# AVerCaster SE5810 (F239 Series)
## User Manual

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Pictures shown may vary from actual product.

Important Safety Instructions
• Keep these instructions
• Pay attention to all warnings
• Follow all instructions
• Do not use this apparatus near water
• Clean only with dry cloth
• Do not block any ventilation openings. Install in accordance with the manufacturer’s instructions
• Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat
• Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third rounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet
• Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus
• Only use the attachments/accessories specified by the manufacturer
• Unplug this apparatus during lightning storms or when unused for long periods of time
• Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped

WARNING

To prevent fire or shock hazard do not expose the unit to rain or moisture. Dangerously high voltages are present inside the unit. Do not open the unit. Refer servicing to qualified personnel only.
NexStream

Installation of NexStream
AVerCaster SE5810 by default assigns IP addresses using DHCP. If no DHCP server is available, SE5810 will fall back to auto IP, which randomly assigns IP address from the range 169.254.0.0–169.254.255.255, as specified in RFC 3927.

For easier management, assigning fixed IP address to SE5810 is a good practice.

Either way, NexStream is the application you need to discover the IP address of SE5810 in your local area network. Please note that NexStream cannot locate SE5810 across network segments between which no multicast traffic is routed. Locating our products across the Internet is NOT supported.

Step 1: Install your SE5810
Before using your SE5810, make sure the device is properly connected and powered-on. Please refer to the Quick Installation Guide in the package for hardware installation. To make sure the traffic of streaming is not blocked, turn off your firewall or security programs beforehand.

Step 2: Install NexStream
Before streaming, download NexStream from our webpage here and install it on a PC to set up your SE5810.

Step 3: Detect your SE5810
Run NexStream and click “Begin Search” to find your SE5810. Your PC and SE5810 must be under the same local area network.
Step 4: Log in to NexStream
After your SE5810 is found, click on the IP address to enter AVerCaster Streaming Service Management login page. When the login page appears, enter the account name and password. (Default: admin / admin)
Management Web Page

After logging in to the management web page, you will see four tabs at the top of screen: Broadcast List, Configuration, Encoding Profile and Administration. You will also see Output 1 which allows you to broadcast a live stream for your viewers.

Broadcast List

The “Broadcast List” tab monitors the status of all streaming and recording tasks. This is the place to check if streaming is encountering any issue.
Configuration

The “Configuration” tab is used to set up streaming and recording tasks.

Below the highlighted Configuration tab are the input selection icons, which resemble the connectors in the back of SE5810. They give you an intuitive way of selecting video and audio inputs by clicking on the connector icons.

This is an example after clicking the “HDMI” icon and turning it green, which corresponds to the HDMI port which is connected to a 1920 x 1080 source. You’ll also see a live thumbnail showing the source content for your convenient.
Below is the status of the input selection icon in different colors:

<table>
<thead>
<tr>
<th>Icon Color</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDMI</td>
<td>Not Selected</td>
</tr>
<tr>
<td>HDMI</td>
<td>Selected with Source</td>
</tr>
<tr>
<td>HDMI</td>
<td>Selected without Source</td>
</tr>
</tbody>
</table>

Here’s another example, after clicking the “HDMI” icon and turning it green, which corresponds to the HDMI port, a live thumbnail will appear showing source content.

Right below Output 1, you can select SDI, HDMI or 3.5mm as your Audio Input and adjust input volume. Given the SE5810’s support of LINE audio input, you can mix in live commentary using a 3.5mm microphone.
Encoding Profile

The “Encoding Profile” tab creates customized encoding profiles to adjust to different quality, bandwidth and storage requirements.

Administration

The “Administration” tab is where you change the network settings, identify firmware version, adjust date/time/time zone, change account name and password, and perform other administration tasks.
On the upper right hand side you will see more functions such as Reboot, English (Language) and Log Out.

