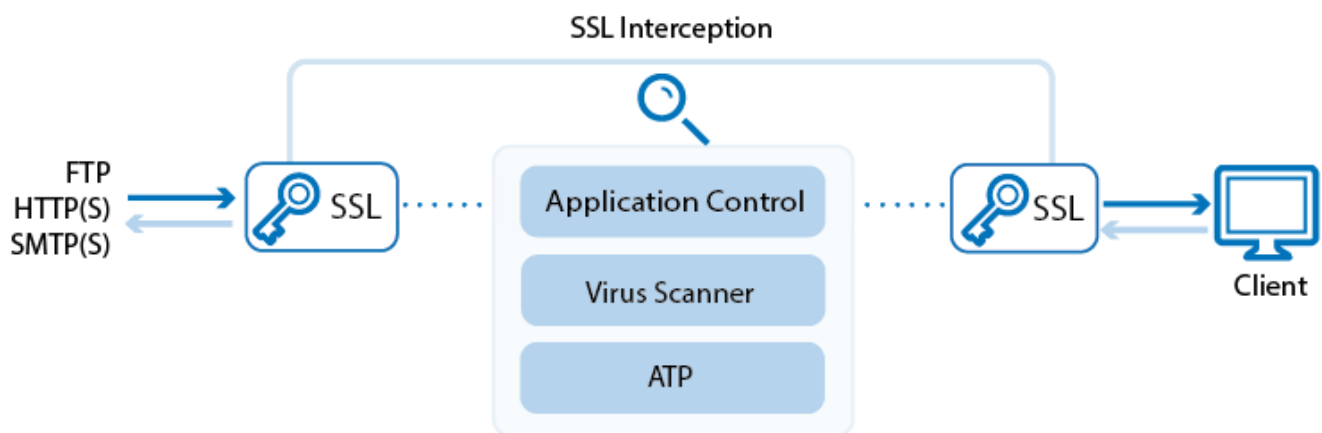


## How to Configure ATP/ATD in the Firewall

<https://campus.barracuda.com/doc/49746347/>

Configure when and which types of files are uploaded to the Barracuda ATP Cloud. You can also configure if users will receive files immediately or have to wait until the file analysis is completed to continue with the download. Users who downloaded files with a risk factor higher than the defined risk threshold are placed in quarantine. Create access rules to define what is blocked for the infected users and/or IP addresses.



### Before you begin

- Configure a **System Notification Email** address. For more information, see [How to Configure Email Notifications](#).
- Enable virus scanning in the firewall for web, mail, and/or FTP traffic. For more information, see [How to Configure Virus Protection in the Firewall for Web Traffic](#), [How to Configure Mail Security in the Firewall](#), and [How to Configure Virus Scanning in the Firewall for FTP Traffic](#).
- Verify that all file types you want to scan with ATP for HTTP and SMTP connections are also listed in the scanned MIME types of the virus scanner. For more information, see [How to Configure Virus Protection in the Firewall for Web Traffic](#).

### Step 1. Enable ATD in the firewall and configure scan policies

Enable ATD and configure the ATD scan policies for HTTP, HTTPS, SMTP and SMTPS connections. Depending on the policy, the user will have to wait for scanning to complete before the file is forwarded. FTP traffic is always scanned with the **Deliver before scan complete** policy.

1. Go to the **FIREWALL > Settings** page.

2. In the **Advanced Threat Detection** section, enable **Advanced Threat Detection**.
3. Next to **Deliver before scan complete**, select the global scan policy:
  - **Yes** – The user receives the file or email immediately. If malware is found, the quarantine policy applies.
  - **No** – The user is redirected to a scanning page. If no malware is found during the scan, the download starts.
4. Select the **Block Threats** policy:
  - **High only** – Files classified as high risk are blocked.
  - **High and Medium only** – Files classified as high or medium risk are blocked.
  - **High, Medium and Low** – Files classified as high, medium or low risk are blocked. Only files with classification **None** are allowed.
5. Configure automatic blacklisting for HTTP and HTTPS traffic:
  - From the **Quarantine Policy** drop down, select the policy for automatic blacklisting:
    - **No automatic blacklisting** – No connections are blocked.
    - **User** – All connections by the infected user are blocked regardless of the source IP address.
    - **IP** – All connections by the infected source IP address are blocked regardless of the user.
    - **User AND IP** – All connections originating from the infected source IP address and the infected user are blocked. If a different user logs in to the infected computer, all connections are allowed because only one criteria, the source IP address, matches. If the username for the connection is unknown, only the IP address is blocked.
    - **User OR IP** – All connections coming from the infected source IP address and/or the infected user are blocked. If a different user logs into the infected computer, all connections are blocked because the source IP is blocked. If the infected user logs in to a different workstation, connections are blocked because the infected user is blocked.
6. Click **Save**.

