# EXHIBIT 3

1	Michael W. Sobol (State Bar No. 194857)	
2	msobol@lchb.com David T. Rudolph (State Bar No. 233457)	
3	drudolph@lchb.com Melissa Gardner (State Bar No. 289096)	
4	mgardner@lchb.com LIEFF CABRASER HEIMANN & BERNST	EIN LLP
5	275 Battery Street, 29th Floor San Francisco, CA 94111-3339	
_	Telephone: 415.956.1000 Facsimile: 415.956.1008	
6		
7	Hank Bates (State Bar No. 167688) hbates@cbplaw.com	
8	Allen Carney acarney@cbplaw.com	
9	David Slade dslade@cbplaw.com	
10	CARNEY BATES & PULLIAM, PLLC 2800 Cantrell Road, Suite 510	
11	Little Rock, AR 72202 Telephone: 501.312.8500	
12	Facsimile: 501.312.8505	
13	Attorneys for Plaintiffs and the Class	
14	UNITED STAT	ES DISTRICT COURT
15	NORTHERN DIST	TRICT OF CALIFORNIA
16		
17	MATTHEW CAMPBELL and MICHAEL HURLEY, on behalf of themselves and all	Case No. C 13-05996 PJH (SK)
18	others similarly situated,	PLAINTIFFS' MOTION TO COMPEL PRODUCTION OF DOCUMENTS
19	Plaintiffs,	Date: Telephonic Hearing to be set
20	v.	by Court Time: To be Set by Court
21	FACEBOOK, INC.,	Judge: Hon. Phyllis J. Hamilton Place: Courtroom 3, 3rd Floor
22	Defendant.	race. Courtiooni 3, 3rd r 1001
23		
24		
25		
26		
27		
28		

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

#### I. INTRODUCTION

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

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. 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**, Facebook's current document production is woefully inadequate because Facebook collected documents through keyword searches that not only omitted highly-relevant terms (which Plaintiffs later identified through discovery) but also substituted critical keywords with generalized terminology that Facebook acknowledges is not used internally.<sup>2</sup> Thus, large swaths of relevant discovery were purposefully ignored. **Second**, and compounding the above error by relying on its objections as to scope (the validity of which this Court consistently has rejected, and which, in any event, are now inarguably invalid in light of the Cert. Order), Facebook trained its "predictive coding" software to categorize as irrelevant documents unrelated to "increasing the Like count" (Facebook's definition of the "challenged practice")—thus excluding relevant documents from further review and production. Third, Facebook remains unwilling to conduct searches from the files of relevant custodians.

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

25

<sup>22</sup> 

<sup>23</sup> 24

<sup>27</sup> 

<sup>28</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 Rudolph Declaration.

<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 EntGlobalShares lie at the heart of each of Plaintiffs' claims, and is further inexplicable given the fact that Facebook's seminal declarant and witness, Alex Himel, has acknowledged that "share object" and "global share object" are terms that he would not use in his professional capacity. See footnote 6, infra.

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.

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

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

### A. 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 "titan." Unbeknownst to Plaintiffs, however, these terms did not reflect the *actual* terminology employed internally by Facebook engineers with respect to the practices at

<sup>&</sup>lt;sup>3</sup> Ex. 11 (Letter dated May 13, 2015 from Facebook's counsel to Plaintiffs' counsel).

1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	

issue, and omitted many key components of Facebook's architecture that are employed in scanning, cataloging, and using Private Message content. Moreover, *after* Facebook indicated it would collect and review documents based on these search terms, it revealed that, rather than manually review the documents for relevance, it would employ computer-aided "predictive coding" to *further* narrow the documents related to these narrow search terms for subsequent manual review. Plaintiffs objected to Facebook's implementation of predictive coding, pointing out that predictive coding is designed to be used *in lieu of*—as opposed to *in addition* to—keyword searches. Facebook's process of keyword culling is discouraged and recognized by 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 were flawed from their inception, not only by improper search terms, but also by a coding and review process that improperly narrowed those documents even further.

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

<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]reculling [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 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).

### B. Facebook's Inadequate Keywords

Facebook proposed grossly inadequate search terms early on in the case, before producing documents that revealed Facebook's internal terminology. For example, in light of the Cert. Order, it is indisputable that two technical terms at the core of this litigation are "EntShare" and "EntGlobalShare" (the data structures Facebook creates from scanning URLs within messages to, *inter alia*, increment Like counters). Remarkably, in its search terms, Facebook used the term "share object" and "global share object," respectively, *in lieu* of "EntShare" and "EntGlobalShare." However, Facebook's engineers would not use the terms Facebook searched for. Alex Himel—an engineering director whom Facebook has used to verify interrogatory responses, provide multiple declarations, and to provide 30(b)(6) testimony related to message scanning and the Like button—stated that *he would not use the term "share object" in internal communications at Facebook*: "Q If a Facebook engineer were to refer to an EntShare object or EntGlobalShare object, they'd be more likely to use those terms than ... the term 'share object'; is that correct? ... THE WITNESS: I can tell you I would say 'EntShare' or 'EntGlobalShare,' and I find that engineers tend to like to be specific, but it's really difficult for me to talk on behalf of other – others."