Reboot
Click “Reboot” to restart your SE5810 manually. For details on resetting it back to factory default, please refer to the AVerCaster SE5810 Quick Guide.
Setting up Streaming

**Streaming with TS Multicast (UDP Multicast)**

TS multicast is often used to deliver streaming to hundreds or thousands of players/clients in a local area network. The major benefit is that your network bandwidth will not be consumed or exhausted as the number of players and clients grow.

The requirement is that your network switch and router must properly support IGMP. Please consult the manufacturer of your network equipment for a detailed qualification and setting procedures.

First, in the “Configuration” tab, select the desired video input by clicking one of the connector icons.

Select “TS Multicast” as the “Stream Type”.

IP Address must be a multicast address within the range 224.0.0.0–239.255.255.255. Choose a port number in 1024–65535. This combination of IP address and port is the destination your streaming is going to be.
Adjust TTL value to determine how much router hops this streaming can cross, assuming your router is also configured to relay multicast traffic. Setting TTL to “1” limits multicast streaming within your local network.

SAP is similar to an electronic program guide in the network, with which the player/clients can be notified of what video content are currently streaming and can be received by the player/clients. The default group name is “AVerCaster” and can be changed in the “Administration” tab. Channel name can be edited here and is default to the name of the video input.

After all settings are ready, click the play icon to start streaming.

Note: You can also use the physical buttons (Stream, Record, Switch Source) on your SE5810 for quick access.

To receive this TS multicast streaming, go to “Broadcast List” and look up “Output Location” for the streaming URL.
Launch VLC, go to “Media” → “Open Network Stream...”.

Enter the streaming URL.
Click “Play”.
Streaming to RTMP server (RTMP Publish)

RTMP (Real Time Messaging Protocol) streaming is often deployed when you need a centralized server or server farm to dispatch media content to thousands of clients. Commercial RTMP servers are available from Wowza, Adobe, Microsoft Azure, Amazon, and NGINX. Video services such as YouTube, Akamai and CDNVid also supports RTMP.

Go to the “Configuration” tab. After selecting video and audio input, select “RTMP Publish” as the “Stream Type”.

To deliver streaming to RTMP, we need the RTMP URL and stream name (stream key) from the video service providers. In the following example we will stream to a Wowza streaming server, with the IP address 192.168.0.101. Here is a screenshot of Wowza management webpage.

In the default installation of Wowza, we often have the “live” application enabled. All we need to do is choose a stream name “SE5810”. Some RTMP servers require authentication. If so, enable “RTMP Authentication” and provide the account and password.
Likewise, click the “Play” icon to start streaming.

In the “Broadcast List” tab, note the Streaming Status going from “Activating…” to “Streaming…”.

RTMP server can do a lot more than just dispatching the media content. So the playback URL may not be the same as the one displayed under “Output Location”. To be sure, consult your service providers or operators for detail.
In the above example, a playback URL “rtmp://192.168.0.101:1234/hls/SE5810” can be provided to VLC.
Streaming to YouTube Live
Your YouTube account may have to go through additional processes to be eligible for live streaming. This process is outside of the scope of this document and may involve authentication of your identity using your mobile phone.

There are two methods you can stream to YouTube Live. The first method is to select “YouTube Live” in “Stream Type”, click the “Log In” button, and go through the login process to start.

<table>
<thead>
<tr>
<th>No.</th>
<th>Channel Name</th>
<th>Stream Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>HDMI 1</td>
<td>Youtube Live</td>
</tr>
</tbody>
</table>

Log In

The second method is through RTMP. Streaming to YouTube Live is the same as streaming to an RTMP server. To acquire the streaming URL and name, open a web browser and go to your YouTube page: http://www.youtube.com. Open your account settings and click on “YouTube Studio (beta)”.

