

From: [REDACTED] </O=ITHAKA/OU=FIRST ADMINISTRATIVE GROUP/CN=RECIPIENTS/CN=[REDACTED]>
Sent: Tuesday, October 12, 2010 2:06 PM
To: [REDACTED]@ithaka.org>; [REDACTED]
<[REDACTED]@ithaka.org>; [REDACTED]
<[REDACTED]@ithaka.org>; [REDACTED] <[REDACTED]@ithaka.org>
Cc: [REDACTED] <[REDACTED]@ithaka.org>; [REDACTED]
<[REDACTED]@ithaka.org>; [REDACTED]@Ithaka.org>;
[REDACTED]@ithaka.org>; [REDACTED]
<[REDACTED]@ithaka.org>
Subject: Update: JSTOR & MIT

Just a quick update...

[REDACTED] is compiling the last of the stats surrounding these two incidents. All IP addresses have been restored for access to JSTOR at MIT with [REDACTED] keeping a watchful eye for recurrence. I have been in contact with our contacts at MIT and they are very helpful. Once we have the IPs and date stamps from our logs, I will be requesting a summary from their side, an outline of steps taken and passing along our summary to you all.

[REDACTED] at MIT is very appreciative of our efforts here and was not upset that their IPs had been blocked, but seeking, as we all are, to have full reinstatement and activity return to normal with the requisite accountability. We will continue working together toward that end.

-----Original Message-----

From: [REDACTED]
Sent: Tuesday, October 12, 2010 10:39 AM
To: [REDACTED]
Cc: [REDACTED]
Subject: RE: Update: JSTOR & MIT

Thanks [REDACTED]

First, let me take the opportunity to clarify the two versions of this that occur...

1. An institution trips one of our abuse threshold (300 PDFs in one session, 5000 sessions in one hour), there individual IP is blocked for 30 minutes.

a. Users from that IP address (sometimes a proxy serving the whole campus, sometimes just one IP address) will see the standard error page that was created last August as we implemented abuse tools...

Access Suspended

Access to JSTOR from your current IP address ([REDACTED]) has been suspended. We will be in contact with the administrators at your institution directly and will work to have access restored as quickly as possible. For more information, please contact JSTOR Support.

...If the activity occurs just once, we consider the issue resolved and the message effective in outlining the Terms & Conditions of Use for the end user. If the blocking recurs for that institution, we typically get a hold of the institution and seek correspondence and resolution. Long term cases at institutions are fairly rare and usually don't persist day in and day out, but occur a few times over the course of a few weeks until the institution can get it resolved. Each block basically = 300 PDFs, which means a small amount of the archive is leaking out, never en masse.

b. This particular case highlights that our 5000 session limit (implemented as a response to MIT on 9/29) is calculated per IP AND per server. We were under the impression that it would be applied per IP only, which would have caught this 2nd incident. We will use the data derived from this incident to put a limit in place that accounts for the per IP, per server metric.

2. In the MIT case, the Class A range was blocked, at [REDACTED] request, at the firewall level. This was necessary because the traffic itself, even if denied the ability to download PDFs, was so intense it would have had the same effect on our server stability. In this case, users are seeing...

"Server not found. Firefox can't find the server at www.jstor.org."

...because it is not implementing the Literatum abuse tools, but is blocked at the firewall.

In summary and answering your questions directly. I can only recall one other time that [REDACTED] blocked an IP at the firewall. It wasn't abuse, but it was a robot gone haywire, downloading the same PDF at a wild rate and beginning to threaten our capacity to serve the public site on some servers. We can alter the message that users see when IPs are blocked, but it is a one size fits all solution. We cannot alter what users see when their IP is blocked at the firewall.

