larger than +	
			{rule.max_file_size} + MB	
			- No file selected + {rule.max_file	_size} +
			MB	
			- Did not receive data_id from ser	ver!
			- The HASH or Data ID is not valid	
			- The Data ID was not found	
			- You are not authorized to view s	can
			results.	
			- Error occurred	
			- The HASH was not found	
			- The hash is not valid	
			- An error occurred while cancelli	ng the
			process.	
	Core	Dashboard	- An error occurred when fetching	statistic
	Management		information.	
	Console		- An error occurred while downlo	ading
			report.	
			- An error occurred while modifyi	ng the
	i .	i		
			Settings.	
			Settings.Support is only available for the	
	Management	Dashboard	 The Data ID was not found You are not authorized to view seresults. Error occurred The HASH was not found The hash is not valid An error occurred while cancelling process. An error occurred when fetching information. An error occurred while downlow report. An error occurred while modifying 	ng the g statistic ading

Core	History/Processi	-	An error occurred while cleaning up.
Management	ng History	_	Hash's length should be 32, 40 or 64.
Console	,		, , , , , , , , , , , , , , , , , , , ,
Core	History/Config	_	An error occurred while loading history.
Management	and Update		7 in error occurred write loading history.
Console	history		
Core	Workflow	_	Can not create item.
			Can not update item.
Management Console	management	-	•
Console		-	Error: duplicate hash
		-	Can not clone item.
		-	Ordering error.
		-	No changes detected.
		-	Validation failed.
		-	Can not load menu
		-	An error occurred while loading
		-	Can not load mapping schema
		-	Can not load remote field.
		-	Can not load data.
		_	An error occurred while create tabs
			order
		_	Rule names must be unique
Core	History/Quaranti	_	An error occurred while cleaning up.
Management	ne		An error occurred while modifying
Console	TIE	_	
Console			settings. + {server error}
		-	An error occurred when deleting
			records.
		-	An error occurred when sending records
			to MetaDefender Cloud.
		-	An error occurred when pinning record.
			\${server error}
		-	An error occurred while protecting
			records
		-	An error occurred while unprotecting
			records.
		-	An error occurred when sending record
			to Adaptive Sandbox.
		_	An error occurred while sending records
			to Adaptive Sandbox.
		_	An error occurred when sending record
			to SBOM.
			An error occurred when sending records
		-	to SBOM.
		-	Hash length should be 64. Please note
			that only SHA256 is supported at the
			moment

		- Data ID length should be 32
Core	Inventory\Modu	- Manual update triggering failed
Management	les	- An error occurred while saving
Console		configuration.
		- Source package generating failed
		- Source: \${source} is still disabled.
		- Source: \${source} is still enable.
		- An error occurred while deleting source.
		- An error occurred while removing
		module.
		- No option selected to remove.
Core	Inventory\Skip	- An error occurred while deleting the
Management	by hash	hash.
Console		- An error occurred while loading
		available engines.
Core	Inventory\Exter	- An error occurred while deleting the
Management	nal scanner	external scanner.
Console		- An error occurred while loading the
		external scanners.
Core	Inventory\Post	- An error occurred while deleting the post
Management	action	action
Console		- An error occurred while loading the post
Core	Inventory\Certifi	actions An error occurred while deleting the
Management	cate	certificate.
Console	Inventory\Webh	- An error occurred while deleting the
CONSOIC	ook	certificate
	Authentication	
Core	Inventory\Passw	-
Management	ord Storage	
Console	ord Storage	
Core	User	- An error occurred while loading
Management	Management	- Item already exists
Console	ivialiageillellt	
Core	Settings\General	- Max queue size must be less than or
Management	Jettings (delieral	equal 40000!
Console		
	Cottings\ Free:!	
Core	Settings\Email	-
Management	Notification	
Console	Catting	An owner passional subtle control
Core	Settings\Health	 An error occurred while saving modification.
Management	Check	mounication.
 Console		

Core Management Console	Settings\Securit Y	-	An error occurred while setting PIN code An error occurred while saving modification An unexpected error occurred. Please try again.
Core Management Console	Settings\Network	-	Seems something went wrong. Please try again later. Seems something went wrong. Please check your email configurations again An error occurred while configuring database connection. Please provide username and password of Master Proxy An error occurred while loading email configuration An error occurred while loading proxy configuration An error occurred while changing database password Failed to connect to database An error occurred while testing database connection.
Core Management Console	Settings\Data retention	-	Settings updated failed. + {server error}
Core Management Console	Settings\Import/ Export	-	Can not download config.
Core Management Console	Settings\Central Management	-	An error occurred while loading configuration An error occurred while saving modification An error occurred while disconnecting from Central Management. Please, try again later!
Core Management Console	Licensing		Deactivation failed. An error occurred while activation. An error occurred while delete backup license An error occurred while nominate license An error occurred while activation. An error occurred while backup. Failed to get available licenses, Failed to get OLMS activation information Failed to test connection

Security	Core	All except User	Like above
administrator	Management	Management,	
S	Console	Licensing, Config	
	00113010	History,	
		Dashboard\Exec	
		utive Report,	
		' '	
		Inventory\Passw	
		ord Storage,	
		Settings\Email	
		Notification,	
		Settings\Securit	
		у,	
		Settings\Networ	
		k, Settings\Data	
		Retention,	
		Settings\Export/	
		Import,	
		Settings\Central	
		Management.	
Security	Core	All except	Like above
auditor	Management	Dashboard\Exec	
	Console	utive Report,	
		Inventory\Passw	
		ord Storage,	
		Settings\Email	
		Notification,	
		Settings\Networ	
		k,	
		Settings\Export/	
		Import,	
		Settings\Central	
		Management.	
Help desk	Core	All except	Like above
	Management	Dashboard\	
	Console	Executive Report	
	20113010	and System	
		Health, User	
		Management,	
		Licensing,	
		Inventory\Passw	
		ord Storage,	
]	
		Settings\Email	
		Notification,	
		Settings\Securit	
		у,	

		Settings\Networ	
		k,	
		Settings\Module	
		Update,	
		Settings\Data	
		Retention,	
		Settings\Health	
		Check,	
		Settings\Export/	
		Import,	
		Settings\Central	
		Management,	
		History\Config	
		history,	
		History\Quaranti	
		ne,	
		Inventory\Certifi	
		cates,	
		Inventory/Webh	
		ook	
		authentication.	
Anonymous	Core	File processing	Like above
	Management		
	Console		

2.1.3 MetaDefender Kiosk functions

- **Application UI**: This function allows users to interact with the KIOSK system through interface pages. Users can perform actions such as selecting a workflow, authenticating, choosing files to scan, and selecting post-scan actions.
- **Database Connect**: This function enables connections to the database and queries the necessary information to display on other components.
- **File discovery and transfer**: This function allows users to discover files on a USB device and transfer them to MD Core for scanning.
- **Dashboard**: This function provides a summary of all files processed by MetaDefender Kiosk. It is the first function encountered when logging into the console, offering an overview of processing activities.
- **Configuration**: This function allows administrators to configure global settings on the KIOSK system.
- **Workflow:** This function enables administrators to configure workflows for Employees and Guests.
- **Session Logs:** This function provides information about scanning sessions, enabling administrators to perform audits when necessary.

