



Linux Update Manager Guide

EPP 8.4

www.seqrite.com

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Overview

Seqrite Universal Update Manager is a standalone tool that is used to download and manage the updates for different Seqrite products with different types of updates. It provides you the flexibility to download the updates on a single machine for Seqrite products.

Note: *This Update Manager downloads updates for both 8.2 and 8.3 clients across Windows, Linux, and macOS platforms.*

Audience

This guide is useful for the Seqrite Admin, SOC Managers, and Analysts who would be using the system.

System requirements for EPP and EDR Update Manager

EPP Update Manager

Server that supports up to 1 to 2000 endpoints

- Ubuntu 24.04.2
- Available Disk Space: 8 GBs or above
- Available RAM: 8 GBs or above
- Processor: 4 Core (x86-64), 2.60GHz or above

Server that supports up to 15000 endpoints

- Ubuntu 24.04.2
- Available Disk Space: 8 GBs or above
- Available RAM: 16 GBs or above
- Processor: 8 Core (x86-64), 2.60GHz or above

Server that supports up to 25000 endpoints

- Ubuntu 24.04.2
- Available Disk Space: 8 GBs or above
- Available RAM: 32 GBs or above
- Processor: 16 Core(x86-64), 2.60GHz or above

Note: Set server upper limit (ulimit) higher than the derived number of connections; recommended to be 100000.

EDR Update Manager

Supported Platforms	CPU	Memory	Disk
• Ubuntu 24.04.2 • Linux Mint 19.2 • Linux Mint 20 64bit • Ubuntu 22 • Ubuntu 20.04 64bit • openSUSE 42.3, 15.2 64bit • Red Hat Enterprise Linux 9.5 • BOSS 6 32bit • BOSS 8 64bit • Rocky Linux	2 Core	4 GB	50 GB

Installation Steps

1. Download Update Manager installer from the following location:

EPP 8.4:

https://dlupdate.quickheal.com/builds/seqrite/84/en/suum_linux_8.4_x64.zip

2. Follow these steps to install the Update Manager.
 1. Put UM installer `suum_linux_8.4_x64.sh` and `suumconfig.dat` together.
 2. Check `suum_linux_8.4_x64.sh` permissions for execution.
 3. Use the command `sudo ./suum_linux_8.4_x64.sh` to install Update Manager.

The installation path is: `/usr/lib/Seqrite/UpdateManager/`.

Note: On some of RHEL, CentOS, Scientific Linux, Rocky Linux and AlmaLinux systems SELinux is in enforcing mode. For Update manager installation we need to change it to permissive mode using the command.

Post Installation Steps

1. Check if the Update Manager server(umservice) is responding on the default configured port (18081) with the below mentioned command:

`sudo lsof -i:18081 | grep LISTEN`

2. If not, Please re-configure a new free port using below mentioned Update Manager command:

`./umcli service-config --action=set --serverPort=<new_port>`

Uninstallation Steps

Follow these steps to uninstall the Update Manager.

1. Navigate to installation directory.
2. Run **`sudo ./uninstall`**.

Configuration (suumconfig.json)

Notes:

- This Update Manager downloads updates for both 8.2 ,8.3 and 8.4 clients across Windows, Linux, and macOS platforms.
- These configurations are converted into a dat file and then is consumed by the Update Manager.

```
{
  "tenantID": "1sWTAn",
  "packageID": "",
  "locale": "en",
  "brandName": "Seqrite",
  "linInstallationPath": "/usr/lib/",
  "winInstallationPath": "c:\\program files\\",
  "macInstallationPath": "/Library/Application Support/",
  "updateProxyURL": "http://<URLPATH><USERNAME>:<PASSWORD>@<IP>:<PORT>",
  "fileServerPort": "18081",
  "socketPort": "45835",
  "downloadRLkpbs": 4096,
  "fsthrottler": {
    "isThrottlingEnable": true,
    "useCustomSettings": false,
    "customConnLimit": 0,
    "customConnTimeout": 10,
    "defaultSysConnConf": {
      "8": 2000, //connection count for given RAM in GB
      "16": 15000,
      "32": 25000
    },
    "defaultConnLimit": 1000,
    "defaultConnTimeout": 10
  }
}
"products": {
  "EDR": {
    "updates": {
      "prdUpdate": {
        "downloadMode": 1,
        "downloadresume": true,
        "inetttimeout_sec": 1000,
        "urllist": ["http://172.18.38.39:8080/"],
        "ScheduleTime": ""
      }
    }
  },
  "EPP": {
    "updates": {
      "quickup": {
        "downloadMode": 0,
        "downloadresume": true,
        "inetttimeout_sec": 1000,
        "urllist": [],
        "ScheduleTime": ""
      }
    }
  }
}
```

}

Download Modes of Update Manager

Seqrite Universal Update Manager can download updates through either of the below mechanism:

Download Updates directly from CDN (Download mode 0)

Seqrite Universal Update Manager will directly download updates from CDN at a fixed schedule and host those directly through file server URL.