<table>
<thead>
<tr>
<th>No.</th>
<th>Channel Name</th>
<th>Stream Type</th>
<th>Encoding Profile</th>
<th>IP Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>HDMI 1</td>
<td>Youtube Live</td>
<td>H.264 Main Profile VBR 1920x1080p60 [4.628 Mb]</td>
<td></td>
</tr>
</tbody>
</table>

Title
Description
Tag
Privacy Settings
Unlisted
Log Out
In YouTube Studio (beta), select “Other features” → “Live stream now”.
Scroll down to the bottom to receive your RTMP URL and stream name.

**SERVER URL**

rtmp://a.rtmp.youtube.com/live2

**Stream name/key**

Reveal

Copy the “Server URL” to “FMS Server Address” and the “Stream name/key” to “Stream Name” in SE5810. Leave “Enable RTMP Authentication” unchecked.

Click the “Play” icon to start streaming.

To retrieve the playback URL for your audience, go to YouTube Creator Studio again. Scroll down to the bottom right and find the URL there.

https://www.youtube.com/c/AVerMediaGaming/live
Three Streaming and Recording Modes

SE5810 has 2 video inputs (1 HDMI, 1 SDI) and 1 output with an audio/video receiver and encoder. There are 2 streaming and recording modes: 1-to-1 Mode and 1-1-1 Mode.

1-to-1 Mode

For 1-to-1 Mode (1 source, 1 stream, or 1 record), you can select 1 video input from HDMI or 3G-SDI port then output 1 stream or 1 record.

Under the “Configuration” tab, we first create a stream from HDMI to RTMP.

In the “Broadcast List” tab, you can see in “Channel Name” column that the one streaming task is coming from the HDMI video input.
1-1-1 Mode

With SE5810’s 1-1-1 Mode (1 source, 1 stream, 1 record), you can record the video in your PC, laptop, or NAS server while live streaming an event at the same time.

The recording files will be named after the video input and the date of recording. The files themselves will also contain the time of the recording. If such timing information is important to you, be sure to visits “Administration” section before recording to make sure the date, time and time zone are set correctly.

Setting up PC, laptop, or NAS server for file sharing is outside the scope of this document. Here we only provide an example with a QNAP NAS, which is assigned an IP address of 10.1.9.56.

In QNAP’s web page, launch “Control Panel” → “Privilege Settings” → “Shared Folders”
We opt to create a new shared folder for SE5810 to record to. This folder is named “SE5810-record”. Click “Create” to create a new folder.

Now back to SE5810. Under “Broadcast List” tab, check to make sure there is only one or no streaming task.
Select “Record” as “Stream Type” and “NAS” as your “Storage Device”. Enter the IP address of your NAS server, the name of the shared folder and account/password in the fields below. Click “Connect” to verify the recording path and password. A file splitting feature is added so that you can split the recording files to smaller segments. So set the time duration of each segment, adjust the “hours” and “minutes” in the “Segment Duration” settings.

Once the verification is done, click the “Play” icon to start streaming and recording. It is safer to access the recording files on NAS server after you have stopped streaming. To retrieve the files from NAS, open “Computer” or a file explorer window. Enter the server address with two leading backslashes `\10.1.9.56` and press Enter.
Navigate to the “SE5810-record” shared folder we created earlier. If prompted to enter account and password, enter the account and password of the NAS server.

In the shared folder you can find the recording files. Copy the files to your desired destination for further processing or just let them be.
Recording to External Storage & File Format

Recording to a local, external storage can be done easily on SE5810. Select “Record” for “Stream Type”, “USB” or “SD Card” for “Storage Device”, “MP4”, “MOV” or “TS” for “Format”, a “Segment Duration”, then click to start recording to your designated external storage.

For details on removing external storage, refer to the “Remove Storage Device (SD Card / USB Drive)” section.

Note: Dropped frames may occur when using different types of external storages. We recommend using an HD/SSD speed test software, switching to another storage, or lowering your bit rate (e.g. 10 Mb) when it happens repeatedly.
Streaming to Facebook

SE5810 allows you to easily broadcast content on Facebook. Go to “Configuration” tab, select “Facebook” as the “Stream Type”.