Table 4 - MetaDefender Kiosk Roles and available functions

Role	TSFI	Function	Warning
Administrator	Kiosk	Configuration	- Error! No API key specified
	Management		- Invalid Core server url or API key
	Console		- Path is required
			- Invalid file path
			- Invalid email
			- File is empty. Please select a file
			with content.,
			- Please fill out mandatory fields
			before saving configuration
			- Unsupported configuration
			format
		Dashboard	NA
		Workflow	- Failed to save. Missing some
			required fields
	Kiosk DB	Database Connect	- Page not found
	Connect		
Auditor	Kiosk	Session Logs	- Attach file is not found
	Management		
	Console		
User/Guest	KIOSK UI	Application UI	- A name is required
			- Error loading the authentication
			module
			- Incorrect Name or Password
			- Inaccessible content found on the
			media, processing will continue
			- File could not be opened
	Kiosk file	File discovery and	- Invalid Core Setup
	transfer	transfer	Please contact administration.
			- MetaDefender processing was
			aborted because a blocked file
			was found
			- File exceeds maximum allowed
			size on MetaDefender
			- Not all files were processed by
			MetaDefender
			- Connection lost with
			MetaDefender
			- MetaDefender processing was
			canceled,
			- Unknown aborted reason
			- Invalid media. Not enough space
			available for copy. Need at least
			- Session timeout

	-	Connection to MetaDefender has
		been interrupted, attempting to
		connect
	-	MetaDefender is too busy

2.2 MetaDefender Core functions

Brief introduction of the user-accessible functions in the TOE scope.

2.2.1 File transfer

Purpose: MetaDefender Core provides a function that receives files transferred from KIOSK for analysis and scanning via REST API. Data ID is returned via REST API response. KIOSK can fetch scan results with that Data ID via REST API.

Method of use: send files from KIOSK, call REST API to post file of MetaDefender Core or analyze file via Web Interface of MetaDefender Core.

Parameters:

- Filename: while file is sent to MetaDefender Core via REST API, clients such as KIOSK, Web Interface put name of its file into "filename" header.
- File content: must be added to HTTP request body.

For more details, please see chapters "Process Files via REST API" and "Analyze File (Asynchronous mode)" of [MDCore].

2.2.2 Database Connect

Purpose: MetaDefender Core provides a function to connect to a PostgreSQL database and retrieve necessary information to display and update data from other components within the system.

Method of use: Users can update PostgreSQL server information via Core Management Console.

Local DB Parameters: database user credential and database information.

Remote DB parameters: admin user credentials, server, port

For more details, please see chapter "Database Management" of [MDCore].

2.2.3 File Analysis

Purpose: MetaDefender Core analyze files with Engines and provide analysis results.

Method of use: This is internally connected to Core Main Service. When Core Main Service receives files from Core file transfer or Core Management Console, Core Main Service distributes files to Engines for analysis, Engines will process the files with preconfigured workflow settings and return results to Core Main Service.

For more details, please see chapter "Process files with MetaDefender Core", "Analyze File (Asynchronous mode)" and "Fetch Analysis Result" of [MDCore].

2.2.4 File Processing

Method of use: MetaDefender Core provides 2 ways for users to process files: Web Interface (via Core Management Console) and REST API (via Core File Transfer).

By default, anonymous users¹ and authorized users can access both ways to post files to MetaDefender Core, and anonymous users can process files with only two workflow rules "File process" and "File process without archive". Administrators can change and restrict access.

Figure 3 - File Processing





Parameters:

On Web Interface (Core Management Console), users can upload a file in the form above. After selecting a file, two options will appear beneath the form. The first option "Password protected file?" is for users to input password if the file is password protected. The second option, a dropdown list, is an option to choose Workflow Rule. Users select a workflow rule from the dropdown list, for example, "File process" to process the file and input password if the file is password protected.

Raw binary file content must be packed in a single payload and streamed over to MetaDefender Core.

Chunked transfer encoding is not supported to upload files for processing.

All the responses from the server are in JSON format for easy parsing.

Figure 4 - File Processing with parameters

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¹ Through Core REST API, when the user does not put in "apikey" header, it means there is an anonymous user.



TSF response or message:

- Success: Show up a result page where users can see metadata, processing result, verdict, and details.
- Error:
- Callbackurl and/or apikey are invalid.
- Invalid user information or Not Allowed
- o Content-Length header is missing from the request.
- Body input is empty.
- Unexpected event on server
- Server is too busy, scan queue is full. Try again later.

Via REST API, MetaDefender Core recommends using the JSON-based REST API.

- 1. Upload a file to scan (POST /file), then receive data_id from response: (<u>Scan File API</u>) Note: The performance depends on: number of engines, type of file to be scanned, MetaDefender Core's hardware.
 - TSF response or message:
 - 1. Success: HTTP 200 and Data ID of the file
 - 2. Error:
 - 1. HTTP 400 and "Callbackurl and/or apikey is invalid."
 - 2. HTTP 403 and "Invalid user information or Not Allowed"
 - 3. HTTP 411 and "Content-Length header is missing from the request."
 - 4. HTTP 422 and "Body input is empty."
 - 5. HTTP 500 and "Unexpected event on server"
 - 6. HTTP 503 and "Server is too busy, scan queue is full. Try again later."
- 2. Fetch the result with previously received data_id (GET /file/{data_id}) until scan result belonging to data_id doesn't reach the 100 percent progress_percentage: (GET Fetch Analysis Result API).
 - TSF response or message:
 - 1. Success: HTTP 200 and entire analysis report generated by MetaDefender Core.

2. Error:

- 1. HTTP 405 and "Access denied"
- 2. HTTP 500 and "Unexpected event on server"

For more information see section "Process files with MetaDefender Core" in [MDCore].

2.2.5 Dashboard

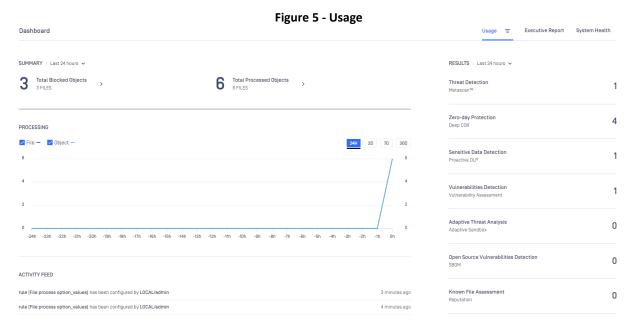
Method of use: MetaDefender Core provides a general overview of MetaDefender Core status and allows you to configure its options of the default auto refresh rate.

The Dashboard consists of 3 subpages: Usage, Executive Report and System health.

Usage page shows information on

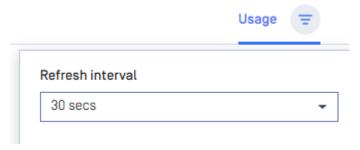
- Number of threats detected
- Number of files sanitized
- Number of detected vulnerabilities
- Total number of files processed
- Average load of all nodes
- Number of active anti-virus engines against total number of AV engines
- The proportion of used and usable Data Sanitization file types
- Number of known CVEs and file hashes in the vulnerability database
- The proportion of used and usable non-AV engines (external scanners, filetype an archive engines)
- Number of connected nodes
- Number of scanned objects in the last 30 days
- Statistics on number of processed files in time
- Statistics on processing results

Administrators, Security administrators and Security auditor can access this page.



