# **EXHIBIT F**

# **REDACTED VERSION OF DOCUMENT(S) SOUGHT TO BE SEALED**

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17	MATTHEW CAMPBELL and MICHAEL HURLEY, on behalf of themselves and all		. C 13-05996 PJH (SK)			
18	others similarly situated,		FIFFS' MOTION TO COMPEL JCTION OF DOCUMENTS			
19	Plaintiffs,	Date:	Telephonic Hearing to be set			
20	v.	Time:	by Court To be Set by Court			
21	FACEBOOK, INC.,	Judge: Place:	Hon. Phyllis J. Hamilton Courtroom 3, 3rd Floor			
22	Defendant.					
23						
24						
25 26						
26						
27 28						
20			PLAINTIFFS' MOTION TO COMPEL PRODUCTION OF DOCUMENTS CASE NO. 13-CV-05996-PJH (SK)			

1	NOTICE OF MOTION AND MOTION
2	TO ALL PARTIES AND THEIR COUNSEL OF RECORD:
3	PLEASE TAKE NOTICE that pursuant to this Court's Order dated June 30, 2016 (Dkt.
4	203), the undersigned Plaintiffs will and hereby do move the Court for an order granting
5	Plaintiffs' Motion to Compel Further Document Searches by Defendant, Facebook, Inc. This
6	motion is based upon this Notice of Motion; the accompanying Memorandum of Points and
7	Authorities; the Declaration of David T. Rudolph filed herewith; the argument of counsel, if
8	requested; and such other matters as the Court may consider.
9	STATEMENT OF ISSUES TO BE DECIDED
10	Whether, consistent with the requirements of Federal Rule of Civil Procedure 26(b),
11	Defendant Facebook, Inc. should be compelled to produce documents identified through further
12	document searches using Plaintiffs' proposed search terms and custodians reflected in Appendix
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I.

## **INTRODUCTION**

Pursuant to this Court's Order (Dkt. 203), Plaintiffs respectfully request the Court to
compel Facebook to search for and produce documents using search terms, methodologies, and
custodians that are appropriately and proportionally calibrated, pursuant to Fed. R. Civ. P. 26(b),
to the scope of Plaintiffs' claims as articulated in the Court's Class Certification Order ("Cert.
Order") and the Second Amended Complaint.<sup>1</sup> While the parties have, through meet-and-confer
efforts, substantially narrowed their areas of disagreement post-certification, significant disputes
remain.

The deficiencies addressed in this brief involve three, interrelated issues: First,

10 Facebook's current document production is woefully inadequate because Facebook collected

11 documents through keyword searches that not only omitted highly-relevant terms (which

12 Plaintiffs later identified through discovery) but also *substituted critical keywords with* 

13 generalized terminology that Facebook acknowledges is not used internally.<sup>2</sup> Thus, large swaths

14 of relevant discovery were purposefully ignored. **Second,** and compounding the above error by

15 relying on its objections as to scope (the validity of which this Court consistently has rejected,

16 and which, in any event, are now inarguably invalid in light of the Cert. Order), Facebook trained

17 its "predictive coding" software to categorize as irrelevant documents unrelated to "increasing the

18 Like count" (Facebook's definition of the "challenged practice")—thus excluding relevant

19 documents from further review and production. **Third,** Facebook remains unwilling to conduct

20 searches from the files of relevant custodians.

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Plaintiffs immediately objected to Facebook's improper use of predictive coding and

I functions infinite and the source of the s

Rudolph Declaration.

28 footnote 6, *infra*.

<sup>22</sup> 

 <sup>&</sup>lt;sup>1</sup> The documents sought by this motion are responsive to Plaintiffs' Requests for Production 4-11 and 18-20, which seek technical documents related to the claims at issue. The Requests, and Facebook's responses thereto, are attached as Exhibits 3 and 4, respectively, to the Declaration of David Rudolph ("Rudolph Decl."), filed herewith. Unless otherwise stated, all exhibits are to the

 <sup>&</sup>lt;sup>2</sup> As discussed in greater detail below, a prime example is Facebook's exclusion of the terms "EntShare" and "EntGlobalShare" from any of its searches, instead using the terms "share object."
 and "global share object." This omission is inexcusable given the fact that EntShares and

 <sup>20</sup> and 'grobal share object.' This oblission is inexeduable given the fact that EntShares and
 EntGlobalShares lie at the heart of each of Plaintiffs' claims, and is further inexplicable given the
 27 fact that Facebook's seminal declarant and witness. Alex Himel, has acknowledged that "share object" . See

objected to Facebook's inadequate keywords immediately upon determining that Facebook's
searches clearly had not implemented the terminology most relevant to this case. Plaintiffs
promptly requested that Facebook supplement its production with documents located by searches
using appropriate keywords. Facebook initially refused to produce any further documents, but
eventually agreed to a clearly inadequate token search using a subset of the relevant terms on only *three* out of the more than *forty* custodians Facebook has identified thus far.

7 After repeatedly meeting-and-conferring on these topics, Plaintiffs have significantly 8 narrowed their requests to terms—including keyword proximity searches limiting those terms— 9 that correctly reflect the scope of Plaintiffs' claims as articulated in the Second Amended 10 Complaint and the Cert. Order, and which also address Facebook's concerns regarding burden 11 and proportionality, and thus satisfy Fed. R. Civ. P. 26(b). The parties' respective positions on 12 the appropriate search terms, as well as the appropriate temporal scope of discovery, is attached to 13 this brief as Appendix A. While the parties have reached general agreement on many topics, 14 substantial disputes remain, particularly with respect to time period for which documents should 15 be searched. Given Facebook's recent admissions both shortly prior to and shortly after Plaintiffs 16 amended their Complaint, Facebook's representations about what may or may not have ceased 17 cannot be taken at face value. Plaintiffs respectfully request, pursuant to this Court's Order (Dkt. 18 203), that the Court order Facebook to conduct further document searches consistent with 19 Plaintiffs' proposed search terms, for the full class period.

