AUCTION 103 INITIAL COMMITMENT DATA FILE FORMATS

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Revision History

Date	Section	Comments
August 14, 2019	2.2	Added more detail to the notes for the relinquished_blocks_submitted and relinquished_redistributed_weighted_mhz_pops fields.

1. Introduction

This document provides the data file specifications for the FCC Initial Commitment System download files that will be available to 39 GHz incumbents during the initial commitment phase of Auction 103. Each file specification includes the format of the file and definitions of the data elements in the files including a name, description, data type, examples and notes. Data type definitions and notation rules are explained in an appendix attached to this document.

2. Incumbent Download Files

This section provides the specifications of the download files available to incumbents during the initial commitment phase of the auction.

2.1. My Updated Holdings and FCC-Proposed Reconfiguration

File name: my_updated_holdings_and_fcc_proposed_reconfiguration.csv

The My Updated Holdings and FCC-Proposed Reconfiguration file provides a list of your updated license holdings and modified licenses based on the FCC-proposed reconfiguration.

File Structure:

- CSV file (first row contains header)
- One record for each market where you have updated holdings

Field	Description	Data Type	Example/*Notes*
auction_id	The FCC auction number for the auction	String	103
incumbent	Qualified incumbent name	String	Company XYZ "ABC, Inc."
frn	The incumbent's FCC Registration Number (FRN) which uniquely identifies the incumbent	String [0-9]{10}	0003645843
market_number	The PEA (Partial Economic Area) ID	String (["PEA"][0-9] [0-9][0-9]){6}	PEA001
market_name	The PEA name	String	"New York, NY"
weighted_mhz_pops_per_block	Weighted MHz-pops of the market per 100-MHz block	Integer	3442672800
updated_holdings_weighted_mhz_pops	The weighted MHz-pops in the incumbent's updated holdings including all of its blocks in the market	Decimal	123455.50

Field	Description	Data Type	Example/*Notes*
updated_holdings_blocks	The number of generic blocks of spectrum that the incumbent holds before the initial commitment phase, rounded to four decimal places. Calculated as updated_holdings_weighted_mhz_pops / weighted_mhz_pops_per_block for market	Decimal (rounded to 4 decimal places)	2.3801
updated_holdings_full_blocks_flag	Indicates whether the updated_holdings_blocks contains only full blocks (no partial blocks), as calculated using updated_holdings_weighted_mhz_pops / weighted_mhz_pops_per_block for market.	String	Y, Null *Y = Contains only full blocks (no partial blocks)* *Null otherwise*
fcc_reconfiguration_holdings_weighted_mhz_pops	The weighted MHz-pops in the FCC-proposed reconfiguration	Decimal	122223.50
fcc_reconfiguration_holdings_blocks	The number of generic blocks of spectrum that the incumbent holds in the FCC-proposed reconfiguration, rounded to four decimal places Calculated as fcc_reconfiguration_holdings_weighted_mhz_pops / weighted_mhz_pops_per_block for market	Decimal (rounded to 4 decimal places)	2.7500
fcc_reconfiguration_holdings_full_blocks_flag	Indicates whether the fcc_reconfiguration_holdings_blocks contains only full blocks (no partial blocks), as calculated using fcc_reconfiguration_holdings_weighted_mhz_pops / weighted_mhz_pops_per_block for market.	String	Y, Null *Y = Contains only full blocks (no partial blocks)* *Null otherwise*

Field	Description	Data Type	Example/*Notes*
fcc_reconfiguration_de_minimis	Indicates whether the FCC-proposed reconfiguration quantity for a partial block exceeds the *de minimis* amount (e.g., 90%). If yes and the incumbent elects to keep its partial block, then the incumbent will have a full block in that market after the auction.	String	Y, N, Null *Null for all markets except for the market containing the partial block.* *Note that at most one market per incumbent will contain a "Y" or "N".*

2.2. My Initial Commitments

File name: my_initial_commitments.csv

The My Initial Commitments file contains information about your current (most recently submitted) decision with respect to your existing holdings in the 39 GHz band. It indicates which option you chose:

- Option 1: Accept modified licenses based on FCC-proposed reconfiguration
- Option 2: Accept modified licenses based on alternate reconfiguration
- Option 3: Relinquish all holdings

If you select option 1 or option 2, this file will indicate whether you opted to keep a partial block, if any, or opted to relinquish that partial block. If you are keeping the partial block, this file indicates whether the *de minimis* rule was applied.

