

# Federal Communications Commission Washington, D.C. 20554

January 8, 2015

#### Via Electronic Mail

Kathryn A. Zachem Senior Vice President Regulatory and State Legislative Affairs Comcast Corporation 300 New Jersey Ave., NW Washington, DC 20001

Re: Application of AT&T, Inc. and DIRECTV for Consent to Assign Licenses or Transfer Control of Licensees, MB Docket No. 14-90

Dear Ms. Zachem:

On June 11, 2014, AT&T Inc. ("AT&T") and DIRECTV (collectively, the "Applicants") jointly submitted applications to the Commission seeking consent to transfer control of various Commission licenses and other authorizations (collectively, the "Application") pursuant to Section 310(d) of the Communications Act of 1934, as amended ("Act").

In order for the Commission to complete its review of the Application and make the necessary public interest findings under Section 310(d) of the Communications Act, we require information and data from other entities. Accordingly, pursuant to Sections 4(i), 4(j), and 403 of the Act,<sup>2</sup> we request that Comcast Corporation ("Comcast") provide written responses, supporting documentation, and data, as applicable no later than **Friday**, **January 23**, **2015** to the information requests set forth in the Attachments. Comcast's response will be treated as confidential pursuant to the Second Amended Modified Joint Protective Order issued in MB Docket No. 14-90.<sup>3</sup> For documents, data and narrative responses produced in response to this request (electronic or otherwise), each page should be marked with a corporate identification and consecutive document control numbers as specified in the attached instructions.

Your responses should be filed with Marlene H. Dortch, Secretary, FCC, under reference number MB Docket No. 14-90. For any responses that contain confidential or proprietary information, please follow the filing instructions set forth in the Second Amended Modified Joint Protective Order. For all hand deliveries pertaining to the Second Amended Modified Joint Protective Order, please call Vanessa Lemmé (202/418-2611) to schedule receipt of hand delivery or, in her absence, Brendan Holland (202/418-2757).

<sup>&</sup>lt;sup>1</sup> See 47 U.S.C. § 310(d); Applications of AT&T Inc. and DIRECTV for Consent to Assign or Transfer Control of Licenses and Authorizations (filed June 11, 2014) ("Application").

<sup>&</sup>lt;sup>2</sup> 47 U.S.C. §§ 154(i), 154(j), and 403. See generally FCC v. Schreiber, 381 U.S. 279 (1965).

<sup>&</sup>lt;sup>3</sup> See Applications of AT&T Inc. and DIRECTV for Consent to Assign or Transfer Control of Licenses and Authorizations, Second Amended Modified Joint Protective Order, MB Docket No. 14-90, DA 14-1640 (MB, rel. Nov. 12, 2014).

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For any responses that are submitted on paper that do not contain confidential or proprietary information, please file in accordance with the instructions set forth in the August 7, 2014 Public Notice.<sup>4</sup> For any responses filed electronically, please submit them according to the instructions in the Request, and coordinate with Commission staff, or designated information technology personnel, to ensure that any responsive electronic records are submitted to the Commission in a technological format that is compatible with Commission database systems and are processed and organized in a manner that is acceptable to the Commission. For any electronic filings made using the Commission's Electronic Comment Filing System, ("ECFS"), parties should also serve the documents via e-mail to Vanessa Lemmé, Vanessa.Lemme@fcc.gov.

If you have any questions regarding this matter, please contact Jamillia Ferris, Office of General Counsel, at (202) 418-2663.

Sincerely,

William T. Lake

Chief, Media Bureau

Enclosure

<sup>&</sup>lt;sup>4</sup> See Commission Seeks Comment on Applications of AT&T Inc. and DIRECTV to Assign or Transfer Control of FCC Licenses and Other Authorizations, Public Notice, MB Docket No. 14-90, DA 14-1129 (rel. August 7, 2014) at 6-7.

# INFORMATION AND DATA REQUEST TO COMCAST CORPORATION

- 1. Identify each zip code served by the Cable System and provide for each such zip code and for the Company as a whole, separately for residential subscribers and other subscribers, and for each month for the period beginning January 1, 2012, to the present, produce in CSV or Excel format:
- a. the number of customer locations to which Cable Services are available, separately for residential customer locations and other customer locations, and the penetration rate;
- b. the number of Standalone Services and Bundled Services subscribers as of the last day of the month;
- c. the average revenue per subscriber in the specified month for Standalone Services and Bundled Services;
- d. the number of subscribers who first began subscribing to any of the Company's Standalone Services and Bundled Services in the specified month who were not subscribers to any of the Company's Cable Services in the prior month;
- e. the average revenue per new subscriber described in subpart (d) to Standalone Services and Bundled Services, and that churned from a competing provider, separately for each competing provider;
- f. the number of subscribers discontinuing all subscriptions to the Company's Cable Services;
- g. the average revenue per departing subscriber described in subpart (f) for Standalone Services and Bundled Services, and the number of subscribers that churned to a competing provider, separately for each competing provider;
- h. the number of the Company's current subscribers who first began subscribing to any of the Company's other Standalone Services or Bundled Services in the specified month;
- i. the number of subscribers discontinuing their subscription to one or more of the Company's Standalone Services or Bundled Services, but who remain a subscriber to one or more of the Company's Cable Services at the end of the specified month;
  - j. the churn rate for Standalone Services and Bundled Services;
- k. the per-subscriber acquisition cost or cost per gross addition for Standalone Services and Bundled Services and an explanation of how these values were calculated:
- l. the cost per subscriber to the Company's MVPD service of acquiring video programming distribution rights and an explanation of how these values were calculated;

- m. the cost per subscriber to the Company's MVPD service of acquiring VOD and PPV distribution rights and an explanation of how these values were calculated;
- n. the average gross and net advertising revenue per subscriber to the Company's MVPD service and an explanation of how these values were calculated;
- o. other variable costs per subscriber for Standalone Services and Bundled Services and an explanation of how these values were calculated; and
- p. the value of each additional subscriber to the Company for Standalone Services and Bundled Services and an explanation of how these values were calculated.
- 2. For each channel of video programming that the Company obtained from another person, and for each channel of video programming produced by the Company, separately for each month from January 1, 2012 to the present, state:
- a. the name of each channel of video programming the Company obtained or produced;
- b. the number of the Company's subscribers whose MVPD programming packages include each such channel; and
- c. the total and per subscriber fee paid by the Company for each such channel;
- 3. Provide the Company's data as specified in the "Plan Data" table of Attachment A, which seeks data relating to subscriber and plan data.

#### **Definitions**

The following definitions apply only to this Information and Data Request. They are not intended to set or modify precedent outside the context of this document. In this Information and Data Request, the following terms shall have the following meanings (such meanings to be equally applicable to both the singular and plural forms of the terms defined):

- 1. The term "Company" means Comcast Corporation and its Subsidiaries.
- 2. The terms "and" and "or" have both conjunctive and disjunctive meanings.
- 3. The word "any" shall be construed to include the word "all," and the word "all" shall be construed to include the word "each" shall be construed to include the word "every," and the word "every" shall be construed to include the word "each." All words used in the singular should be construed to include the plural, and all words used in the plural should be construed to include the singular.
- 4. The term "Broadcast Programming Network" means without limitation network Video Programming delivered simultaneously to two or more Broadcast Television Stations.