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## II. <u>ARGUMENT</u>

A.

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#### **Facebook's Initial Insufficient Document Production Efforts**

At the start of discovery, Facebook indicated it would search for documents containing various terms identified by Facebook from its first round of interrogatory responses. These terms largely consisted of non-technical phrases relating to Facebook's "Like" counter, such as "like button count," "share object," "share button" or "URL" in proximity to terms such as "messenger" or **1000**<sup>3</sup> Unbeknownst to Plaintiffs, however, these terms did not reflect the *actual* terminology employed internally by Facebook engineers with respect to the practices at **3** Ex. 11 (Letter dated May 13, 2015 from Facebook's counsel to Plaintiffs' counsel).

1 issue, and omitted many key components of Facebook's architecture that are employed in 2 scanning, cataloging, and using Private Message content. Moreover, *after* Facebook indicated it 3 would collect and review documents based on these search terms, it revealed that, rather than 4 manually review the documents for relevance, it would employ computer-aided "predictive 5 coding" to *further* narrow the documents related to these narrow search terms for subsequent 6 manual review. Plaintiffs objected to Facebook's implementation of predictive coding, pointing 7 out that predictive coding is designed to be used *in lieu of*—as opposed to *in addition* to— 8 keyword searches. Facebook's process of keyword culling is discouraged and recognized by 9 courts and predictive coding experts as a flawed methodology that is likely to filter out a significant portion of responsive documents.<sup>4</sup> As such, Facebook's document production efforts 10 were flawed from their inception, not only by improper search terms, but also by a coding and 11 12 review process that improperly narrowed those documents even further.

13 Compounding this problem, in implementing its predictive coding, Facebook unilaterally imposed an improperly restrictive definition of relevance that this Court has already rejected 14 multiple times,<sup>5</sup> and which is inarguably untenable in light of the Cert. Order. Just as Facebook 15 16 failed to include search terms related to the myriad functionalities and uses described below, 17 Facebook also omitted those functionalities and uses when it was training the software to learn 18 the characteristics of relevant documents. In short, since Facebook's predictive coding software 19 was never trained that the appropriate concepts were relevant, it could not identify as relevant 20 documents related to these concepts. Facebook's refusal to implement an appropriate standard 21 for relevance has thus guaranteed that relevant documents were withheld from production and 22 still need to be produced.

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 <sup>&</sup>lt;sup>4</sup> See Tinto v. Vale, No. 14-3042, 2015 WL 4367250, at \*1 (S.D.N.Y. July 15, 2015) ("[P]re-culling [using keywords] should not occur in a perfect world."); *Progressive Cas. Ins. Co. v. Delaney*, No. 11-678, 2014 WL 3563467, at \*11-12 (D. Nev. July 18, 2014) (where parties had

Delaney, No. 11-678, 2014 WL 3563467, at \*11-12 (D. Nev. July 18, 2014) (where parties had stipulated to a keyword then manual review protocol, the court would not allow Progressive to use predictive coding only on the positive keyword hits).

<sup>&</sup>lt;sup>5</sup> See, e.g., Dkt. 83 (June 3, 2015 Order), at 7 (rejecting Facebook's argument that challenging "any "interception" of messages containing URLs for any purpose" demonstrated a shift in position from allegations in Plaintiffs' CAC); Dkt. 130 (October 14, 2015 Order), at 8 (same)
(citing CAC at ¶ 86); *Id.* at 13 (citing CAC at ¶¶ 30, 49-51).

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В.

# Facebook's Inadequate Keywords

2	Facebook proposed grossly inadequate search terms early on in the case, before producing
3	documents that revealed Facebook's internal terminology. For example, in light of the Cert.
4	Order, it is indisputable that two technical terms at the core of this litigation are "EntShare" and
5	"EntGlobalShare" (the data structures Facebook creates from scanning URLs within messages to,
6	inter alia, increment Like counters). <sup>6</sup> Remarkably, in its search terms, Facebook used the term
7	"share object" and "global share object," respectively, in lieu of "EntShare" and
8	"EntGlobalShare." However, Facebook's
9	Alex Himel—an engineering director whom Facebook has used to verify interrogatory
10	responses, provide multiple declarations, and to provide 30(b)(6) testimony related to message
11	scanning and the Like button—stated
12	
13	
14	
15	
16	7
17	Moreover, as described in detail in the Cert. Order, <sup>8</sup> the scope of the message scanning is
18	broader than incrementing "Like" counters. As further described below (and tracking the Cert.
19	Order), discovery also has revealed the internal architecture (and relevant technical terms)
20	utilized by Facebook to retain, analyze, and use Private Message data. <sup>9</sup> Yet, Facebook
21	deliberately chose not to use the core technical terms relevant to these functionalities and uses,
22	and that failure must be remedied going forward.
23	C. <u>Plaintiffs' Proposed Searches Fall Within the Constraints Imposed By the</u>
24	Court's Class Certification Order
25	Against this backdrop, the parties have negotiated further search terms. As can be seen in
26	<sup>6</sup> See Dkt. 192 (Cert. Order), at 4.
27	<sup>7</sup> Ex. 5 (Himel Dep.), at 154:19-155:7. <sup>8</sup> Dkt. 192, at 4-6.
28	<sup>9</sup> See also Dkt. 196 (Second Amended Complaint, "SAC"), ¶¶ 45-55.
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Appendix A, the parties are largely in agreement as to the proper terms to be used in further
keyword searches. As described in detail in the Cert. Order and the SAC, the scope of the
message scanning is significantly broader than incrementing "Like" counters (the focus of
Facebook's previous document collection efforts), and includes (a) logging Private Message
content for future use;<sup>10</sup> (b) using Private Message content to push recommendations to its users<sup>11</sup>
and targeting users based on Likes and other data points;<sup>12</sup> and (c) providing demographics data
and other analytics related to users and their Private Message content.<sup>13</sup>