## Step 2. Configure advanced scan settings

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If needed, set the individual scan policies for each file type:

1. Go to the **FIREWALL > Settings** page.
2. In the **Advanced Threat Detection** section, select **Show** next to **Advanced Options**.
3. In the **General** section, configure the following settings:
  - **Encrypted Archives handling** – Specify what happens if encrypted archives were detected. Default: **Report only**
  - **Max. Archive size** – Maximum allowed archive size. Default: 1024. Set to 0 to disable.
  - **Large Archives handling** – Specify what happens if **Max. Archive size** is exceeded. Default: **Report only**
  - **Send Notification E-mails – To system settings Address** sends a notification mail for every malicious file found by ATP.

- **ATD Report Page size** – Select the page format for ATP reports.
4. If needed, set the individual HTTP and HTTPS scan policies for each file type:
    - **Apply Global Policy (default)** – This file type is scanned according to the policy configured in the basic ATD settings.
    - **Do not scan** – The file is not scanned and immediately forwarded to the user.
    - **Deliver First, then Scan** – The user receives the file immediately. If malware is found, the quarantine policy applies.
    - **Scan First, then Deliver** – The user is redirected to a scanning page. After the scan is complete, the download starts.
  5. Click **Save**.

After specifying the ATD settings, click **Save** to save your configuration changes.

### Step 3. Create two quarantining access rules

To block users and/or IP addresses, you must create access rules using the **ATD User Quarantine** network object. Place the Block rules before any other access rules handling traffic for these IP addresses and/or users. Enable **HTTP Block Page** to redirect HTTP traffic from quarantined users or IP addresses to the custom quarantine block page. You must allow DNS queries from quarantined users to display the HTTP block page. Non-HTTP traffic is simply blocked or denied.

Create a new access rule to allow DNS queries:


1. Go to **FIREWALL > Firewall Rules**.
2. Click **Add Access Rule** to create a new access rule.
3. In the **Add Access Rule** window, enter a name and description for the rule.
4. Specify the following settings:

Action	Connection	Service	Source	Destination
<b>Allow</b>	Select a connection object to allow you to connect to the DNS server.	<b>DNS</b>	Select <b>ATD Quarantine</b> network object.	Enter the IP addresses of your DNS servers.

General
Advanced

---

Action: Allow



*DNAT (port forwarding) - Redirect traffic to a specific IP address.*  
*Redirect to Service - Redirect traffic to a service on the Barracuda Firewall.*  
*Bi-directional - Source and destination networks are interchangeable.*

Name: ATDQuarantine-to-DNS

Description:

Connection: Dynamic SNAT

Adjust Bandwidth: Internet

The interface must have bandwidth management enabled on the NETWORK > IP Configuration page for this policy to be applied.

Bi-directional:  Yes  No

Disable:  Yes  No

IPS:  Yes  No

Application Control:  Yes  No

SSL Inspection:  Yes  No

URL Filter:  Yes  No

Virus Protection:  Yes  No

ATD:  Yes  No

Mail Blacklist Checks:  Yes  No

Safe Search:  Yes  No

Source

3G Local IP	+
Ref. ATD Quarantine	-

Network Objects  IP Address  Geo Loc.

Network Services

Any-VPN	+
DNS	-

Destination

ATD Quarantine	+
Ref. DNS Servers	-

Network Objects  IP Address  Geo Loc.

5. Click **Save**.

6. Place the access rule so that no rule before it matches the same traffic.

Create a second access rule:

1. Go to **FIREWALL > Firewall Rules**.
2. Click **Add Access Rule** to create a new access rule.
3. In the **Add Access Rule** window, enter a name and description for the rule.
4. Specify the following settings:

Action	Connection	Service	Source	Destination
<b>Block</b>	Select a connection object to allow you to connect to the DNS server.	Select <b>Any</b> .	Select <b>ATD Quarantine</b> network object.	Select <b>Any (0.0.0.0/0)</b> network object.