- 5. The term "Bundled Services" means, and information shall be provided separately for, (a) MVPD service, Internet Access Service and Telephone Services; (b) MVPD Service and Internet Access Service; (c) MVPD Service and Telephone Services; and (d) Internet Access Service and Telephone Services, each sold as a package of services for a single price.
- 6. The term "Cable Services" means, and information shall be provided separately for (a) MVPD Service, (b) Internet Access Service and (c) Telephone Services, either purchased as a standalone service or as part of a bundle.
- 7. The term "Cable System" means a facility consisting of a set of closed transmission paths and associated signal generation, reception, and control equipment that is designed to provide cable service which includes Video Programming and which is provided to multiple subscribers within a community, as defined in Section 76.5 of the Commission's rules.
- 8. The term "Capacity" means capacity for efficient production of service, stated in the measure customarily used in the particular industry involved. When stating capacity, state each assumption used to calculate capacity, including the customary period over which capacity is measured, and the customary unit of time in which the service is provided. If you know of no customary measure for a service, state the maximum amount of the service that could be provided efficiently over a one month period given existing facilities, equipment and personnel.
  - 9. The term "Comcast" means Comcast Corporation and its Subsidiaries.
- 10. The term "documents" means all computer files and written, recorded, and graphic materials of every kind in the possession, custody, or control of the Company. The term "documents" includes without limitation, drafts of documents, copies of documents that are not identical duplicates of the originals, and copies of documents the originals of which are not in the possession, custody, or control of the Company. In addition, the term "documents" includes without limitation any amendments, side letters, appendices, or attachments. The term "computer files" includes without limitation information stored in, or accessible through, computer or other information retrieval systems. Thus, the Company should produce documents that exist in machine-readable form, including documents stored in personal computers, portable computers, workstations, minicomputers, mainframes, servers, backup disks and tapes and archive disks and tapes, and other forms of offline storage, whether on or off the Company's premises. Electronic mail messages should also be provided, even if only available on backup or archive tapes or disks. Computer files shall be printed and produced in hard copy or produced in machinereadable form (provided that Commission staff determine prior to submission that it would be in a format that allows the Commission to use the computer files), together with instruction and all other materials necessary to use or interpret the data. Unless otherwise specified, the term "documents" excludes bills of lading, invoices, purchase orders, customs declarations, and other similar documents of a purely transactional nature and also excludes architectural plans and engineering blueprints. Where more than one identical copy of a requested document exists, the Company shall only produce one representative copy.
- 11. The term "identify," when used with reference to a Person or Persons, means to state his/her full legal name, current or last known business address, current or last known telephone number, current or last known organization, and position therewith. "Identify," when used with reference to a document, means to state the date, author, addressee, type of document

(e.g., the types of document, as described above), a brief description of the subject matter, its present or last known location, and its custodian, who must also be identified. "Identify," when used with reference to an entity other than a Person, means to state its name, current or last known business address, and current or last known business telephone number. The term "identify" when used with reference to a census block means to geocode the census block using the 2010 Census Block Identifier.

- 12. The term "Internet Access Service" means the provision to end users of connectivity to the Internet by any means, including, for instance, hybrid-coaxial, optical fiber or coaxial cable, xDSL, satellite systems, fixed or mobile wireless services, ultra-high frequency microwave (sometimes referred to as "LMDS"), or multichannel multipoint distribution services ("MMDS").
- 13. The term "Multichannel Video Programming Distributor" or "MVPD" means an entity, including but not limited to, a cable operator, which is engaged in the business of making available for purchase, by subscribers or customers, multiple channels of Video Programming.
- 14. The term "MVPD Service" means the distribution of Video Programming or Online Video Programming by an MVPD to consumers, including but not limited to, distribution as part of a programming package or tier or on an individual basis, and distribution as part of TV Everywhere or Specialized Services, regardless of whether such programming is distributed inside or outside of the MVPD's footprint.
- 15. The term "Non-Broadcast Programming Network" means without limitation network Video Programming delivered directly to MVPDs, whether delivered in standard or high definition. The term "Online Video Distributor" or "OVD" means any entity that provides Video Programming by means of the Internet or other IP-based transmission path provided by a person other than the OVD. Unless otherwise stated, an OVD does not include an MVPD inside its MVPD footprint or an MVPD to the extent it is offering Online Video Programming as a component of an MVPD subscription to customers whose homes are inside its MVPD footprint.
- 16. The term "Online Video Programming" means Video Programming that is intended for distribution by means of the Internet or other IP-based transmission path.
- 17. The term "Person" includes the Company, and means any individual, partnership, corporation (including a business trust), joint stock company, trust, unincorporated association, joint venture, limited liability company or other entity, or a government or any political subdivision or agency thereof.
- 18. The term "plans" means tentative and preliminary proposals, recommendations, or considerations, whether or not finalized or authorized, as well as those that have been adopted.
- 19. The term "Specialized Services" means services that share capacity with Internet Access Service over providers' last-mile facilities.
- 20. The term "Standalone Services" means, and information shall be provided separately for: (a) MVPD Service; (b) Internet Access Service; and (c) Telephone Services, each sold as a separate service for a single price.

- 21. The term "Subsidiary" as to any Person means any corporation, partnership, joint venture, limited liability company, or other entity of which shares of stock or other ownership interests having ordinary voting power to elect a majority of the board of directors or other managers of such corporation, partnership, joint venture, limited liability company or other entity are at the time owned, or the management of which is otherwise controlled, directly or indirectly, through one or more intermediaries, or both, by such Person.
- 22. The term "Telephone Services" means any service offering that provides a customer the ability to make a voice telephone call, including Voice over Internet Protocol ("VoIP") services or similar services, regardless of the physical facilities (e.g., copper wire, coaxial cable, fiber, fixed wireless) over which the call is transmitted, but excluding CMRS as that term is defined in section 20.3 of the Commission's rules.
- 23. The term "TV Everywhere" means the MVPD initiative, which allows consumers of certain services to access Video Programming on a variety of fixed and mobile Internet-connected devices.
- 24. The term "Video-on-Demand" or "VOD" means a service which allows subscribers to MVPD Service to view individual programs at the time of their choosing including, but not limited to, motion pictures, professional video, Broadcast Programming Networks, or Non-Broadcast Programming Networks. VOD includes without limitation both free programs and programs for which there is a charge.
- 25. The term "Video Programming" means programming provided by, or generally considered comparable to programming provided by, a television broadcast station or cable network, regardless of the medium or method used for distribution, and includes but is not limited to: programming prescheduled by the programming provider (also known as scheduled programming or a linear feed); programming offered to viewers on an on-demand, point-to-point basis (also known as VOD or PPV); short programming segments (also known as clips); programming that includes multiple video sources (also known as feeds, including camera angles); programming that includes video in different qualities or formats (including high-definition, 3D and 4K); and films.