8 The primary areas of disagreement are (1) what terms should be included in the proximity 9 terms further limiting those searches, (2) the proper time period for the searches, and (3) the proper custodians. Plaintiffs' search proposal has been carefully crafted as a reasonable 10 11 compromise to address Facebook's proportionality concerns, and it is neither appropriate nor 12 reasonable to limit Plaintiffs' proposed searches any further. Plaintiffs' search terms are focused 13 on highly technical terms directly related to the source code devices Facebook uses to intercept 14 Private Message content as well as the internal systems that use that content, as described in the 15 Cert. Order and in the SAC, and accordingly these requests satisfy the proportionality and other 16 requirements of Rule 26(b)(1) and (b)(2):

17

### Creation of EntShares and EntGlobalShares: The terms "EntShare" and

"EntGlobalShare" are at the center of Plaintiffs' claims. As the Court noted, Plaintiffs allege that
Facebook intercepts Private Message content for uses not related to message delivery through the
creation and manipulation of EntShare and EntGlobalShare objects.<sup>14</sup> Facebook appears to
concede the centrality of these terms, given that it has agreed to search for these terms for the

22 <sup>10</sup> <u>Relevant terms in</u>clude: EntShare, EntGlobalShare, Link\_stats /

# <sup>23</sup> <sup>11</sup> Relevant terms include: (which is a critical term in multiple contexts).

<sup>24</sup> <sup>12</sup> Relevant terms include:

25 <sup>13</sup> Relevant terms include: Insights. Insights Dashboard.

. Graph API,

<sup>14</sup> Dkt. 192, at 4 ("Plaintiffs then specifically describe the three ways in which the message data is allegedly redirected and used. The first is to 'fuel its algorithms for measuring user engagement and making recommendations.' This alleged use is related to the 'EntShare' and the 'EntGlobalShare' described above...').