**General** **Advanced**

Action:  Name:  Bi-directional:  Yes  No  
 Disable:  Yes  No

Description:

Connection:

Adjust Bandwidth:   
The interface must have bandwidth management enabled on the NETWORK > IP Configuration page for this policy to be applied.

**Source** **Network Services** **Destination**

Network Objects  IP Address  Geo Loc.

- In the **Add Access Rule** window, click the **Advanced** tab.
- In the **Other** section, set **HTTP Block Page** to **Quarantine Page**.

**General** **Advanced**

Valid For Users:  Apply only during this time:   
If no users are added to this rule, then any user information in the traffic will be ignored. Select or create new time objects to define a time frame this rule shall be applied. One time object may be selected.

Denial of Service and Spoofing Protection

Interface Group:   
Select the interface(s) the rule applies to or select Any to match all interfaces. Matching automatically determines the interface.


SYN Flood Protection:  Automatic  Always On  
Automatically detects SYN flood attacks and switches to a different TCP handshake mode to protect the network. Default: Automatic

Other

HTTP Block Page:   
Show the access block page if a HTTP request gets blocked by the firewall rule. If set to 'None; SYN Block' the SYN request will be silently blocked and the browser will time out. Default: 'None; SYN Block'

- Click **Save**.
- Place the access rule directly below the rule allowing DNS queries from the quarantine so that no rule before it matches the same traffic.

Quarantined users or users connecting via HTTP from quarantined IP addresses are automatically redirected to the customizable quarantine page. For more information, see [Custom Block Pages](#).



## Automatic Incident Response - Quarantine!

Malicious content has been detected. As a result, you or the IP address you are connecting from has been placed into quarantine. Your connectivity may be limited. Contact your system administrator for further information.

**URL:** sourceforge.net  
**Barracuda NG Firewall Gateway:** HQ-VF50-Single  
**Access Rule:** Block-Quarantine-to-World

### Step 4. Edit access rules to use ATP


Enable ATD by editing the access rules handling traffic you want to be scanned. E.g, LAN-2-INTERNET

1. Go to **FIREWALL > Firewall Rules**.
2. Create or edit an access rule.
3. Edit the access rule handling the traffic you want analyzed by ATP.
4. On the **General** page, select the following options:
  - o **Application Control** - required.
  - o **SSL Inspection** - optional.
  - o **Virus Protection** - required.
  - o **ATD** - required.

#### Edit Access Rule ?

General

Advanced

Action: <div style="border: 1px solid #ccc; padding: 2px; width: 100%;">Allow</div>	Name: <div style="border: 1px solid #ccc; padding: 2px; width: 100%;">LAN-2-INTERNET</div>	Bi-directional: <input type="radio"/> Yes <input checked="" type="radio"/> No Disable: <input type="radio"/> Yes <input checked="" type="radio"/> No IPS: <input checked="" type="radio"/> Yes <input type="radio"/> No
	Description: <div style="border: 1px solid #ccc; padding: 2px; width: 100%;">Allows internet access from Trusted LAN for typical applications.</div>	<div style="border: 2px solid orange; padding: 2px;">Application Control: <input checked="" type="radio"/> Yes <input type="radio"/> No</div> SSL Inspection: <input checked="" type="radio"/> Yes <input type="radio"/> No URL Filter: <input checked="" type="radio"/> Yes <input type="radio"/> No <div style="border: 2px solid orange; padding: 2px;">Virus Protection: <input checked="" type="radio"/> Yes <input type="radio"/> No</div> <div style="border: 2px solid orange; padding: 2px;">ATD: <input checked="" type="radio"/> Yes <input type="radio"/> No</div> Mail Blacklist Checks: <input checked="" type="radio"/> Yes <input type="radio"/> No Safe Search: <input checked="" type="radio"/> Yes <input type="radio"/> No
DNAT (port forwarding) - Redirect traffic to a specific IP address. Redirect to Service - Redirect traffic to a service on the Barracuda Firewall. Bi-directional - Source and destination networks are interchangeable.	Connection: <div style="border: 1px solid #ccc; padding: 2px; width: 100%;">Dynamic SNAT</div>	
	Adjust Bandwidth: <div style="border: 1px solid #ccc; padding: 2px; width: 100%;">Internet</div>	
	The interface must have bandwidth management enabled on the NETWORK > IP Configuration page for this policy to be applied.	