#### Instructions

- 1. Submit responses to Information Requests in both paper and electronic form, unless an electronic form is specified (e.g., electronic spreadsheet). Submit responsive documents (including materials containing Highly Confidential or Confidential Information) in electronic form only, unless otherwise specified, as set forth in the Instructions for Submission of Electronic Documents. The Commission does not require the submission of paper copies of these documents at this time, but reserves the right to require their submission at a later time.
- 2. Each responsive document shall be submitted in its entirety, even if only a portion of that document is responsive to a request made herein. This means that the document shall not be edited, cut, or expunged, and shall include all appendices, tables, or other attachments, and all other documents referred to in the document or attachments. All written materials necessary to understand any document responsive to these Requests shall also be submitted.
- 3. Documents written in a language other than English must be translated into English; automated or machine translations are not permitted. Submit the foreign language document with the English translation attached.
- 4. Data provided in response to this Request should include a list of all parameters/assumptions on which the data are based.
- 5. Unless otherwise agreed to by the Commission, requests for the production of documents (and any particular type of document) require the production of all responsive documents in the possession, custody, or control of the Company.
- 6. For each statement submitted in response to the Requests, indicate, by number and subsection, the Request to which it is responsive.
- 7. For each document submitted in response to the Requests, identify the Person(s) from whose files the document was retrieved (i.e., the custodian). If any document is not dated, if known, state the date on which it was prepared. If any document does not identify its author(s) or recipient(s), provide, if known, the name(s) of the author(s) or recipient(s) as metadata in accordance with Instructions for Submission of Electronic Documents. The Company must identify with reasonable specificity all documents provided in response to these Requests. Where more than one identical copy of a requested document exists, the Company may submit only one representative copy, but in all cases all metadata, including without limitation all custodians who possessed identical documents withheld, must be provided in accordance with the provisions of Instructions for Submission of Electronic Documents.
- 8. Describe the search methodologies and the applications used to execute the search conducted in response to this Information Request, including, if search terms were used to conduct all or any part of the search, a list of terms used.
  - 9. Provide a glossary of industry and company terminology.

- 10. The specific Requests made herein are continuing in nature. The Company is required to produce in the future any and all documents and information that are responsive to the Requests made herein but not initially produced at the time, date, and place specified herein. In this regard, the Company must supplement its responses (a) if the Company learns that, in some material respect, the documents and information initially disclosed were incomplete or incorrect or (b) if additional responsive documents or information are acquired by or become known to the Company after the initial production.
- 11. Any documents that are withheld in whole or in part from production based on a claim of privilege shall be assigned document control numbers (with unique consecutive numbers for each page of each document). For any page of any Document that the Company has designated to be withheld as entirely privileged, the Company shall submit a substitute, placeholder page that lists only the Document ID of the page that was withheld in entirety as privileged and a statement indicating that the page has been withheld in entirety as privileged. For any document withheld as entirely privileged, it is sufficient to supply one substitute, placeholder page for that document, so long as the range of Document IDs for the entire document is listed on the placeholder page and each Document ID for each page of the document is reflected in metadata. The placeholder pages must be imaged as any other paper record, as described above. For each document withheld as privileged, whether in entirety or in part, the Company shall code the substitute document submitted as specified in and provide as metadata the information in the attached MetaData Table of Requested Fields.
  - 12. For each Document identified on the Company privilege log:
    - a. Provide the document control number(s);
    - b. Identify all authors of the document;
    - c. Identify all addressees of the document;
- d. Identify all recipients of the document or of any copies of the document, to the extent not included among the document's addressees;
  - e. Provide the date of the document;
  - f. Provide a description of the subject matter of the document;
- g. State the nature or type of the privilege that the Company is asserting for the document (e.g., "attorney-client privilege");
- h. Provide the number(s) of the Request to which the document is responsive;
- i. Provide the document control number(s) of any attachments to the document, regardless of whether any privilege is being asserted for such attachment(s); and
- j. State whether the document has been produced in redacted form, and include the range of Document ID labels for those produced documents.

- 13. The Company's privilege log shall also conform with all of the following requirements:
- a. Provide a separate legend identifying each author, addressee, and recipient identified on the Company's privilege log.
- b. Identify on the privilege log, and denote with an asterisk, all attorneys acting in a legal capacity with respect to the withheld document or communication.
- c. The description of the subject matter of each document shall describe the nature of the document in a manner that, though not revealing information that is itself privileged, provides sufficiently detailed information to enable the Commission to assess the applicability of the privilege claimed.
- d. For each document withheld under a claim that it constitutes or contains attorney work product, also state whether the Company asserts that the document was prepared in anticipation of litigation or for trial and, if so, specify the anticipated litigation or trial upon which the assertion is based.
- e. Produce all nonprivileged portions of any responsive document (including nonprivileged or redactable attachments) for which a claim of privilege is asserted, except where the only nonprivileged information in the document has already been produced. Note where any redactions in the document have been made.
- f. The privilege log shall be produced in both hardcopy and electronic form, the electronic form of which shall be both searchable and sortable.
- g. Documents sent solely between counsel, including in-house counsel acting solely in a legal capacity, and documents authored by the Company's outside counsel that were not directly or indirectly furnished to any third party, such as internal law firm memoranda, may be omitted from the privilege log. However, any attachments to such documents must be included on the privilege log (if a privilege is applicable to such materials), unless such attachments are addressed and sent solely to counsel.

# Instruction for Electronic Production of Documents and Electronically Stored Information

#### Introduction

This document contains the standard specifications and procedures for submitting to the Federal Communications Commission electronic versions of documents in response to an Information Request.

- In many cases, it is useful for the party producing the documents, its vendor and the FCC staff to review the technical details of the production prior to submitting the response.
- Take care to ensure that all responsive data and metadata are preserved in the collection process.
- Submit two copies of the response: file one copy in the docket with the Secretary's Office and provide one copy to FCC staff or the FCC's contractor, as directed, for loading and review.

# 1. Categories of Documents

There are seven major categories of relevant documents: (1) email and other electronic messages (e.g., instant messaging, text messages), (2) other electronic documents, (3) hard copy documents, (4) shared resources, (5) databases, (6) audio and video data, and (7) foreign-language materials. Typically, responsive documents will come from the first four categories, although databases will be used to respond to Data Requests. The general requirements for each category of document are outlined below. The attached Metadata Table of Requested Fields provides information regarding document-specific metadata and bibliographic information (identifying information).

# A. Email, Attachments, and Other Electronic Messages

Email and other electronic messages (*e.g.*, instant messages (IMs), text messages) should be produced as image files with related searchable text, metadata and bibliographic information. Depending on how the Company's systems represent names in email messages, IMs or text messages, we may require a table of names or contact lists from custodians.

Each IM or text conversation should be produced as one document.

Email repositories, also known as email databases (e.g., Outlook .PST, Lotus .NSF), can contain a variety of items, including messages, calendars, contacts, tasks, etc. For purposes of production, responsive items should include the "Email", "Other ESI", or "Calendar Items" metadata/database fields outlined in the Metadata Table, including but not limited to all parent items (mail, calendar, contacts, tasks, notes, etc.) and child files (attachments of files to email or other items), with the parent/child relationship preserved. Similar items found and collected outside an email repository (e.g., .MSG, .EML, .HTM, .MHT) should be produced in the same manner.

Graphic objects embedded in emails such as logos, letterheads, or backgrounds should remain as part of the email and not be extracted as separate attached documents.