Click “Log In” and enter your Email or Phone Number and Password accordingly.

Click the “Play” icon to start streaming.

Now, go to the your Facebook page and you will be able to see the live streaming.
Streaming to CMS and SR310/SR315 with TS UDP Multicast

AVerMedia CMS video solution provides video-on-demand, digital signage and live streaming in one package. Excellent quality of this solutions comes with cost effectiveness and easy deployment.

TS UDP multicast is an easy-to-setup and cost-effective way to distribute live streaming to SR310/SR315. First you need to connect SE5810 encoder with CMS server. Go to “Administration” tab of SE5810.

Click “Enable” in “CMS Server Settings”. Enter the IP address and port number of the CMS server. CMS is installed to port 80 by default. Click “Connect” to link SE5810 to CMS server.

After connection is established, the “Administration” tab will show the connection to CMS server is enabled.
In the CMS web management page, you can double check if SE5810 is linked with CMS server.

To start delivering live streaming to SR310/SR315, first set up TS UDP multicast under SE5810’s “Configuration” tab. Choose “AVerMedia CMS-UDP (Multicast)” as the “Stream Type”. The other settings are the same as in TS UDP multicast, except for the video name and description, which will be sent to CMS and SR310/SR315 as program information.
After streaming started, you can check under “Live Channel” at CMS management page.

Click the “Edit” icon to change the distribution of this live program to SR310/SR315. Change the selection of groups to selectively deliver this live channel to specific groups of SR310/SR315.
When editing a layout, add a “Media Player” item to the layout and select “Live Channel as the source.

Click the “Edit” icon and select one of the live channels.

Deploy this layout template to SR310/SR315 so they have live video on the signage.
Streaming with TCP unicast (TS over TCP)
TCP is often used when the number of player/client is between 1 and 50, as long as the encoding bit rate multiplied by the number of player/client does not exceed 75 Mbps.

In “Configuration” tab, select “TS over TCP” and select a port number between 1024 and 65535.

After streaming started, the playback URL can be found at “Output Location” in “Broadcast List” tab.
Enter this URL in VLC: “Media” → “Open Network Stream... Stream”.
Streaming with UDP unicast (TS over UDP)
UDP unicast is often used to transport video content from one equipment to another, as a means to replace traditional SDI cables with network cables.

In this example we are sending video content to a computer with IP address 10.1.9.81, on which we will use VLC to receive the streaming on port 1234.

Streaming status can be monitored in “Broadcast List”
On computer 10.1.9.81, use VLC’s “Open Network Stream...” and enter the URL to receive streaming.
Streaming with RTP unicast (TS over RTP)
RTP (Realtime Transport Protocol) unicast is almost the same as UDP unicast in purpose, except the packets are enclosed with RTP headers.

In this example we are sending video content to a computer with IP address **10.1.9.81**, on which we will use VLC to receive the streaming from port **1234**.
On computer 10.1.9.81, use VLC’s “Open Network Stream...” and enter the URL to receive streaming.
Streaming with TS RTP multicast

TS multicast is similar in purpose with TS RTP multicast, except that RTP packets are used instead of only UDP packets. For the explanation of TTL & SAP fields, please refer to the sections on TS multicast.

In this example we multicast video content to the multicast group 239.0.0.1:1234.

Monitor streaming in “Broadcast List”
Receive streaming VLC:
Streaming with RTSP

Streaming with RTSP over UDP streaming is supported with SE5810. Select “RTSP” from the “Stream Type” drop-down menu and enter the maximum number of clients into “Max Clients”, port and URL.

It is recommended to keep the “Max Clients” to 1 for most stable performance. With smaller encoding bit rates, you can experiment with this number.