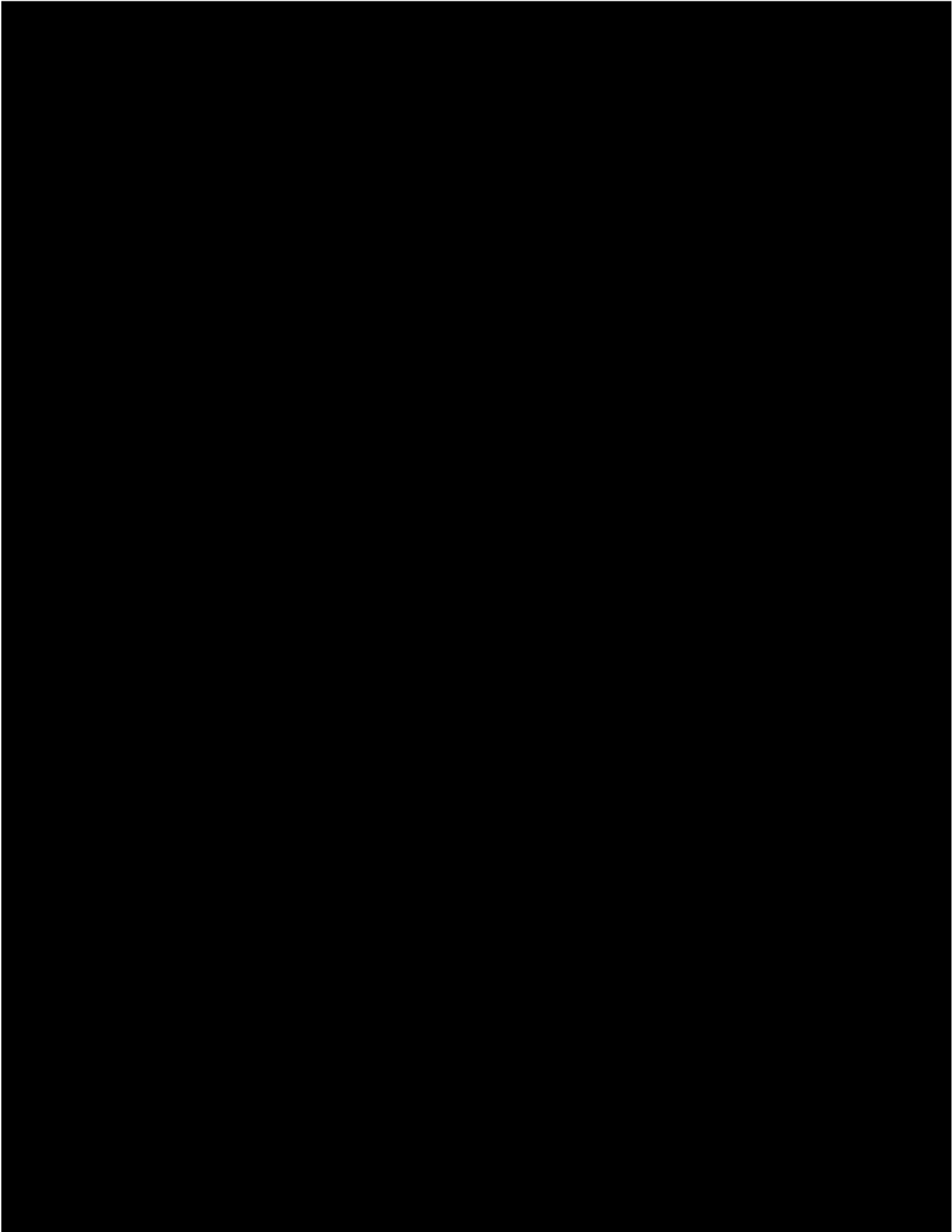
It is perhaps useful to note that the librarians we are in contact with are rarely defensive or irritated, and almost always shocked, embarrassed and apologetic. These are also the same librarians that we sell our content to. Our basic approach is to leave them with the impression that we are simply being good stewards of the content and using reasonable means to do so. Blanket IP range blocks and excessive force are to be avoided when possible and are not necessary 99% of the time. Once the librarian understands the different pieces of the abuse puzzle, they are very cooperative and looking to help.