5. Click **Save**.

All traffic handled by access rules with **ATD** enabled are now scanned by the ATP service. Blocked

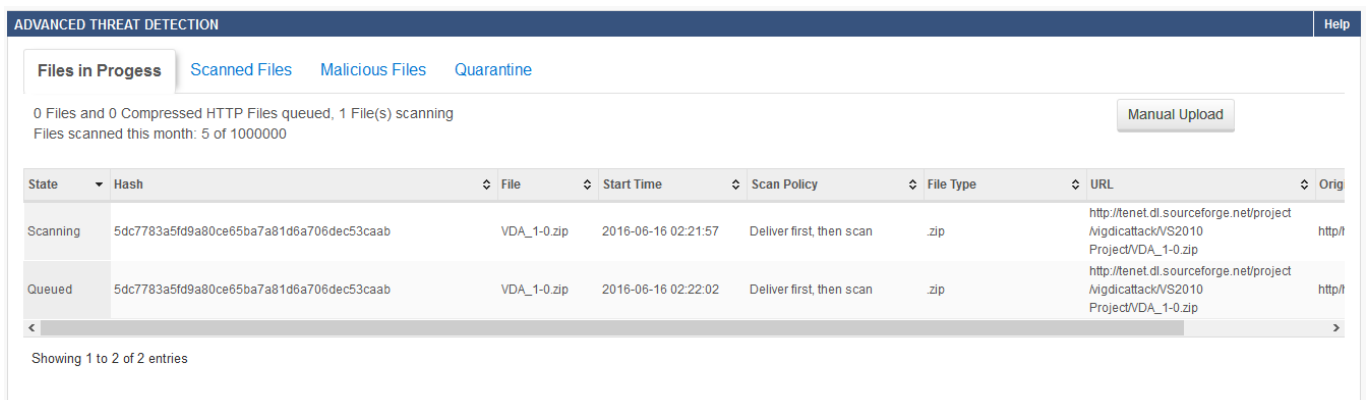
files are listed on the **BASIC > Recent Threats** page. To view scan results, go to **BASIC > ATD**.

## File scanning on the ATD page

The **ATD** page displays results and processes file scanning via Advanced Threat Protection. Use the global filter settings to adjust the amount of displayed files. To access the information about the files scanned by ATP, click the tabs.

### Files in Progress tab

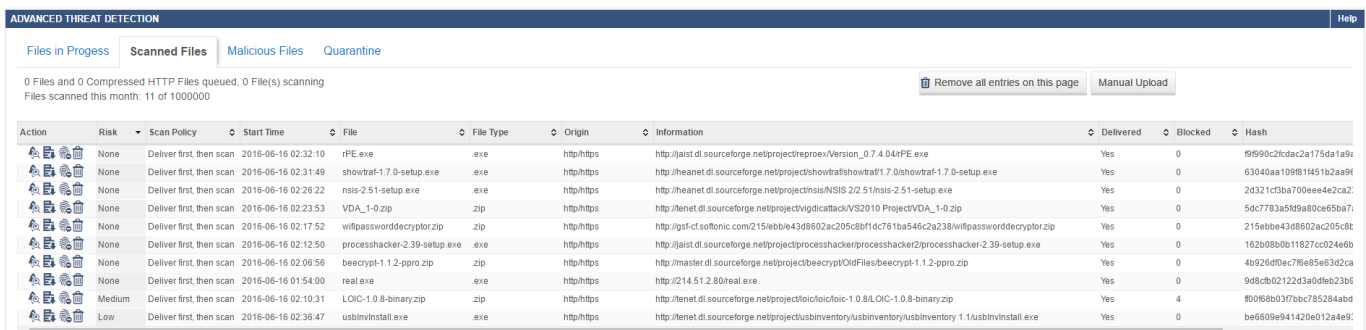
This tab displays all files that are currently scanned or waiting in the queue. The information displayed on this page is listed in columns. The **State** column shows the ATP scan status.