Both the default refresh rate (default is 30 seconds) and the span of time displayed (24 hours) can be changed.

Figure 6 - Usage refresh interval



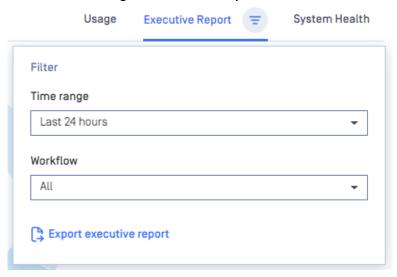
The Executive Report page is to provide all needed statistics processed data.

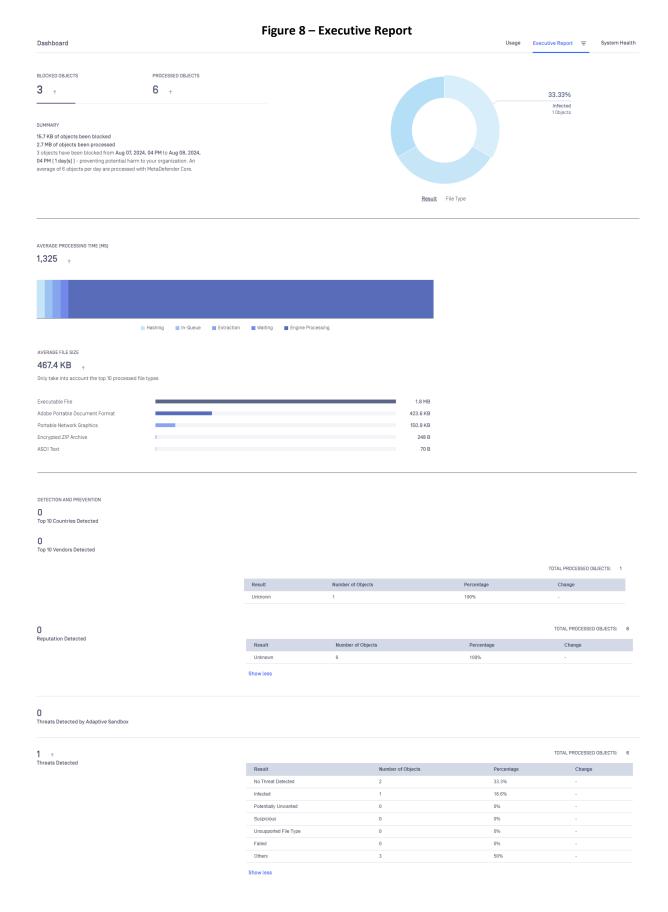
- Number of blocked/processed objects
- Number of results/filetypes (doughnut chart)
- Average processing time
- Average file size
- Top 10 Countries Detected
- Top 10 Vendors Detected
- Number of Reputation Detected
- Number of Threats Detected by Adaptive Sandbox
- Number of Threats Detected by Multiscanning
- Number of Objects Sanitized
- Number of Sensitive Data Detected
- Number of Vulnerabilities Detected
- Number of Vulnerabilities Detected by SBOM

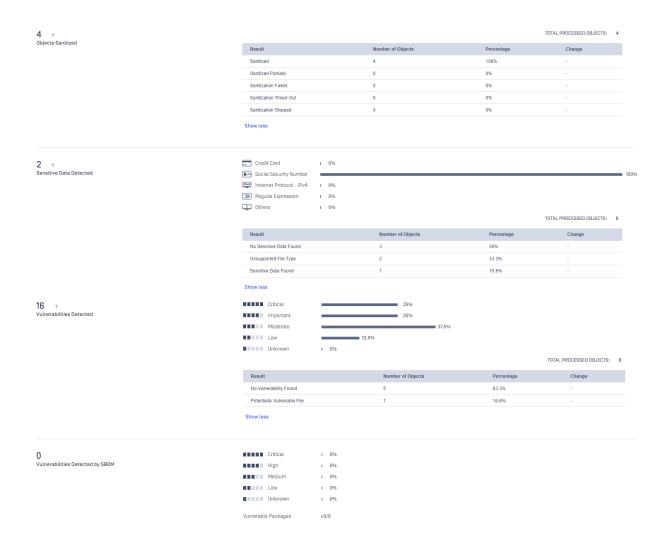
The span of time displayed (24 hours) and workflow can be changed. There is an ability to export a PDF format of this report.

Only the Administrators can access this page.

Figure 7 - Executive Report filter

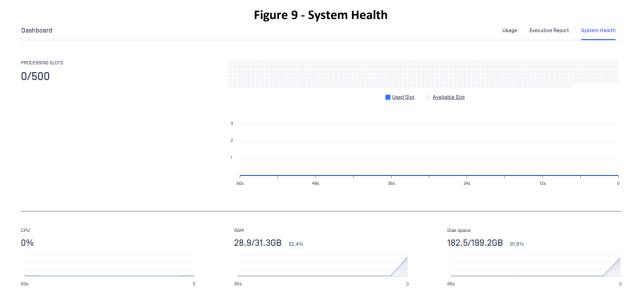






System Health page provides the current system resource status (CPU, memory and disk) and processing performance (scan queue) of MetaDefender Core server.

Administrators, Security administrators and Security auditor can access this page.



2.2.6 History

Processing History page shows information on all scans made on the MetaDefender Core. Search and filter are also supported against each scan result attribute.

Administrators, Security administrators, Security auditor and Help desk can access this.

Figure 10 - Processing History History > Processing History Q Search by file name 🖰 Refresh 🛮 😩 Display settings 🛮 🛕 Cleanup 🗳 Highlighter 📑 Export history 🗸 Workflow Potentially Vulnerable File Executable File Aug 8, 2024 at 3:46:18 PM 1,811 ms 65837...086FA Demo_Sample_1.exe File process LOCAL/admin Sensitive Data Found Adobe Portable Docume... File process LOCAL/admin Aug 8, 2024 at 3:46:09 PM 764 ms sample-sensitive-data.pdf 5922C...257CC sample-eicar.txt ASCII Text File process LOCAL/admin Aug 8, 2024 at 3:45:56 PM 276 ms 8B3F1...EFF71 Encrypted ZIP Archive Aug 8, 2024 at 3:45:02 PM 84 ms 96BD8...5CF29 sample2.png No Threat Detected Portable Network Graphics File process LOCAL/admin Aug 8, 2024 at 3:44:17 PM 1,233 ms 36473...8E795 Aug 8, 2024 at 3:43:21 PM 3,780 ms Adobe Portable Docume... File process FDE00...E664B sample.pdf No Threat Detected LOCAL/admin 20 ▼ items per page < First 1 Last >

On the Processing History page, users can search for:

- MD5, SHA1, SHA256 hashes
- File name (and you can limit search result for a specific scan result, and for specific username who submitted files)
- Source
- User

With many search filters: status, result, action, workflow, datetime.