Monitor streaming in the “Broadcast List” tab
Playback the streaming in VLC:
Customize Encoding Profile

The built-in encoding profiles are optimized for best video quality for most purposes. To customize your own profiles, go to the “Encoding Profile” tab. Click on “Add New Profile”.

Other than the names of the encoding profiles, you can “reference” one of the built-in profiles and make customizations. Not starting from scratch might save some time.

Select one of the built-in profiles from “Reference Profile”
You may freely change the encoding parameters to suit your needs.

### Encode Mode

**VBR (Variable Bit Rate)** optimizes towards video quality. The bit rate will fluctuate quite considerably, up to 2 times of the target bit rate in the case of SE5810. This is recommended if video quality is of concern.

**CBR (Constant Bit Rate)** strives to keep the bit rate constant and very close to the target bit rate. In doing so, it does not optimize video quality as VBR does. This is recommended on Internet streaming to YouTube Live, Ustream, and other service providers on the Internet.

### Resolution*

SE5810 provides down-scaling of video from 1920x1080 to 720x480. Upscale is NOT recommended and will often result in video quality issues.

* Resolution aspect ratios are provided as presets and cannot be customized.

### H.264 Profile

Main/high/base line profiles are supported.
H.265 Profile
Also known as High Efficiency Video Coding (HEVC). Available in various profiles in Optimal, High and Medium Quality. Mainline profile is supported.

Bit Rate
Enter target bit rate here in units of Kbit per second. The ranges of limits are as follows.

### VBR Bit Rate Range

<table>
<thead>
<tr>
<th>Output video resolution</th>
<th>Lowest bit rate (Kbps)</th>
<th>Highest bit rate (Kbps)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1920x1200</td>
<td>1,200</td>
<td>15,000</td>
</tr>
<tr>
<td>1920x1080</td>
<td>1,200</td>
<td>15,000</td>
</tr>
<tr>
<td>1280x720</td>
<td>900</td>
<td>15,000</td>
</tr>
<tr>
<td>720x576</td>
<td>500</td>
<td>10,000</td>
</tr>
<tr>
<td>720x480</td>
<td>500</td>
<td>10,000</td>
</tr>
<tr>
<td>640x480</td>
<td>500</td>
<td>10,000</td>
</tr>
</tbody>
</table>

### CBR Bit Rate Range

<table>
<thead>
<tr>
<th>Output video resolution</th>
<th>Lowest bit rate (Kbps)</th>
<th>Highest bit rate (Kbps)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1920x1200</td>
<td>2,000</td>
<td>15,000</td>
</tr>
<tr>
<td>1920x1080</td>
<td>2,000</td>
<td>15,000</td>
</tr>
<tr>
<td>1280x720</td>
<td>1,400</td>
<td>15,000</td>
</tr>
<tr>
<td>720x576</td>
<td>700</td>
<td>10,000</td>
</tr>
<tr>
<td>720x480</td>
<td>700</td>
<td>10,000</td>
</tr>
<tr>
<td>640x480</td>
<td>700</td>
<td>10,000</td>
</tr>
</tbody>
</table>

### Key Frame Interval
This number decides the length of one GOP structure, and is also called “GOP length”. A value of 30 means there is one I frame or key frame in every 30 video frames. Setting this too low will negatively impact video quality.

### B Frame Number
Set to “0” to make GOP structure to “IPPP”, where there is no B frames at all. Set to “1” to make GOP structure to “IBP”. Set to “2” to make GOP structure to “IBBP”.

### Entropy Mode
CABAC is commonly used for its better performance in video quality. Use CAVLC if you select “base line” in H.264 profile.
Channel
Output audio can be stereo or mono.

Sample Rate
Audio sample rate is fixed to 48 KHz on SE5810.

(Audio) Bit Rate
Select desired audio bit rate in Kbps. The higher the bit rate the better the sound quality.
Applying Customized Encoding Profile

Customized profiles are listed at the end of selection. Just select in “Configuration” tab to apply customized profiles to streaming.