Pay special attention to the PARENTID, ATTACHMENTIDS, and FAMILYRANGE fields, which are used to track email families. While the example below relates to email families, all attachment relationships for all responsive documents are to be produced in this format.

EXAMPLE: Consider ABC-JD-00000001 a 10-page parent email, with records ABC-JD-00000011 to ABC-JD-00000015, ABC-JD-00000016 to ABC-JD-00000020, and ABC-JD-00000021 to ABC-JD-00000025 as its attachments. Fields should be populated exactly as follows using the semicolon as the multi-entry delimiter for ATTACHMENTIDS:

BEGDOC#	ENDDOC#	PARENTID	ATTACHMENTIDS	FAMILYRANGE
ABC-JD-	ABC-JD-		ABC-JD-00000011;ABC-JD-	ABC-JD-00000001 -
00000001	00000010		00000016;ABC-JD-	ABC-JD-00000025
			00000021	
ABC-JD-	ABC-JD-	ABC-JD-		ABC-JD-00000001 -
00000011	00000015	00000001	·	ABC-JD-00000025
ABC-JD-	ABC-JD-	ABC-JD-		ABC-JD-00000001 -
00000016	00000020	00000001		ABC-JD-00000025
ABC-JD-	ABC-JD-	ABC-JD-		ABC-JD-00000001 -
00000021	00000025	00000001		ABC-JD-00000025

#### B. Electronic Documents

Electronic documents include word-processing documents, spreadsheets, presentations, and all other electronic documents not specifically discussed elsewhere. Production of these items should include image files with related searchable text, metadata, and bibliographic information. All passwords and encryption must be removed from electronic documents prior to production. Note that the following apply to both attachments of files to email or other items and loose native files:

- 1. Spreadsheets: Spreadsheets should be produced in native format (e.g., as .XLSX files), with searchable text for the entire document, metadata, and bibliographic information. Provide only a single image of the first page of the spreadsheet or provide a single placeholder image. The placeholder image must contain at a minimum the BEGDOC#, FILENAME, and FILEPATH. The Identification range for a spreadsheet should be a single number (e.g., ABC-JD-00000001 ABC- JD-00000001). The linked native file name should match the BEGDOC#/DOCID with the appropriate file extension.
- 2. Presentations: Presentations should be produced in full slide image format along with speaker notes (which should follow the full images of the slides) with related searchable text, metadata, bibliographic information and linked native file. Presentations should also be produced in native format (e.g., as .PPT files). The linked native file name should match the BEGDOC#/DOCID with the appropriate file extension.

- 3. *Hidden Text*. All hidden text (*e.g.*, track changes, hidden columns, hidden slides, mark-ups, notes) shall be expanded and rendered in the extracted text file. For files that cannot be expanded linked native files shall be produced with the image files.
- 4. Embedded Files. All embedded objects (e.g., graphical files, Word documents, Excel spreadsheets, .wav files) that are found within a file shall be produced so as to maintain the integrity of the source document as a single document. For purposes of production the embedded files shall remain embedded as part of the original source document. Hyperlinked files must be produced as separate, attached documents upon request. Any objects that cannot be rendered to images and extracted text (e.g., .wav, .avi files) must be produced as separate extracted files with linked native files and placeholder images and be treated as attachments to the original file.
- 5. Image-Only Files. All image-only files (non-searchable .PDFs, multi-page TIFFs, Snipping Tool screenshots, etc., as well as all other images that contain text) shall be produced with associated OCR text, metadata, and bibliographic information.
- 6. Proprietary File Types and Non-PC or Non-Windows Based Systems.

  Proprietary file types, such as those generated by financial or graphic design software, should be discussed with Commission staff in advance of production to determine the optimal format of production. Also, file types from non-PC or non-Windows based systems (e.g., Apple, UNIX, LINUX systems), should be discussed with Commission staff in advance of production to determine the optimal format of production.
- 7. Archive File Types. Archive file types (e.g., .zip, .rar) must be uncompressed for processing. Each file contained within an archive file should be produced as a child to the parent archive file. If the archive file is itself an attachment, that parent/child relationship must also be preserved.
- 8. *Processing Errors*. The text of the placeholder image should also be contained in the searchable text of the document in the event of uncorrectable processing errors.

# C. Hard-Copy (or Paper) Documents

Hard-copy documents are to be produced as black-and-white image files, except where noted below, with related searchable OCR text and bibliographic information. Special attention should be paid to ensure that hard-copy documents are produced as they are kept, reflecting attachment relationships between documents and information about the file folders within which each document is found. In addition, multi-page documents must be produced as single documents (*i.e.*, properly unitized) and not as several single-page documents. Where color is required to interpret the document, such as hard copy photos, and certain charts, that image must be produced in color. These color images are to be produced as .jpg format. Hard-copy photographs should be produced as color .jpg format files, if originally in color, or black-and-white .tif files if originally in black-and-white.

#### D. Shared Resources

Shared Resources should be produced as separate custodians if responsive custodians have access to them or if they contain responsive documents. The name of the group having access would be used as the custodian name, *i.e.* Marketing Execs or Accounting Dept. The Company will separately provide a brief description of each shared resource that includes a list of the custodians who have access to that shared resource.

#### E. Database Productions

Production of enterprise databases are not addressed in these specifications and must be discussed with the appropriate government legal and technical staff to determine the optimal production format; these will usually fall outside the scope of an image-based production. Care must be taken to ensure that all responsive databases and their metadata are preserved.

# F. Audio/Video Data

These specifications do not address the production of audio/video data. Care must be taken to ensure that all responsive audio/video data and their metadata are preserved. These data types may be stored in audio or video recordings, voicemail text messaging, and related/similar technologies. However, such data, logs, metadata, or other files related thereto, as well as other less common but similar data types, should only be produced after consultation with and consent of Commission staff as to the format for the production of such data.

#### G. Foreign-Language Materials

Foreign language materials should be produced after consultation with Commission staff.

# 2. De-duplication

Before doing any de-duplication, provide Commission staff with a written description of the method used to de-duplicate (including which elements are compared and what hash codes are used), and what is considered a duplicate. Then confirm that your approach is acceptable to the Commission. The Commission does not allow de-duplication of hard-copy documents, or that of "loose" electronic documents (e.g., presentation slides located on the custodian's C: drive) against email attachment versions of those same documents. The integrity of any produced email and any related "document family" must be maintained except as limited by any claim of privilege. Email attachments may not be deduplicated against attachments in other email families. De-duplication should occur both vertically within each custodian and horizontally across custodians. Vertical de-duplication is crucial when a production includes electronic documents from back-up tapes. Horizontal de-duplication must be done in a way that preserves (and produces) information on blind copy (Bcc) recipients of emails and other custodians whose files contain the duplicates that will be eliminated from the production as well as original filepath and mailbox folder information.

Custodian Append File. A Custodian Append file is to be produced when de-duplicating ACROSS custodians (i.e., horizontal de-duplication) and data is produced on a rolling basis. The file must be provided on an incremental basis starting with the second submission; as more custodians are discovered for previously produced documents, this file is updated with only the new custodian information. The Custodian Append File is a four-field delimited file consisting of the DOCIDs of the previously delivered document, the new custodian names, the Filepath(s)

prepended with Custodian Name (multi-entry), and the FolderLabel(s) prepended with Custodian name (multi- entry) for the duplicates of those records that would otherwise have been produced in the subsequent (new) submissions.