State	Hash	File	Start Time	Scan Policy	File Type	URL	Orig
Scanning	5dc7783a5fd9a80ce65ba7a81d6a706dec53caab	VDA_1-0.zip	2016-06-16 02:21:57	Deliver first, then scan	zip	http://tenet.di.sourceforge.net/project/Mgdicattack/VS2010/Project/VDA_1-0.zip	http://
Queued	5dc7783a5fd9a80ce65ba7a81d6a706dec53caab	VDA_1-0.zip	2016-06-16 02:22:02	Deliver first, then scan	zip	http://tenet.di.sourceforge.net/project/Mgdicattack/VS2010/Project/VDA_1-0.zip	http://

### Scanned Files tab

Clicking this tab queries the ATP list and displays all files that were scanned by ATP.



Action	Risk	Scan Policy	Start Time	File	File Type	Origin	Information	Delivered	Blocked	Hash
	None	Deliver first, then scan	2016-06-16 02:32:10	rPE.exe	.exe	http/https	http://jaist.di.sourceforge.net/project/repox/Version_0.7.4.04/rPE.exe	Yes	0	9f990c2fcdac2a175da1a9d
	None	Deliver first, then scan	2016-06-16 02:31:49	showtraf-1.7.0-setup.exe	.exe	http/https	http://heanet.di.sourceforge.net/project/showtraf/showtraf1.7.0-setup.exe	Yes	0	63040aa1099b1451b2aa9f
	None	Deliver first, then scan	2016-06-16 02:28:22	nsis-2.51-setup.exe	.exe	http/https	http://heanet.di.sourceforge.net/project/nsis/NSIS_2.51/nsis-2.51-setup.exe	Yes	0	2d321c5ba700eee4e2ca2
	None	Deliver first, then scan	2016-06-16 02:23:53	VDA_1-0.zip	zip	http/https	http://tenet.di.sourceforge.net/project/vigdicattack/VS2010/Project/VDA_1-0.zip	Yes	0	5dc7783a5fd9a80ce65ba7
	None	Deliver first, then scan	2016-06-16 02:17:52	wifpassworddecryptor.zip	zip	http/https	http://gsf-ct.softonic.com/215ebbbe43d8602ac205c8bf1dc761ba546c2a238/wifpassworddecryptor.zip	Yes	0	215ebbbe43d8602ac205c8
	None	Deliver first, then scan	2016-06-16 02:12:50	processhacker-2.39-setup.exe	.exe	http/https	http://jaist.di.sourceforge.net/project/processhacker/processhacker2/processhacker-2.39-setup.exe	Yes	0	162b080be11827cc024e6b
	None	Deliver first, then scan	2016-06-16 02:06:56	beecrypt-1.1.2-ppro.zip	zip	http/https	http://master.di.sourceforge.net/project/beecrypt/0idFiles/beecrypt-1.1.2-ppro.zip	Yes	0	4b926df0ec7f8e85e6342ca
	None	Deliver first, then scan	2016-06-16 01:54:00	real.exe	.exe	http/https	http://214.51.2.80/real.exe	Yes	0	9d8cb02122d3a0dfeb23b6
	Medium	Deliver first, then scan	2016-06-16 02:10:31	LOIC-1.0.8-binary.zip	zip	http/https	http://tenet.di.sourceforge.net/project/loic/loic-1.0.8/LOIC-1.0.8-binary.zip	Yes	4	f0068b0377bbc785284abd
	Low	Deliver first, then scan	2016-06-16 02:36:47	usbivninstall.exe	.exe	http/https	http://tenet.di.sourceforge.net/project/usbinventory/usbinventory/1.1/usbivninstall.exe	Yes	0	be6609e941420e012a4e9

The **Action** column provides a set of icons, offering the following options:

- **Details** - Opens the **ATD File Details** window.
- **Download** - Offers the option to download a scan report.

- **Move to Quarantine** – Moves the file to the **Quarantine** page.
- **Delete Entry** – Deletes the file entry.

### Download a scan report

Scanned files are displayed on the **Scanned Files** page. You can download a basic or detailed version of the scan report.