Download Updates from alternative URL (Download mode 1)

Seqrite Universal Update Manager will download updates from any alternative URL where updates are already present. This URL needs to be configured in suumconfig in urllist via SUUM CLI command. SUUM will now host these updates directly through the file server URL.

Download Updates from Local Path (Download mode 2)

Seqrite Universal Update Manager will host updates from the Update folder copied from the standalone update manager on the host machine. The absolute path till /update/1800 needs to be updated in suumconfig file in urllist via SUUM CLI command. UM will now host these updates directly through the file server URL.

UM Service Commands

```
sudo ./umservice -service [OPTION]
```

OPTION: [install, uninstall, start, stop, restart]

Command Line Interface (umcli)

This is command line interface which is used to send OnDemand action to UM service to perform multiple operations as given follow:

```
sudo ./umcli [OPTIONS]
```

Note: You need sudo privileges to execute this command.

Options are:

	Command	Action	Description	Example
1	update-now	--prdid=<Product Name>	Perform an immediate update on the specified product.	./umcli update-now --prdid=EDR
2	cancel-update	--prdid=<Product Name>	Cancel an ongoing update for the specified product.	./umcli cancel-update --prdid=EDR
3	service-config	--action=get	Get current configuration for Update Manager.	./umcli service-config --action=get
4	service-config	--action=set --proxy=<proxyurl> --serverPort=<port> --download-rate=<inkbps>	Set Update Manager service parameters (proxy, serverPort, download rate). Given parameters are not compulsory.	./umcli service-config --action=set --proxy="http://<USERNAME>:<PASSWORD>@<IP>:<PORT>" serverPort=8085 download-rate=1000
5	product-config	--action=getall	Retrieve configuration for all products	./umcli product-config --action=getall
6	product-config	--action=add --prdid=<product-name> --file=<input.json>	Add a new product configuration. Keep input.json into install dir with given format: <pre>{ "updates":{ "quickup" :{ "downloadMode": 0, "downloadresume": true, "inetimeout_sec": 10000, "urllist": [], "ScheduleTime": "" } } }</pre>	./umcli product-config --action=add --prdid=EDR --file=input.json
7	product-config	--action=remove --prdid=<product-name> --updatetype=<update-type>	Remove configuration of update type for the given product.	./umcli product-config --action=remove --prdid=EDR --updatetype=quickup
8	rollback-update	--prdid=<Product Name>	Rollback a previously applied update for the specified product.	./umcli rollback-update --prdid=EDR
9	get-status	--prdid=<Product Name>	Retrieve the status of the specified product.	./umcli get-status --prdid=EDR

10	update-schedule	--prdid=<product- name> -- updatetype=<update-type> -- schtime=<schedule in cron format>	Schedule an update for the specified product.	<code>./umcli update-schedule --prdid=EDR --updatetype=prdUpdate --schtime="*/4 * * * *"</code>
11	update-schedule	--prdid=<product- name> -- updatetype=<update-type> --schtime=""	Delete schedule for given update type of product.	<code>./umcli update-schedule --prdid=EDR --updatetype=prdUpdate --schtime=""</code>
12	get-reports	--prdid=<product- name> -- updatetype=<update-type>	Retrieve and update reports for the specified product and update type.	<code>./umcli get-reports --prdid=EDR --updatetype=prdUpdate</code>
13	save-report	--srcfile=<report filename> -- destfile=<full-path-with-name>	Save an updated report.	<code>./umcli save-report --srcfile=SHHprdUpdate2024-02-17T11-00-55.354.rpt --destfile=<tmp file location></code>
14	display-report	--file=<report-filename>	Display a saved update report.	<code>./umcli. display-report: --file=<tmp file location></code>

SUUM Throttling

SUUM is a standalone system designed to download various types of updates across multiple platforms. In addition to fetching updates, it also hosts the latest versions, making them readily available to serve multiple clients simultaneously. This centralized mechanism enhances scalability and efficiency but also introduces challenges related to load management and system reliability.

To ensure consistent performance and dependable service delivery under high demand, a throttling mechanism has been implemented. This approach helps regulate client requests, maintaining system stability and ensuring that all clients are served reliably without overwhelming the hosted environment.