entire class period (albeit with improperly restrictive proximity searches). 1

2	Logging of Data Created From Private Message Content: Once it scanned its users'		
3	Private Message content, Facebook logged that data in several places on its system for additional,		
4	subsequent use. This is directly relevant to Plaintiffs' allegations regarding how Facebook		
5	utilized message content. <sup>15</sup> These logging tables include or relate to		
6	the table, and the log. The table has fueled, <i>inter</i>		
7	alia, APIs that are made "publicly [available] in order to allow for the development of products		
8	and features that incorporate engagement statistics—products that take into account what people		
9	are interacting with now." <sup>17</sup> Similarly, the log log		
10	stored data related to Private Message content <sup>18</sup> that has been used by Facebook in at least several		
11	instances unrelated to message transmission, including fueling recommendations, <sup>19</sup> displaying		
12	users' actions in an "Activity Feed," <sup>20</sup> and fueling queries to a product called the		
13	<sup>21</sup> Each of the above-described components of Facebook's system are, by Facebook's own		
14	admission, areas where data created from Private Message content are logged for further use.		
15	Use of Private Message Content for Recommendations: Facebook used information		
16	acquired from intercepted message content to make recommendations to its users. Plaintiffs'		
17	expert, Dr. Jennifer Golbeck, identified (1) (2)		
18	and (3) as portions of the Facebook platform that took		
19	data from Private Messages, inter alia, to assess the popularity of the URLs contained therein,		
20	identify trends among users, and push content across the social network. <sup>22</sup>		
21	Analytics of Private Message Content: Facebook exposed Private Message content—		
22	including the URLs privately shared by users—in both internal and external analytics, thus		
23	15		
24	<sup>15</sup> See SAC ¶¶ 3, 28, 39, 45-55. <sup>16</sup> See FB000008505.		
25	<sup>17</sup> Dkt. 149-2 (Jan. 15 Decl. of Alex Himel), at ¶ 66.		
26	<ul> <li><sup>18</sup> See FB000003093, FB000003096.</li> <li><sup>19</sup> Dkt. 184-3 (Fechete Decl.), ¶¶ 13-14, 18, 26; Dkt. 199-2 (Golbeck Report), ¶¶ 44-54.</li> </ul>		
27	<sup>20</sup> FB000002843. <sup>21</sup> FB000007859.		
28	<sup>22</sup> See Dkt. 199-2 (Golbeck Report), ¶¶ 56-64.		
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1	enabling Facebook and third parties to view demographic data about the subjects and senders of
2	the Private Messages. However, Plaintiffs received only a handful of documents referencing
3	these areas of Facebook's platform: and "Graph
4	API"; <sup>23</sup> and
5	24
6	: Facebook experimented with ad
7	targeting based on Private Message content,
8	<sup>25</sup> The document also states that Facebook
9	Similarly,
10	Facebook had an
11	and discussed a and
12	to increase Likes among users. <sup>26</sup> Plaintiffs have received no further documents related to these
13	practices, which directly relate to Plaintiffs' allegations regarding Facebook's improper
14	interception and use of Private Message content. <sup>27</sup>
15	1. <u>Facebook's Proposed Proximity Searches Are Unduly Restrictive and</u>
16	<u>Inappropriate</u>
17	The proximity searches and time limitations Facebook insists on using are inappropriate
18	and appear specifically designed to avoid locating relevant documents going to the core of
19	Plaintiffs' claims. This is particularly so in light of the fact that the search and proximity terms
20	that Plaintiffs proposed are highly technical terms related to the implementation of Facebook's
21	source code devices for intercepting and using URLs sent in Private Messages, and are thus
22	tailored to provide proportional discovery pursuant to Rule 26(b)(1) related to Plaintiffs' claims.
23	As Plaintiffs have explained to Facebook during the meet-and-confer process, Facebook
24	produced numerous relevant documents containing Plaintiffs' proposed terms that do not contain
25	23 55 000000000
26	<ul> <li><sup>23</sup> FB000008505.</li> <li><sup>24</sup> FB000002462.</li> </ul>
27	<sup>25</sup> Ex. 12 (FB000008271), at FB000008273.
28	<ul> <li><sup>26</sup> FB000014365.</li> <li><sup>27</sup> SAC, ¶¶ 3, 28, 39 (alleging Facebook uses Private Message content for targeted advertising).</li> </ul>
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1	the term "message," and it is not appropriate to limit the searches to only documents that contain
2	variants on that term. All of Facebook's proposed search terms are cabined to proximity
3	searches of within 50 words of (message* or messenger or or inbox*) AND within 50
4	words of (EntShare* or EntGlobalShare* or or or or or on the some cases), and in some cases
5	adding additional terms. There is no reasonable basis for such a restriction, and in fact this
6	restriction appears designed to avoid the production of otherwise relevant documents. This is
7	demonstrated by the fact that many relevant documents already produced do not contain
8	"message," "messenger," or anywhere, much less within 50 words of any other relevant
9	term. <sup>28</sup> Additionally, the unduly restrictive nature of such a limitation is made apparent by
10	several highly relevant documents, in which the only use of the term "message" is in the context
11	of the "begin forwarded message" formatting from the custodian's email client; but for the fact
12	that the email had been forwarded, such documents would not be produced under Facebook's
13	proposed search schema. <sup>29</sup> While the parties appear to have large areas of agreement regarding
14	the terms to be used for proximity searches, <sup>30</sup> Facebook's insistence on limiting its searches to
15	only those within 50 words of (message* or messenger or or inbox*) is demonstrably
16	
17	<sup>28</sup> See. e.g., FB000007859 (discussing); FB000004051 (discussing, inter alia, EntShare, EntGlobalShare, and ):
18	FB000001052 (discussing storing likes and shares); FB000000659 (discussing objects,
19	like counts. Insights., and );FB000001206 (discussing, and Graph API); and
20	FB000008821 (providing an overview of Facebook's targeted advertising). <sup>29</sup> See, e.g., FB000008505 (discussing Insights, <b>1999</b> , Graph API, <b>1999</b> , how
21	logging and displaying data related to likes and shares, and database tables tracking likes and shares); FB000002655 (discussing Open Graph API and
22	). <sup>30</sup> Two notable areas of disagreement are the terms and "bootcamp," which Plaintiffs
23	propose to include but Facebook does not agree to. As explained in Plaintiffs' concurrently-filed motion to compel configuration tables, the database from which Facebook's
24	"Insights" product, which shared metrics about Private Message content with third parties, drew data. "Bootcamp" appears to be Facebook's internal training program and was the process
25	through which Facebook introduced its systems to new employees, and therefore documents containing relevant terms and the term "bootcamp" will likely provide explanatory context for
26	those terms. See. e.g. FB000003118 (April 25, 2012 internal email stating
27	FB000002130
28	).
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inappropriate. Given that the parties have agreed in many respects on the scope of terms and
 proximity searches, Plaintiffs' proposals do not add significant burden or expense to the searches
 Facebook has already proposed, pursuant to Fed. R Civ. P. 26(b)(1).

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#### The Searches Should Be Conducted For the Entire Class Period

With one exception, Facebook seeks to cabin its proposed searches to short subsets of the
class period on the grounds that the identified practices have ceased. Even if true (which
Plaintiffs dispute), this claim provides no basis to limit searches for documents relevant to the
challenged practices for less than the entire class period.

9 The searches should be performed for documents and ESI dated from the previously 10 agreed-upon start of the document production period of April 2010, up through May 18, 2016, the end of the class period.<sup>31</sup> Facebook's assertions that certain practices may have "ceased" as of 11 certain dates provides no basis to limit the time period for searches. *First*, as this Court is aware, 12 13 subsequent discovery has demonstrated that, at least in one instance, Facebook's assertions 14 regarding when certain practices ceased were incorrect, and Plaintiffs require documents regarding these practices from the full class period to test the accuracy of Facebook's assertions.<sup>32</sup> 15 16 Second, documents related to the specific practices identified by Plaintiffs' search terms are 17 relevant not only to determine whether and when the practices may have ceased, but also to 18 provide full disclosure of Facebook's implementation of those practices and subsequent use of the 19 contents of communications intercepted by those practices. *Third*, as discussed in detail in 20 Plaintiffs' concurrently-filed motions to compel source code and configuration tables for the full 21 class period, Facebook's assertion that it has ceased sharing Private Message content with third 22 parties is demonstrably false: recent *post-amendment* admissions by Facebook demonstrate that it 23 continues to intercept URLs in Private Messages and allows third-parties free access to those URLs—all without any disclosure to users of this Practice.<sup>33</sup> 24

 $<sup>^{25}</sup>$   $^{31}$  Ex. 2 (Email correspondence between counsel for the parties).