Moreover, as described in detail in the Cert. Order, the scope of the message scanning is broader than incrementing "Like" counters. As further described below (and tracking the Cert. Order), discovery also has revealed the internal architecture (and relevant technical terms) utilized by Facebook to retain, analyze, and use Private Message data. Yet, Facebook deliberately chose not to use the core technical terms relevant to these functionalities and uses, and that failure must be remedied going forward.

## C. <u>Plaintiffs' Proposed Searches Fall Within the Constraints Imposed By the Court's Class Certification Order</u>

Against this backdrop, the parties have negotiated further search terms. As can be seen in

<sup>&</sup>lt;sup>6</sup> See Dkt. 192 (Cert. Order), at 4.

<sup>&</sup>lt;sup>7</sup> Ex. 5 (Himel Dep.), at 154:19-155:7.

<sup>&</sup>lt;sup>8</sup> Dkt. 192, at 4-6.

<sup>&</sup>lt;sup>9</sup> See also Dkt. 196 (Second Amended Complaint, "SAC"), ¶¶ 45-55.

1	Appendix A, the parties are largely in agreement as to the proper terms to be used in further
2	keyword searches. As described in detail in the Cert. Order and the SAC, the scope of the
3	message scanning is significantly broader than incrementing "Like" counters (the focus of
4	Facebook's previous document collection efforts), and includes (a) logging Private Message
5	content for future use; 10 (b) using Private Message content to push recommendations to its users 11
6	and targeting users based on Likes and other data points; <sup>12</sup> and (c) providing demographics data
7	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
10	proper custodians. Plaintiffs' search proposal has been carefully crafted as a reasonable
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
18	"EntGlobalShare" are at the center of Plaintiffs' claims. As the Court noted, Plaintiffs allege that
19	Facebook intercepts Private Message content for uses not related to message delivery through the
20	creation and manipulation of EntShare and EntGlobalShare objects. 14 Facebook appears to
21	concede the centrality of these terms, given that it has agreed to search for these terms for the
22	Relevant terms include: EntShare, EntGlobalShare, Link_stats / [link stats],
23	scribeh_share_stats.  11 Relevant terms include:  , Taste, and
24	Tracking_info (which is a critical term in multiple contexts).  12 Relevant terms include: targeting team and targeting roadmap.
25	13 Relevant terms include: Insights. Insights Dashboard. Insights (UI). Insights API. Graph API, Insights logging, and
26	Realtime Metric.
27	<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
28	and making recommendations.' This alleged use is related to the 'EntShare' and the 'EntGlobalShare' described above").

1 entire class period (albeit with improperly restrictive proximity searches). Logging of Data Created From Private Message Content: Once it scanned its users' 2 3 Private Message content, Facebook logged that data in several places on its system for additional, subsequent use. This is directly relevant to Plaintiffs' allegations regarding how Facebook 4 utilized message content.<sup>15</sup> These logging tables include or relate to "[link stats]"/"link stats,"<sup>16</sup> 5 6 "table, and the "scribeh\_share\_stats" log. The "link\_stats" table has fueled, inter 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." Similarly, the " "table and "scribeh share stats" log stored data related to Private Message content<sup>18</sup> that has been used by Facebook in at least several 10 instances unrelated to message transmission, including fueling recommendations, <sup>19</sup> displaying 11 users' actions in an "Activity Feed," <sup>20</sup> and fueling queries to a product called the "SharePro 12 API."<sup>21</sup> Each of the above-described components of Facebook's system are, by Facebook's own 13 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) "and (3) "Taste" as portions of the Facebook platform that took 18 data from Private Messages, inter alia, to assess the popularity of the URLs contained therein, 19 identify trends among users, and push content across the social network.<sup>22</sup> 20 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 <sup>15</sup> See SAC ¶¶ 3, 28, 39, 45-55. 24 <sup>16</sup> See FB000008505. <sup>17</sup> Dkt. 149-2 (Jan. 15 Decl. of Alex Himel), at ¶ 66. 25 <sup>18</sup> See FB000003093, FB000003096. 26 <sup>19</sup> Dkt. 184-3 (Fechete Decl.), ¶¶ 13-14, 18, 26; Dkt. 199-2 (Golbeck Report), ¶¶ 44-54. <sup>20</sup> FB000002843. 27 <sup>21</sup> FB000007859.