Search

Search by file name

Status

All

Result

All

Action

All

Workflow

All

Date and Time

All

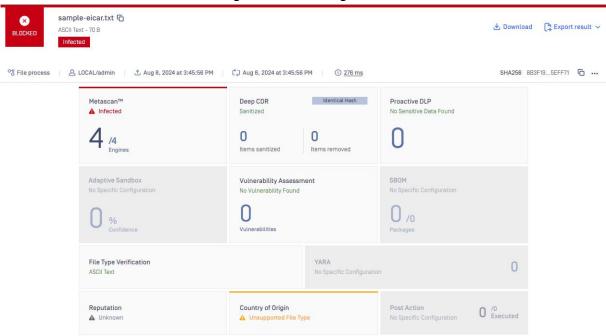
Cancel

Apply

Figure 11 – Processing History search filter

When clicking on a record, it will popup details for processing result, verdict and analyze details.

Figure 12 - Processing result



There is an option to export scan history in CSV or STIX format. For the export, the Result filter can also be applied.

Administrators, Security administrators, Security auditor and Help desk can access this.

- Users can export STIX file by clicking on STIX export button. In addition to set Result filter, STIX file will contain only blocked scans. After the desired time range is selected, the download will be started by clicking on the OK button.
- CSV file is accessible by clicking on the CSV export button and pressing OK after the desired time range selected.

Figure 13 - Export history





For more details, please see chapters "Processing history", "Quarantine", "Update history" and "Configuration history" of [MDCore].

2.2.7 Workflow Management

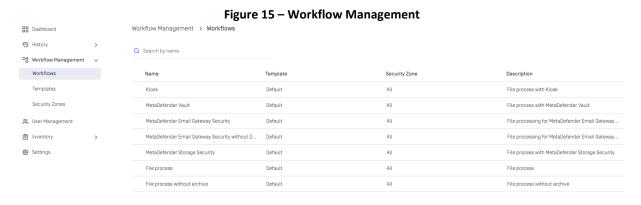
MetaDefender Core can be configured to use different scanning profiles (Workflow Rules) for different clients. Users can tailor workflow rules for their desired purpose and use case.

When MetaDefender Core receives a scan request through REST API, it will match the source address through the zones in the list of rules and apply the first matching rule's workflow. The processing request then will be processed based on this specific workflow.

If a workflow is provided by the REST request, it still should be one which has a matching rule. Otherwise, the scan request will fail.

When MetaDefender Core receives a scan request through the web UI, it will match the source address through the list of rules. The user will be able to select only those workflows with a matching rule. This scan request then will then be processed based on the workflow selected by the user.eAdministrators and Security administrators can access and make changes to this feature. Security auditor and Help desk can view only.e

For more details, please see chapter "Workflow Configuration Template" of [MDCore].



2.2.8 Inventory

Modules: display all the installed engines with details such as engine type, engine version, definition version, status, elapsed time since last update, etc.

Skip by hash: where Administrators can define rules on what files (hashes) should be in blocklist/allowlist, which engines should skip what files.

Certificates: on this page, the path to certificates and private keys for signing scan batches or HTTPS configuration can be configured.

Webhook Authentication: Administrators can request MetaDefender Core to generate a private-public key pair which is used for hardening the security of authentication between the application and client while using Webhook.

External scanners: where Administrators can configure their scanner so that the application integrates and operates the scanners as its own scan engines.

Post actions: Administrators can add and configure a post action which runs after the scan of the file for any post functionality such as copying files, etc.

Password storage: Administrators can add and manage a list of password storage which contains 10 passwords at max. The product will use those passwords for file decryption.

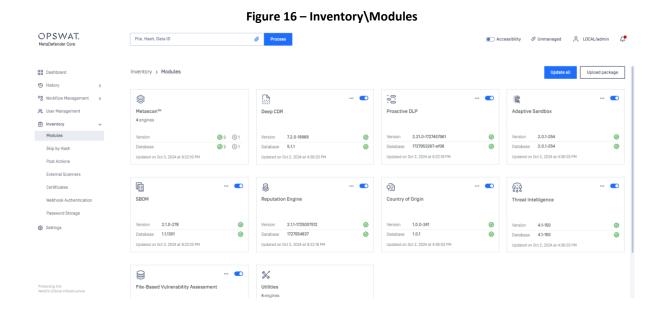
Administrators and Security administrators have full permissions on the configuration under Inventory including Modules, Certificates, Webhook authentication, External scanners, Post actions, Skip by hash settings.

Administrators have full permission to Password storage.

Security auditor can view those settings only.

Help desk can view Modules, Post actions, External scanners, Skip by hash settings. Help Desk cannot view Certificates, Webhook authentication, Password storage.

For more details, please see chapter "Inventory management" of [MDCore].



2.2.9 User Management

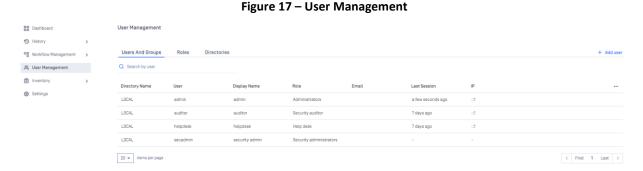
MetaDefender Core provides a feature for managing users, groups, user directories and roles. User can find it in Settings > User Management menu in the Core Management Console.

Administrators can

- Add a new user or AD group
- Modify (and view) existing user's or AD group's properties
- Delete an existing user or AD group

Administrators can access and make changes to this feature. Security administrators and Security auditor can view only. Help desk cannot access this feature.

For more details, please see chapter "User management" of [MDCore].



2.2.10 General Settings

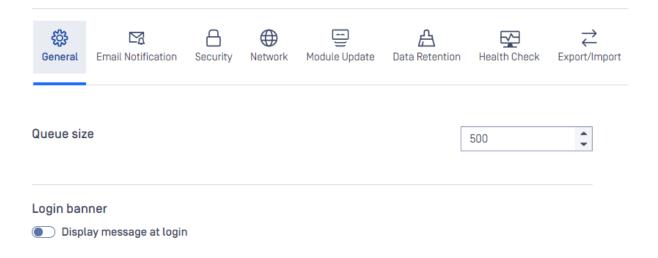
This consists of many settings of MetaDefender Core:

- Email Notification
- Security
- Network
- Module Update
- Data Retention
- Health Check
- Export/Import

General: Including queue size setting and login banner setting.

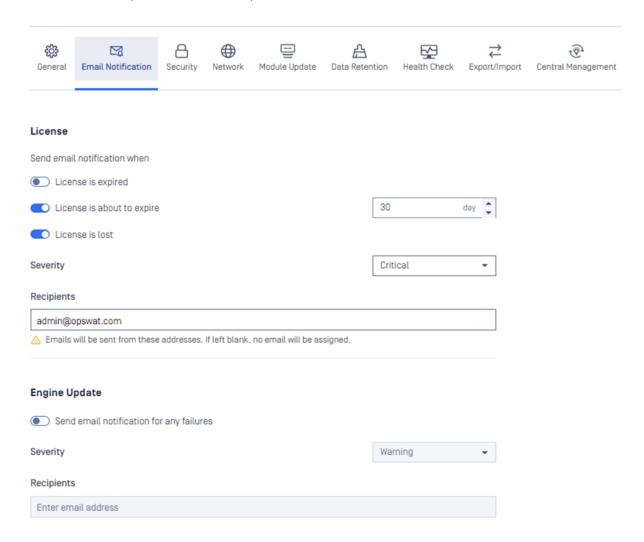
The Administrators and Security administrators have full permission to configure queue size setting. Security auditor and Help desk can view only.