 <sup>&</sup>lt;sup>32</sup> See Dkt. 185 (Facebook's Errata) and Dkt. 187 (Plaintiffs' Objections thereto), (discussing Facebook's false assertion that the section of a containing URLs intercepted from Private Messages and used to provide targeted recommendations was deleted prior to the class period).

<sup>28 &</sup>lt;sup>33</sup> See Ex. 6 (Why you shouldn't share links on Facebook, Quartz (June 8, 2016)).

# The Searches Should Be Conducted on the Full Range of Appropriate Custodians 3.

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2	
3	Additionally, Facebook has still provided no firm commitment regarding the custodians it
4	is willing to search. Facebook has stated it is "willing to consider" producing documents from
5	"some" of the non-individual custodial sources, such as its document repositories and
6	Given that Facebook has already produced numerous documents from each of these custodians
7	that contain the search terms proposed in Appendix, there should be no ambiguity regarding
8	Facebook's responsibility to search those custodians. Facebook has resisted searching documents
9	from the non-individual custodial sources on the grounds that "those sources do not have search
10	capabilities that will allow for the types of searches we are considering for emails, and they also
11	are not amenable to efficient collection processes." <sup>34</sup> However, this is not consistent with
12	Facebook's own employees' testimony about its document systems;
13	
14	
15	<sup>35</sup> Facebook has
16	already produced numerous relevant documents from internal system sources and presents no
17	reason why it cannot perform further searches on those sources given the narrow and proportional
18	scope of the requested discovery. <sup>36</sup>
19	III. <u>CONCLUSION</u>
20	For the foregoing reasons, Plaintiffs respectfully request that the Court order Facebook to
21	produced documents identified through searches consistent with Plaintiffs' proposed search terms
22	and custodians reflected in Appendix A.
23	
24	<sup>34</sup> Ex. 2 (June 28, 2016 email from Facebook's counsel).
25	<sup>35</sup> Ex. 5 (Himel Dep.), at 255-14-256:12
26	Additionally, Plaintiffs request all documents containing the term "EntShare" from any Facebook wiki sites or other portions of Facebook devoted to or containing reference material on
27	Facebook with sites of other bortions of Facebook devoted to of containing reference material of Facebook's operation ( <i>e.g.</i> , ), including those located on web pages with URLs beginning with the following designations:
28	
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1	APPENDIX A			
2 3	Term	Facebook's Proposal to Include	Plaintiffs' Counter- Proposal of Additional Limiting Terms	Facebook's Counter- Proposal
4 5	Graph API	Yes, limited by "w/50 (URL w/50 (message* or messenger* or	Limited by "w/50 message* or messenger* or set or inbox* or EntShare* or	Limited by "w/50 (message* or messenger or was * or inbox*) AND w/50
6		*))" and ending December 31,	EntGlobalShare* or * or * or	(EntShare* or EntGlobalShare* or * or
7 8		2012	bootcamp*"	* <del>or</del> <del>bootcamp *</del> )" and ending December 31, 2012
9 10	or	Yes, limited by "w/50 (URL w/50 (message*	Limited by "w/50 message* or messenger* or message* or inbox* or	Limited by "w/50 (message* or messenger or * or
11		or messenger* or *))" and ending	EntShare* or EntGlobalShare* or * or	inbox*) AND w/50 (EntShare* or EntGlobalShare* or
12		December 31, 2012	* or bootcamp*"	* or * <del>or</del>
13 14				bootcamp *)" and ending December 31, 2012
15		Yes, limited by "w/50 (URL w/50 (message*	Limited by "w/50 message* or messenger* or set or inbox* or	Limited by "w/50 (message* or messenger or * or
16 17		or messenger* or *))"	EntShare* or EntGlobalShare* or	inbox*) AND w/50 (EntShare* or
18			* or * or like* or share* or bootcamp*"	EntGlobalShare* or * or * or
19		<b>X</b> 7 1' '4 11		((like* or share*) w/2 URL) <del>or bootcamp *</del> )"
20 21		Yes, limited by "w/50 (URL w/50 (message*	Limited by "w/50 message* or messenger* or and * or inbox* or	Limited by "w/50 (message* or messenger or * or
21 22		or messenger* or *))" and ending	EntShare* or EntGlobalShare* or * or	inbox*) AND w/50 (EntShare* or EntGlobalShare* or
23		December 31, 2012	* or Insights* or * or	* or * or
24			* or bootcamp*"	Insights* <del>or</del> * or
25 26				bootcamp *)" and ending December 31, 2012
27		Yes, limited by "w/50 (URL	Limited by "w/50 message* or messenger*	Limited by "w/50 (message* or
28		w/50 (message* or messenger* or	or entShare* or	messenger or * or inbox*) AND w/50