These specifications do not allow for near de-duplication or email threading. These forms of de-duplication must be discussed separately with Commission staff and consent obtained prior to the use of such techniques for production.

# 3. Document Numbering

Documents must be uniquely and sequentially numbered across the entire production, with an endorsement burned into each image. Each number shall be of a consistent length, include leading zeros in the number, and unique for each produced page. Numbers should contain no more than three segments connected by a hyphen. The leading segment must be the Company identifier, a middle segment identifying the custodian, and a sequential page counter with connecting hyphens (e.g., ABCCO-CEO-00000001). The number of digits in the numeric portion of the format should not change in subsequent productions, nor should spaces, hyphens, or other separators be added or deleted. Under no circumstances should Identification numbers contain embedded spaces, slashes (/), backslashes (\), carats (\^), underscores (\_), ampersands (&), hash marks (#), plus signs (+), percent signs (\%), dollar signs (\\$), exclamation marks (!), pipes (|), any character used as a delimiter in the metadata load files, or any character not allowed in Windows file-naming convention (,\/ : \*? " <> |  $\sim$  @ \^).

# 4. Privilege Designations

Documents redacted pursuant to any claim of privilege will be designated "Redacted" in the EPROPERTIES field as described in the Metadata Table. Appropriately redacted searchable text (OCR of the redacted images is acceptable), metadata, and bibliographic information must also be provided.

All documents that are part of a document family that includes a document withheld pursuant to any claim of privilege will be designated "Family Member of Privileged Doc" in the EPROPERTIES field as described in the Metadata Fields table for all other documents in its family. Placeholder images with BEGDOC#, FILENAME, FILEPATH and reason withheld (e.g., "Privileged") should be provided in place of the document images of the privileged document.

#### 5. Sample

Before beginning production, a sample production covering files of all types, including emails with attachments, loose files including spreadsheets and presentations, redacted documents, etc., should be provided, as directed by Commission staff. The sample size should be between 500 to 1000 records to be large enough to be representative and small enough to review quickly. The Commission will take a few business days to evaluate the sample and provide feedback. If there are any problems, corrected samples will need to be resubmitted until the Commission can confirm the problems are resolved.

# 6. Load File Set/Volume Configuration

Each production must have a unique MEDIAID name associated with it. This MEDIAID name must also appear on the physical label. The MEDIAID naming scheme should start with a 2 or 3 letter prefix identifying the Company followed by a 3-digit counter (e.g., ABC001). Each separate volume delivered on that media must also have a separate VOLUMENAME associated with it. On the root of the media, the top level folder(s) must be named for the volume(s). VOLUMENAME(s) should also be indicated on the physical label of the media. The volume naming scheme should be based on the MEDIAID name followed by a hyphen, followed by a 3-digit counter (e.g., ABC001-001). Load file volumes should be as large as practical but not contain more than 100,000 records each. The VOLUMENAME should increase sequentially across all productions on the same MEDIAID.

Under the VOLUMENAME folder, the production should be organized in 4 subfolders:

- 1. <u>DOCLINK</u> (contains linked native files, may contain subfolders, with no more than 5,000 files per folder)
- 2. <u>IMAGES</u> (may contain subfolders, with no more than 5,000 image files per folder)
- 3. <u>FULLTEXT</u> (may contain subfolders, with no more than 5,000 document-level text files per folder)
- 4. LOADFILES (should contain the metadata, DII, OPT, LST, and custodian append files)

#### 7. Deliverables

A submission index spreadsheet must be delivered with each submission and should provide statistical information about the volume(s) and media produced. Provide this in hard copy format and electronically on the deliverable media. A sample is included in this PDF.

It is expected that all productions will conform to the structure of the final, approved sample production. Any changes to production procedures that alter output format will require prior submission of another sample production as outlined in section 5. Sample.

The Commission accepts electronic productions loaded onto hard drives, CD-ROMs, or DVD-ROMs; however, production on hard drives minimizes costs and delay and is preferable. Where the size of the production exceeds the capacity of a single DVD-ROM, hard drives should be used as the delivery medium. For each piece of media a unique identifier (MEDIAID) must be provided and must be physically visible *on the exterior* of the physical item.

If the media is encrypted, supply the tool for decryption on or with the same media, as well as instructions for decryption. Provide the password separately.

All documents produced in electronic format shall be scanned for, and free of, viruses. The Commission will return any infected media for replacement, which may affect the timing of the Company's compliance with this Information Request.

The Commission does not accept load file productions via email or those that are posted on download sites (e.g., FTP, secure server).

The Commission recognizes that occasionally unforeseen issues will arise that require

replacing documents or data from a previously delivered production with new documents or corrected data. Substantive corrections may require the reproduction of the entire production volume. The production format for all corrections must be agreed upon prior to any submission of corrections. Any productions that have been created but not delivered when the need for corrections is detected must be corrected prior to delivery. Each replacement or corrected production must be named based on the production volume that is being replaced or corrected. For example, if a corrected metadata file replaces data in the previously delivered volume ABC-001-001 then the file name ABC-001-001-fix.txt should be used. Replacement document image file names, likewise, must be labeled with the same Identification number as the image being replaced. A separate correcting file is required for each volume to be corrected. These replacement or corrected productions must be delivered on separate media from any new productions. In the event that corrections alter the statistical information previously reported in the cover letter spreadsheet, an updated submission index spreadsheet with the corrected final statistical information must accompany each replacement or corrected submission. Provide this in hard copy format and electronically on the deliverable media.

# **METADATA TABLE OF REQUESTED FIELDS**

Review carefully as fields have been added or modified from the Commission's last set of specifications.

A "X" indicates that the field should be populated in the load file produced. "Other ESI" includes non-email files, such as, but not limited to MS Office files, WordPerfect files, etc.