The Administrators has full permission to configure the login banner setting. Security administrators, Security auditor, Help desk cannot access the setting.



Email Notification: Administrators has full permission to configure this setting. Security administrators, Security auditor, Help desk cannot access the settings.

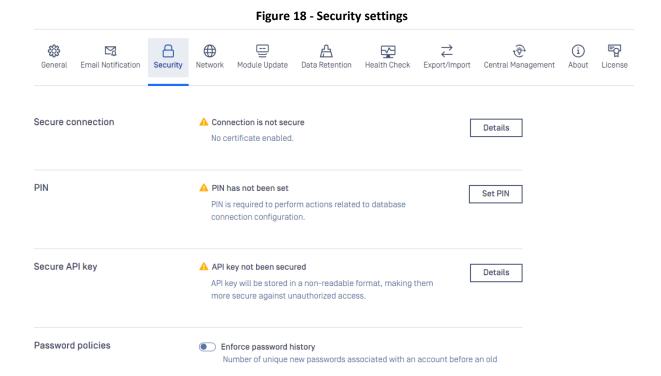
For more details, please see the chapter "Email Notification" of [MDCore].



Security: Administrators can configure HTTPS, Password policy, Session timeout, etc. Security administrators can configure HTTPS only. Security auditor can view only. Help desk cannot access these settings.

For more details, please see the following chapters of [MDCore]:

- Password Policy
- Session Timeout
- Enabling HTTPS



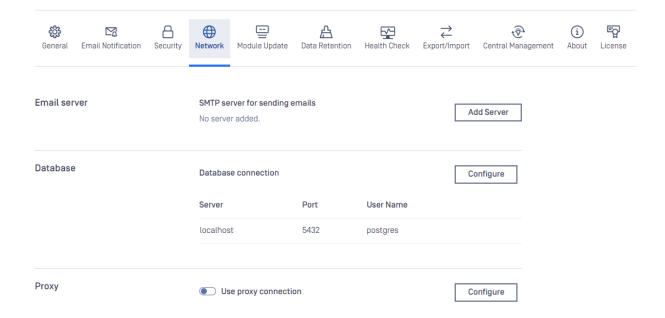
Network: users with administrator privilege on MetaDefender Core are allowed to

- Setup email configurations for SMTP to enable password recovery feature.
- Configure proxy setting and authentication.
- Configure database connection and authentication

For more details, please see the following chapters of [MDCore]:

- Database Management
- Email Configuration
- Proxy Configuration

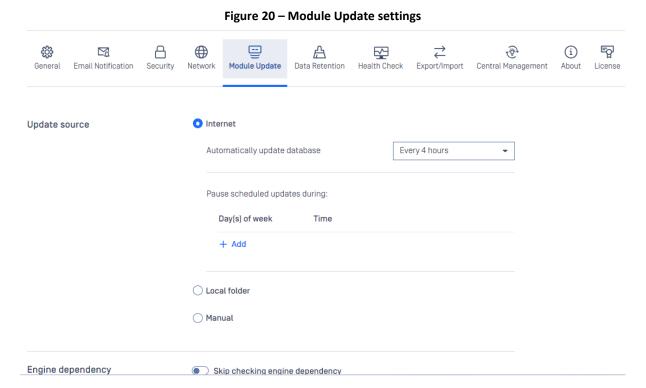
Figure 19 - Network settings



Module Update: these settings provide different methods of module update mechanism.

Administrators and Security administrators can make changes to these settings. Security auditor can view only. Help desk cannot access it.

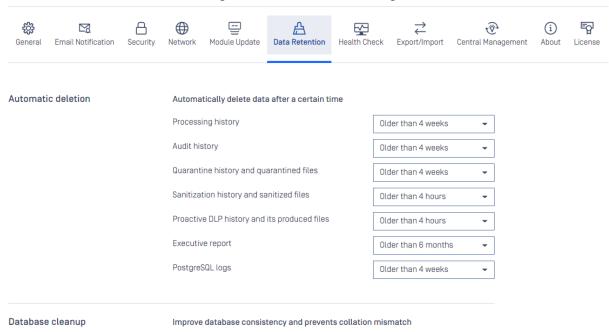
For more details, please see chapter "Engines Update Configuration" of [MDCore].



Data retention: Administrators is allowed to configure data retention settings to automatically clean up scan results, quarantined files, audit log, statistics, sanitized files, Postgres logs if it is older than the defined value.

For more details, please see chapter "Data Retention" of [MDCore].

Figure 21 - Data retention settings

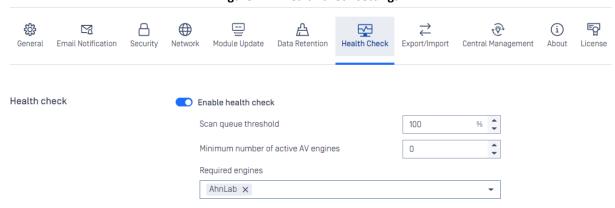


Health check: supports you to verify MetaDefender Core readiness in terms of file processing and licensing, before deciding to submit files and avoiding time and resources being wasted predictably.

Administrators and Security administrators are allowed to configure health check settings. Security auditor can view only. Help desk cannot access the settings.

For more details, please see chapter "Health Check API Configuration" of [MDCore].

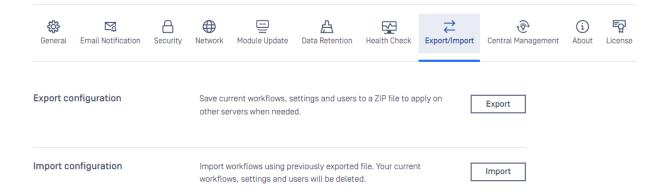
Figure 22 - Health check settings



Export/import: only the Administrators can export and import the current configuration and workflow rule of the MetaDefender Core application.

For more details, please see chapter Import/Export configuration of [MDCore].

Figure 23 - Export/Import



2.2.11 Licensing

There are 4 different options for product activation:

- Online activation: MetaDefender Core will connect directly to the OPSWAT licensing server online, and acquire its license based on your Activation key and its Deployment ID.
- License Management Server: Requiring a separate product called License Management Server. Administrators need to provide host, port, and token to connect to that server.
- Offline activation: Requiring you to upload a license file (.yml). That license file could be retrieved by activating your license via OPSWAT Portal. Follow the instructions displayed for details.
- Request trial key online: For evaluation purposes, you can receive a trial Activation key via email. Follow the instructions displayed for details.

For more details, please see chapter "License Activation" of [MDCore].

The Administrators and Security administrators can view this page. Only the Administrators can deactivate or activate license.