<sup>22</sup> See Dkt. 199-2 (Golbeck Report), ¶¶ 56-64.

enabling Facebook and third parties to view demographic data about the subjects and senders of the Private Messages. However, Plaintiffs received only a handful of documents referencing these areas of Facebook's platform: "Insights (UI)," "Insights API," "Link stats," and "Graph API"; "Insights logging," "

"Index[ing] Messages Data for Ad Targeting": Facebook experimented with ad targeting based on Private Message content, "similar to seeing ads due to the context of your email in gmail."<sup>25</sup> The document also states that Facebook "should take a look and see if their [sic] is sufficiently interesting data there to justify jumping deeper into a product." Similarly, Facebook had an "acknowledged problem that a shortage of likes is limiting the number of users that can be targeted by their interests," and discussed a "targeting team" and "targeting roadmap" to increase Likes among users. Plaintiffs have received no further documents related to these practices, which directly relate to Plaintiffs' allegations regarding Facebook's improper interception and use of Private Message content. <sup>27</sup>

# 1. <u>Facebook's Proposed Proximity Searches Are Unduly Restrictive and Inappropriate</u>

The proximity searches and time limitations Facebook insists on using are inappropriate and appear specifically designed to avoid locating relevant documents going to the core of Plaintiffs' claims. This is particularly so in light of the fact that the search and proximity terms that Plaintiffs proposed are highly technical terms related to the implementation of Facebook's source code devices for intercepting and using URLs sent in Private Messages, and are thus tailored to provide proportional discovery pursuant to Rule 26(b)(1) related to Plaintiffs' claims.

As Plaintiffs have explained to Facebook during the meet-and-confer process, Facebook produced numerous relevant documents containing Plaintiffs' proposed terms that do not contain

<sup>&</sup>lt;sup>23</sup> FB000008505.

<sup>&</sup>lt;sup>24</sup> FB000002462.

<sup>&</sup>lt;sup>25</sup> Ex. 12 (FB000008271), at FB000008273.

<sup>&</sup>lt;sup>26</sup> FB000014365.

<sup>&</sup>lt;sup>27</sup> SAC, ¶¶ 3, 28, 39 (alleging Facebook uses Private Message content for targeted advertising).

the term "message," and it is not appropriate to limit the searches to only documents that contain
variants on that term. All of Facebook's proposed search terms are cabined to proximity
searches of within 50 words of (message* or messenger or Titan* or inbox*) AND within 50
words of (EntShare* or EntGlobalShare* or Share_count* or tracking_info), and in some cases
adding additional terms. There is no reasonable basis for such a restriction, and in fact this
restriction appears designed to avoid the production of otherwise relevant documents. This is
demonstrated by the fact that many relevant documents already produced do not contain
"message," "messenger," or "titan" anywhere, much less within 50 words of any other relevant
term. <sup>28</sup> Additionally, the unduly restrictive nature of such a limitation is made apparent by
several highly relevant documents, in which the only use of the term "message" is in the context
of the "begin forwarded message" formatting from the custodian's email client; but for the fact
that the email had been forwarded, such documents would not be produced under Facebook's
proposed search schema. <sup>29</sup> While the parties appear to have large areas of agreement regarding
the terms to be used for proximity searches, <sup>30</sup> Facebook's insistence on limiting its searches to
only those within 50 words of (message* or messenger or Titan* or inbox*) is demonstrably
<sup>28</sup> See, e.g., FB000007859 (discussing SharePro, the SharePro API, share_count, like_count, and share_stat); FB000004051 (discussing, inter alia, EntShare, EntGlobalShare, and Taste); FB000001052 (discussing storing likes and shares "or whatever action count happened to an
object," link_stat, mapping domains to objects. "like API." like counts, Insights, real time indexing, and Taste); FB000001206 (discussing share_count, like_count, and Graph API); and FB000008821 (providing an overview of Facebook's targeted advertising).  29 See, e.g.,FB000008505 (discussing Insights, Link Stats, Graph API, SharePro, how "counts are displayed," logging and displaying data related to likes and shares, and database tables tracking likes and shares); FB000002655 (discussing Open Graph API and "how share/link objects relate to url_objects.").  30 Two notable areas of disagreement are the terms "HBase" and "bootcamp," which Plaintiffs

5

6

4

7 8

9

11

12 13

14

1516

17

18 19

2021

22

23

24

25

26

2627

28

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).

### 2. 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.

The searches should be performed for documents and ESI dated from the previously 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 certain dates provides no basis to limit the time period for searches. *First*, as this Court is aware, subsequent discovery has demonstrated that, at least in one instance, Facebook's assertions 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> Second, documents related to the specific practices identified by Plaintiffs' search terms are relevant not only to determine whether and when the practices may have ceased, but also to provide full disclosure of Facebook's implementation of those practices and subsequent use of the contents of communications intercepted by those practices. Third, as discussed in detail in Plaintiffs' concurrently-filed motions to compel source code and configuration tables for the full class period, Facebook's assertion that it has ceased sharing Private Message content with third parties is demonstrably false: recent *post-amendment* admissions by Facebook demonstrate that it 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>

<sup>&</sup>lt;sup>31</sup> Ex. 1 (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 "Hive table" containing URLs intercepted from Private Messages and used to provide targeted recommendations was deleted prior to the class period).