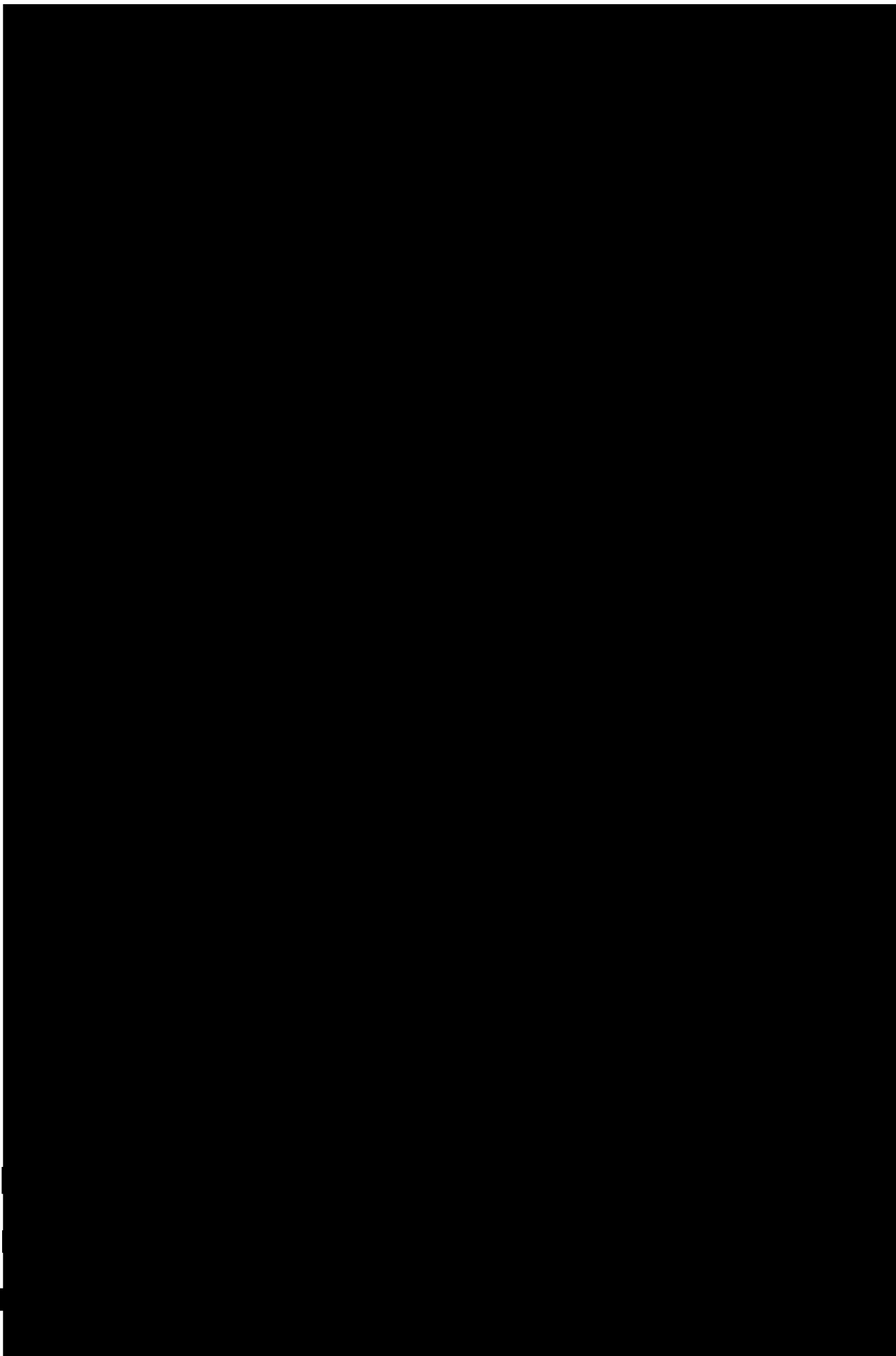
That said, it is a useful exercise to understand the nature of the problem here. By doing a simplified Chinese language Google search on "EZProxy password", you will find numerous lists with valid authentication information for hundreds if not thousands of schools. I copied the contents from a random site on the first page of results found using this search below just now. The number of sites like these are legion. So it's not that the librarian or technical staff are able to stem this tide either and we need to understand their position as well. We need to be level headed and even handed. This particular MIT case is extremely abnormal.