1 2		Term	Facebook's Proposal to <u>Inclu</u> de	Plaintiffs' Counter- Proposal of Additional Limiting Terms	Facebook's Counter- Proposal
3			*))"	EntGlobalShare* or * or	(EntShare* or EntGlobalShare* or
4				* or * or	* or * or
5				* or shortage* of like* or shore* or pativity food*	* or * or
6				share* or activity feed* or bootcamp* or Gmail* or Google*"	(shortage w/5 (like* or share*)) or activity feed* or bootcamp * or
7	-		Vag limited by		Gmail* or Google*)"
8			Yes, limited by "w/50 (URL w/50 (magazate)	Limited by "w/50 message* or messenger* or so r inbox* or	Limited by "w/50 (message* or messenger or * or
9			w/50 (message* or messenger* or *))" and	or <b>Example</b> * or inbox* or EntShare* or EntGlobalShare* or	messenger or w/50 inbox*) AND w/50 (EntShare* or
10			ending December 31,	* or * or	EntGlobalShare* or * or
11			2012	* or * or API* or	* <del>or</del> * or
12				* or Counter* or Demographic* or	or API* or * or
13				analytic* or * or	Counter <sup>*</sup> or Demographic <sup>*</sup> or
14				* or * or	analytic* <del>or</del> <u>*</u> or
15				* or Domain Insights* or	* <del>or</del> * <del>or</del>
16				or <b>example</b> * or graph* or bootcamp *''	* or Domain Insights* or
17					* or * or graph*)" and
18 19					ending December 31, 2012
20			Yes, limited by "w/50 (URL	Limited by "w/50 message* or messenger*	Limited by "w/50 (message* or
20			w/50 (message* or messenger* or	or set or inbox* or EntShare* or	messenger or w/so inbox) AND w/50
21			*))" and ending	EntGlobalShare* or * or	(EntShare* or EntGlobalShare* or
23			December 31, 2012	* or bootcamp * or or	* or * <del>or</del>
24				or API* or * or Counter* or	<del>bootcamp *</del> or * or s* <del>or</del>
25				Demographic* or analytic* or	API* or * or Counter* or
26				* or * or	Demographic* or analytic* or
27				SharePro* or * or Domain	* or * <del>or</del>
28				Insights* or or sraph*"	* or * or

1 2	Term	Facebook's Proposal to Include	Plaintiffs' Counter- Proposal of Additional Limiting Terms	Facebook's Counter- Proposal
3 4				Domain Insights* or * or * or graph*)" and ending December 31, 2012
5 6		Yes, limited by "w/50 (URL w/50 (message*	Limited by "w/50 message* or messenger* or * or inbox* or	Limited by "w/50 (message* or messenger or * or
7		or messenger* or *))" and ending July 9,	EntShare* or EntGlobalShare* or * or	inbox*) AND w/50 (EntShare* or EntGlobalShare* or
8		2014, when the backup system	* or bootcamp * or	* or * <del>or</del>
9 10		was discontinued	* or * or	bootcamp * or * or or
11				*)" and ending July 9, 2014, when the backup system was
12		Yes, limited by	Limited by "w/50	discontinued Limited by "w/50
13 14		"w/50 (URL w/50 (message* or messenger* or	message* or messenger* or messenger* or inbox* or EntShare* or	(message <sup>*</sup> or messenger or w/so * or inbox*) AND w/50
15		*))" and ending July 9,	EntGlobalShare* or or	(EntShare* or EntGlobalShare* or
16		2014, when the backup system was	* or bootcamp * or * or	* or tracking_info <del>bootcamp *</del> or
17 18		discontinued	* or * or* or API*"	* or * or * <del>or</del>
19				<del>API*</del> )" and ending July 9, 2014, when the
20		Vag limited by	Limited by "w/50	backup system was discontinued Limited by "w/50
21 22		Yes, limited by "w/50 (URL w/50 (message*	Limited by "w/50 message* or messenger* or so or inbox* or	(message <sup>*</sup> or messenger or * or
22		or messenger* or *))"	EntShare* or EntGlobalShare* or * or	inbox*) AND w/50 (EntShare* or EntGlobalShare* or
24			* or <u>bootcamp * or share</u> * or	* or <del>* or</del>
25			* or * or target* or recommend*	bootcamp * or share* or * or * or
26 27			or Insights* or API*"	* or target* or recommend*
28	EntGlobalShare	Yes, limited by "w/50 (URL	Limited by "w/50 message* or messenger*	or Insights* or API*)" Limited by "w/50 (message* or