<sup>&</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 **3. Custodians**

2

3

4

5

6

7

1

Additionally, Facebook has still provided no firm commitment regarding the custodians it is willing to search. Facebook has stated it is "willing to consider" producing documents from "some" of the non-individual custodial sources, such as its document repositories Given that Facebook has already produced numerous documents from each of these custodians that contain the search terms proposed in Appendix, there should be no ambiguity regarding Facebook's responsibility to search those custodians. Facebook has resisted searching documents

8 9

10

11 12

13

14

15

16

17

18 19

20

21

22

### III. **CONCLUSION**

Himel stated that he would

scope of the requested discovery.<sup>36</sup>

For the foregoing reasons, Plaintiffs respectfully request that the Court order Facebook to produced documents identified through searches consistent with Plaintiffs' proposed search terms and custodians reflected in Appendix A.

from the non-individual custodial sources on the grounds that "those sources do not have search

capabilities that will allow for the types of searches we are considering for emails, and they also

are not amenable to efficient collection processes."<sup>34</sup> However, this is not consistent with

Facebook's own employees' testimony about its document systems; indeed when specifically

asked where he would look for documents related to "EntShares" and "EntGlobalShares," Mr.

already produced numerous relevant documents from internal system sources and presents no

reason why it cannot perform further searches on those sources given the narrow and proportional

23

24

25

26

27

28

<sup>34</sup> Ex. 1 (June 28, 2016 email from Facebook's counsel). <sup>35</sup> Ex. 5 (Himel Dep.), at 255-14-256:12

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 ), including those located on web pages with URLs beginning Facebook's operation (e.g., with the following designations:

35 Facebook has

1	Dated: August 2, 2016	By: <u>/s/ Michael W. Sobol</u> Michael W. Sobol
2		Michael W. Sobol
3		Michael W. Sobol (State Bar No. 194857) msobol@lchb.com
4		David T. Rudolph (State Bar No. 233457) drudolph@lchb.com
5		Melissa Gardner (State Bar No. 289096) mgardner@lchb.com
6		LIEFF CABRASER HEIMANN & BERNSTEIN, LLP 275 Battery Street, 29th Floor
7		San Francisco, CA 94111-3339 Telephone: 415.956.1000 Facsimile: 415.956.1008
8		Rachel Geman
9		rgeman@lchb.com
10		Nicholas Diamand ndiamand@lchb.com LIEFF CABRASER HEIMANN & BERNSTEIN, LLP
11		250 Hudson Street, 8th Floor New York, NY 10013-1413
12		Telephone: 212.355.9500 Facsimile: 212.355.9592
13		
14		Hank Bates (State Bar No. 167688) hbates@cbplaw.com Allen Carney
15		acarney@cbplaw.com David Slade
16		dslade@cbplaw.com CARNEY BATES & PULLIAM, PLLC
17		2800 Cantrell Road, Suite 510 Little Rock, AR 72202
18		Telephone: 501.312.8500 Facsimile: 501.312.8505
19		Attorneys for Plaintiffs and the Class
20		Miorneys for 1 tunings and the Class
21		
22		
23		
24		
25		
26		
27		
28		

### APPENDIX A

1

2	Term	Facebook's Proposal to Include	Plaintiffs' Counter- Proposal of Additional Limiting Terms	Facebook's Counter- Proposal
4	Graph API	Yes, limited by "w/50 (URL w/50 (message*	Limited by "w/50 message* or messenger* or Titan* or inbox* or	Limited by "w/50 (message* or messenger or Titan* or
5 6		or messenger* or Titan*))" <b>and</b>	EntShare* or EntGlobalShare* or	inbox*) AND w/50 (EntShare* or
7		ending December 31, 2012	Share_count* or tracking_info* or bootcamp*"	EntGlobalShare* or Share_count* or tracking_info* <del>or</del>
8				bootcamp *)" and ending December 31, 2012
9	"Link_stats" or "link stats"	Yes, limited by "w/50 (URL	Limited by "w/50 message* or messenger*	Limited by "w/50 (message* or
10		w/50 (message* or messenger* or Titan*))" <b>and</b>	or Titan* or inbox* or EntShare* or EntGlobalShare* or	messenger or Titan* or inbox*) AND w/50 (EntShare* or
12		ending December 31, 2012	Share_count* or tracking_info* or	EntGlobalShare* or Share_count* or
13		2012	bootcamp*"	tracking_info* or bootcamp *)" and ending December 31,
14 15 16 17	Targeting roadmap	Yes, limited by "w/50 (URL w/50 (message* or messenger* or Titan*))"	Limited by "w/50 message* or messenger* or Titan* or inbox* or EntShare* or EntGlobalShare* or Share_count* or tracking_info* or like*	Limited by "w/50 (message* or messenger or Titan* or inbox*) AND w/50 (EntShare* or EntGlobalShare* or Share_count* or
18 19			or share* or bootcamp*"	tracking_info* or ((like* or share*) w/2 URL) <del>or bootcamp *</del> )"
20	Realtime Metric	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 Titan*))" <b>and</b>	or Titan* or inbox* or EntShare* or EntGlobalShare* or	messenger or Titan* or inbox*) AND w/50 (EntShare* or
<ul><li>22</li><li>23</li></ul>		ending December 31,	Share_count* or tracking_info* or	EntGlobalShare* or Share_count* or
24		2012	Insights* or Hbase* or Real Time Analytics* or bootcamp*"	tracking_info* or Insights* <del>or Hbase*</del> or 'Real Time
25			1	Analytics*" <del>or</del> <del>bootcamp *</del> )" <b>and</b>
26	T	<b>X</b> 7 1' ', 11	T:	ending December 31, 2012
<ul><li>27</li><li>28</li></ul>	Targeting team	Yes, limited by "w/50 (URL w/50 (message* or messenger* or	Limited by "w/50 message* or messenger* or Titan* or inbox* or EntShare* or	Limited by "w/50 (message* or messenger or Titan* or inbox*) AND w/50