For all options, this file provides the number of blocks and weighted MHz-pops that you are keeping ("modified holdings") or relinquishing in each market.

File Structure:

- CSV file (first row contains header)
- One record for each market where you have updated holdings

Field	Description	Data Type	Example/*Notes*
auction_id	The FCC auction number for the auction	String	103
incumbent	Qualified incumbent name	String	Company XYZ "ABC, Inc."
frn	The incumbent's FCC Registration Number (FRN) which uniquely identifies the incumbent	String [0-9]{10}	0003645843

Field	Description	Data Type	Example/*Notes*
initial_commitment_option	Indicates the option that incumbent chose during the initial commitment window. 1 = Option 1 2 = Option 2 3 = Option 3	Integer	1 2 3 *If the incumbent does not submit an initial commitment option before the initial commitment window closes, then the value for this field will be 1.*
relinquishment_of_partial_block	Indicates whether an incumbent elected to relinquish its partial block.	String	Y, N, Null *Null if initial_commitment_option is 3.* *Null if initial_commitment_option is 1 or 2, and there was no partial block.*
market_number	The PEA (Partial Economic Area) ID	String (["PEA"] [0-9] [0-9][0-9]){6}	PEA001
market_name	The PEA name	String	"New York, NY"
weighted_mhz_pops_per_block	Weighted MHz-pops of the market per 100-MHz block	Integer	3442672800

Field	Description	Data Type	Example/*Notes*
modified_holdings_blocks	The number of generic blocks of spectrum that the incumbent holds, as modified during the initial commitment phase, rounded to four decimal places. This field only pertains to initial_commitment_option = 1 or 2. When initial_commitment_option = 1, this field usually equals fcc_reconfiguration_holdings_blocks. When initial_commitment_option = 2, this field usually equals the number of blocks that the incumbent enters (or the number of blocks calculated by the system for the last market). If an incumbent relinquishes a partial block (relinquishment_of_partial_block = Y), this field equals the number of whole blocks for that market. If the number of blocks was rounded up due to the *de minimis* rule, this field contains the whole number of blocks that the incumbent will receive.	Decimal (rounded to 4 decimal places)	2.7500 *This field is null for initial_commitment_option = 3.*

Field	Description	Data Type	Example/*Notes*
modified_holdings_before_de_minimis	The number of generic blocks of spectrum that the incumbent holds, rounded to four decimal places, prior to rounding up to the next whole block due to the *de minimis* rule. This field only pertains to initial_commitment_option = 1 or 2.	Decimal (rounded to 4 decimal places)	2.9678 *This field is null for initial_commitment_option = 3.* *This field is null for initial_commitment_option = 1 or 2, except when relinquishment_of_partial_block = "N" and the de minimis rule was applied to the quantity (rounding it up).*
modified_holdings_weighted_mhz_pops	The weighted MHz-pops in the incumbent's holdings, as modified during the initial commitment phase. This field only pertains to initial_commitment_option = 1 or 2. When relinquishment_of_partial_block = N, this field will contain the actual number of weighted MHz-pops for that market.	Decimal	122223.50 *This field is Null for initial_commitment_option = 3.* *If relinquishment_of_partial_block = Y for this market, then this field will only contain the weighted MHz-pops associated with the whole number of blocks that the incumbent receives in the reconfiguration.*