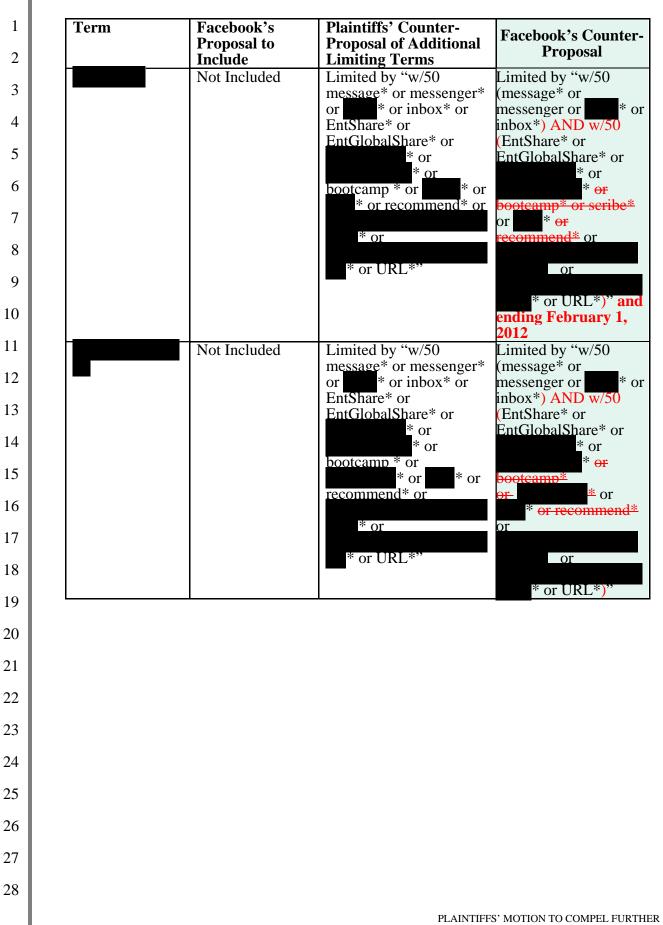
1	Term	Facebook's Proposal to	Plaintiffs' Counter- Proposal of Additional	Facebook's Counter- Proposal
2		Include	Limiting Terms       or     * or inbox* or	-
3 4		w/50 (message* or messenger* or *))"	API* or Insights* or * or	inbox*) AND w/50 ( <del>API* or </del> Insights* or
5			or Targeting* or * or graph* or	* or <u>* or Targeting</u> * or * <del>or</del>
6			or *	<del>graph</del> * or * or
7			* or	or
8			or *	* or
9			or *or URL* or * or * or	or *
10			bootcamp*"	* or * or URL* <del>or * or</del>
11			Additionally, Plaintiffs request all documents containing the term	* or bootcamp *)"
12			"EntGlobalShare" from any Facebook wiki sites	We will need to have a separate discussion
13			or other portions of Facebook's internal	about searching non- individual custodians.
14			repositories devoted to or containing reference	
15			material on Facebook's operation ( <i>e.g.</i> ,	
16			). For instance – and only for illustrative	
17 18			purposes – Plaintiffs would seek all	
18			documents including the term "EntGlobalShares"	
20			that were located on web pages with URLs beginning with the	
21			following designations:	
22				
23				
24				
25	EntShare	Yes, limited by	Limited by "w/50	Limited by "w/50
26		"w/50 (URL w/50 (message*	message* or messenger* or so r inbox* or	(message* or messenger or * or
27 28		or messenger* or *))"	API* or Insights* or * or *	inbox*) AND w/50 ( <del>API*or I</del> nsig <u>hts*</u> or
20			or Targeting* or	* or S' MOTION TO COMPEL FURTHE

1 2	Term	Facebook's Proposal to Include	Plaintiffs' Counter- Proposal of Additional Limiting Terms	Facebook's Counter- Proposal
3			graph* or *	* <del>or</del> <u>Targeting</u> * or * <del>or</del>
4			or *	<del>graph*</del> or * or
5			* or	* or
6			* or *	* or
7			or * or URL* or * or	* or *
8			bootcamp*"	* or
9			Additionally, Plaintiffs	URL* or * or * or bootcamp
			request all documents containing the term	<u>*)"</u>
10			"EntShare" from any Facebook wiki sites or	We will need to have a separate discussion
11			other portions of Facebook devoted to or	about searching non- individual custodians.
12			containing reference	individual custodians.
13			material on Facebook's <u>operation</u> ( <i>e.g.</i> ,	
14			). For instance – and only for illustrative	
15			purposes – Plaintiffs would seek all	
16			documents including the term "EntShares" that	
10			were located on web	
			pages with URLs beginning with the	
18			following designations:	
19				
20				
21				
22				
23	Insights	Yes, limited by	Limited by "w/50	Limited by "w/50
24	Dashboard	"w/50 (URL w/50 (message*	message* or messenger* or message* or inbox* or	(message <sup>*</sup> or messenger or <b>set o</b> * or
25		or messenger* or *))" and	EntShare* or EntGlobalShare* or	inbox*) AND w/50 (EntShare* or
26		ending	* or * or	EntGlobalShare* or
20 27		December 31, 2012	bootcamp * or *	* or * <del>or</del>
27			or API* or * or	bootcamp*or * or
2ð			Counter* or	<del>Or</del>

1 2	Term	Facebook's Proposal to Include	Plaintiffs' Counter- Proposal of Additional Limiting Terms	Facebook's Counter- Proposal
3			Demographic* or analytic* or	API* or Counter* or
4			* or * or * or	Demographic* or analvtic* <del>or</del> or
5			* or Domain Insights* or	* <del>OF</del>
6			or <b>bootcamp</b> * or graph* or bootcamp *"	* or Domain Insights* or
7			r	* or * or graph* or
8				bootcamp)" and ending December 31,
9		Yes, limited by	Limited by "w/50	2012 Limited by "w/50
10 11		"w/50 (URL w/50 (message*	message* or messenger* or message* or inbox* or	(message* or messenger or
11		or messenger* or *))" and	EntShare* or EntGlobalShare* or	inbox*) AND w/50 (EntShare* or
12		ending December 31,	t* or * or	EntGlobalShare* or * or
13		2012	* or * or API* or * or Counter* or	t * or * or
15			* or Counter* or Demographic* or analytic* or	API* or Counter* or
16			* or * or	Demographic* or analytic* or
17			* or * or Domain	* or * <del>or</del>
18			Insights* or or * or graph*	* <del>or</del> * <del>or</del>
19			or bootcamp *"	Domain Insights* or l
20				bootcamp *)" and ending December 31,
21	-	Yes, limited by	Limited by "w/50	2012 Limited by "w/50
22		"w/50 (URL w/50 (message*	message* or messenger* or or inbox* or	(message* or messenger or * or
23		or messenger* or *))" and	EntShare* or EntGlobalShare* or	inbox) AND w/50 (EntShare* or
24		ending December 31, 2012	t* or * <u>or</u> bo <u>otcamp</u> * or	EntGlobalShare* or * or tracking_info* <del>or</del>
25		2012	or a v or	bootcamp* or * or
26			Counter* or Demographic* or	API* or * or
27			analytic* or * or	Counter <sup>*</sup> or Demographic <sup>*</sup> or
28			* or	analytic* <del>or</del> s' motion to compel furthe