Field Name COMPANIES MEDIAID VOLUMENAME CUSTODIAN TIMEZONE SPEC# HASHMD5 HASHSHA SEARCHVALUES BEGDOC# ENDDOC#	Field Description  Company submitting data  The unique identifier on the physical piece of media (e.g., ABC001)  Production volume number (e.g., ABC001-001)  Custodian(s) / source(s) format: Last, First or ABC Dept. Be consistent across all ESI sources/productions.  The TimeZone in which the custodian is located.  Subpoena/request paragraph number to which the document is responsive Document MD5 hash value (used for deduplication or other processing)  Document SHA1 hash value (used for deduplication or other processing)  List of search terms used to identify record as responsive (if used)  Start Identification number (including prefix) No spaces or special characters End Identification number (including prefix) No spaces or special characters  Must equal the value appearing in the BEGDOC# field and be UNIQUE		X X X X	X X X X X X X X	X X X X X X X	X X X X X X X
MEDIAID VOLUMENAME CUSTODIAN TIMEZONE SPEC# HASHMD5 HASHSHA SEARCHVALUES BEGDOC# ENDDOC#	The unique identifier on the physical piece of media (e.g., ABC001)  Production volume number (e.g., ABC001-001)  Custodian(s) / source(s) format: Last, First or ABC Dept. Be consistent across all ESI sources/productions.  The TimeZone in which the custodian is located.  Subpoena/request paragraph number to which the document is responsive Document MD5 hash value (used for deduplication or other processing)  Document SHA1 hash value (used for deduplication or other processing)  List of search terms used to identify record as responsive (if used)  Start Identification number (including prefix) No spaces or special characters End Identification number (including prefix) No spaces or special characters	Note Text Note Text Multi-Entry Note Text Multi-Entry Note Text Note Text Multi-Entry Note Text Multi-Entry Note Text	X X X	X X X X X X	X X X X X	X X X X
VOLUMENAME CUSTODIAN TIMEZONE SPEC# HASHMD5 HASHSHA SEARCHVALUES BEGDOC# ENDDOC#	Production volume number (e.g., ABC001-001)  Custodian(s) / source(s) format: Last, First or ABC Dept. Be consistent across all ESI sources/productions.  The TimeZone in which the custodian is located.  Subpoena/request paragraph number to which the document is responsive Document MD5 hash value (used for deduplication or other processing)  Document SHA1 hash value (used for deduplication or other processing)  List of search terms used to identify record as responsive (if used)  Start Identification number (including prefix) No spaces or special characters End Identification number (including prefix) No spaces or special characters	Multi-Entry Note Text Multi-Entry Note Text Note Text Note Text Multi-Entry Note Text Multi-Entry Note Text	X X X	X X X X X	X X X X	X X X X
CUSTODIAN TIMEZONE SPEC# HASHMD5 HASHSHA SEARCHVALUES BEGDOC# ENDDOC#	Custodian(s) / source(s) format: Last, First or ABC Dept. Be consistent across all ESI sources/productions.  The TimeZone in which the custodian is located.  Subpoena/request paragraph number to which the document is responsive Document MD5 hash value (used for deduplication or other processing)  Document SHA1 hash value (used for deduplication or other processing)  List of search terms used to identify record as responsive (if used)  Start Identification number (including prefix) No spaces or special characters End Identification number (including prefix) No spaces or special characters	Multi-Entry Note Text Multi-Entry Note Text Note Text Multi-Entry Note Text Multi-Entry Note Text	X	X X X X	X X X	X X X
TIMEZONE SPEC# HASHMD5 HASHSHA SEARCHVALUES BEGDOC# ENDDOC#	across all ESI sources/productions.  The TimeZone in which the custodian is located.  Subpoena/request paragraph number to which the document is responsive  Document MD5 hash value (used for deduplication or other processing)  Document SHA1 hash value (used for deduplication or other processing)  List of search terms used to identify record as responsive (if used)  Start Identification number (including prefix) No spaces or special characters  End Identification number (including prefix) No spaces or special characters	Note Text Multi-Entry Note Text Note Text Multi-Entry Note Text	X	X X X	X X X	X X X
SPEC# HASHMD5 HASHSHA SEARCHVALUES BEGDOC# ENDDOC#	Subpoena/request paragraph number to which the document is responsive Document MD5 hash value (used for deduplication or other processing) Document SHA1 hash value (used for deduplication or other processing) List of search terms used to identify record as responsive (if used) Start Identification number (including prefix) No spaces or special characters End Identification number (including prefix) No spaces or special characters	Multi-Entry Note Text Note Text Multi-Entry Note Text	X	X X X	X	X X
HASHMD5 HASHSHA SEARCHVALUES BEGDOC# ENDDOC#	Document MD5 hash value (used for deduplication or other processing)  Document SHA1 hash value (used for deduplication or other processing)  List of search terms used to identify record as responsive (if used)  Start Identification number (including prefix) No spaces or special characters  End Identification number (including prefix) No spaces or special characters	Note Text Note Text Multi-Entry Note Text	X	X	X	Х
HASHSHA SEARCHVALUES BEGDOC# ENDDOC#	Document SHA1 hash value (used for deduplication or other processing)  List of search terms used to identify record as responsive (if used)  Start Identification number (including prefix) No spaces or special characters  End Identification number (including prefix) No spaces or special characters	Note Text Note Text Multi-Entry Note Text	X	X	Х	Х
SEARCHVALUES BEGDOC# ENDDOC#	Document SHA1 hash value (used for deduplication or other processing)  List of search terms used to identify record as responsive (if used)  Start Identification number (including prefix) No spaces or special characters  End Identification number (including prefix) No spaces or special characters	Note Text Multi-Entry Note Text	-	Х		
BEGDOC# ENDDOC#	Start Identification number (including prefix) No spaces or special characters  End Identification number (including prefix) No spaces or special characters	Note Text	-			X
ENDDOC#	End Identification number (including prefix) No spaces or special characters			Х	х	х
	End Identification number (including prefix) No spaces or special characters		X	Х	х	х
		Note Text	X	X	X	X
DOCID		Note Text	$\frac{x}{x}$	X	X	X
NUMPAGES	Page count	Integer	$\frac{\hat{x}}{x}$	x	x	X
PARENTID	Parent record's BEGDOC#, including prefix (populated ONLY in child records)	Note Text	X	X	X	X
		INDIE LEXI	<del>  ^</del>	<del>- ^-</del>	<del>  ^</del> -	
ATTACHMENTIDS	Child document list: BEGDOC# of each child (populated ONLY in parent records)	Multi-Entry	x	x	х	×
FAMILYRANGE	Range of the BEGDOC# value of the parent record to the ENDDOC# value (including prefix) of the last child record (for example, ABC-JD-00001201 - ABC-JD-00001220); populated for all documents in the group. Empty if the record is NOT in family grouping	Note Text	х	x	x	х
EPROPERTIES	Indicate all that apply:  Record Type: E-Doc, E-Doc Attachment, Email, Email Attachment, Hard Copy, Calendar Appt Other Notations: Translation of [DOCID of original], Translated as [DOCID of Translation] Privilege Notations: Redacted, Privileged, Family Member of Priv Doc	Multi-Entry	x	x	x	x
FOLDERLABEL	Email folder path (sample: Smith,James-Inbox\Active); or Hard Copy folder/binder title/label prepended with Custodian Name.	Multi-Entry	х	Х		х
FROM	Author of the Email or Calendar item (as formatted on the original)	Note Text		Х		Х
ТО	Recipients of the Email or Calendar Item (as formatted on the original)	Multi-Entry	<b></b>	X		X
cc	Names of the individuals who were copied on the Email or Calendar Item (as formatted on the original)	Multi-Entry		Х		x
	Names of the individuals who were blind-copied on the Email or Calendar Item					
BCC	(as formatted on the original)	Multi-Entry		Х		Х
SUBJECT	Email or calendar subject	Note Text		Х		Х
DATE_HC	Date of hard copy documents, if coded. Format: YYYYMMDD.	Date	х			
	This is a multipurpose date field. Populate with: DATESAVED for E-Docs; DATESENT for Emails; DATEAPPTSTART for calendar appointments;					
DOCDATE	DATE_HC for hard copy documents, if available. Format: YYYYMMDD.	Date	X	X	Х	X
DATECREATED	Date electronic file was created. Format: YYYYMMDD.	Date			Х	
DATESENT	Date the Email or Calendar Item was sent. Format: YYYYMMDD.	Date.		X		Х
	Time Email or Calendar Item was sent Format: HH:MM:SS (use 24 hour					
TIMESENT	times, e.g., 13:32 for 1:32 pm; timezone indicators cannot be included)	Time		Х		Х
DATERECEIVED	Date Email or Calendar Item was received. Format: YYYYMMDD.	Date		Х		Х
TIL (EDECOR) :	Time Email or Calendar Item was received. Format: HH:MM:SS (use 24 hour					
TIMERECEIVED	times, e.g., 13:32 for 1:32 pm; timezone indicators cannot be included)	Time		Х		Х
HEADER	The internet header information for Email sent through the internet;	Note Text		Х		
INTERNETMSGID	Globally unique identifier for a message which typically includes messageid and a domain name. Example: <0E6648D558F338179524D555@m1p.innovy.net	Note Text		x		x