The table here represents the commands, actions and their descriptions-

Command	Action	Description	Example
throttling	--action=start	Start throttling according to system configurations.	<code>./umcli throttling --action=start</code>
throttling	--action=start-custom --connCnt= <no. of clients to be supported at a time> --timeout= <client connection timeout>	Update throttling configuration to enable throttling & also restart the file server.	<code>./umcli throttling --action=start-custom --connCnt=2 --timeout=15</code>
throttling	--action=stop	Disable throttling & also restart the file server.	<code>./umcli throttling --action=stop</code>
throttling	--action=get-status	Get current throttling configurations of the server	<code>./umcli throttling --action=get-status</code>

SUUM File Server

This is a local file server to host downloaded updates by Update Manager.

File server will deploy on same machine on UM service start and map to the file-serverdirectory inside installation folder.

Port for this server is provided at the following location:

- suumconfig.dat : `http://<IP/host>:18081/file-server`

To create directory structure for multiproduct updates on File Server follow below template:

Installation Directory

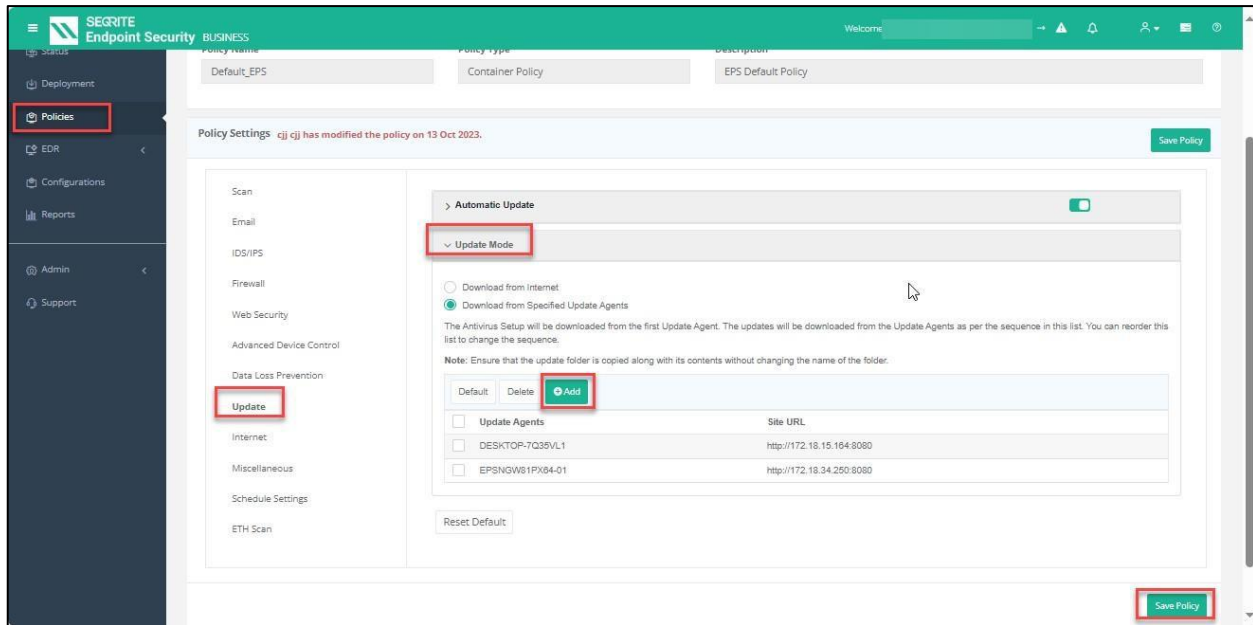
```
└─ file-server
    │
    │ └─ EDR
    │   │
    │   │ └─ prdUpdate
    │   │   │
    │   │   │ └─ checksum.json
    │   │   │   │
    │   │   │   │ └─ master.bin
    │   │   │   │   │
    │   │   │   │   └─ updateType2
    │   │   │   │
    │   │   └─ EPS
    │   │       │
    │   │       └─ quickup
    │
    └─ 1800
        │
        └─ Build
```

Note: For EPP above hierarchy is by default available.

Configure Alternate Update Mechanism

Perform the following steps to configure the update mechanism for all the Windows, Mac and Linux endpoints listed in the policy.

1. Login to EPP 8.4 console.
2. Go to the Policies Page



3. Update > Update mode
4. Select Download from specified Update Agents
5. Click the Add button. The Configure Update Details screen appears.

Configure Update Details

Please enter the hostname(where the updates are configured) and the custom path for endpoints to download the updates.

Hostname*

Custom URL*

6. Enter the Hostname and the Custom URL.
 - a. Hostname can be any name of the computer where the update folder is placed.
 - b. The URL for Update Manager: <http://ipname:18081>
7. Click Add.
8. Click Save Policy on the Policies page.

Once the alternate update mechanism configuration steps are completed, it updates your client endpoints listed in the policy.