PLAINTIFFS' MOTION TO COMPEL FURTHER DOCUMENT SEARCHES CASE NO. 13-CV-05996-PJH (SK)

1	Term	Facebook's	Plaintiffs' Counter-	Facebook's Counter-
2		Proposal to Include	Proposal of Additional Limiting Terms	Proposal
3		Titan*))"	EntGlobalShare* or Share_count* or	(EntShare* or EntGlobalShare* or
			tracking info* or	Share_count* or
4			or scribeh_share_stats* or	tracking info* or or
5			shortage* of like* or	scribeh_share_stats* or
6			share* or activity feed* or bootcamp* or Gmail*	(shortage w/5 (like* or share*)) or activity
7			or Google* <sup>†</sup> "	feed* <del>or bootcamp * or</del> <del>Gmail* or Google</del> *)"
8		Yes, limited by "w/50 (URL	Limited by "w/50 message* or messenger*	Limited by "w/50 (message* or
		w/50 (message*	or Titan* or inbox* or	messenger or Titan* or
9		or messenger* or Titan*))" <b>and</b>	EntShare* or EntGlobalShare* or	inbox*) AND w/50 (EntShare* or
10		ending	Share_count* or	EntGlobalShare* or
11		December 31, 2012	tracking_info* or Realtime* or Real Time	Share_count* or tracking_info* or
12			Analytics* or API* or Hbase* or Counter* or	Realtime* or Real Time Analytics* or
			Demographic* or	API* or Hbase* or
13			analytic* or sharescapper* or	Counter* or Demographic* or
14			sharescraper* or	analytic* <del>or</del>
15			SharePro* or Interaction Data* or Domain	<del>sharescapper*</del> or sharescraper* <del>or</del>
16			Insights* or link_stats*	<del>SharePro* or</del>
			or link stats* or graph* or bootcamp *"	Interaction Data* or Domain Insights* or
17			-	link_stats* or link stats* or graph*)" and
18				ending December 31,
19	_	Yes, limited by	Limited by "w/50	<b>2012</b> Limited by "w/50
20		"w/50 (URL	message* or messenger*	(message* or
		w/50 (message* or messenger* or	or Titan* or inbox* or EntShare* or	messenger or Titan* or inbox) AND w/50
21		Titan*))" and	EntGlobalShare* or Share_count* or	(EntShare* or EntGlobalShare* or
22		ending December 31,	tracking_info* or	Share_count* or
23		2012	bootcamp * or Realtime* or Real Time Analytics*	tracking_info* <del>or</del> <del>bootcamp *</del> or
24			or API* or Hbase* or	Realtime* or Real
			Counter* or Demographic* or	Time Analytics* <del>or</del> <del>API* or Hbase*</del> or
25			analytic* or	Counter* or
26			sharescapper* or sharescraper* or	Demographic* or analytic* <del>or</del>
27			SharePro* or Interaction Data* or Domain	<del>sharescapper*</del> or sharescraper* <del>or</del>
28			Insights* or link_stats*	SharePro* or
۷٥			or link stats* or graph*"	Interaction Data* or