	Unique system identification number for the e-mail message assigned by the proprietary email database/mailstore/post office file associated with centrally				
	managed enterprise email servers. EntryID for Microsoft Outlook, the				İ
	UniqueID (UNID) for Lotus Notes, or equivalent value for other proprietary				į
MESSAGEID	mailstore formats.	Note Text	Х		Х
INREPLYTOID	Internet message ID of the Email replied to	Note Text	Х		
CONVERSATIONINDEX	Email Thread Identification	Note Text	Х		Х
IMPORTANCE	Email flag indicating priority level set for message	Note Text	X		Х
DELIVRECEIPT	Delivery receipt request notification for Email messages	Note Text	Х		Х
READRECEIPT	Read Receipt request notification for Email messages	Note Text	X		Х
SENSITIVITY	Sensitivity field from Email messages	Note Text	$\frac{\hat{x}}{x}$		X
REVISION	Revision number extracted from metadata of native file	Note Text		Х	
DATESAVED	Date native file was last modified. Format: YYYYMMDD.	Date		X	
DATEPRINTED	Date native file was printed (metadata derived from Word documents, etc.)	Date		X	
EORGANIZATION	Company field extracted from the metadata of a native file	Note Text		Х	
EAUTHOR	Author field value extracted from the metadata of a native file	Note Text		Х	
LAST_AUTHOR	Last Saved By field value extracted from metadata of a native file	Note Text		Х	
ESUBJECT	Subject field value extracted from metadata of a native file	Note Text		Х	
	File size in Bytes (integer value only - do not include unit of measure,				
FILESIZE	thousands character, or decimal places - e.g., 1008 not 1,008)	Integer	x	Х	Х
FILENAME	File name of native file (E-Docs or attachments to Email)	Note Text	Х	Х	Х
APPLICATION	Application used to create native file (e.g., Excel, Outlook, Word)	Note Text	Х	Х	Х
FILEEXTENSION	File extension of native file	Fixed Length 5			
LILEEVI ENOION	File extension of native file	chars	x	Х	Х
CH CDATH	File path to native file as it existed in original environment, prepended with	M. III F. I.			
FILEPATH	Custodian Name.	Multi-Entry	x	х	х
DOCLINK	File path location to the current native file location on the delivery medium	Note Text		Х	
DATEAPPTSTART	Start date of calendar appointment. Format: YYYYMMDD.	Date			Х
	Start time of calendar appointment. Format: HH:MM:SS (use 24 hour times,				
TIMEAPPTSTART	e.g., 13:32 for 1:32 pm; timezone indicators cannot be included)	Time			Х

Date

Time

X

Χ

End date of calendar appointment. Format: YYYYMMDD.

End time of calendar appointment. Format: HH:MM:SS (use 24 hour times, e.g., 13:32 for 1:32 pm; timezone indicators cannot be included)

DATEAPPTEND

TIMEAPPTEND

Submission Index Spreadshe	et for ABC	Company	Production								
Matter: ABC's Acquisition of XYZ			1								
Custodian	Physical Media Name	Volume Name	Begin I.D. Number	End I.D. Number	Intentionally Left Blank	Number of Records	Number of Images	Number of Native Files	Number of Extracted/OCRed Text Files	Volume Size in GB	Date Produced
Doe, John K.	ABC001	ABC001-001	ABC-JKD-00000001	ABC-JKD-00005825		258	5,825	13	258		
Doe, Jane B.	ABC001	ABC001-001	ABC-JBD-00000001	ABC-JBD-00003711		365	3,711	52	362		
TOTALS FOR THIS VOLUME						623	9,536	65	621	0.50	mm/dd/yyyy
Daniels, James			ABC-JAD-00000001			1,150	5,727	156	1,149		
Wise, Barry	ABC001	ABC001-002	ABC-BLW-00000001	ABC-BLW-00003010		600	3,010	20	598		<u> </u>
TOTALS FOR THIS VOLUME						1,750	8,737	176	1,750	1.39	mm/dd/yyyy
Brown, Charlene J.			ABC-CJB-00000001			1,315	6,952	68	1,310	1.02	mm/dd/yyyy
Mahan, Freda		ABC002-001	ABC-FRM-00000001	ABC-FRM-00010400	ABC-FRM-00000698 - ABC-00000982	2,023	10,115	85	2,023	2.00	mm/dd/yyyy
TOTALS FOR THIS VOLUME						3,338	17,067	153	1,750	1.39	mm/dd/yyyy
GRAND TOTALS						5,711	35,340	394	4,121	3.28	
		1	1	1			· · · · · · · · · · · · · · · · · · ·	i		ŧ I	
		<u> </u>	<u> </u>	1 11 11 11 11 11 11	air but the totals you walous a must be	nuovidad					
* This spreadsheet can be prov	ided on a cu	irrent produc	ction-specific or a cur	nulative production ba	sis, but the totals per volume must be	provided					
** This spreadsheet is a sample	of format	and does not	reflect the names/Ide	entification numbers of	sis, but the totals per <i>volume</i> must be f the sample files provided	provided					
** This spreadsheet is a sample	of format	and does not	reflect the names/Ide	entification numbers of	sis, but the totals per <i>volume</i> must be f the sample files provided	provided					
** This spreadsheet is a sample	of format	and does not	reflect the names/Ide	entification numbers of	sis, but the totals per <i>volume</i> must be f the sample files provided	provided					
** This spreadsheet is a sample *** Volume size is actual space	of format	and does not	reflect the names/Ide	entification numbers of	sis, but the totals per <i>volume</i> must be f the sample files provided	provided					
** This spreadsheet is a sample *** Volume size is actual space	of format	and does not	reflect the names/Ide	entification numbers of	sis, but the totals per volume must be f the sample files provided	provided					
** This spreadsheet is a sample *** Volume size is actual space	of format	and does not	reflect the names/Ide	entification numbers of	sis, but the totals per <i>volume</i> must be f the sample files provided	provided					
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** This spreadsheet is a sample *** Volume size is actual space	of format	and does not	reflect the names/Ide	entification numbers of	sis, but the totals per volume must be f the sample files provided	provided					
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** This spreadsheet is a sample *** Volume size is actual space	of format	and does not	reflect the names/Ide	entification numbers of	sis, but the totals per volume must be f the sample files provided	provided					
** This spreadsheet is a sample *** Volume size is actual space	of format	and does not	reflect the names/Ide	entification numbers of	sis, but the totals per volume must be f the sample files provided	provided					
** This spreadsheet is a sample *** Volume size is actual space	of format	and does not	reflect the names/Ide	entification numbers of	sis, but the totals per volume must be f the sample files provided	provided					
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** This spreadsheet is a sample *** Volume size is actual space	of format	and does not	reflect the names/Ide	entification numbers of	sis, but the totals per volume must be f the sample files provided	provided					
** This spreadsheet is a sample *** Volume size is actual space	of format	and does not	reflect the names/Ide	entification numbers of	sis, but the totals per volume must be f the sample files provided	provided					

# **Data Formatting**

All data should be submitted in a .csv (comma-delimited) format. The sheets in the workbook provide a template for how the tables should be designed.