Figure 24 - License information ₩; \subseteq (i) Email Notification License information MetaDefender Core for WINDOWS with Utils Engines, Metascan Windows - 4 engines, Deep CDR Module, Proactive Data Loss Prevention (DLP) Module, File-based O Active until Jan 1, 2025 Vulnerability Assessment Module, OPSWAT Filescan Remote engine, Software Bills of Materials, Country of Origin Package ID: MD-PLTF Activation key Deployment ID Max External Scanners Deactivate license Activate license Need help with licensing options or product information? Contact Sales

Figure 25 - License activation

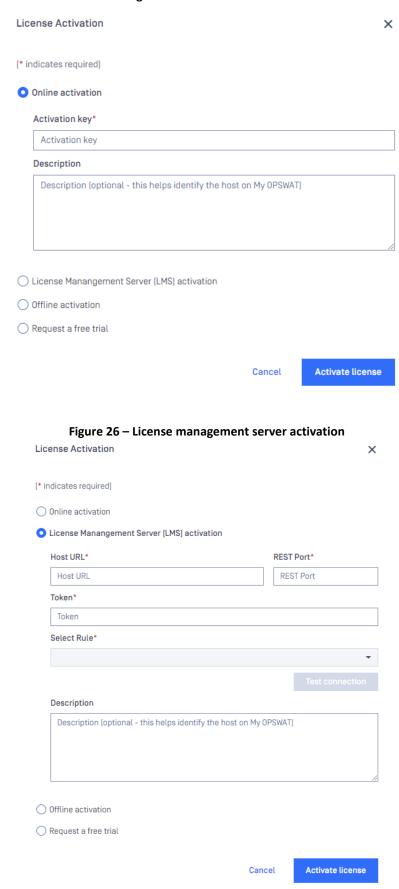


Figure 27 – Offline activation License Activation × [* indicates required] Online activation C License Manangement Server (LMS) activation Offline activation Step 1: Copy this deployment ID: Step 2: Activate and download your activation file at My OPSWAT Step 3: Upload your activation file here Request a free trial Cancel Only Administrators can deactivate a license. Figure 28 – License deactivation Deactivation X Are you sure you wish to deactivate this license? Cancel Deactivate

2.3 MetaDefender Kiosk functions

2.3.1 Application UI

Purpose/Method of use: KIOSK provides a user-friendly interface to perform file scanning tasks. MetaDefender Kiosk helps protect your network by enabling control over the flow of data into and out of your organization. It can be deployed as a media scanning station on your own hardware or on OPSWAT's custom-made kiosks.

To use the KIOSK application, follow these steps:

1. Initiate the session:

The user interacts with the Application UI to start a session. The user must read and accept the disclaimer before proceeding with authentication (Guest/Employee).



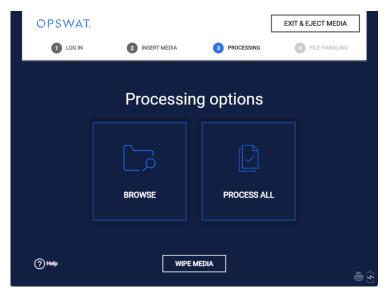
2. Prepare the Media:

Insert the media you want to scan, such as USB devices, DVDs, SD cards, flash drives, or floppy disks, into the appropriate port on the KIOSK station.

3. Initiate the Scan:

The KIOSK interface will guide you through the scanning process. Select the scanning options as needed and start the scan.

Figure 30 – Scanning options



4. Processing the Media:

KIOSK will analyze the content of the inserted media, scanning for any potential threats or unwanted data according to the configured security policies.

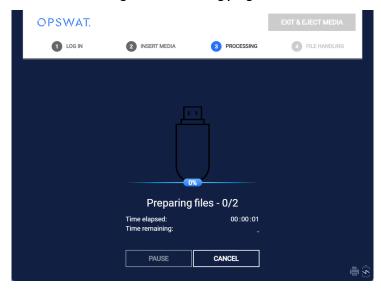
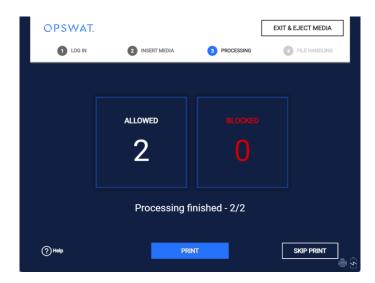


Figure 31 - Scanning progress

5. Review the Results:

Once the scan is complete, KIOSK generates a detailed report. Review the report to understand the status of the scanned files, including any actions that were taken (e.g., files blocked or sanitized).

Figure 32 – Review result



6. Next Steps:

Depending on the results, you can choose to allow the files, sanitize them, or take other necessary actions as recommended by the report.

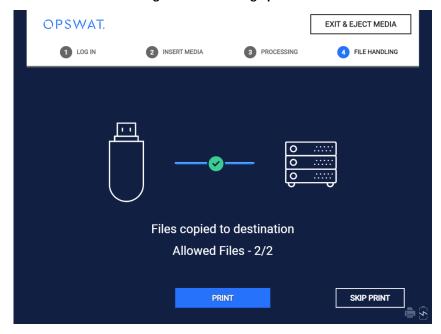


Figure 33 - Scanning options

For more information see section **Using the Kiosk User Interface** in [MDKiosk].

2.3.2 File discovery and transfer

Purpose/Method of use: KIOSK provides a function that lists all files on a removable device, allowing users to select either the entire content or specific files within the device for scanning. After the user selects the files to be scanned, KIOSK transfers these files to MetaDefender Core for analysis and scanning. The results are returned via a REST API response.

For more information see section **Processing Digital Media** section at [MDKiosk].

2.3.3 Database Connect

Purpose/Method of use: Database Connect is utilized by various components within the system, including KIOSK UI, Services, and KIOSK Console management, to retrieve necessary data and display it to the user. To establish a connection to the database, components make requests through the Kiosk Main Service. The Kiosk Main Service then connects to the database (MongoDB) to query the required data. All database connections to MongoDB are made through port 27019 and secured with a password.

Parameters:

- Database connection server: localhost:27019
- Database name: metadefender
- Authentication credentials: KioskAdmin:<password>

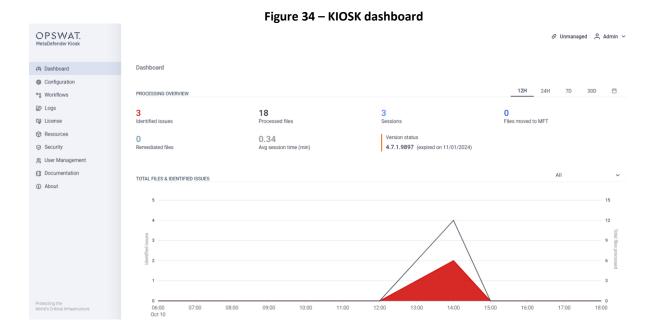
2.3.4 Dashboard

The Dashboard will be the first page that is seen when logging in to the MetaDefender Kiosk Management Console. This page provides a summary of all of the files that have been processed by MetaDefender Kiosk.

Administrators can view the following overall information about the Kiosk system:

- Instance Information: Displays license details and the currently installed Kiosk version
- Overall Scan Results: Shows the total number of files/sessions processed by the Kiosk, the number of files with detected issues and those remediated, and the average time/files processed per session.
- **Top File Types**: Provides statistics on the most frequently processed file types with Kiosk.

Additionally, Administrators can select a time range to query the above information.