1 2	Term	Facebook's Proposal to Include	Plaintiffs' Counter- Proposal of Additional Limiting Terms	Facebook's Counter- Proposal
3 4			, g	Domain Insights* or link_stats* or link stats* or graph*)" and ending December 31, 2012
5		Yes, limited by "w/50 (URL	Limited by "w/50 message* or messenger*	Limited by "w/50 (message* or
6		w/50 (message* or messenger* or	or Titan* or inbox* or EntShare* or	messenger or Titan* or inbox*) AND w/50
7		Titan*))" and	EntGlobalShare* or	(EntShare* or
8		ending July 9, 2014, when the	Share_count* or tracking_info* or	EntGlobalShare* or Share_count* or
9		backup system was	bootcamp * or * or	tracking_info* <del>or</del> <del>bootcamp *</del> or
10		discontinued	scribeh_share_stats* or taste*"	or scribeh_share_stats* or
11				taste*)" and ending July 9, 2014, when the
12				backup system was discontinued
13		Yes, limited by	Limited by "w/50	Limited by "w/50
		"w/50 (URL w/50 (message*	message* or messenger* or Titan* or inbox* or	(message* or messenger or Titan* or
14		or messenger* or Titan*))" <b>and</b>	EntShare* or EntGlobalShare* or	inbox*) AND w/50 (EntShare* or
15		ending July 9, 2014, when the	Share_count* or tracking_info* or	EntGlobalShare* or Share_count* or
16		backup system was	bootcamp * or * or	tracking_info* <del>or</del> bootcamp * or
17		discontinued	scribeh_share_stats* or	* or
18			taste* or node* or API*"	scribeh_share_stats* or taste* or node* or
19				API*)" and ending July 9, 2014, when the
20				backup system was discontinued
21	Tracking_info	Yes, limited by "w/50 (URL	Limited by "w/50 message* or messenger*	Limited by "w/50 (message* or
22		w/50 (message*	or Titan* or inbox* or EntShare* or	messenger or Titan* or inbox*) AND w/50
23		or messenger* or Titan*))"	EntGlobalShare* or	(EntShare* or
24			Share_count* or tracking_info* or	EntGlobalShare* or Share_count* or
			bootcamp * or share* or taste* or * or	tracking_info* or bootcamp * or share*
25			scribeh_share_stats* or target* or recommend*	or taste* or * or
26			or Insights* or API*"	scribeh_share_stats* or target* or recommend*
27	En4C1-1-1C1-	Vac limited by	Limited by 6/50	or Insights* or API*)"
28	EntGlobalShare	Yes, limited by "w/50 (URL	Limited by "w/50 message* or messenger*	Limited by "w/50 (message* or

1	Term	Facebook's	Plaintiffs' Counter-	Facebook's Counter-
2		Proposal to Include	Proposal of Additional Limiting Terms	Proposal
3		w/50 (message*	or Titan* or inbox* or	messenger or Titan* or
		or messenger* or Titan*))"	API* or Insights* or link_stats*	inbox*) AND w/50 ( <del>API* or</del> Insights* or
4		,,	or Targeting* or	link_stats* or link
5			Realtime Metric* or graph* or tracking_info*	stats* or Targeting* or Realtime Metric* or
6			or share count*	<del>graph</del> * or
U			or * or	tracking_info* or sha <u>re_count*</u>
7				or
8			or scribeh_share_stats*	* or
9			or SharePro*or URL* or	* or
			entity* or entities* or bootcamp*"	or scribeh_share_stats * or SharePro*or
10				URL* <del>or entity* or</del>
11			Additionally, Plaintiffs request all documents	entities* or bootcamp *)"
12			containing the term	W/o will need to have a
			"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	murviduai custodians.
15			or containing reference material on Facebook's	
			operation ( $e.g.$ ,	
16			). For instance – and only for illustrative	
17			purposes – Plaintiffs	
18			would seek all documents including the	
10			term "EntGlobalShares"	
19			that were located on web pages with URLs	
20			beginning with the	
21			following designations:	
22				
23				
24				
25				
26	EntShare	Yes, limited by	Limited by "w/50	Limited by "w/50
		"w/50 (URL w/50 (message*	message* or messenger* or Titan* or inbox* or	(message* or messenger or Titan* or
27		or messenger* or	API* or Insights* or	inbox*) AND w/50
28		Titan*))"	link_stats* or link stats* or Targeting* or	(API*or-Insights* or link_stats* or link

1	Term	Facebook's Proposal to	Plaintiffs' Counter- Proposal of Additional	Facebook's Counter-
2		Include	Limiting Terms	Proposal
3			graph* or tracking_info*	stats* <del>or</del> Targeting* or Realtime Metric* <del>or</del>
4			or share count* or	<del>graph*</del> or tracking_info* or
5			* or	sha <u>re count</u> *
			* or	or * or
6			or scribeh_share_stats* or SharePro* or URL* or	* or
7			entity* or entities* or bootcamp*"	or scribeh_share_stats * or SharePro* or
8			-	URL* or entity* or
9			Additionally, Plaintiffs request all documents	entities* or bootcamp *)"
10			containing the term "EntShare" from any	We will need to have a
11			Facebook wiki sites or	separate discussion
			Facebook devoted to or	about searching non- individual custodians.
12			containing reference material on Facebook's	
13			operation ( <i>e.g.</i> , ). For instance – and	
14			only for illustrative	
15			purposes – Plaintiffs would seek all	
16			documents including the term "EntShares" that	
17			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*	(message* or messenger or Titan* or
25		or messenger* or	EntShare* or	inbox*) AND w/50
		Titan*))" and ending	<del></del>	(EntShare* or EntGlobalShare* or
26		December 31, 2012		Share_count* or tracking_info* or
27			or Real Time Analytics*	<del>bootcamp*</del> or Realtime* or Real
28			Counter* or	Time Analytics* or