The required format for the entries in each column/field is indicated in the instructions for each sheet. Column entries in **bold red** indicate that the party should enter only one of the possible entries listed for that column. No other entries should be entered.

Data for all of the tables should be submitted on a periodic basis as specified in the instructions in individual tables.

# "Plan Data" Table

For each month beginning June, 2013 and extending through June, 2014, please provide the plan level subscriber data by zip code requested in the table below.

Column	Variable Name	Format	Possible Entries/Example Entries	Description
Α	date	Text - YYYY_MM	2013_06 to 2014_06	The month for which the data is being collected
В	zip	Text	20427	Five-digit zip code (with leading zeros) for the service plan
С	plan_id	Text	6478931A	A unique internal system service plan identifier for each plan
6				
. D	plan_name	Text	HD Preferred, Best Double with Extreme	The service plan name associated with the Plan ID
E	internet	Integer	0, 1	Whether the plan includes Internet access service (1) or not (0)
				The advertised downstream speed of the service plan in Mbps (-1 if no Internet access service; -2 if
F	down_speed	Float	3	unknown)
	0 9			The advertised upstream speed of the service plan in Mbps (-1 if no Internet access service, -2 if
G	up_speed	Float	1.5	unknown)
Н	mvpd	Integer	0, 1	Whether the service plan includes MVPD service (1) or not (0)
1	video_tier	Text	Expanded Basic	The video tier name associated with this service plan (-1 if no video service, -2 if unknown)
	24	i ii i		
J	channels	Integer	26	Number of channels included in the service plan (-1 if no Internet access service, -2 if unknown)
K	voice	Integer	0, 1	Whether the service plan includes telephone services (1) or not (0)
L	unlimited_voice	Integer	0, 1	Whether the service plan includes unlimited national voice calling (1) or not (0)
				The length of any contractual commitment subject to a termination penalty in months (-1 if no
M	contract	Integer	24	contract, -2 if unknown)
N	subs	Integer	568	Total number of subscribers in this zip code to the service plan on the last day of the month
7,1				
0	subs_1month	Integer	18	Number of subscribers in this zip code who have subscribed to the service plan for 1 month or less
3		5.1		Number of subscribers in this zip code who have subscribed to the service plan for 12 months or
Р	subs_12months	Integer	151	less
\$1				Number of subscribers in this zip code who have subscribed to the service plan for more than 12
Q	subs_12_24months	Integer	140	months, and for 24 months or less
				Number of subscribers in this zip code who have subscribed to the service plan for more than 24
R	subs_24months	Integer	277	months
				Number of subscribers in this zip code who have discontinued service to the service plan during
S	disconnects	Integer	81	the relevant month
1 =				Number of subscribers in this zip code discontinuing service to the service plan who were
T	disconnects_12months	Integer	13	subscribed to the service plan for 12 months or less
*				Number of subscribers in this zip code discontinuing service to the service plan who were
U	disconnects_12_24months	Integer	25	subscribed to the service plan for more than 12 months and for 24 months or less
		×	· · · · · · · · · · · · · · · · · · ·	Number of subscribers in this zip code discontinuing service to the service plan who were
V	disconnects_24months	Integer	43	subscribed to the service plan for more than 24 months
		Te Te		Percent of subscribers who are subject to an early termination fee ("ETF") on the last day of the
W	etf_perc	Float	75.6	month
A				Percent of subscribers who have subscribed to the service plan for 12 months or less who are
X	etf_perc12months	Float	82.0	subject to an ETF on the last day of the month

# "Plan Data" Table

For each month beginning June, 2013 and extending through June, 2014, please provide the plan level subscriber data by zip code requested in the table below.

Column	Variable Name	Format	Possible Entries/Example Entries	Description
				Percent of subscribers who have subscribed to the service plan for 12 months or more, and for 24
Υ	etf_perc12_24months	Float	44.0	months or less who are subject to an ETF on the last day of the month
				Percent of subscribers who have subscribed to the service plan for more than 24 months who are
Z	etf_perc_24months	Float	56.0	subject to an ETF on the last day of the month
AA	etf	Float	\$126.01	Average ETF of all subscribers who are subject to an ETF on the last day of the month
				Average ETF of subscribers who have subscribed to the service plan for 12 months or less who are
AB	etf_12months	Float	\$267.10	subject to an ETF on the last day of the month
				Average ETF of subscribers who have subscribed to the service plan for more than 12 months, and
AC	etf_12_24months	Float	\$111.67	for 24 months or less who are subject to an ETF on the last day of the month
				Average ETF of subscribers who have subscribed to the service plan for more than 24 months who
AD	etf_24months	Float	\$56.35	are subject to an ETF on the last day of the month
				Average recurring service plan revenue (ARSPR) per subscriber in this zip code with the service
AE	arspr	Float	\$90.45	plan in the month
				ARSPR of subscribers who have subscribed to the service plan for 1 month or less with the service
AF	arspr_1month	Float	\$89.02	plan in the month
				ARSPR of subscribers who have subscribed to the service plan for 12 months or less with the
AG	arspr_12months	Float	\$92.50	service plan in the month
				ARSPR of subscribers who have subscribed to the service plan for more than 12 months, and for 24
AH	arspr_12_24months	Float	\$93.65	months or less with the service plan in the relevant month
				ARSPR of subscribers who have subscribed to the service plan for more than 24 months with the
Al	arspr_24months	Float	\$87.71	service plan in the month
		g1+	6224.20	The control of the co
AJ	acquisition_cost	Float	\$234.29	The average acquisition cost per subscriber in this zip code with the service plan in the month

#### Notes:

Columns A through M define unique records in this data

date z	zip	plan_id	plan_name	internet	down_ speed	up_speed	mvpd	video_ tier	channels	telephony	unlimited_v oice	contract	subs	subs_1 month	subs_12 months	subs_12_ 24months	subs_24 months	disconnects	disconnects _12 months	disconnects _12_24 months	disconnects _24 months	etf_ perc	etf_perc 12months	etf_perc 12_24 months	etf_perc_ 24months	etf	etf_12 months	etf_12_24 months	etf_24 months	arspr	arspr_1 month	arspr_12 months	arspr_ a 12_24 months mo	rspr acquisition 24 _cost onths
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