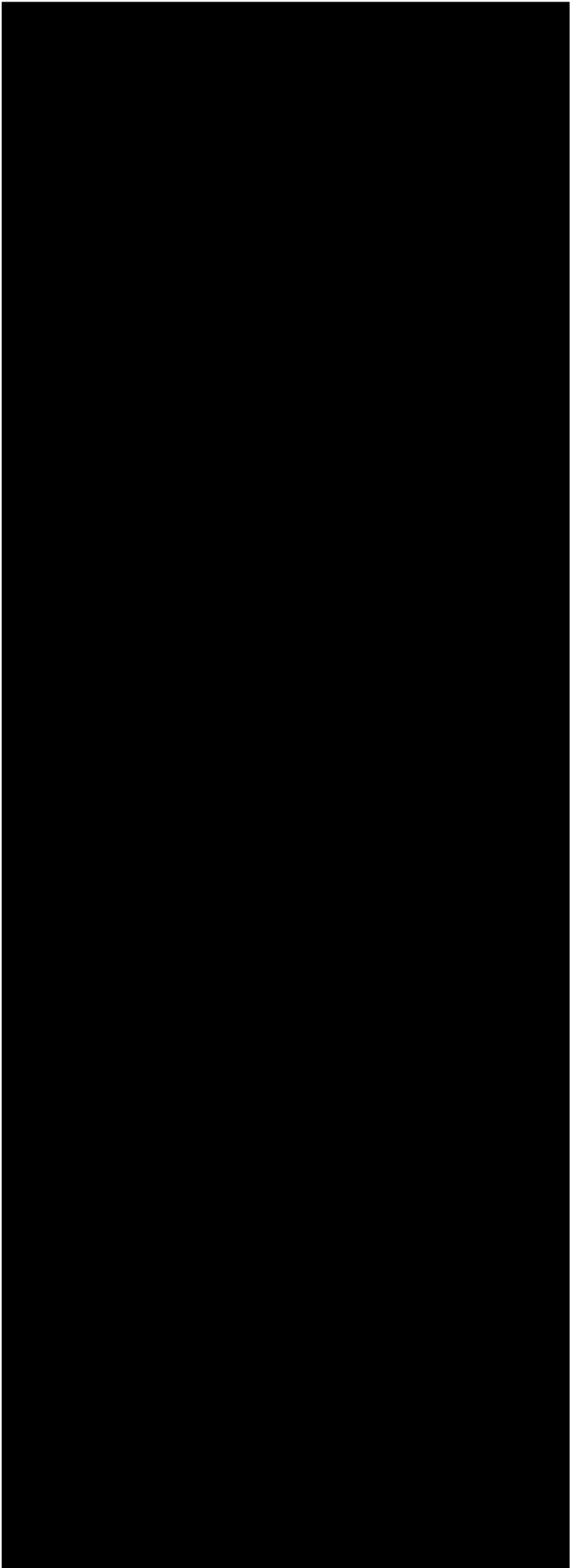
All that said, with CSP on our doorstep, it would be a valuable enterprise to understand our partner's expectations for protection of their content and to help them understand our capabilities and limitations as well. In some cases, we will be doing more to protect the content than they have historically, in others, because our usage is so high, it will be hard to match their efforts because the abuse tools don't scale particularly well to both prevent excessive downloading and maintain access for legitimate users. Proxied access is especially hard in this regard. That is, you could easily imagine a larger school having 200 unique sessions from one IP (proxy) in an 5 minute span (a professor assigning one article in a large lecture could hit this mark in isolation), whereas

200 sessions in a 5 minute period from the same IP at the UC Press website might look like an onslaught.

In case, once MIT is resolved, we will have to circle back and at least breakdown what our protocols should be going forward and begin to scope the CSP engagement with regards to abuse at JSTOR.









-----Original Message-----

From: [REDACTED]

Sent: Tuesday, October 12, 2010 8:05 AM

To: [REDACTED]

Cc: [REDACTED]

Subject: RE: Update: JSTOR & MIT

For the future, what happens when we deny an entire site (from an end user perspective) -- what message do users receive? Is there any opportunity to customize? How frequently do we have to take action at this scale?

-----Original Message-----

From: [REDACTED]

Sent: Monday, October 11, 2010 7:56 PM

To: [REDACTED]

Cc: [REDACTED]

Subject: RE: Update: JSTOR & MIT

Done.

Dear [REDACTED]

Good evening. I am hoping to hear additional news from you about the status of this weekend's block of IPs for JSTOR access at MIT. We are beginning to receive feedback from MIT users on our Facebook page and via direct email and we would like to be able to let them know the current status of the IP denial and an expected timetable for resolution. We are reticent to do so having not heard from you. A progress report on this incident would be helpful to assist us in better serving our mutual patrons.

Again, please do let me know if I can assist further from our end and I'll be glad to do so.

Best,

[REDACTED]
[REDACTED]
JSTOR
[REDACTED]@ithaka.org

-----Original Message-----

From: [REDACTED]
Sent: Monday, October 11, 2010 7:36 PM
To: [REDACTED]
Cc: [REDACTED]
Subject: RE: Update: JSTOR & MIT

I would let our MIT contacts know immediately that we are hearing directly from end users and how they would like us to respond. We don't want this discussion to go viral on Facebook, etc., so my advice is to try to avoid direct responses about robots and such. This could result in criticism in both directions that could be hard to stop.

[REDACTED]

-----Original Message-----

From: [REDACTED]
Sent: Monday, October 11, 2010 7:32 PM
To: [REDACTED]
Cc: [REDACTED]
[REDACTED]
Subject: RE: Update: JSTOR & MIT

Good Evening,

By way of an update, we have one email and one Facebook post referencing the outage at MIT, both are from end users and are of the wondering what's up and giving us an FYI variety. Having not heard from MIT officially today, I am suggesting we respond to both users with the following...

drives or exported elsewhere. So, there may be different follow up depending on the type of infringement occurring.