For more information see section **Dashboard** in [MDKiosk].

2.3.5 Configuration

The Configuration page allows you to configure all MetaDefender Kiosk settings that apply to all users of MetaDefender Kiosk. Detailed configurations can be found in the chapter 'Configuring Global Kiosk Settings' in the [MDKiosk] user guide

Figure 35 - Configuration

P Daithboard

Configuration

Metapatemet Klosk

Metapatemet Report Klosk UI Country of Origin Advanced Email Languages Backup/Restore

Integration Report Klosk UI Country of Origin Advanced Email Languages Backup/Restore

Metapatemet Report Resources

Resources

Resources

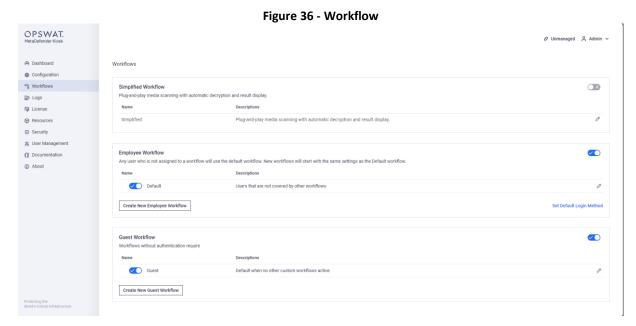
About

MetaDefender Managed File Transfer Server

For more information see section **Configuration** in [MDKiosk].

2.3.6 Workflow

Workflows can be created or edited on the Workflows page of the Kiosk Management Console. Workflows define sets of individual work behaviors for different users/groups/guests.



There are 3 workflow groups: Simplified, Employee and Guest group. Workflows in the Employee group require authentication while the Guest and Simplified do not. Each group can

be enabled or disabled but there must be at least one group enabled at a time. If Simplified group is enabled, Employee and Guest groups are disabled, and vice versa.

In each group, there must be at least one workflow enabled. The default workflows in each group are created and enabled by the installer. However, the default workflow in each group might be disabled after the upgrade to keep consistent to the settings of previous version. Any workflow can be edited even its group is disabled. Default WF in each group cannot be deleted, but editable.

For the Simplified group, only the Simplified workflow is created and set as the default workflow. See How do I use Simplified workflow for more detail.

For the Employee group, each user or user group can join multiple workflows but only one workflow is selected for a session. Users that are not included in any workflows will be assigned to the Default. Each user or group can join multiple workflows but only one workflow is selected for a session. See 9.1. Logging In on the User Authentication Screen for more details

Note: Any users that are not included in one of the defined workflows will be assigned the Default workflow (if "Default login" is enabled).

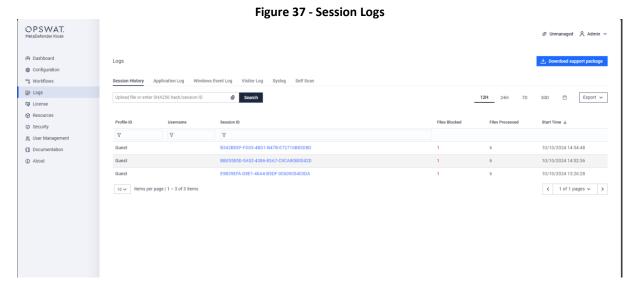
For the Guest group, there is a bit different from the Employee. The administrator can create additional custom guest workflows but there must be either default guest workflow or customs are enabled. The default and custom guest workflow should never be both enabled at the same time.

For more information see section **Kiosk Workflows** in [MDKiosk].

2.3.7 Session Logs

1. Viewing session details

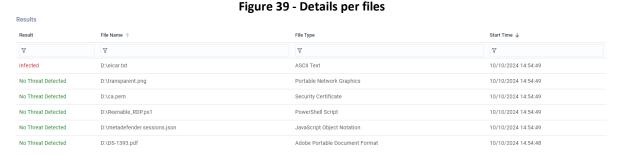
MetaDefender Kiosk displays the most recent scanning sessions on the Logs page.



You can select any of these sessions to view details from that scanning session.

Figure 38 - Scanning session detail OPSWAT. Session History Application Log Windows Event Log Visitor Log Syslog Self Scan B342BDEF-FD03-4BD1-B47B-E72710B83D8D © Logs 10/10/2024 14:54:48 ☑ License Finish Time 10/10/2024 14:55:33 PROCESSING FINISHED Resources Security Source Device Information ⇔ User Managemen Kingston DataTraveler 3.0 USB Device □ Documentation 60A44CB1ABCFE391C8AA0CE5 About Device ID USBSTOR\DISK&VEN_KINGSTON&PROD_DATATRAVELER_3.0&REV_PMAP\60A44CB1ABCFE391C8AA0CE5&0 Media Type USB Devic Disk Usage 91.8 MB Manufacturer (Standard disk drives) Serial Number 0700002304062 USBSTOR\DISK&VEN_KANGURU&PROD_FLASHTRUST&REV_PMAP\0700002304062&6 Media Type Disk Usage 18.6 GB K1002-2409-0 Scanning System

Similarly, you can click see the details of each file in the list of total files processed.



2. Export Session or File History to CSV

The session or file history can be exported, on demand, to a CSV file based on the time range selected. Automated history export can be configured on the Configuration page.

Exported session history contains information on SessionID, User ID, Scan Start Time, Scan End Time, Total Files Scanned, Total Files Processed, Total Files Size, Total Files Skipped, Total Files Allowed, Total Files Blocked, Scanning System, Device ID, Device Type, Device Manufacturer, Device Model, Device Serial Number and User Question responses. Some sessions with secondary destination media will show the second at the next line.

Exported file history contains information on Session ID, User ID, File Name, SHA-256 hash, Scan Result, Scan Result Description and Scanning System.

3. Searching by file hash or session ID

You can also search MetaDefender Kiosk logs by either file hash (SHA256) or by MetaDefender Kiosk session ID on the Session History page. If you search by session ID, MetaDefender Kiosk displays a summary of the results of that session. For more information see section **Session Logs** in [MDKiosk].

2.4 Security Relevant Events

Table 5 – Security relevant events

Security relevant Event	Role	User function	Action to take
Unable to connect to MD Core	Administrator	KIOSK File Transfer	Verify the configuration of MD Core on the KIOSK Console to ensure its correct. Check the application log in the KIOSK Console for detailed connection error information. Perform a connection test between the KIOSK and MD Core.
License Expired	Administrator, Auditor	Application UI, KIOSK Console Management	The Administrator needs to activate the KIOSK license from the KIOSK Console.
Unable to connect to PostgreSQL database	Administrators	Database Connect	Administrators to check database connection, check PostgreSQL log for error information, try to restart PostgreSQL service and Core Main service.
License expired/invalid	Administrators	Licensing	Administrators need to purchase and activate a license for MetaDefender Core.
None	User/Guest	None	None
None	Security administrators, Security auditor, Help desk, Anonymous	None	None

2.5 Modes of Operation

There are two modes of operation for MetaDefender Core:

- Standalone Mode (for details please see section Standalone mode of [MDCore])
- Shared Database Mode (for details please see section Shared Database mode of [MDCore])

There is one mode of operation for MetaDefender Kiosk:

• Full screen hardened mode

2.6 Security Measures to be Followed

Table 6 - Security Objectives for the Operational Environment

Objective	Description	
OE.ADMIN	Administrators shall be trustworthy and follow guidance.	
OE.USER	Non-administrative users of the TOE shall be trustworthy and follow guidance.	
OE.PHYSICAL	TOE components shall be protected from unauthorized physical access.	
OE.TIME	The IT environment will provide a reliable time source.	