Field	Description	Data Type	Example/*Notes*
relinquished_blocks_submitted	The number of generic blocks of spectrum that the incumbent submitted to relinquish, to four decimal places. For initial_commitment_option = 1 or 2, this field only pertains to the relinquished partial block if relinquishment_of_partial_block = Y. For initial_commitment_option = 3, this field pertains to all markets and is the number of blocks that the incumbent entered.	Decimal (rounded to 4 decimal places)	2.7500 *Null for initial_commitment_option = 1 or 2 for all markets except for the market where the incumbent relinquished a partial block, if any.* *For initial_commitment_option = 3, if the incumbent did not change the default value for the market, then this value is the number of blocks in the incumbent's updated holdings (rounded to 4 decimal places).*
relinquished_redistributed_weighted_mhz_pops	The weighted MHz-pops of the relinquished redistributed holdings, as modified during the initial commitment phase. For initial_commitment_option = 3, this field pertains to all markets.	Decimal	114567.50 *Null for initial_commitment_option = 1 or 2 for all markets* *For initial_commitment_option = 3, if the incumbent did not change the default value for the number of blocks relinquished in the market, then this value is equal to the weighted MHz-pops in the incumbent's updated holdings. If the incumbent modified the number of blocks in its redistributed holdings, then this value is calculated using the weighted MHz-pops per block and the number of blocks in the redistributed holdings (the number of blocks entered by the incumbent).*

Field	Description	Data Type	Example/*Notes*
relinquished_adjusted_weighted_mhz_pops	The adjusted weighted MHz-pops of the relinquished holdings, as modified during the initial commitment phase. For initial_commitment_option = 1 or 2, this field only pertains to the relinquished weighted MHz-pops of the partial block if relinquishment_of_partial_block = Y. For initial_commitment_option = 3, this field pertains to all markets.	Decimal	122223.50 *Null for initial_commitment_option = 1 or 2 for all markets except for the market where the incumbent relinquished a partial block, if any.* *Note: For any partial block, the relinquished_adjusted_weighted_mhz_pops may be not equal to relinquished_blocks_submitted * weighted_mhz_pops_per_block due to rounding.* *For initial_commitment_option = 3, the system will place redistributed holdings for the balance into partial PEAs, as much as possible without exceeding a full block, starting with the lowest numbered PEA.*
entered_by	Name of authorized individual who made an election	String	Karen Smith *If the incumbent does not submit an initial commitment option before the initial commitment window closes, then the value for initial_commitment_option will be 1, and entered_by will be populated with "System".*
entered_time	The time the election was submitted (entered_by = incumbent) or the time when the initial commitment window ended (entered_by = System)	String YYYY-MM-DD HH:MM:SS	2019-05-04 13:21:47 *All times are in Eastern Time.*

3. Appendix: Data Type Definitions

The following is a guide to interpreting data types defined in this document. This guide is based on regular expressions used in XML standards.

Valid Data Types used in this Document

Character: A character is a single standard ASCII character. The following list has examples of valid ASCII characters:

- a
- D
- 3
- %

String: A string contains one or more characters and can contain whitespace. The following list has examples of valid strings:

- PEA001
- 005
- 588.3-593.3 MHz + 628.3-633.3 MHz
- Huntsville-Decatur-Florence, AL
- 30156

Note that strings containing a comma that are included in a CSV formatted file need to include quotation marks around them. In the above example, "Huntsville-Decatur-Florence, AL" would be the correct format for the string in a CSV file.

Numeric: Numeric is a generic data type that covers a number of different underlying data types. As a result, anything defined as numeric could be any of the following:

- Decimal
- Integer
- Long

Decimal: The Decimal data type is used to specify a number that may optionally contain a fractional portion. The decimal numbers in the bidding system are made with 2 decimal places.