1	Term	Facebook's Proposal to	Plaintiffs' Counter- Proposal of Additional	Facebook's Counter-
2		Include	Limiting Terms	Proposal
3			Demographic* or analytic* or	<del>API* or Hbase*</del> or Counter* or
4			sharescapper* or	Demographic* or
4			sharescraper* or SharePro* or Interaction	analytic* <del>or-sharescapper*</del> or
5			Data* or Domain	sharescraper* or
6			Insights* or link_stats* or link stats* or graph*	<del>SharePro* or</del> <del>Interaction Data* or</del>
7			or bootcamp *"	Domain Insights* or link_stats* or link
8				stats* or graph* or bootcamp)" and
9				ending December 31, 2012
10	Insights (UI)	Yes, limited by "w/50 (URL	Limited by "w/50 message* or messenger*	Limited by "w/50 (message* or
11		w/50 (message* or messenger* or Titan*))" <b>and</b>	or Titan* or inbox* or EntShare* or EntGlobalShare* or	messenger or Titan* or inbox*) AND w/50 (EntShare* or
12		ending December 31,	Share_count* or tracking_info* or	EntShare* or EntGlobalShare* or Share_count* or
13		2012	Realtime* or Real Time	tracking_info* or
14			Analytics* or API* or Hbase* or Counter* or	Realtime* or Real Time Analytics* or
15			Demographic* or analytic* or	API* or Hbase* or Counter* or
16			sharescapper* or sharescraper* or	Demographic* or analytic* or
17			SharePro* or Interaction Data* or Domain	<del>sharescapper*</del> or sharescraper* <del>or</del>
18			Insights* or link_stats* or link stats* or graph*	SharePro* or Interaction Data* or
19			or bootcamp *"	Domain Insights* or link_stats* or link s
20				bootcamp *)" and ending December 31, 2012
21		Yes, limited by	Limited by "w/50	Limited by "w/50
22		"w/50 (URL w/50 (message*	message* or messenger* or Titan* or inbox* or	(message* or messenger or Titan* or
23		or messenger* or Titan*))" <b>and</b>	EntShare* or EntGlobalShare* or	inbox) AND w/50 (EntShare* or
24		ending December 31,	Share_count* or tracking_info* or	EntGlobalShare* or Share_count* or
25		2012	bootcamp * or Realtime*	tracking_info* <del>or</del>
26			or Real Time Analytics* or API* or Hbase* or	booteamp* or Realtime* or Real
27			Counter* or Demographic* or	Time Analytics* <del>or</del> API* or Hbase* or
28			analytic* or sharescapper* or	Counter* or Demographic* or
20			sharescraper* or	analytic* <del>or</del>

1		Term	Facebook's Proposal to	Plaintiffs' Counter- Proposal of Additional	Facebook's Counter-
2			Include	Limiting Terms	Proposal
3				SharePro* or Interaction Data* or Domain	<del>sharescapper*</del> or sharescraper* or
4				Insights* or link_stats* or link stats* or graph*	<del>SharePro* or</del> <del>Interaction Data* or</del>
5				or bootcamp *"	<del>Domain Insights* or</del> <del>link_stats* or link</del>
6					<del>stats* or graph* or</del>
7					bootcamp *)" and ending December 31, 2012
8		Insights logging	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	or Titan* or inbox* or EntShare* or	messenger or Titan* or inbox*) AND w/50
10			Titan*))" and ending	EntGlobalShare* or Share_count* or	(EntShare* or EntGlobalShare* or
11			December 31, 2012	tracking_info* or Realtime* or Real Time	Share_count* or tracking_info* or
12			2012	Analytics* or API* or	Realtime* or Real
13				Hbase* or Counter* or Demographic* or	Time Analytics* <del>or</del> API* or Hbase* or
				analytic* or sharescapper* or	Counter* or Demographic* or
14				sharescraper* or SharePro* or Interaction	analytic* or <del>sharescapper*</del> or
15				Data* or Domain Insights* or link_stats*	sharescraper* <del>or- SharePro* or</del>
16				or link stats* or graph* or bootcamp *"	Interaction Data* or Domain Insights* or
17				or bootcamp	link_stats* or link
18					stats* or graph* or bootcamp *)" and
19					ending December 31, 2012
20		Insights API	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 Titan* or inbox* or EntShare* or	messenger or Titan* or inbox*) AND w/50
22			Titan*))" and ending	EntGlobalShare* or Share count* or	(EntShare* or EntGlobalShare* or
23			December 31, 2012	tracking_info* or Realtime* or Real Time	Share_count* or tracking_info* or
24			2012	Analytics* or API* or	Realtime* or Real
25				Hbase* or Counter* or Demographic* or	Time Analytics* or API* or Hbase* or
26				analytic* or sharescapper* or	Counter* or Demographic* or
				sharescraper* or SharePro* or Interaction	analytic* <del>or</del> <del>sharescapper*</del> or
27				Data* or Domain Insights* or link_stats*	sharescraper* <del>or</del> <del>SharePro* or</del>
28	L			or link stats* or graph*	Interaction Data* or