*Available bit rate combinations are determined by the following streaming limitations

1. The total limit for video stream is 20 Mbps. Current bitrate is 11.26 Mbps.
Administration

Other settings not directly related to streaming can be found and changed in the “Administration” tab.

Basic Information & Firmware Update

Device name can be changed to identify each SE5810 apart. Firmware version is also found here. You can also update firmware by clicking “Browse” → Pre-downloaded firmware file → “Update”.

[Image of AVerCaster interface showing Basic Information and CMS Server Settings]
Edit Account and Password
Change the name of the account and password to better protect SE5810 from unauthorized access.

<table>
<thead>
<tr>
<th>Edit Account</th>
<th>Edit Password</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enter account.</td>
<td>Enter password.</td>
</tr>
<tr>
<td>Enter new account.</td>
<td>Enter new password.</td>
</tr>
<tr>
<td>Enter new account again.</td>
<td>Enter new password again.</td>
</tr>
</tbody>
</table>

Network Settings
SE5810 supports static network settings and also automatic settings. In case of automatic assignment, if SE5810 fails to reach a DHCP server, it will randomly select one IP from 169.254.0.0, according to RFC3927 “Dynamic Configuration of IPv4 Link-local addresses”.

Network Settings
- **Network Interface**: eth0
- **IP Address**: 192.168.0.102
- **Subnet Mask**: 255.255.255.0
- **Default Gateway**: 192.168.0.1
- **Primary DNS Server**: 192.168.0.1
- **Secondary DNS Server**: 

**OK**
Backup / Restore Configuration

Saving settings of SE5810 to local files for backup and restore purposes. **Please note that backup files cannot be used between different versions of SE5810 firmware.**

### Backup / Restore Configuration

<table>
<thead>
<tr>
<th>Setting</th>
<th>Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>Backup Settings</td>
<td>Settings are stored in a computer</td>
</tr>
<tr>
<td>Restore Settings</td>
<td></td>
</tr>
</tbody>
</table>

**Time Settings**

By default, the system time is automatically set to your computer’s time. However, you can adjust the time manually. It is recommended to have the correct date and time before you start recording or streaming contents.

Should you need to adjust the time manually, click “Edit”.

### Time Settings

The current system time: (GMT+8) 2019/04/03 6:16:35 PM

Adjust your “Time Zone”, “Date”, and “Time” accordingly, then click “Save and Restart”.

---
SAP Group Settings

When streaming to TS multicast or RTP multicast, SE5810 will broadcast program information using SAP (Session Announcement Protocol). Player clients that support SAP, such as VLC, can pick up this information as a kind of electronic program guide for easier navigation between the broadcast programs.

Group name of SAP can be changed in this setting. Default is “AVerCaster”.
Channel Name can be switched in the “Configuration” tab

To receive SAP information in VLC

Automatic Reboot Settings

For maintenance purposes, SE5810 can restart in scheduled day intervals and specified hour of day. Please note that after a power-down or power-cycle, the reboot timer will reset. For example, if SE5810 is set to restart every 2 days and is power-cycled at the end of the first day, next restart will occur 2 days after the power-cycle.
Remove Storage Device (SD Card / USB Drive)
SE5810 supports recording to external storage such as a SD card or USB drive. If you have an external storage connected to your SE5810 and want to remove it properly, go to “Administration” → “Remove Storage Device” → click “Remove” to safely remove the storage device.
Module name: uClibc

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parseInt: 58
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--------------------------------------------------------------------
Module name: libupnp

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--------------------------------------------------------------------
Module name: zlib

/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.8, April 28th, 2013

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Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

*/

--------------------------------------------------------------------
Module name: gettext

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Module name: gst-plugins-good

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Module name: ffmpeg

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Module name: busybox

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Module name: goahead

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Module name: inadyn

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Module name: rp-pppoe

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