3 Preparative Guidance

3.1 Acceptance of the TOE

The following step should be taken to confirm that you have received the correct version of the TOE:

- a) OPSWAT software products are delivered to customers through an electronic download process. Once the purchase of a software product has been processed through the OPSWAT order fulfillment system, an activation key and download instructions are sent to the customer via email. A URL hyperlink to the portal website (https://my.opswat.com/) is communicated to the customer as part of the download instructions. The customer can check the validity of the installation package by verifying the SHA256 has posted on the my.opswat.com portal.
- b) The customer registers on the OPSWAT portal and gets an email when access to the portal is granted. The customer logs in to portal and navigates to product download page. OPSWAT will inform the users about the Software reference that needs to be installed to be compliant with the current certification in [MDCore] and [MDKiosk]. Also, the customer can select the appropriate product version himself as specified in the TOE Security Target. The downloads are subject to digital signature verification as part of installation.
- c) During the product installation, the customer is required to enter the activation key (delivered as part of the initial email) which enables the product to function. After the product is activated, depending on the package purchased, the application downloads entitled engines to the customer environment. Only after the entitled engines are downloaded, does the application function correctly.

The AGD Documentation, [MDCore], and [MDKiosk] are available on the following pages:

- https://www.opswat.com/docs/mdcore/v5.14.2/installation/metadefender-core-documentation
- https://www.opswat.com/docs/mdkiosk/v4.7.6/release-notes/release-notes
- OPSWAT MetaDefender AGD documentation (this document) is available on both links above with the corresponding hash value.

The hash values for integrity protection can be found in [ST] section 1.4.1.1 Guidance Documents, and also, they are available on the websites.

Every other product related documentation is available through the OPSWAT's Technical Documentation for OPSWAT Products page (https://www.opswat.com/docs/mdcore/, https://www.opswat.com/docs/mdkiosk), where always the latest documentation is published.

3.2 TOE Installation

The installation information for both MetaDefender Core and MetaDefender Kiosk, could be found in the following sections and the referred sections of the user manuals [MDCore] and [MDKiosk].

3.2.1 MetaDefender Core

In chapter Recommended System Configuration of [MDCore] the minimum system requirements and third-party dependencies are listed.

3.2.1.1 Installation

The installation of MetaDefender Core for Windows and Linux is described in section Installation of [MDCore].

There are two modes of operation:

- Standalone Mode (one database per MetaDefender Core)
- Shared Database Mode (one database for more than one MetaDefender Core)

These modes of operation do not affect the operation of the MetaDefender Core, or the TOE, just defines the type on database connection used.

Add firewall exception rule to allow both inbound and outbound connections:

- Protocol: TCP.
- Port: 8008.

To prevent anti-malware products from interrupting ongoing scans when real-time protection is enabled, it is recommended to exclude the following from real-time protection:

- Exclude full installation path of MetaDefender Core.
- Exclude the temporary upload path used by MetaDefender Core.
- Exclude "engineprocess.exe", "engineprocess32.exe", "ometascan.exe", "postgres.exe" and "nginx.exe" processes.

The description can be found in chapter "Can local AVs interrupt ongoing scans?" of [MDCore].

3.2.1.2 Setup

After the installation a setup wizard helps the user to do the initial configuration of the TOE. The description of this process can be found in the Wizard Setup section of [MDCore].

After a successful installation and setup, the license should be activated. The description of the activation can be found in section License Activation of [MDCore].

Enabling "Detect file type mismatch" setting under Workflow Management / Workflows / [Workflow name] / File Type. This will block files if their actual file type differs from their file type extension.

To maximize the effectiveness of the scanning process and ensure that the system utilizes the full scope of licensed engines for scanning and protection, all engines included in the license should be enabled in Workflow Rule settings. You can also tick supported file types of each engine, configure filtering conditions to make the engine run correspondingly. The description can be found in section "Workflow Configuration Template" of [MDCore].

It is mandatory that users enable HTTPS for all network connections to the application. The instruction can be found in section "Enabling HTTPS" of [MDCore].

3.2.1.3 Product upgrading

The preparation and the upgrade process of MetaDefender Core is described in section Product Upgrading of [MDCore].

3.2.2 MetaDefender Kiosk

In section Kiosk System Requirements of [MDKiosk] the hardware, software, and security requirements. There are third-party dependencies listed which are also required.

3.2.2.1 Installation

The installation steps of the MetaDefender Kiosk can be found in sections Installing MetaDefender Kiosk Using the Install Wizard of [MDKiosk].

Mongo DB password is generated during installation. When installing using the Wizard, the user is able to input an encryption key as an additional layer of protection for the database. To enable this feature, the steps can be found in section Installing MetaDefender Kiosk Using the Install Wizard of [MDKiosk].

Add firewall exception rule to allow both inbound and outbound connections:

- Protocol: TCP.
- Port: 8009.

3.2.2.2 Setup

The initial configuration of MetaDefender Kiosk can be found in section Configuring the Kiosk Management Console for initial use of [MDKiosk].

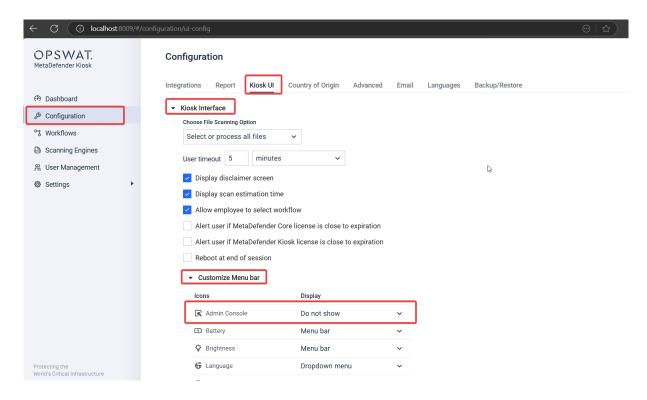
The license activation and management are described in the section Managing License Information of [MDKiosk].

It is mandatory that users enable HTTPS for all network connections to the application. The instruction can be found in section "Enabling HTTPS" of [MDKiosk].

To enhance system security, it is required to disable the "Admin Console" from the Kiosk UI by following the steps below:

- Login to the Kiosk Console Management interface.
- Navigate to the "Configuration" section.

- Go to the "Kiosk UI" tab.
- Expand the "Kiosk Interface" section.
- Expand the "Customize Menu Bar" subsection.
- Locate the "Admin Console" option.
- Set it to "Do not show".



This setting ensures that administrative functions are not accessible from the Kiosk user interface, thus reducing the surface area for potential misuse or unauthorized access.

3.2.2.3 Product upgrading

The upgrade process described can be found in the Upgrading MetaDefender Kiosk section of [MDKiosk].

4 Bibliography

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