1	Term	Facebook's Proposal to	Plaintiffs' Counter- Proposal of Additional	Facebook's Counter-
2		Include	Limiting Terms	Proposal
3			or bootcamp*"	Domain Insights* or link_stats* or link
4				stats* or graph* or
4				bootcamp *)" and ending December 31,
5				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 Titan* or inbox* or	and Limited by "w/50
7		or messenger* or Titan*))" and	EntShare* or EntGlobalShare* or	(message* or messenger or Titan* or
8		ending	Share_count* or	inbox*) AND w/50
9		December 31, 2012	tracking_info* or	(EntShare* or EntGlobalShare* or
		2012	bootcamp * or Realtime* or Real Time Analytics*	Share_count* or
10			or API* or Hbase* or Counter* or	tracking_info* or
11			Demographic* or	<del>bootcamp*</del> or Realtime* or Real
12			analytic* or	Time Analytics* <del>or</del> API* or Hbase* or
			sharescapper* or sharescraper* or	Counter* or
13			SharePro* or Interaction	Demographic* or
14			Data* or Domain Insights* or link_stats*	analytic* <del>or</del> <del>sharescapper*</del> or
15			or link stats* or graph*"	sharescraper* <del>or</del>
				SharePro* or Interaction Data* or
16				Domain Insights* or
17				link_stats* or link stats* or graph*)" and
18				ending December 31, 2012
19	Taste	Yes, limited by	Limited by "w/50	Limited by "w/50
		"w/50 (URL w/50 (message*	message* or messenger* or Titan* or inbox* or	(message* or messenger or Titan* or
20		or messenger* or	EntShare* or	inbox*) AND w/50
21		Titan*))" and ending July 9,	EntGlobalShare* or Share_count* or	(EntShare* or EntGlobalShare* or
22		2014, when the	tracking_info* or	Share_count* or
		backup system was	bootcamp * or recommend*or	tracking_info* <del>or</del> <del>bootcamp* or</del>
23		discontinued	*	<del>recommend*</del> or
24			* or	or
25			* or or scribeh_share_stats*	* or *
			or URL*"	or scribeh_share_stats
26				* or URL*)" and ending July 9, 2014,
27				when the backup
28				system was discontinued
	L	l		aisconunucu

1 2	Term	Facebook's Proposal to Include	Plaintiffs' Counter- Proposal of Additional Limiting Terms	Facebook's Counter- Proposal
3		Not Included	Limited by "w/50 message* or messenger*	Limited by "w/50 (message* or
4			or Titan* or inbox* or EntShare* or EntGlobalShare* or	messenger or Titan* or inbox*) AND w/50 (EntShare* or
5			Share_count* or tracking_info* or	EntGlobalShare* or Share count* or
6			bootcamp * or scribe* or taste* or recommend* or	tracking_info* <del>or</del> bootcamp* or scribe*
7			* or	or taste* <del>or</del> recommend* or
8			r* or URL*"	or
9			-	* or URL*)" and
10 11				ending February 1, 2012
12	scribeh_share_st ats	Not Included	Limited by "w/50 message* or messenger* or Titan* or inbox* or	Limited by "w/50 (message* or
13			EntShare* or EntGlobalShare* or	messenger or Titan* or inbox*) AND w/50 (EntShare* or
14			Share_count* or tracking_info* or	EntGlobalShare* or Share count* or
15			bootcamp * or * or taste* or	tracking_info* <del>or</del> <del>boo<u>tcamo*</u></del>
16			recommend* or	or taste* or recommend*
17			* or UDI *"	or
18			r* or URL*"	or * or URL*)"
19	L	1		of ORL )
20				

22

23

24

25

26

27

28

1	Proposed Custodians:
2	1. Matt Jones
3	<ol> <li>Scott Renfro</li> <li>Malorie Lucich</li> </ol>
4	<ul><li>4. Mike Vernal</li><li>5. Mark Kinsey</li></ul>
5	<ul><li>6. Austin Haugen</li><li>7. Frederic Wolens</li></ul>
6	8. Caryn Marooney
7	9. Alex Himel 10. Ray He
8	11. Dan Fechete 12. Facebook Temp
9	13. Facebook Email
10	<ul><li>14. SalesForce</li><li>15. Facebook</li></ul>
11	16. Help Center Internal 17. Facebook Internal
12	18. Dev Site 19. Wiki
13	20. Mathew Varghese
14	21. Tasks
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	