In any event, this is one of the reasons for wanting to implement discrete watermarking or identifiers, should we in time find our content re-purposed by other sites.

-----Original Message-----

From: [REDACTED]

Sent: Monday, October 11, 2010 12:47 PM

To: [REDACTED]

Cc: [REDACTED]

Subject: Update: JSTOR & MIT

Afternoon Update,

Still no word from MIT, but I suspect it will come shortly. That said, and wanting to be prepared, if there are any details or contingencies for reinstatement, we should be developing those now. They will likely come back and say it's taken care of again. They may or may not offer a reason. An immediate recurrence is highly unlikely, whether they have truly taken care of it or not, so it will be hard to solicit proof.

If I were forced to guess, I think they will report back that they identified a compromised User Name and Password and a bunch of referring access from IPs around the globe (typically some combination of China, Russia, and a smattering of Eastern European, Asian and South American origins). Some schools think that blocking those referring IPs is sufficient, which it is not, but isn't a bad addition. Hackers generally use Open Proxies to fake their actual location and can find an alternate Open Proxy to use quite readily. Only changing the password or disabling the offending Username and Password is an acceptable solution.

In cases like these, we ask them to confirm that the identity responsible has been dealt with, we also ask that they confirm deletion of harvested content, but if it is from a referring IP abroad, this user could be anyone/anywhere.

Anyway, if there are special requests or requirements to gain reinstatement, we should have them at the ready.

Thanks,

[REDACTED]

-----Original Message-----

From: [REDACTED]

Sent: Monday, October 11, 2010 11:04 AM

To: [REDACTED]

Cc: [REDACTED]

Subject: Re: Extreme robotic activity of JSTOR at MIT

Thanks [REDACTED]

There was one Facebook post at midnight, a normal user from MIT (at least via his profile he lists the MIT Network in Facebook), having trouble. I have not responded, wanting to give MIT at least the morning to touch base. Still no word from MIT.

Looping in [REDACTED] and [REDACTED] I brought then up to speed last night.

[REDACTED]
[REDACTED]
JSTOR | Portico
[REDACTED]
[REDACTED]

On Oct 11, 2010, at 10:40 AM, [REDACTED] <[REDACTED]@ithaka.org> wrote:

> Good to see this response. I fully understand our need to be down until this is remedied, but I'm also mindful of the potential loss of goodwill from innocent MIT users who rely on us. Has [REDACTED] received any inquiries on this front?

>

> -----Original Message-----

> From: [REDACTED]

> Sent: Sunday, October 10, 2010 9:43 PM

> To: [REDACTED]

> Subject: Fw: Extreme robotic activity of JSTOR at MIT

>

> Fyi

>

> ----- Original Message -----

> From: [REDACTED] [mailto:[REDACTED]@MIT.EDU]

> Sent: Sunday, October 10, 2010 08:15 PM

> To: [REDACTED]

> Cc: [REDACTED]@mit.edu>; [REDACTED]@mit.edu>

> Subject: RE: Extreme robotic activity of JSTOR at MIT

>

> Thank you, [REDACTED] Your action was entirely appropriate, and I appreciate your courtesy in letting me know. It is infuriating that MIT's security appears unable to stop this pattern. We will redouble our efforts to solve the problem. [REDACTED]

>

>

> From: [REDACTED]@ithaka.org]

> Sent: Saturday, October 09, 2010 11:15 PM

> To: [REDACTED]

> Subject: Extreme robotic activity of JSTOR at MIT

>

> Dear [REDACTED]

>

> I wanted to let you know about an extreme step we have taken this evening. Our staff have blocked access to JSTOR from MIT. This is a highly unusual step and one we do not take lightly. We have had to do so because someone is systematically attempting to download large parts of the JSTOR database from within MIT's IP range. They use robots to open a session, download a PDF, open a new session, download another PDF, and keep repeating at a high rate. Not only is this a problem because it is beyond the terms of the license, but the downloading is so extensive that it impacts other users and has even brought some of our servers down. We worked through a similar incident at MIT three weeks ago and thought that the activity was being done by a visiting scholar who had left. But it has started again at an even faster rate. I am not writing you to complain about the activity; I just wanted you to be aware of the extreme step we have taken and why.

>

> Our staff have communicated with your staff and will be working to get MIT access back up just as soon as possible.

>

> I'll keep you posted as I hear more.

> Best regards,

>

> [REDACTED]