The following list has examples of valid Decimals:

- 123.45
- -0.15
- .67
- 0.30
- 2.7501

The following list has examples of invalid Decimals:

- 123.4.5

- 5+6
- 1.4545E6
- 5,121.00

Integer: The integer data type is used to specify a numeric value without a fractional component.

- It's assumed that any Integers defined in this document are unsigned and never include a (+) plus or (-) minus sign. Any signed Integers containing a + or – are considered invalid.
- If the Integer is of defined length, then curly brackets should be used. For example, {3} indicates the integer should be exactly 3 numbers long.

The following list has examples of valid Integers:

- 009
- 9
- 2147483647

The following list has examples of invalid Integers:

- -009
- +009

Null

Regardless of the data type, under certain conditions a field may be null, which means there is no data for that field (i.e., the field is blank).

Restricting values for a data type

Restrictions are used to define acceptable values for any given data type. The following lexicon is used when defining data types:

- Square brackets define the *pattern*.
    - e.g., [A-L] means only the uppercase letters A through L are allowed.
    - e.g., [U|D] means only the uppercase letters U or D are allowed.
    - e.g., [0-9] means only the numbers 0 through 9 are allowed.
- Curly brackets define the *length* including whitespace.
    - e.g., {3} means the value has to be exactly 3 characters long.
    - e.g., {1,3} means the value has to be a minimum of 1 character and a maximum of 3 characters.
    - e.g., {0,50} means the value has to be a minimum of 0 characters and a maximum of 50 characters.

Example 1:

The Data Type is defined as follows:

Integer
{3}

The curly brackets mean only a 3-digit integer is allowed.

Valid Values for example 1:

- 009
- 056
- 102

Invalid Values for example 1:

- 09
- 3502
- 1
- +12
- -35

Example 2:
The Data Type is defined as follows:

String
[A-L]{1}

The square brackets mean only the uppercase letters A through L are allowed and the curly brackets mean it must be exactly 1 character long.
Valid Values for example 2:

- B
- L

Invalid Values for example 2:

- a
- M
- 6

Example 3:

The Data Type is defined as follows:

String
[0-9]{3}

The square brackets mean only the numbers 0 through 9 are allowed and the curly brackets mean it must be 3 characters long.
Valid Values for example 3:

- 001
- 023
- 358

Invalid Values for example 3:

- 2
- 01
- 2026

Example 4:

The Data Type is defined as follows:

String
[0-9]{1,2}

The square brackets mean only the numbers 0 through 9 are allowed and the curly brackets mean it must be a minimum of 1 character long and a maximum of 2 characters long.
Valid Values for example 4:

- 4
- 04
- 41

Invalid Values for example 4:

- 123
- Blank or null value

Example 5:

The Data Type is defined as follows:

String
[US|CA|MX]{2}

The square brackets mean the pattern must be either US, CA or MX. The curly brackets mean it must be exactly 2 characters long.
Valid Values for example 5:

- US
- CA

Invalid Values for example 5:

- C
- USA

Example 6:

The Data Type is defined as follows:

String
(["PEA"][0-9][0-9][0-9]){6}

The square brackets inside the round brackets mean the pattern must be a concatenation of the text "PEA" followed by three single numbers, with each number ranging from 0 through 9. The curly brackets mean it must be exactly 6 characters long.
Valid Values for example 6:

- PEA002
- PEA356

Invalid Values for example 6:

- PEA0001
- PEA-005
- PEA-05
- PEA-0512

- PEA-2

Example 7:

The Data Type is defined as follows:

String

{0,50}

The absence of square brackets means there are no restrictions to the characters in this string. The curly brackets mean it must be a minimum of 0 characters long (i.e., can be blank/null) and a maximum of 50 characters long.

Valid Values for example 7:

- 588.3-593.3 MHz + 628.3-633.3 MHz
- Albuquerque-Santa Fe, NM

Invalid Values for example 7:

- Greenville-Spartanburg, SC-Asheville, NC-Anderson, SC
- This is an invalid string which is longer than 50 characters including spaces.