1. Go to **BASIC > ATD**.
2. Select the scanned file.
3. From the **Action** menu, select the **Download Report** icon.
4. Select the report type:
  - **Summary Report** – Download a basic summary report
  - **Full Report** – Download a detailed report

Action	Risk	Scan Policy	Start Time	File	File Type
	None	Deliver first, then scan	2016-06-16 02:23:53	VDA_1-0.zip	.zip
		st, then scan	2016-06-16 02:17:52	wifipassworddecryptor.zip	.zip
		st, then scan	2016-06-16 02:12:50	processhacker-2.39-setup.exe	.exe
		st, then scan	2016-06-16 02:06:56	beecrypt-1.1.2-ppro.zip	.zip
	None	Deliver first, then scan	2016-06-16 01:54:00	real.exe	.exe

5. Save the report to your desired location.

### Malicious Files tab

This tab displays all files that were blocked by ATP.

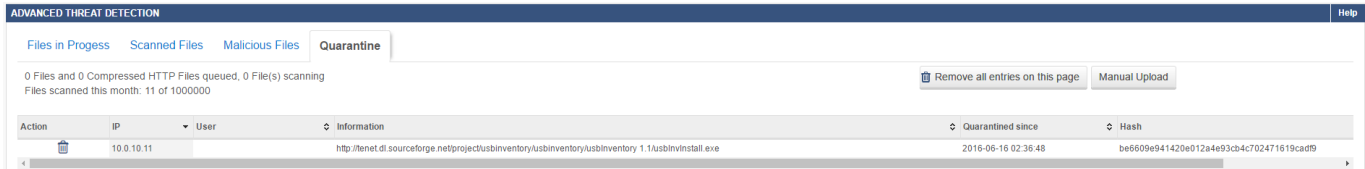
ADVANCED THREAT DETECTION										
Files in Progress Scanned Files <b>Malicious Files</b> Quarantine										
0 Files and 0 Compressed HTTP Files queued, 0 File(s) scanning Files scanned this month: 11 of 1000000										
Remove all entries on this page Manual Upload										
Action	Risk	Scan Policy	Start Time	File	File Type	Origin	Information	Delivered	Blocked	Hash
	Medium	Deliver first, then scan	2016-06-16 02:10:31	LOIC-1.0.8-binary.zip	zip	http/https	http://net.dl.sourceforge.net/project/loic/loic-1.0.8/LOIC-1.0.8-binary.zip	Yes	4	f00b8b03f7bbc785284ab95a
	Low	Deliver first, then scan	2016-06-16 02:36:47	usbinstall.exe	exe	http/https	http://net.dl.sourceforge.net/project/usbinventory/usbinventory/usbinventory.1.1/usbinstall.exe	Yes	0	be6609e941420e0124e93cb4

The **Action** column provides the same options as on the **Scanned Files** tab. If you want to remove a file from the list, click the trash can icon and choose the action **Delete Entry** to delete the file entry. To remove all files, select **Remove all entries on this page**.

### Quarantine tab



Displays all files that are quarantined due to the **Quarantine Policy**.



Action	IP	User	Information	Quarantined since	Hash
	10.0.10.11		http://tenet.dl.sourceforge.net/project/usbinventory/usbinventory/usbinventory.1.1/usbinstall.exe	2016-06-16 02:36:48	be6609e941429e012a4e93cb4c702471619cad9

If you want to remove a file from the quarantine, click the trash can icon and choose the action **Remove from Quarantine**. To remove all files from the list, select **Remove all entries on this page**.

Quarantined users and/or IP addresses are also shown on the **BASIC > Status** page.



User	IP	Since
	10.0.10.11	2016-06-16 02:36:48

## Manual File upload

If you want to manually check a local file using ATP, you can upload the file to the ATP Cloud. After the file has been scanned, you are mailed a report with the scan results.

For more information, see [How to Manually Upload Files to ATP/ATD](#).

## Next step

(Optional) To protect SMTP and SMTPS traffic, enable ATD in the Mail Security settings. For more information, see [Mail Security in the Firewall](#).

## Figures

1. virus\_scanning\_https\_traffic\_ATP-01.png
2. atd\_quarantine\_01.png
3. atd\_quarantine\_02.png
4. atd\_quarantine\_03.png
5. atd\_quarantine\_block\_page.png
6. atd\_rule.png
7. atd\_fp.png
8. atd\_sf.png
9. atd\_report.png
10. atd\_mf.png
11. atd\_qu.png
12. atd\_qustat.png

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