1 2	Term	Facebook's Proposal to Include	Plaintiffs' Counter- Proposal of Additional <u>Limiting Terms</u>	Facebook's Counter- Proposal
3			* or * or Domain Insights* or *	* or * or <del>* or</del>
4 5			or bootcamp *"	- <del>or</del> Domain Insights* or
6				* or * or graph* or bootcamp *)" and
7	_			ending December 31, 2012
8		Yes, limited by "w/50 (URL	Limited by "w/50 message* or messenger*	Limited by "w/50 (message* or
9		w/50 (message* or messenger* or *))" and	or <b>second</b> * or inbox* or EntShare* or EntGlobalShare* or	messenger or <b>and</b> * or inbox*) AND w/50 (EntShare* or
10		ending December 31,	* or * or	EntGlobalShare* or * or
11		2012	* or * or API* or	* or * or
12			* or Counter* or Demographic* or	<del>or</del> API* or ≛ or
13			analytic* or * or	Counter <sup>*</sup> or Demographic <sup>*</sup> or
14			* or * or	analvtic* or <u>*</u> or
15 16			* or Domain Insights* or	or * or
10			or <b>provide</b> * or graph* or bootcamp *"	<del>* or</del> Domain Insights* or <u>* or</u>
18				* or graph* or bootcamp *)" and
19				ending December 31, 2012
20		Yes, limited by "w/50 (URL	Limited by "w/50 message* or messenger*	Limited by "w/50 (message* or
21		w/50 (message* or messenger* or	or <b>EntShare</b> * or inbox* or EntShare* or	messenger or * or inbox*) AND w/50
22		*))" and ending	EntGlobalShare* or * or	(EntShare* or EntGlobalShare* or
23		December 31, 2012	* or	* or t * or
24			* or API* or * or Counter* or	* or Or
25			Demographic* or analytic* or * or	API* or Counter* or Demographic* or
26			* or	analvtic* <del>or</del> * or
27			* or Domain Insights* or *	* <del>OF</del> * <del>OF</del>
28			or * or graph*	S' MOTION TO COMPEL FURTHE

1 2	Term	Facebook's Proposal to Include	Plaintiffs' Counter- Proposal of Additional Limiting Terms	Facebook's Counter- Proposal
3 4			or bootcamp*"	Domain Insights* or * or state or * or graph* or bootcamp *)" and ending December 31,
5	Incielto	Ver l'acted her	Line 4 - 1 has 46 /50	2012
6	Insights	Yes, limited by "w/50 (URL	Limited by "w/50 message* or messenger*	Change primary term to "Domain Insights"
7		w/50 (message* or messenger* or	or <b>second</b> * or inbox* or EntShare* or	and Limited by "w/50 (message* or
8		*))" and	EntGlobalShare* or	messenger or * or
		ending December 31,	* or * or	inbox*) AND w/50 (EntShare* or
9 10		2012	bootcamp * or or *	EntGlobalShare* or * or * <del>or</del>
10			or API* or Counter* or Demographic* or	bootcamp* or * or
12			analytic* or	Of
			* or * or	API* or Counter* or
13			* or * or Do <u>main</u>	Demographic* or analvtic* <del>or</del>
14			Insights* or *	s * or * <del>or</del>
15			or sraph*"	S * or
16				* or Domain Insights* or
17				* or * or graph*)" and
18				ending December 31, 2012
19		Yes, limited by "w/50 (URL	Limited by "w/50 message* or messenger*	Limited by "w/50 (message* or
20		w/50 (message* or messenger* or	or so inbox* or EntShare* or	messenger or * or inbox*) AND w/50
21		*))" and ending July 9,	EntGlobalShare* or * or	(EntShare* or EntGlobalShare* or
22		2014, when the backup system	* or bootcamp * or	* or * <del>or</del>
23		was	recommend*or	<del>bootcamp* or</del>
23 24		discontinued	* or	recommend* or
24 25			* or *	or
23 26			or stats* or URL*"	* or *
20 27				* or URL*)" and ending July 9, 2014,
				when the backup system was
28				discontinued



1	Proposed Custodians:
2	1. Matt Jones
3	<ol> <li>Scott Renfro</li> <li>Malorie Lucich</li> </ol>
4	<ol> <li>4. Mike Vernal</li> <li>5. Mark Kinsey</li> </ol>
5	6. Austin Haugen
6	<ol> <li>Frederic Wolens</li> <li>Caryn Marooney</li> </ol>
7	9. Alex Himel
	10. Ray He 11. Dan Fechete
8	12. Facebook Temp
9	13. Facebook Email
10	14. SalesForce 15. Facebook
11	16. Help Center Internal
12	17. Facebook Internal 18. Dev Site
	19. Wiki
13	20. Mathew Varghese 21. Tasks
14	21. 1u5x5
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